

ST 1062

EXXON COMPANY, U.S.A.

P.O. BOX 4032 • CONCORD, CA 94524-4032

MARKETING DEPARTMENT • ENVIRONMENTAL ENGINEERING

MARLA D. GUENSLER
SENIOR ENGINEER

(510) 246-8776
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January 17, 1996

Mr. Thomas Peacock
Alameda County Health Agency
Division of Hazardous Materials
Department of Environmental Health
80 Swan Way, Room 200
Oakland, CA 94621

RE: Exxon RAS #7-0236/6630 East 14th Street, Oakland, CA

Dear Mr. Peacock:

Attached for your review and comment is a report entitled *Quarterly Groundwater Monitoring, Fourth Quarter 1995* for the above referenced site. This report, prepared by Environmental Resolutions, Inc., (ERI), of Novato, California, details the results of the groundwater monitoring and sampling event which occurred in November 1995.

If you have any questions or comments, please contact me at (510) 246-8776.

Sincerely,



Marla D. Guensler
Senior Engineer

MDG/jb

attachment: ERI Quarterly Report dated December 14, 1995

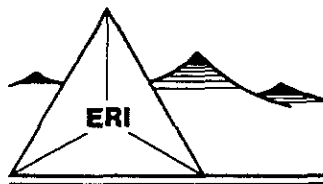
cc: w/attachment:

Mr. Lester Feldman - San Francisco Bay RWQCB

w/o attachment

Marc Briggs - ERI, Navoto





ENVIRONMENTAL RESOLUTIONS, INC.

December 14, 1995
ERI 200913.R04

Ms. Marla Guensler
Exxon Company, U.S.A.
2300 Clayton Road, Suite 640
Concord, California 94520

Subject: Quarterly Groundwater Monitoring, Fourth Quarter 1995, Exxon Service Station
7-0236, 6630 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 1995 groundwater monitoring event at the subject site (Plate 1). The purpose of quarterly monitoring is to evaluate fluctuations in dissolved hydrocarbon concentrations in groundwater and to evaluate the groundwater flow direction and gradient.

GROUNDWATER MONITORING AND SAMPLING

On November 7, 1995, ERI measured depth to water (DTW) in monitoring wells MW1 through MW7, and collected groundwater samples from these wells for laboratory analysis. No measurable liquid phase hydrocarbons were observed in the monitoring wells. ERI's groundwater sampling protocol is attached (Attachment A).

Based on DTW measurements the groundwater appears to flow southwest with a hydraulic gradient of 0.027 (Plate 2). Historical and recent monitoring data are summarized in Table 1.

LABORATORY ANALYSES AND RESULTS

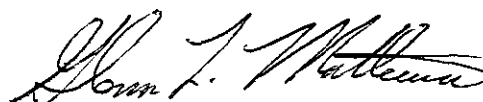
Groundwater samples were submitted to Sequoia Analytical Laboratories (California State Certification Number 1210) in Redwood City, California, under chain of custody protocol. The samples were analyzed for benzene, toluene, ethylbenzene, total xylenes (BTEX), methyl tert-butyl ether (MTBE), total petroleum hydrocarbons as gasoline (TPHg), 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

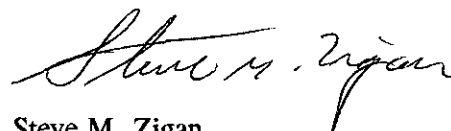
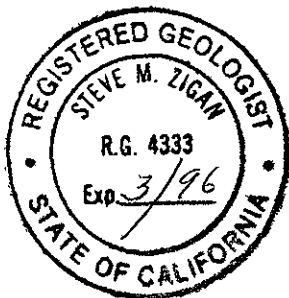
This report was prepared in accordance with generally accepted standards of environmental geological practice in California at the time this investigation was performed. This report has been prepared for Exxon Company, U.S.A. and any reliance on this report by third parties shall be at such party's sole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

If you have any questions or comments regarding this report, please call (415) 382-5994.

Sincerely,
Environmental Resolutions, Inc.



Glenn L. Matteucci
Staff Geologist



Steve M. Zigan
R.G. 4333
H.G. 133

- 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 Reports and Chain of Custody Record

TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
 Exxon Service Station 7-0236
 6630 East 14th Street, Oakland, California
 (Page 1 of 6)

Well ID # (TOC)	Sampling Date	SUBJ < >	DTW feet	Elev. > <	TEPHd < >	TPHg parts per billion	B	T	E	X	MTBE >
MW1 (20.20)	03/15/91	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	---
	04/06/92	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	---
	03/09/93	NLPH	7.38	12.82	<50	<50	<0.5	<0.5	<0.5	<0.5	---
	06/04/93	NLPH	8.55	11.65	<50	<50	<0.5	<0.5	<0.5	<0.5	---
	09/02/93	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	---
	02/04/94	NLPH	9.10	11.10	<50	<50	<0.5	<0.5	<0.5	<0.5	---
	04/29/94	NLPH	8.45	11.75	<50	<50	<0.5	<0.5	<0.5	<0.5	---
	09/20/94	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	---
	03/27/95	NLPH	7.06	13.14	<50	<50	<0.5	<0.5	<0.5	<0.5	---
	05/18/95	NLPH	7.32	12.88	<50	<50	<0.5	<0.5	<0.5	<0.5	---
08/08/95	NLPH	9.24	10.96	<50	<50	<0.5	<0.5	<0.5	<0.5	<2.5	
11/07/95	NLPH	10.74	9.46	<50	<50	<0.5	<0.5	<0.5	<0.5	<2.5	
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	---
	04/06/92	NR	9.09	10.06	---	---	---	---	---	---	---
	07/08/92	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	---
	03/09/93	sheen	9.71	9.44	---	---	---	---	---	---	---
	06/04/93	sheen	9.40	9.75	---	---	---	---	---	---	---
	09/02/93	sheen	10.46	8.69	3,700	11,000	210	18	260	59	2,500
	11/16/93 (M*)	NLPH	11.44	7.71	3,300	8,500	75	27	51	32	---
02/04/94	NLPH	10.41	8.74	2,700	4,400	120	16	22	7.7	---	

See notes on Page 6 of 6

TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
 Exxon Service Station 7-0236
 6630 East 14th Street, Oakland, California
 (Page 2 of 6)

