

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

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

MARLA D. GUENSLER  
SENIOR ENGINEER  
(925) 246-8776  
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ENVIRONMENTAL  
PROTECTION  
99 JAN -5 AM 3:20

# 1068

**DEC 29 1998**

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, Fourth Quarter 1998*, dated November 24, 1998, for the above referenced site. The report was prepared by Environmental Resolutions, Inc. (ERI) of Novato, California, and details the results of the quarterly groundwater monitoring and sampling activities at the subject site.

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

Sincerely,



Marla D. Guensler  
Senior Engineer

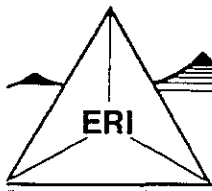
MDG/tjm

Attachment: ERI's Quarterly Groundwater Monitoring Report, Fourth Quarter 1998, dated November 24, 1998

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

w/o attachment  
Mr. Mark S. Dockum - Environmental Resolutions, Inc.





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**ENVIRONMENTAL RESOLUTIONS, INC.**

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November 24, 1998  
ERI 200913.R16

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

Subject: Quarterly Groundwater Monitoring, Fourth Quarter 1998, Former Exxon Service Station 7-0236, 6600 East 14th Street, Oakland, California.

Ms. Guensler:

At the request of Exxon Company, U.S.A. (Exxon), Environmental Resolutions, Inc. (ERI) performed the fourth quarter 1998, 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 groundwater flow direction and gradient.

#### **GROUNDWATER MONITORING AND SAMPLING**

On October 16, 1998, ERI measured depth to water (DTW) in all existing monitoring wells and collected groundwater samples from groundwater wells MW2, MW3, MW5, MW6, and MW8 for laboratory analysis. No measurable liquid phase hydrocarbons were observed in the monitoring wells. Groundwater monitoring and sampling was performed in accordance with ERI's groundwater sampling protocol provided in Attachment A.

Based on DTW measurements the groundwater appears to flow in a southwesterly direction with a calculated hydraulic gradient of 0.022 (Plate 2). Historical and recent monitoring data are summarized in Table 1.

#### **LABORATORY ANALYSES AND RESULTS**

Groundwater samples were submitted to Sequoia Analytical Laboratories (California State Certification Number 1210) in Redwood City, California, under chain of custody protocol. The samples were analyzed for benzene, toluene, ethylbenzene, total xylenes (BTEX), methyl tertiary butyl ether (MTBE), total purgeable petroleum hydrocarbons as gasoline (TPPHg), and total extractable petroleum hydrocarbons as diesel (TEPHd) 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 analysis of groundwater samples are summarized in Table 1. The results of analyses of groundwater samples collected during the recent sampling event are shown on Plate 2.

## LIMITATIONS

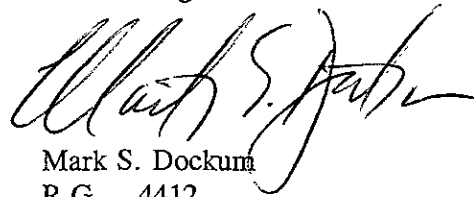
This report was prepared in accordance with generally accepted standards of environmental practice in California at the time this investigation was performed. This report has been prepared for Exxon Company, U.S.A. and any reliance on this report by third parties shall be at such party's sole risk.

If you have any questions or comments regarding this report, please call (415) 382-5989.

Sincerely,  
Environmental Resolutions, Inc.



Scott R. Graham  
Staff Geologist



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

Enclosures: Table 1: Cumulative Groundwater Monitoring and Sampling Data

Plate 1: Site Vicinity Map

Plate 2: Generalized Site Plan

Attachment A: Groundwater Sampling Protocol

Attachment B: Laboratory Analysis Reports and Chain of Custody Record

**TABLE 1**  
**CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA**  
Former Exxon Service Station 7-0236  
6600 East 14th Street  
Oakland, California  
(Page 1 of 9)

Well ID # (TOC)	Sampling Date	SUBJ <.....>	DTW .....feet.....>	Elev. >	TEPHd <.....>	TPPHg .....ug/L.....>	MTBE >	B >	T >	E >	X >	DO <...ppm...>
MW1 (20.20)	3/15/91	NR	7.44	12.76	---	<50	---	<0.3	0.5	0.3	1.3	---
	01/15/92 (H,T)	NR	10.60	9.60	<300	<50	---	<0.5	0.7	<0.5	0.9	---
	03/23/92 (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	---	---	---	---	---	---	---	---
	07/08/92 (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	---
	9/2/93	NLPH	10.85	9.35	<50	<50	---	<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	---
	2/4/94	NLPH	9.10	11.10	<50	<50	---	<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	---
	9/20/94	NLPH	10.73	9.47	<50	<50	---	<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	---
	3/27/95	NLPH	7.06	13.14	<50	<50	---	<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	---
	8/8/95	NLPH	9.24	10.96	<50	<50	<2.5	<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	---
	2/29/96	NLPH	6.80	13.40	53	<50	<2.5	<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	---
	8/20/96	NLPH	9.58	10.62	<50	<50	<2.5	<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)	03/15/91 (H,T)	NR	9.05	10.10	120	1,700	---	190	2.6	12	64	---
	01/15/92 (H,T)	NR	11.60	7.55	1,000	6,800	---	81	<10	320	170	---
	03/23/92 (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	---	---	---	---	---	---	---	---
	09/02/93	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	---

TABLE 1  
 CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA  
 Former Exxon Service Station 7-0236  
 6600 East 14th Street  
 Oakland, California  
 (Page 2 of 9)

Well ID # (TOC)	Sampling Date	SUBJ	DTW feet	Elev.	TEPHd	TPPHg	MTBE	B ug/L	T	E	X	DO <...ppm...>	
MW2 (cont.) (19.15)	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	---	---	---	---	---	---	---	---	
	09/20/94	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	---	
	Additional Analyses for general minerals and properties <*												
	2/29/96	NLPH	8.45	10.70	2,500	<5,000	25,000	120	<50	120	<50	---	
	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	---	---	---	---	---	---	---	---	
	10/17/96	---	---	---	---	---	---	---	---	---	---	7.75	
	11/27/96	---	---	---	---	---	---	---	---	---	---	6.28	
	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	<del>1,400</del>	22	<2.0	<2.0	2.4	---		
MW3 (19.59)	03/15/91 (H,T)	NR	7.84	11.75	160	3,100	---	2.2	1.9	100	84	---	
	01/15/92 (H,T)	NR	10.30	9.29	<300	250	---	0.7	6.8	1.5	1.5	---	
	03/23/92 (H,T)	NR	6.84	12.75	440	640	---	<0.5	12	25	6.5	---	





TABLE 1  
 CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA  
 Former Exxon Service Station 7-0236  
 6600 East 14th Street  
 Oakland, California  
 (Page 5 of 9)

Well ID # (TOC)	Sampling Date	SUBJ <.....feet.....>	DTW	Elev.	TEPHd <.....>	TPPHg	MTBE	B .....ug/L.....>	T	E	X	DO <...ppm...>
MW4 (cont.) (22.58)	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	---	---	---	---	---	---	---	---
MW5 (16.95)	04/06/92	NR	10.66	6.29	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---
	07/08/92*	---	---	---	---	---	---	---	---	---	---	---
	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	---
	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 <***											
	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	---	---	---	---	---	---	---	---	---	---	---
(19.98)	2/25/97	NLPH	10.49	9.49	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	---







TABLE 1  
 CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA  
 Former Exxon Service Station 7-0236  
 6600 East 14th Street  
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 (Page 8 of 9)