Well ID # (TOC)	Sampling Date	SUBJ < >	DTW feet	Elev. >	TEPHd < >	TPHg < >	B	T parts per billion	E	X	MTBE >
MW2 (cont.) (19.15)	04/29/94 (C,M*)	NLPH	9.51	9.64	2,000	380	5.9	0.6	1.6	<0.5	---
	09/20/94	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	---	---	---	---	---	---	---
	03/27/95	NLPH	7.72	11.43	1,700	6,300	210	15	250	43	---
	05/18/95	sheen	8.65	10.50	2,000#	6,000	180	9.9	220	55	---
	08/08/95	NLPH	9.67	9.48	2,700	5,300	110	<20	120	<20	36,000
	11/07/95	NLPH	10.49	8.66	1,800	6,400	120	11	95	38	24,000
Additional Analyses for general minerals and properties <*											
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	---
	04/06/92	NR	7.84	11.75	---	---	---	---	---	---	---
	07/08/92 (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	---
	03/09/93	sheen	9.05	10.54	---	---	---	---	---	---	---
	06/04/93	sheen	8.43	11.16	---	---	---	---	---	---	---
	09/02/93	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	---
	02/04/94	NLPH	9.27	10.32	340	870	0.6	14	1.2	0.8	---
	04/29/94	NLPH	8.10	11.49	290	790	<0.5	<0.5	0.8	1.0	---
	09/20/94	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	---
	03/27/95	NLPH	7.23	12.36	1,100	1,500	5.0	3.1	6.3	3.6	---
	05/18/95	NLPH	7.73	11.86	470#	1,000	<0.5	<0.5	4.1	0.94	---
	08/08/95	NLPH	8.81	10.78	580	1,600	12	<0.5	2.4	0.63	12
	11/07/95	NLPH	9.96	9.63	540	1,500	<2.5	2.9	<2.5	<2.5	26

See notes on Page 6 of 6

TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
 Exxon Service Station 7-0236
 6630 East 14th Street, Oakland, California
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Well ID # (TOC)	Sampling Date	SUBJ < >	DTW feet	Elev. > <	TEPHd < >	TPHg parts per billion	B	T	E	X	MTBE >
MW4 (19.46)	04/06/92	NR	7.76	11.70	<50	<50	<0.5	<0.5	<0.5	<0.5	--
	07/08/92	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	--
	03/09/93	NLPH	7.53	11.93	<50	<50	<0.5	<0.5	<0.5	<0.5	--
	06/04/93	NLPH	8.50	10.96	<50	<50	<0.5	<0.5	<0.5	<0.5	--
	09/02/93	NLPH	10.30	9.16	<50	<50	<0.5	<0.5	<0.5	<0.5	--
	11/16/93*	---	---	---	---	---	---	---	---	---	--
	02/04/94	NLPH	8.82	10.64	<50	<50	<0.5	<0.5	<0.5	<0.5	--
	04/29/94(D)	NLPH	8.55	10.91	100	<50	<0.5	<0.5	<0.5	<0.5	--
	09/20/94	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	--
	03/27/95	NLPH	6.38	13.08	140	<50	<0.5	<0.5	<0.5	<0.5	--
	05/18/95	NLPH	7.56	11.90	<50	<50	<0.5	<0.5	<0.5	<0.5	--
	08/08/95	NLPH	8.92	10.54	<50	<50	<0.5	<0.5	<0.5	<0.5	<2.5
	11/07/95	NLPH	10.30	9.16	<50	<50	<0.5	<0.5	<0.5	<0.5	<2.5
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	--
	03/09/93	NLPH	10.27	6.68	<50	<50	<0.5	<0.5	<0.5	<0.5	--
	06/04/93	NLPH	11.35	5.60	<50	<50	<0.5	<0.5	<0.5	<0.5	--
	09/02/93	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	--
	02/04/94	NLPH	11.83	5.12	60	<50	<0.5	<0.5	<0.5	<0.5	--
	04/29/94	NLPH	11.15	5.80	<50	<50	<0.5	<0.5	<0.5	<0.5	--
	09/20/94	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	--
	03/27/95	NLPH	9.09	7.86	<50	<50	<0.5	<0.5	<0.5	<0.5	--
	05/18/95	NLPH	10.29	6.66	<50	<50	<0.5	4.6	0.65	2.8	--
	08/08/95	NLPH	11.13	5.82	51	<50	<0.5	<0.5	<0.5	<0.5	<2.5

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**TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA**

Exxon Service Station 7-0236
6630 East 14th Street, Oakland, California
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Well ID # (TOC)	Sampling Date	SUBJ < >	DTW feet	Elev. > <	TEPHd < >	TPHg	B	T parts per billion	E	X	MTBE
MW5 (cont.) (16.95)	11/07/95	NLPH	12.12	4.83	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5
			Additional Analyses for general minerals and properties < **								
MW6 (18.79)	04/06/92(H)	NR	8.29	10.50	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	---
	07/08/92(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	---
	03/09/93	NLPH	8.26	10.53	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	---
	06/04/93	NLPH	8.90	9.89	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	---
	09/02/93	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	---
	02/04/94	NLPH	9.26	9.53	80	< 50	< 0.5	< 0.5	< 0.5	< 0.5	---
	04/29/94	NLPH	8.33	10.46	110	< 50	< 0.5	< 0.5	< 0.5	< 0.5	---
	09/20/94	NLPH	9.23	9.56	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	---
	12/14/94	sheen	7.87	10.92	---	---	---	---	---	---	---
	03/27/95	NLPH	7.63	11.16	54	56	< 0.5	< 0.5	< 0.5	< 0.50	---
	05/18/95	NLPH	8.00	10.79	71	56	< 0.5	< 0.5	< 0.5	< 0.5	---
	08/08/95	NLPH	8.92	9.87	60	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5
	11/07/95	NLPH	9.77	9.02	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	4.7
MW7 (19.23)	04/06/92	NR	8.34	10.89	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	---
	07/08/92	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	---
	03/09/93*	---	---	---	---	---	---	---	---	---	---
	06/04/93	NLPH	8.68	10.55	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	---
	09/02/93	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	---
	02/04/94	NLPH	9.28	9.95	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	---
	04/29/94	NLPH	9.19	10.04	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	---

See notes on Page 6 of 6

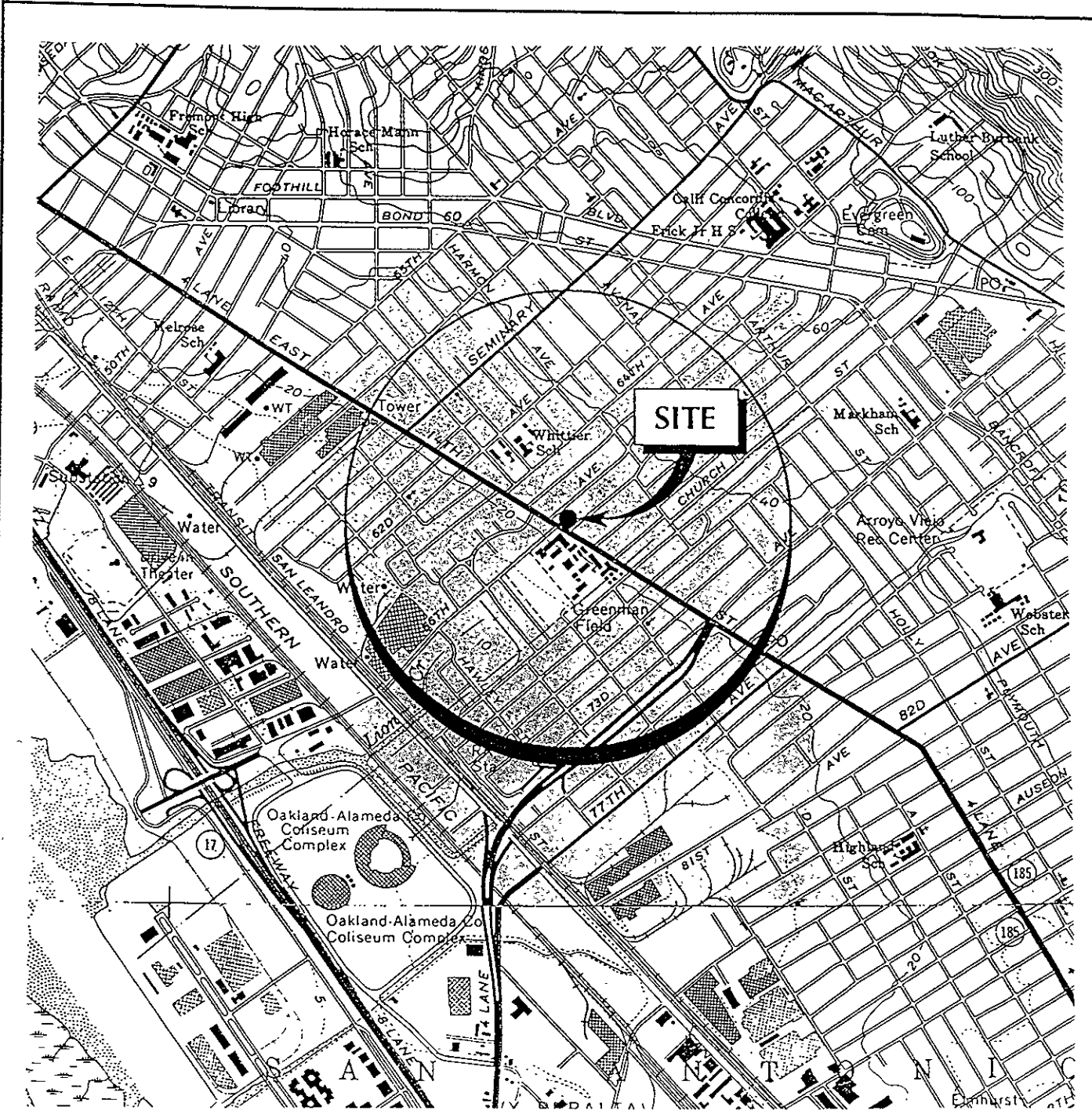
TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
 Exxon Service Station 7-0236
 6630 East 14th Street, Oakland, California
 (Page 5 of 6)

Well ID # (TOC)	Sampling Date	SUBJ <	DTW feet	Elev. >	TEPHd <	TPHg parts per billion	B	T	E	X	MTBE >
MW7 (cont.)	09/20/94	NLPH	10.85	8.38	<50	<50	<0.5	<0.5	<0.5	<0.5	—
(19.23)	12/14/94	NLPH	8.44	10.79	<50	<50	<0.5	<0.5	<0.5	<0.5	—
	03/27/95	NLPH	7.54	11.69	280	<50	<0.5	<0.5	<0.5	<0.5	—
	05/18/95	NLPH	8.11	11.12	<50	<50	<0.5	<0.5	<0.5	<0.5	—
	08/08/95	NLPH	9.48	9.75	52	<50	<0.5	<0.5	<0.5	<0.5	<2.5
	11/17/95	NLPH	10.83	8.40	<50	<50	<0.5	<0.5	<0.5	<0.5	<2.5

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TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
 Exxon Service Station 7-0236
 6630 East 14th Street, Oakland, California
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Notes:		
NLPH	=	Liquid phase hydrocarbons not present in well
TOC	=	Elevation of top of well casing;
SUBJ	=	Results of subjective evaluation, relative to mean sea level in feet sea level (MSL)
sheen	=	Liquid phase hydrocarbons present as a sheen
NR	=	Not recorded
DTW	=	Depth to water
Elev.	=	Elevation of groundwater; relative to mean sea level
TPHg	=	Total petroleum hydrocarbons as gasoline analyzed using modified EPA method 5030/8015
TEPHd	=	Total extractable petroleum hydrocarbons as diesel analyzed using modified EPA method 5030/8015
BTEX	=	Benzene, toluene, ethylbenzene, total xylene isomers analyzed using EPA method 5030/8020
MTBE	=	Methyl tert-butyl ether analyzed using EPA method 5030/8020
<	=	Less than the laboratory detection limit
-	=	Not sampled/Not measured
*	=	Well not accessible : well obstructed / wellhead cover damaged / well paved over
**	=	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: MW-2, 03/15/91, Methylene chloride detected at 1 ppb MW-3, 03/15/91, Methylene chloride detected at 21 ppb
M*	=	A compound suspected to be Methyl tert-butyl ether was present
T	=	Total Oil and Grease (TOG) using EPA 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, 0.074 ppm surfactants, 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, 430 umhos/cm conductivity, 7.2 pH, 170 ppm zinc