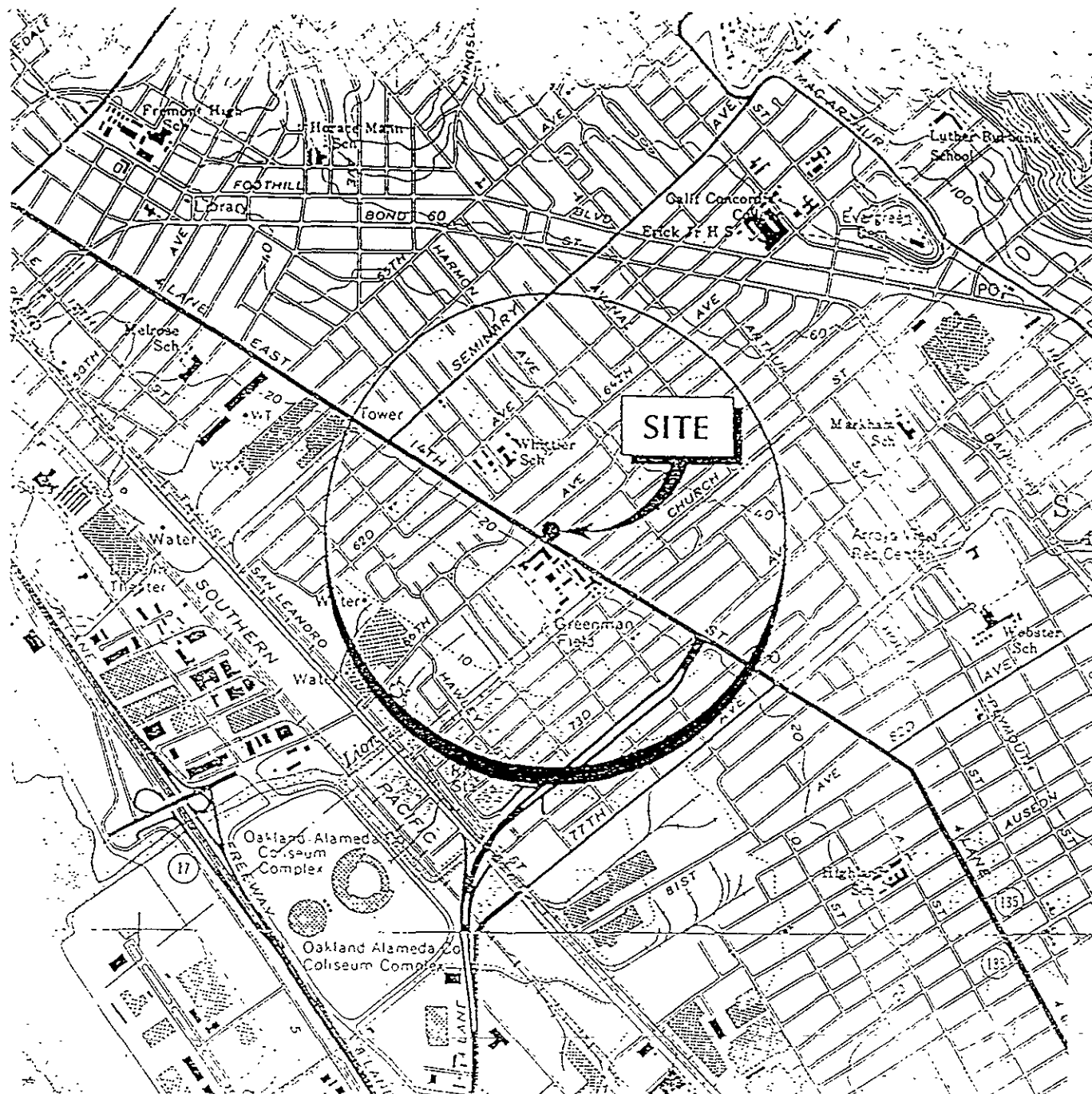
Well ID # (TOC)	Sampling Date	SUBJ <.....feet.....>	DTW	Elev.	TEPHd <.....ug/L.....>	TPPHg	MTBE	B	T	E	X	DO <...ppm...>
MW7 (cont.) (19.23)	1/19/97	abandoned										
MW8 (22.60)	1/17/97	---	---	---	---	---	---	---	---	---	---	1.39
	2/25/97	NLPH	7.93	14.67	<50	69	30	<0.5	<0.5	<0.5	<0.5	1.82
	3/13/97	---	---	---	---	---	---	---	---	---	---	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
(22.58)	5/13/98	---	---	---	---	---	---	---	---	---	---	0.25
	6/22/98	---	---	---	---	---	---	---	---	---	---	1.38
	7/17/98	NLPH	8.02	14.56	<50	<50	3.3	<0.5	<0.5	<0.5	<0.5	2.09
	10/16/98	NLPH	9.78	12.80	<50	<50	<2.5	<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 9 of 9)