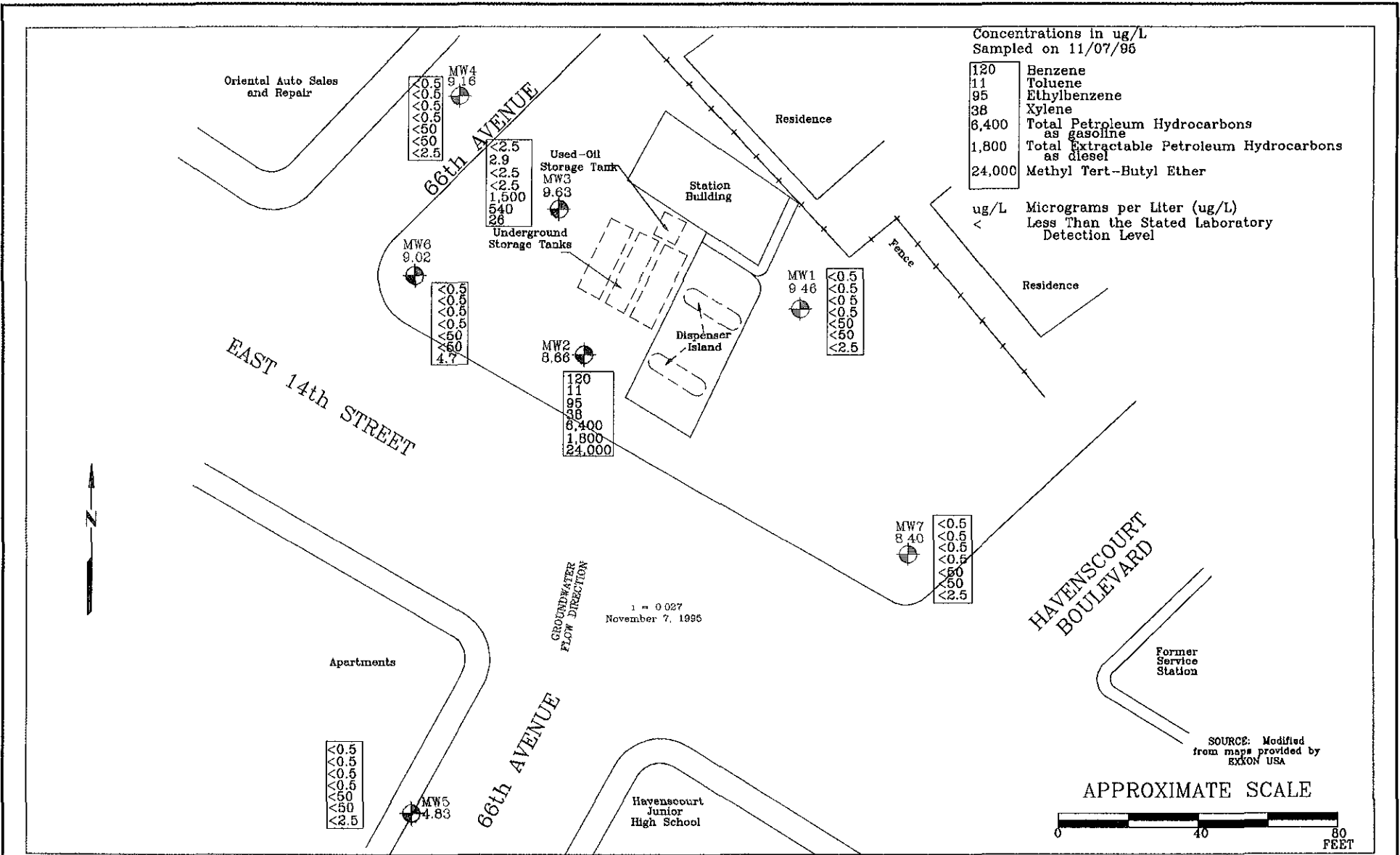
Source: U.S.G.S. 7-5 minute topographic quadrangle map Oakland East and San Leandro, Calif. 1980



PROJECT ERI 2009

SITE VICINITY MAP
 EXXON SERVICE STATION 7-0236
 6630 East 14th Street
 Oakland, California

PLATE
 1



FN 20090002



GENERALIZED SITE PLAN
EXXON SERVICE STATION 7-0236
 6630 East 14th Street
 Oakland, California

EXPLANATION

- Groundwater Monitoring Well
- MW7 8.40 Groundwater Elevation; in Feet Above Mean Sea Level

1 = Interpreted gradient magnitude

PROJECT NO.

2009

PLATE

2

11/28/95

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 ORS 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 3 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:

1 well casing volume = $r^2h(7.48)$ 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

Gallons of water purged/gallons in 1 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 REPORTS
AND CHAIN OF CUSTODY RECORD**



Sequoia Analytical

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FAX (916) 921-0100

Environmental Resolutions 359 Bel Marin Keys, Suite 20 Novato, CA 94949	Client Proj. ID: Exxon 7-0236/200913X Lab Proj. ID: 9511591	Sampled: 11/07/95 Received: 11/08/95 Analyzed: see below Reported: 12/14/95
Attention: Marc Briggs		

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9511591-03				
Sample Desc: LIQUID, MW-12-MW5				
Alkalinity: Bicarbonate	mg CaCO ₃ /L	11/15/95	1.0	200
Alkalinity: Carbonate	mg CaCO ₃ /L	11/15/95	2.0	N.D.
Alkalinity: Hydroxide	mg CaCO ₃ /L	11/15/95	0.10	N.D.
Calcium	mg/L	11/10/95	0.50	23
Chloride	mg/L	11/10/95	0.20	21
Conductivity	umhos/cm	11/09/95	1.0	430
Copper	ug/L	11/10/95	50	78
Hardness	mg/L	11/15/95	2.0	190
Iron	ug/L	11/10/95	100	49000
Magnesium	mg/L	11/10/95	0.10	44
Manganese	ug/L	11/10/95	30	4200
pH	pH Units	11/09/95	N/A	7.2
Potassium	mg/L	11/10/95	1.0	3.9
Sodium	mg/L	11/10/95	0.50	52
Sulfate	mg/L	11/10/95	0.10	60
Surfactants/MBAS	mg/L	11/09/95	0.025	N.D.
Total Coliform	MPN/100 mL	11/08/95	2.0	< 2.0
Total Dissolved Solids	mg/L	11/14/95	1.0	390
Zinc	ug/L	11/10/95	50	170

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

SEQUOIA ANALYTICAL - ELAP # 1210

Vickie Tague Clark
Project Manager



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Environmental Resolutions
359 Bel Marin Keys, Suite 20
Novato, CA 94949

Client Proj. ID: Exxon 7-0238/200913X

Lab Proj. ID: 9511591

Sampled: 11/07/95

Received: 11/08/95

Analyzed: see below

Attention: Marc Briggs

Reported: 12/14/95

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No:	9511591-07			
Sample Desc :	LIQUID,MW-11-MW2			
Alkalinity: Bicarbonate	mg CaCO ₃ /L	11/15/95	1.0	490
Alkalinity: Carbonate	mg CaCO ₃ /L	11/15/95	2.0	N.D.
Alkalinity: Hydroxide	mg CaCO ₃ /L	11/15/95	0.10	N.D.
Calcium	mg/L	11/10/95	0.50	37
Chloride	mg/L	11/10/95	0.20	31
Conductivity	umhos/cm	11/09/95	1.0	730
Copper	ug/L	11/10/95	50	N.D.
Hardness	mg/L	11/15/95	2.0	390
Iron	ug/L	11/10/95	100	790
Magnesium	mg/L	11/10/95	0.10	60
Manganese	ug/L	11/10/95	30	4700
pH	pH Units	11/09/95	N/A	6.9
Potassium	mg/L	11/10/95	1.0	1.1
Sodium	mg/L	11/10/95	0.50	61
Sulfate	mg/L	11/10/95	0.10	N.D.
Surfactants/MBAS	mg/L	11/09/95	0.025	0.074
Total Collform	MPN/100 mL	11/08/95	2.0	< 2.0
Total Dissolved Solids	mg/L	11/14/95	1.0	540
Zinc	ug/L	11/10/95	50	N.D.