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Notes:		
NLPH	=	No liquid-phase hydrocarbons present in well
TOC	=	Elevation of top of well casing; relative to mean sea level (MSL) in feet
SUBJ	=	Results of subjective evaluation
sheen	=	Liquid-phase hydrocarbons present as a sheen
NR	=	Not recorded
DTW	=	Depth to water
Elev.	=	Elevation of groundwater; relative to mean sea level
TEPHd	=	Total extractable petroleum hydrocarbons as diesel analyzed using EPA method 5030/8015 (modified)
TPPHg	=	Total purgeable petroleum hydrocarbons as gasoline analyzed using EPA method 5030/8015 (modified)
MTBE	=	Methyl tertiary butyl ether analyzed using EPA method 5030/8020
BTEX	=	Benzene, toluene, ethylbenzene, total xylenes analyzed using EPA method 5030/8020
( )	=	MTBE analyzed using EPA method 8260
DO	=	Dissolved oxygen
<	=	Less than the laboratory detection limit
---	=	Not sampled/Not measured
**	=	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 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

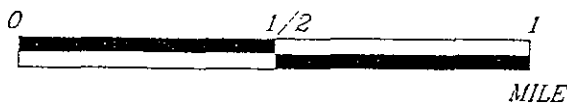
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20090001



APPROXIMATE SCALE



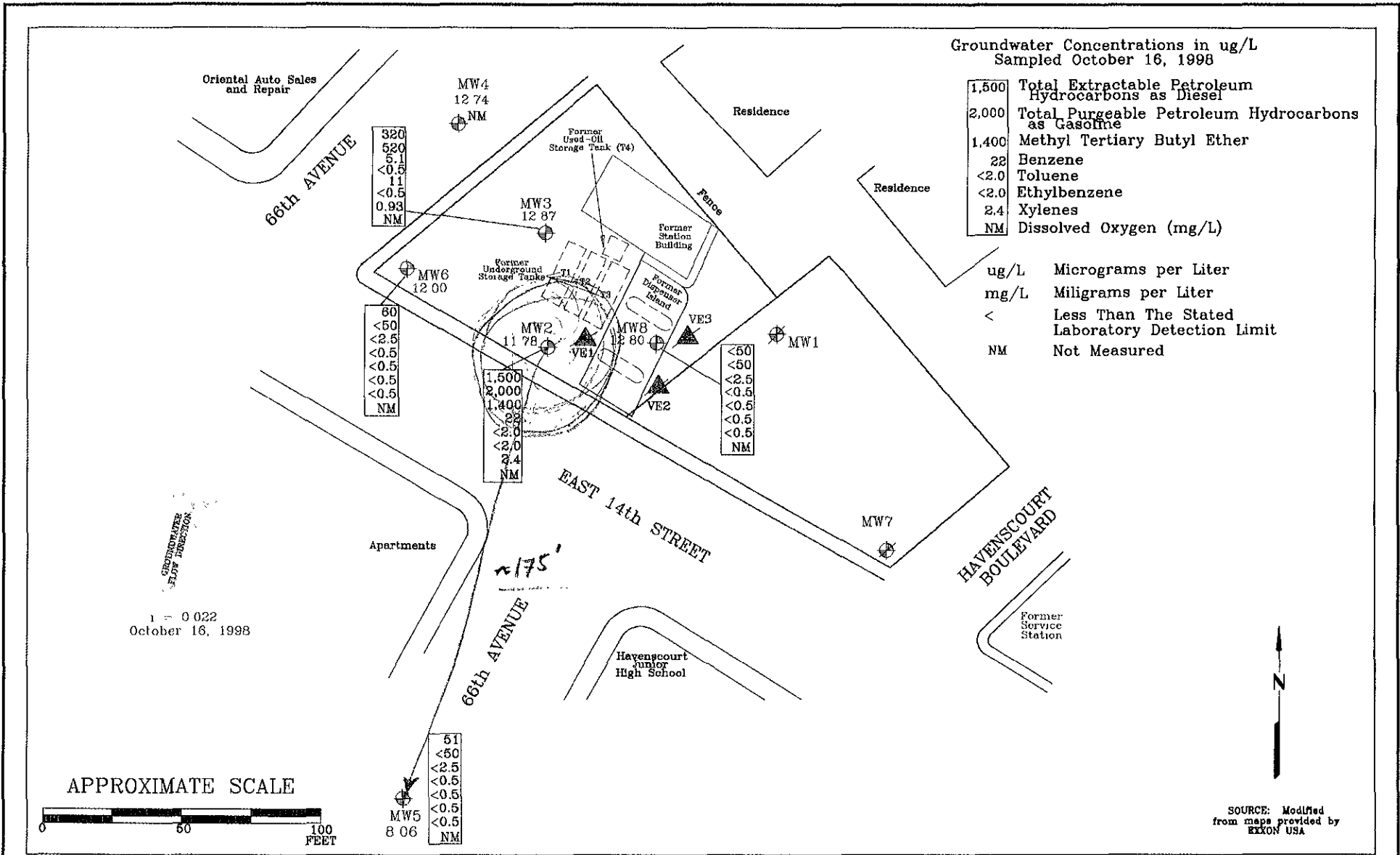
Source U.S.G.S 7.5 minute topographic quadrangle map Oakland East and San Leandro Calif. 1980