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

SEQUOIA ANALYTICAL - ELAP # 1210

Vickie Tague Clark
Project Manager



Environmental Resolutions 359 Bel Marin Keys, Suite 20 Novato, CA 94949	Client Proj. ID: Exxon 7-0236/200913X Sample Descript: MW-10-MW1 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9511591-01	Sampled: 11/07/95 Received: 11/08/95 Extracted: 11/13/95 Analyzed: 11/14/95 Reported: 11/17/95
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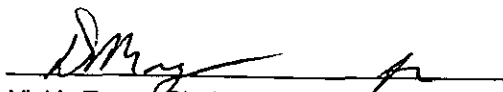
QC Batch Number: GC1113950HBPEXZ
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern:	50	N.D.
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	87

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

SEQUOIA ANALYTICAL - ELAP #1210


Vickie Tague Clark
Project Manager



Environmental Resolutions 359 Bel Marin Keys, Suite 20 Novato, CA 94949	Client Proj. ID: Exxon 7-0236/200913X Sample Descript: MW-10-MW1 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9511591-01	Sampled: 11/07/95 Received: 11/08/95 Analyzed: 11/09/95 Reported: 11/17/95
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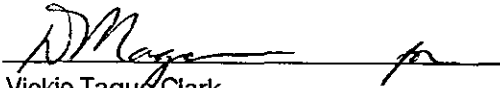
QC Batch Number: GC110995BTEX06A
Instrument ID: GCHP06

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	85

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

SEQUOIA ANALYTICAL - ELAP #1210


 Vickie Tague Clark
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Environmental Resolutions
359 Bel Marin Keys, Suite 20
Novato, CA 94949

Client Proj. ID: Exxon 7-0236/200913X
Sample Descript: MW-10-MW4
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9511591-02

Sampled: 11/07/95
Received: 11/08/95
Extracted: 11/13/95
Analyzed: 11/14/95
Reported: 11/17/95

Attention: Marc Briggs

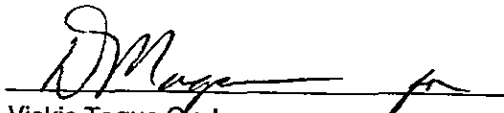
QC Batch Number: GC1113950HBPEXZ
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern:	50	N.D.
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	84

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

SEQUOIA ANALYTICAL - ELAP #1210


Vickie Tague Clark
Project Manager



Environmental Resolutions	Client Proj. ID: Exxon 7-0236/200913X	Sampled: 11/07/95
359 Bel Marin Keys, Suite 20	Sample Descript: MW-10-MW4	Received: 11/08/95
Novato, CA 94949	Matrix: LIQUID	
Attention: Marc Briggs	Analysis Method: 8015Mod/8020	Analyzed: 11/09/95
	Lab Number: 9511591-02	Reported: 11/17/95

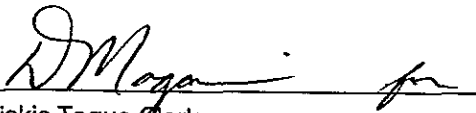
QC Batch Number: GC110995BTEX06A
Instrument ID: GCHP06

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	85

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

SEQUOIA ANALYTICAL - ELAP #1210


Vickie Tague Mark
Project Manager



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Environmental Resolutions 359 Bel Marin Keys, Suite 20 Novato, CA 94949	Client Proj. ID: Exxon 7-0236/200913X Sample Descript: MW-12-MW5 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9511591-03	Sampled: 11/07/95 Received: 11/08/95 Extracted: 11/13/95 Analyzed: 11/14/95 Reported: 11/17/95
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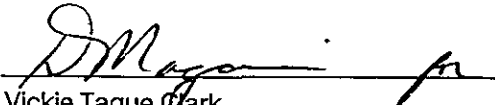
QC Batch Number: GC1113950HBPEXZ
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern:	50	N.D.
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	74

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

SEQUOIA ANALYTICAL - ELAP #1210


Vickie Tague Clark
Project Manager



Environmental Resolutions 359 Bel Marin Keys, Suite 20 Novato, CA 94949	Client Proj. ID: Exxon 7-0236/200913X Sample Descript: MW-12-MW5 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9511591-03	Sampled: 11/07/95 Received: 11/08/95 Analyzed: 11/09/95 Reported: 11/17/95
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Attention: Marc Briggs

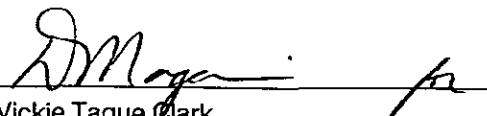
QC Batch Number: GC110995BTEX06A
Instrument ID: GCHP06

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	84

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

SEQUOIA ANALYTICAL - ELAP #1210


Vickie Tague Clark
Project Manager



Environmental Resolutions 359 Bel Marin Keys, Suite 20 Novato, CA 94949	Client Proj. ID: Exxon 7-0236/200913X Sample Descript: MW-10-MW7 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9511591-04	Sampled: 11/07/95 Received: 11/08/95 Extracted: 11/13/95 Analyzed: 11/15/95 Reported: 11/17/95
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QC Batch Number: GC1113950HBPEXZ
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern:	50	N.D.
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	93

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

SEQUOIA ANALYTICAL - ELAP #1210


Vickie Tague Clark
Project Manager



Environmental Resolutions	Client Proj. ID: Exxon 7-0236/200913X	Sampled: 11/07/95
359 Bel Marin Keys, Suite 20	Sample Descript: MW-10-MW7	Received: 11/08/95
Novato, CA 94949	Matrix: LIQUID	
Attention: Marc Briggs	Analysis Method: 8015Mod/8020	Analyzed: 11/09/95
	Lab Number: 9511591-04	Reported: 11/17/95

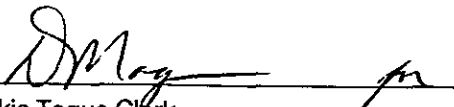
QC Batch Number: GC110995BTEX06A
Instrument ID: GCHP06

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	86

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

SEQUOIA ANALYTICAL - ELAP #1210



 Vickie Tague Clark
 Project Manager



Environmental Resolutions 359 Bel Marin Keys, Suite 20 Novato, CA 94949	Client Proj. ID: Exxon 7-0236/200913X Sample Descript: MW-10-MW6 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9511591-05	Sampled: 11/07/95 Received: 11/08/95 Extracted: 11/13/95 Analyzed: 11/15/95 Reported: 11/17/95
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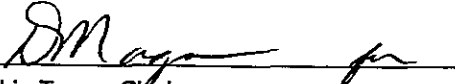
QC Batch Number: GC1113950HBPEXZ
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern:	50	N.D.
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	102

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

SEQUOIA ANALYTICAL - ELAP #1210


Vickie Tague Clark
Project Manager



Environmental Resolutions 359 Bel Marin Keys, Suite 20 Novato, CA 94949	Client Proj. ID: Exxon 7-0236/200913X Sample Descript: MW-10-MW6 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9511591-05	Sampled: 11/07/95 Received: 11/08/95 Analyzed: 11/13/95 Reported: 11/17/95
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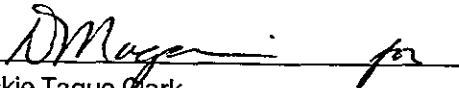
QC Batch Number: GC111395BTEX06A
Instrument ID: GCHP06

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	4.7
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	106