PROJECT ERI 2009

**SITE VICINITY MAP**  
 FORMER EXXON SERVICE STATION 7-5236  
 6600 East 14th Street  
 Oakland, California

**PLATE**  
 1



FN 20090002



**GENERALIZED SITE PLAN**

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

**EXPLANATION**

- MW8 ⊕ Groundwater Monitoring Well
- 12 80 ⊕ Groundwater elevation in feet above mean sea level
- MW7 ⊗ Groundwater Monitoring Well (Destroyed)
- VES ▲ Vapor Extraction Well (Destroyed)

1 = Interpreted Groundwater Gradient

**PROJECT NO.**

2009

**PLATE**

2

November 12, 1998

**ATTACHMENT A**  
**GROUNDWATER SAMPLING PROTOCOL**

## GROUNDWATER SAMPLING PROTOCOL

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

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

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

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

r	=	radius of the well casing in feet.
h	=	column of water in the well in feet (depth to bottom - depth to water)
7.48	=	conversion constant from cubic feet to gallons
$\pi$	=	ratio of the circumference of a circle to it's diameter

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

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



**ATTACHMENT B**

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



**Sequoia  
Analytical**

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FAX (707) 792-0342

Environmental Resolutions 74 Digital Drive , Suite 6 Novato, CA 94949	Client Proj. ID: Exxon 7-0236, 200913x Sample Descript: W-11-MW5 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9810E63-01	Sampled: 10/16/98 Received: 10/19/98 Extracted: 10/22/98 Analyzed: 10/27/98 Reported: 10/30/98
---	--	--

QC Batch Number: GC1022980HBPEXZ  
Instrument ID: GCHP5A

**Total Extractable Petroleum Hydrocarbons (TEPH)**

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern: Unidentified HC	50	51 C9-C24
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
n-Pentacosane (C25)	50                      150	97

**PROCESSED**  
NOV 09 1998





# Sequoia Analytical

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FAX (707) 792-0342

Environmental Resolutions 74 Digital Drive, Suite 6 Novato, CA 94949	Client Proj. ID: Exxon 7-0236, 200913x Sample Descript: W-10-MW8 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9810E63-02	Sampled: 10/16/98 Received: 10/19/98 Extracted: 10/22/98 Analyzed: 10/27/98 Reported: 10/30/98
Attention: Mark Dockum		

QC Batch Number: GC1022980HBPEXZ  
Instrument ID: GCHP5A

## Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern:	50	N.D.
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
n-Pentacosane (C25)	50                      150	99





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Environmental Resolutions 74 Digital Drive, Suite 6 Novato, CA 94949	Client Proj. ID: Exxon 7-0236, 200913x Sample Descript: W-10-MW6 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9810E63-03	Sampled: 10/16/98 Received: 10/19/98 Extracted: 10/22/98 Analyzed: 10/27/98 Reported: 10/30/98
--	--	--

QC Batch Number: GC1022980HBPEXZ  
Instrument ID: GCHP5A

**Total Extractable Petroleum Hydrocarbons (TEPH)**

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern: Unidentified HC	50	60
		C9-C24
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
n-Pentacosane (C25)	50                      150	84



**Sequoia  
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Environmental Resolutions 74 Digital Drive , Suite 6 Novato, CA 94949	Client Proj. ID: Exxon 7-0236, 200913x Sample Descript: W-10-MW6 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9810E63-03	Sampled: 10/16/98 Received: 10/19/98  Analyzed: 10/23/98 Reported: 10/30/98
Attention: Mark Dockum		

QC Batch Number: GC102398BTEX30A  
Instrument ID: GCHP30

**Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE**

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70 130	105



**Sequoia  
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Environmental Resolutions 74 Digital Drive, Suite 6 Novato, CA 94949	Client Proj. ID: Exxon 7-0236, 200913x Sample Descript: W-13-MW3 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9810E63-04	Sampled: 10/16/98 Received: 10/19/98 Extracted: 10/22/98 Analyzed: 10/27/98 Reported: 10/30/98
Attention: Mark Dockum		

QC Batch Number: GC1022980HBPEXZ  
Instrument ID: GCHP5A

**Total Extractable Petroleum Hydrocarbons (TEPH)**

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern: Unidentified HC	50	320
		C9-C24
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
n-Pentacosane (C25)	50      150	110





# Sequoia Analytical

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FAX (916) 921-0100  
FAX (707) 792-0342

Environmental Resolutions 74 Digital Drive, Suite 6 Novato, CA 94949	Client Proj. ID: Exxon 7-0236, 200913x Sample Descript: W-13-MW3 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9810E63-04	Sampled: 10/16/98 Received: 10/19/98 Analyzed: 10/23/98 Reported: 10/30/98
Attention: Mark Dockum		

QC Batch Number: GC102398BTEX30A  
Instrument ID: GCHP30

## Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	520
Methyl t-Butyl Ether	2.5	5.1
Benzene	0.50	N.D.
Toluene	0.50	11
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	0.93
Chromatogram Pattern:		GAS
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70 130	127



**Sequoia  
Analytical**

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Environmental Resolutions 74 Digital Drive, Suite 6 Novato, CA 94949	Client Proj. ID: Exxon 7-0236, 200913x Sample Descript: W-17-MW2 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9810E63-05	Sampled: 10/16/98 Received: 10/19/98 Extracted: 10/22/98 Analyzed: 10/27/98 Reported: 10/30/98
Attention: Mark Dockum		

QC Batch Number: GC1022980HBPEXZ  
Instrument ID: GCHP5A

**Total Extractable Petroleum Hydrocarbons (TEPH)**

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern: Unidentified HC	50	1500 C9-C24
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
n-Pentacosane (C25)	50                      150	133



# Sequoia Analytical

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

Client Proj. ID: Exxon 7-0236, 200913x  
Sample Descript: W-17-MW2  
Matrix: LIQUID  
Analysis Method: 8015Mod/8020  
Lab Number: 9810E63-05

Sampled: 10/16/98  
Received: 10/19/98  
Analyzed: 10/26/98  
Reported: 10/30/98

Attention: Mark Dockum

QC Batch Number: GC102698BTEX02A  
Instrument ID: GCHP02

## Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	200	2000
Methyl t-Butyl Ether	10	1400
Benzene	2.0	22
Toluene	2.0	N.D.
Ethyl Benzene	2.0	N.D.
Xylenes (Total)	2.0	2.4
Chromatogram Pattern:		GAS
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	186 Q

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

SEQUOIA ANALYTICAL - ELAP #1210

Mei Mei Shin  
Project Manager



# Sequoia Analytical

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ENVIRONMENTAL RESOLUTION  
74 Digital Dr. Ste.6  
Novato, CA 94949  
Attention: Tracy Fraulkner

Client Project ID: EXXON 7-0236, 200913x

QC Sample Group: 9810E63

Reported: Nov 3, 1998

## QUALITY CONTROL DATA REPORT

Matrix: Liquid  
Method: EPA 8015  
Analyst: MM/GR

ANALYTE Gasoline

QC Batch #: GC1026988TEX02A

Sample No.: GW9810A18-12

Date Prepared: 10/26/98

Date Analyzed: 10/26/98

Instrument I.D.#: GCHP02

Sample Conc., ug/L: N.D.