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

SEQUOIA ANALYTICAL - ELAP #1210


Vickie Tague Clark
Project Manager



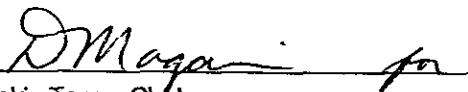
Environmental Resolutions 359 Bel Marin Keys, Suite 20 Novato, CA 94949	Client Proj. ID: Exxon 7-0236/200913X Sample Descript: MW-11-MW3 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9511591-06	Sampled: 11/07/95 Received: 11/08/95 Extracted: 11/13/95 Analyzed: 11/15/95 Reported: 11/17/95
Attention: Marc Briggs		
QC Batch Number: GC1113950HBPEXZ		
Instrument ID: GCHP5A		

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	50	540
Chromatogram Pattern: Unidentified HC		C9-C24
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	93

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

SEQUOIA ANALYTICAL - ELAP #1210


 Vickie Tague Clark
 Project Manager



Environmental Resolutions Client Proj. ID: Exxon 7-0236/200913X Sampled: 11/07/95
359 Bel Marin Keys, Suite 20 Sample Descript: MW-11-MW3 Received: 11/08/95
Novato, CA 94949 Matrix: LIQUID
Attention: Marc Briggs Analysis Method: 8015Mod/8020 Analyzed: 11/13/95
Lab Number: 9511591-06 Reported: 11/17/95

QC Batch Number: GC111395BTEX06A
Instrument ID: GCHP06

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Table with 3 columns: Analyte, Detection Limit ug/L, Sample Results ug/L. Rows include TPHH as Gas (1500), Methyl t-Butyl Ether (26), Benzene (N.D.), Toluene (2.9), Ethyl Benzene (N.D.), Xylenes (Total) (N.D.), Weathered Gas (C6-C12), and Surrogates (Control Limits % 70, 130; % Recovery 140 Q).

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

SEQUOIA ANALYTICAL - ELAP #1210

Vickie Tague Clark
Project Manager



Environmental Resolutions 359 Bel Marin Keys, Suite 20 Novato, CA 94949	Client Proj. ID: Exxon 7-0236/200913X Sample Descript: MW-11-MW2 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9511591-07	Sampled: 11/07/95 Received: 11/08/95 Extracted: 11/13/95 Analyzed: 11/15/95 Reported: 11/17/95
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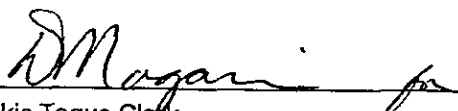
QC Batch Number: GC1113950HBPEXZ
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern: Unidentified HC	50	1800 C9-C24
Surrogates n-Pentacosane (C25)	Control Limits % 50 150	% Recovery 94

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

SEQUOIA ANALYTICAL - ELAP #1210


 Vickie Tague Clark
 Project Manager



Environmental Resolutions 359 Bel Marin Keys, Suite 20 Novato, CA 94949	Client Proj. ID: Exxon 7-0236/200913X Sample Descript: MW-11-MW2 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9511591-07	Sampled: 11/07/95 Received: 11/08/95 Analyzed: 11/13/95 Reported: 11/17/95
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Attention: Marc Briggs
QC Batch Number: GC111395BTEX06A
Instrument ID: GCHP06

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	1000	6400
Methyl t-Butyl Ether	50	24000
Benzene	10	120
Toluene	10	11
Ethyl Benzene	10	95
Xylenes (Total)	10	38
Chromatogram Pattern: Weathered Gas		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	122

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

SEQUOIA ANALYTICAL - ELAP #1210


Vickie Tague Clark
Project Manager



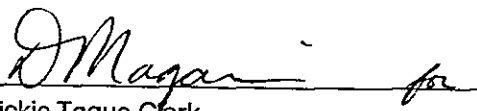
Environmental Resolutions 359 Bel Marin Keys, Suite 20 Novato, CA 94949	Client Proj. ID: Exxon 7-0236/200913X Sample Descript: W-BB-MW1 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9511591-08	Sampled: 11/07/95 Received: 11/08/95 Analyzed: 11/10/95 Reported: 11/17/95
Attention: Marc Briggs		
QC Batch Number: GC110995BTEX06A		
Instrument ID: GCHP06		

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	77

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

SEQUOIA ANALYTICAL - ELAP #1210


Vickie Tague Clark
Project Manager



Sequoia
Analytical

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819 Striker Avenue, Suite 8

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Walnut Creek, CA 94598
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(916) 921-9600

FAX (415) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100

Environmental Resolutions
359 Bel Marin Keys, Suite 20
Novato, CA 94949
Attention: Marc Briggs

Client Proj. ID: Exxon 7-0236/200913X

Received: 11/08/95

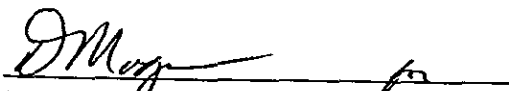
Lab Proj. ID: 9511591

Reported: 11/17/95

LABORATORY NARRATIVE

TPPH Note: Surrogate recovery high (Q) in sample MW-11-MW3 due to matrix
coelution.

SEQUOIA ANALYTICAL


Vickie Taglie Clark
Project Manager



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Environmental Resolutions
359 Bel Marin Keys, Suite 20
Novato, CA 94949

Client Project ID: Exxon 7-0236/200913X
Matrix: Liquid

Attention: Marc Briggs

Work Order #: 9511591 -01-7

Reported: Nov 20, 1995

QUALITY CONTROL DATA REPORT

Analyte:	pH
QC Batch:	IN110995150100A
Analy. Method:	EPA 150.1
Prep Method:	N/A

Analyst: S. Lee

Duplicate
Sample #: 951157201

Prepared Date: 11/9/95
Analyzed Date: 11/9/95
Instrument I.D.#: Manual

Sample
Concentration: 8.7

Dup. Sample
Concentration: 8.3

RPD: 4.7
RPD Limit: 0-30

SEQUOIA ANALYTICAL


Vickie Tague Clark
Project Manager

** RPD = Relative % Difference

9511591.EEE <1>



Sequoia Analytical

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 819 Striker Avenue, Suite 8 Sacramento, CA 95834 (916) 921-9600 FAX (916) 921-0100

Environmental Resolutions Client Project ID: Exxon 7-0236/200913X
 359 Bel Marin Keys, Suite 20 Matrix: Liquid
 Novato, CA 94949
 Attention: Marc Briggs Work Order #: 9511591-01-7 Reported: Nov 20, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Conductivity	Total Dissolved Solids	Chloride	Sulfate
QC Batch#:	IN110995120100A	IN111495160100A	IN1110953000ACB	IN1110953000ACB
Analy. Method:	EPA 120.1	EPA 160.1	EPA 300.0	EPA 300.0
Prep. Method:	N/A	N/A	N/A	N/A

Analyst:	S. Lee	S. Lee	S. Flynn	S. Flynn
MS/MSD #:	951159104	951165501	951163801	951163801
Sample Conc.:	250	230	15	29
Prepared Date:	11/9/95	11/14/95	11/10/95	11/10/95
Analyzed Date:	11/9/95	11/14/95	11/10/95	11/10/95
Instrument I.D.#:	Manual	Manual	INIC1	INIC1
Conc. Spiked:	710 μ mhos/cm	250 mg/L	10 mg/L	10 mg/L
Result:	920	480	24	37
MS % Recovery:	94	100	90	80
Dup. Result:	930	470	24	38
MSD % Recov.:	96	96	90	90
RPD:	1.1		0.0	2.7
RPD Limit:	0-30	0-30	0-30	0-30

LCS #:	-	-	LCS111095	LCS111095
Prepared Date:	-	-	11/10/95	11/10/95
Analyzed Date:	-	-	11/10/95	11/10/95
Instrument I.D.#:	-	-	INIC1	INIC1
Conc. Spiked:	-	-	3.0 mg/L	5.0 mg/L
LCS Result:	-	-	2.9	4.5
LCS % Recov.:	-	-	97	91

MS/MSD	70-130	70-130	70-130	70-130
LCS	80-120	80-120	90-110	90-110
Control Limits				

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

Vickie Tague Clark
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 Project Manager

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9511591.EEE <2>



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Environmental Resolutions
359 Bel Marin Keys, Suite 20
Novato, CA 94949
Attention: Marc Briggs

Client Project ID: Exxon 7-0236/200913X
Matrix: Liquid
Work Order #: 9511591-01-7

Reported: Nov 20, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Surfactants/MBAS	Alkalinity	Hardness
QC Batch#:	IN111195512800A	IN111595040300A	IN111595130200A
Analy. Method:	EPA 512B	SM 403	EPA 130.2
Prep. Method:	EPA 512B	N/A	N/A

Analyst:	K Bentler	D. Williams	D Williams
MS/MSD #:	BLK111195	951198701	951198701
Sample Conc.:	N.D.	48	48
Prepared Date:	11/11/95	11/15/95	11/15/95
Analyzed Date:	11/11/95	11/15/95	11/15/95
Instrument I.D.#:	Manual	Manual	Manual
Conc. Spiked:	0.80 mg/L	200 mg/L	200 mg/L
Result:	0.75	230	250
MS % Recovery:	94	91	101
Dup. Result:	0.75	240	240
MSD % Recov.:	94	96	96
RPD:	0.0	4.2	4.1
RPD Limit:	0-30	0-30	0-30

LCS #:	LCS111195	LCS111595	LCS111595
Prepared Date:	11/11/95	11/15/95	11/15/95
Analyzed Date:	11/11/95	11/15/95	11/15/95
Instrument I.D.#:	Manual	Manual	Manual
Conc. Spiked:	0.80 mg/L	100 mg/L	100 mg/L
LCS Result:	0.74	100	100
LCS % Recov.:	92	100	100

MS/MSD	70-130	70-130	70-130
LCS		80-120	80-120
Control Limits			

Please Note:

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Project Manager

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Environmental Resolutions
359 Bel Marin Keys, Suite 20
Novato, CA 94949
Attention: Marc Briggs

Client Project ID: Exxon 7-0236/200913X
Matrix: Liquid

Work Order #: 9511591-01-7

Reported: Nov 20, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Beryllium	Cadmium	Chromium	Nickel	Diesel
QC Batch#:	ME1110956010MDA	ME1110956010MDA	ME1110956010MDA	ME1110956010MDA	GC1113950HBPEXZ
Analy. Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010	EPA 8015M
Prep. Method:	EPA 3010	EPA 3010	EPA 3010	EPA 3010	EPA 3520

Analyst:	S. O'Donnell	S. O'Donnell	S. O'Donnell	S. O'Donnell	B. Ali
MS/MSD #:	951159101	951159101	951159101	951159101	951163502
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	11/10/95	11/10/95	11/10/95	11/10/95	11/13/95
Analyzed Date:	11/10/95	11/10/95	11/10/95	11/10/95	11/15/95
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2	GCHP4
Conc. Spiked:	1000 µg/L	1000 µg/L	1000 µg/L	1000 µg/L	1000 µg/L
Result:	980	940	930	950	840
MS % Recovery:	98	94	93	95	84
Dup. Result:	970	930	920	930	820
MSD % Recov.:	97	93	92	93	82
RPD:	1.0	1.0	1.0	2.0	2.4
RPD Limit:	0-30	0-30	0-30	0-30	0-50

LCS #:	BLK111095	BLK111095	BLK111095	BLK111095	BLK111395
Prepared Date:	11/10/95	11/10/95	11/10/95	11/10/95	11/13/95
Analyzed Date:	11/10/95	11/10/95	11/10/95	11/10/95	11/14/95
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2	GCHP4
Conc. Spiked:	1000 µg/L	1000 µg/L	1000 µg/L	1000 µg/L	1000 µg/L
LCS Result:	1000	970	960	980	790
LCS % Recov.:	100	97	96	98	79

MS/MSD LCS Control Limits	75-125	75-125	75-125	75-125	38-122
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SEQUOIA ANALYTICAL

Vickie Tague Clark
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Project Manager

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9511591.EEE <4>



Environmental Resolutions
359 Bel Marin Keys, Suite 20
Novato, CA 94949

Client Project ID: Exxon 7-0236/200913X
Matrix: Liquid

Attention: Marc Briggs

Work Order #: 9511591-01-4, 8

Reported: Nov 20, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC110995BTEX06A	GC110995BTEX06A	GC110995BTEX06A	GC110995BTEX06A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	R. Geckler	R. Geckler	R. Geckler	R. Geckler
MS/MSD #:	951110606	951110606	951110606	951110606
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	11/9/95	11/9/95	11/9/95	11/9/95
Analyzed Date:	11/9/95	11/9/95	11/9/95	11/9/95
Instrument I.D.#:	GCHP6	GCHP6	GCHP6	GCHP6
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	8.6	8.6	8.6	26
MS % Recovery:	86	86	86	87
Dup. Result:	8.3	8.2	8.2	25
MSD % Recov.:	83	82	82	83
RPD:	3.6	4.8	4.8	3.9
RPD Limit:	0-50	0-50	0-50	0-50

LCS #:	BLK110995	BLK110995	BLK110995	BLK110995
Prepared Date:	11/9/95	11/9/95	11/9/95	11/9/95
Analyzed Date:	11/9/95	11/9/95	11/9/95	11/9/95
Instrument I.D.#:	GCHP6	GCHP6	GCHP6	GCHP6
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
LCS Result:	8.2	8.2	8.2	24
LCS % Recov.:	82	82	82	80

MS/MSD LCS Control Limits	71-133	72-128	72-130	71-120
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Environmental Resolutions Client Project ID: Exxon 7-0236/200913X
 359 Bel Marin Keys, Suite 20 Matrix: Liquid
 Novato, CA 94949 Work Order #: 9511591-05-7 Reported: Nov 20, 1995
 Attention: Marc Briggs