Conc. Spiked, ug/L: 250

Matrix Spike, ug/L: 300

% Recovery: 122

Matrix

Spike Duplicate, ug/L: 300

% Recovery: 118

Relative % Difference: 3.3

RPD Control Limits: 0-25

LCS Batch#: GWLCS102698A

Date Prepared: 10/26/98

Date Analyzed: 10/26/98

Instrument I.D.#: GCHP02

Conc. Spiked, ug/L: 250

LCS Recovery, ug/L: 210

LCS % Recovery: 84

Percent Recovery Control Limits:

MS/MSD 60-140

LCS 70-130

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

Please Note:

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

SEQUOIA ANALYTICAL

Mei Mei Shin  
Project Manager



# Sequoia Analytical

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## ENVIRONMENTAL RESOLUTION

74 Digital Dr. Ste.6

Novato, CA 94949

Attention: Tracy Fraulkner

Client Project ID: EXXON 7-0236, 200913x

QC Sample Group: 9810E63

Reported: Nov 3, 1998

## QUALITY CONTROL DATA REPORT

Matrix: Liquid  
Method: EPA 8015A  
Analyst: G.WARDLE

ANALYTE Diesel

QC Batch #: GC1022980HBPEXZ

Sample No.: 9810E63-2

Date Prepared: 10/22/98

Date Analyzed: 10/27/98

Instrument I.D.#: GCHP5A

Sample Conc., ug/L: N.D.

Conc. Spiked, ug/L: 1000

Matrix Spike, ug/L: 740

% Recovery: 74

Matrix

Spike Duplicate, ug/L: 970

% Recovery: 97

Relative % Difference: 27

RPD Control Limits: 0-50

LCS Batch#: BLK102298ZS

Date Prepared: 10/22/98

Date Analyzed: 10/27/98

Instrument I.D.#: GCHP5A

Conc. Spiked, ug/L: 1000

Recovery, ug/L: 890

LCS % Recovery: 89

Percent Recovery Control Limits:

MS/MSD 50-150

LCS 60-140

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

Please Note:

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

SEQUOIA ANALYTICAL

Mei Mei Shin  
Project Manager



**Sequoia  
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**ENVIRONMENTAL RESOLUTION**

74 Digital Dr. Ste.6

Novato, CA 94949

Attention: Tracy Fraulkner

Client Project ID: EXXON 7-0236, 200913x

QC Sample Group: 9810E63

Reported: Nov 3, 1998

**QUALITY CONTROL DATA REPORT**

Matrix: Liquid  
Method: EPA 8015  
Analyst: MM

ANALYTE Gasoline

QC Batch #: GC1023988TEX03A

Sample No.: GW9810705-01

Date Prepared: 10/23/98

Date Analyzed: 10/23/98

Instrument I.D.#: GCHP03

Sample Conc., ug/L: N.D.

Conc. Spiked, ug/L: 250

Matrix Spike, ug/L: 220

% Recovery: 88

Matrix

Spike Duplicate, ug/L: 230

% Recovery: 92

Relative % Difference: 4.4

RPD Control Limits: 0-25

LCS Batch#: GC1023988TEX03A

Date Prepared: 10/23/98

Date Analyzed: 10/23/98

Instrument I.D.#: GCHP03

Conc. Spiked, ug/L: 250

LCS Recovery, ug/L: 220

LCS % Recovery: 88

Percent Recovery Control Limits:

MS/MSD 60-140

LCS 70-130

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

Please Note:

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

SEQUOIA ANALYTICAL

Mei Mei Shin  
Project Manager



Sequoia  
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Environmental Resolutions 74 Digital Drive, Suite 6 Novato, CA 94949 Attention: Mark Dockum	Client Proj. ID: Exxon 7-0236, 200913x Lab Proj. ID: 9810E63	Received: 10/19/98 Reported: 10/30/98
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### LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 16 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

TPGM2W: Sample 9810E63-05 had high surrogate recovery, due to matrix effect.

SEQUOIA ANALYTICAL

Vei Mei Shin  
Project Manager



Sequoia Analytical  
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EXXON COMPANY, U.S.A.

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

CHAIN OF CUSTODY

9810E63

Page 1 of 2

Consultant's Name: <u>Environmental Resolutions, Inc.</u>		Site Location: <u>6630 E. 14th St.</u>
Address: <u>74 Digital Dr., Suite 6 Novato, CA 94949</u>		Consultant Work Release #: <u>19432502</u>
Project #:	Consultant Project #: <u>200913X</u>	Laboratory Work Release #:
Project Contact: <u>Mark Dockum</u>	Phone #: <u>(415) 382-9105</u>	EXXON RAS #: <u>7-0736</u>
EXXON Contact: <u>Marla Guensler</u>	Phone #: <u>(925) 246 8776</u>	Sampler's Signature: <u>[Signature]</u>
Sampled by (print): <u>Donna Cheek</u>	Air Bill #:	<u>Oakland, CA 94602</u>
Shipment Method:		<u>8 19 12</u>

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

ANALYSIS REQUIRED

Sample Description	Collection Date	Collection Time	Matrix Soil/Water/Air	Prsv	# of Cont.	Sequoia's Sample #	TPH/Gas BTEX/ 8015/ 8020	TPH/ Diesel EPA 8015	TRPH S.M. 5520	MTBE 8020	Temperature: _____ Inbound Seal: Yes No Outbound Seal: Yes No
X* W-11-mw5	10/16/98	1035	Water	HCL Ice	3	01	X			X	
X W-10-mw8		1045				02	X			X	
X W-10-mw6		1055				03	X			X	
X W-13-mw3		1105				04	X			X	
X W-13-mw2		1140		VOL Ice	2	05	X			X	
X 00 W-11-mw5 +		1040				01		X			
X 00 W-10-mw8 +		1050				02		X			
X 00 W-10-mw6 +		1100				03		X			
X 00 W-13-mw3 +		1110				04		X			

RELINQUISHED BY / AFFILIATION	Date	Time	ACCEPTED / AFFILIATION	Date	Time	Additional Comments
<u>[Signature]</u> / EXI	10/16/98	10:55	<u>[Signature]</u> / SEQUOIA	10/14	10:55	
<u>[Signature]</u> / S2000	10/16/98					
			<u>[Signature]</u>	10/19	12:37	

Yellow - Sequoia  
White - Sequoia  
Pink - Client





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

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

**CHAIN OF CUSTODY**

Consultant's Name: Environmental Resolutions, Inc.

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

Site Location: 6630 E. 14th St.

Project #: \_\_\_\_\_ Consultant Project #: 200913X Consultant Work Release #: 19432502

Project Contact: Mark Doekum Phone #: (415) 382-9105 Laboratory Work Release #: \_\_\_\_\_

EXXON Contact: Maria Guonsler Phone #: (925) 246 8776 EXXON RAS #: 7-0236

Sampled by (print): Donna Cheek Sampler's Signature: [Signature] Oakland, CA

Shipment Method: \_\_\_\_\_ Air Bill #: \_\_\_\_\_

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

**ANALYSIS REQUIRED**

Sample Description	Collection Date	Collection Time	Matrix Soil/Water/Air	Prsv	# of Cont.	Sequoia's Sample #	TPH/Gas BTEX/ 8015/ 8020	TPH/ Diesel EPA 8015	TRPH S.M. 5520	Temperature: _____	Inbound Seal: Yes No		Outbound Seal: Yes No	
W-19-17 <sup>mb</sup> MW2	10/15/98	1145	Water	ice	2	05		X						

RELINQUISHED BY / AFFILIATION	Date	Time	ACCEPTED / AFFILIATION	Date	Time	Additional Comments
<u>[Signature]</u>	<u>10/16/98</u>	<u>10:55</u>	<u>[Signature]</u> Sequoia	<u>10/19</u>	<u>055</u>	
<u>[Signature]</u> Sequoia	<u>10.16.98</u>					

Pink - Client  
Yellow - Sequoia  
White - Sequoia