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC111395BTEX06A	GC111395BTEX06A	GC111395BTEX06A	GC111395BTEX06A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	R. Geckler	R. Geckler	R. Geckler	R. Geckler
MS/MSD #:	951133001	951133001	951133001	951133001
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	11/13/95	11/13/95	11/13/95	11/13/95
Analyzed Date:	11/13/95	11/13/95	11/13/95	11/13/95
Instrument I.D.#:	GCHP6	GCHP6	GCHP6	GCHP6
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	10	10	10	31
MS % Recovery:	100	100	100	103
Dup. Result:	10	10	10	31
MSD % Recov.:	100	100	100	103
RPD:	0.0	0.0	0.0	0.0
RPD Limit:	0-50	0-50	0-50	0-50

LCS #:	BLK111395	BLK111395	BLK111395	BLK111395
Prepared Date:	11/13/95	11/13/95	11/13/95	11/13/95
Analyzed Date:	11/13/95	11/13/95	11/13/95	11/13/95
Instrument I.D.#:	GCHP6	GCHP6	GCHP6	GCHP6
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
LCS Result:	11	11	11	32
LCS % Recov.:	110	110	110	107

MS/MSD LCS Control Limits	71-133	72-128	72-130	71-120
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9511591.EEE <6>



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EXXON COMPANY, U.S.A.

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

CHAIN OF CUSTODY

Consultant's Name: <u>Environmental Resolutions Inc</u>		Page <u>1</u> of <u>4</u>
Address: <u>359 Bel Marin Keys Blvd Suite 20 Novato Ca 94949</u>		Site Location: <u>6630 E 14th Street</u>
Project #: <u>7-0236</u>	Consultant Project #: <u>200913X</u>	Consultant Work Release #: <u>19432502</u>
Project Contact: <u>Mark Briggs</u>	Phone #: <u>415-382-9105</u>	Laboratory Work Release #:
EXXON Contact: <u>Marka Guenster</u>	Phone #: <u>510-246-8776</u>	EXXON RAS #: <u>7-0236</u>
Sampled by (print): <u>Scott Graham</u>	Sampler's Signature: <u>Scott Graham</u>	<u>Oakland, Ca</u>
Shipment Method:	Air Bill #:	

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

ANALYSIS REQUIRED 9511591

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	Temperature: _____	
											Inbound Seal: Yes No	Outbound Seal: Yes No
W-10-MW1	11/7/95	13:55	Water	HCl ICE	3		X			X		1
W-10-MW4	/	14:25	/	/	/		X			X		2
W-12-MW5	/	14:45	/	/	/		X			X		3
W-10-MW7	/	15:15	/	/	/		X			X		4
W-10-MW6	/	15:35	/	/	/		X			X		5
W-10-MW3	/	15:55	/	/	/		X			X		6
W-11-MW2	/	16:20	/	/	/		X			X		7
W-10-MW1	/	14:00	/	ICE	2			X				1
W-10-MW4	/	14:27	/	/	/			X				2

RELINQUISHED BY / AFFILIATION	Date	Time	ACCEPTED / AFFILIATION	Date	Time	Additional Comments
<u>Scott Graham</u>	<u>11/8/95</u>	<u>10:15</u>	<u>Keth R. Grubel - Sequoia</u>	<u>11/8</u>	<u>10:15</u>	
<u>Keth R. Grubel</u>	<u>11/8/95</u>		<u>[Signature]</u>	<u>11/08/95</u>	<u>12:10</u>	

Pink - Client
Yellow - Sequoia
White - Sequoia



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(415) 364-9600 • FAX (415) 364-9233

EXXON COMPANY, U.S.A.

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

CHAIN OF CUSTODY

Consultant's Name: <u>Environmental Resolutions Inc</u>		Page <u>2</u> of <u>4</u>
Address: <u>359 Bel Marin Keys Suite 20 Novato Ca 94949</u>		Site Location: <u>6630 E 14th Street</u>
Project #: <u>7-0236</u>	Consultant Project #: <u>200913X</u>	Consultant Work Release #: <u>19432502</u>
Project Contact: <u>Marc Briggs</u>	Phone #: <u>415 382 9105</u>	Laboratory Work Release #:
EXXON Contact: <u>Marta Guenster</u>	Phone #: <u>510 246 8776</u>	EXXON RAS #: <u>7-0236</u>
Sampled by (print): <u>Scott Graham</u>	Sampler's Signature: <u>Scott Graham</u>	<u>Oakland, Ca</u>
Shipment Method:	Air Bill #:	

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

ANALYSIS REQUIRED 9511591

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	General Minerals	Temperature: _____	
											Inbound Seal: Yes No	Outbound Seal: Yes No
W-12-MW5	11/7/95	14:47	Water	ICE	2		X					3
W-10-MW7		15:17					X					4
W-10-MW6		15:37					X					5
W-11-MW3		15:57					X					6
W-11-MW2		16:22					X					7
W-10-MW1		14:05		HNO ₃ ICE	1					X		1
W-10-MW4		14:30								X		2
W-12-MW5		14:50 ⁰⁰								X		3
W-10-MW7		15:20								X		4

RELINQUISHED BY / AFFILIATION	Date	Time	ACCEPTED / AFFILIATION	Date	Time	Additional Comments
<u>Scott Graham</u>	11/8/95	10:15	<u>Keith R. Gull</u> Sequoia	11/8	10:15	
<u>Keith R. Gull</u>	11/8/95		<u>Philip</u>	11/08/95	12:10	

Pink - Client
Yellow/Sequoia
White - Sequoia

10
14



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CHAIN OF CUSTODY

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Consultant's Name: <u>Environmental Resolutions Inc</u>		Page <u>3</u> of <u>4</u>	
Address: <u>359 Bel Marin Keys Suite 20 Novato Ca 94949</u>		Site Location: <u>6630 E 14th Street</u>	
Project #: <u>7-0236</u>	Consultant Project #: <u>200913X</u>	Consultant Work Release #: <u>19432502</u>	
Project Contact: <u>Mara Briggs</u>	Phone #: <u>415 382 9105</u>	Laboratory Work Release #:	
EXXON Contact: <u>Marta Guenster</u>	Phone #: <u>510 246 8776</u>	EXXON RAS #: <u>7-0236</u>	
Sampled by (print): <u>Scott Graham</u>	Sampler's Signature: <u>Scott Graham</u>	<u>Oakland, Ca</u>	
Shipment Method:	Air Bill #:		

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

ANALYSIS REQUIRED 951591

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	General Minerals	Temperature: _____	
											Inbound Seal: Yes No	Outbound Seal: Yes No
W-10-MW6	11/7/95	15:40	Water	HNO ₃ ICE	1					X	5	
W-11-MW3	/	16:00	/	/	/					X	6	
W-11-MW2	/	16:25	/	/	/					X	7	
W-10-MW1	/	14:10	/	ICE	2					X	1	
W-10-MW4	/	14:32	/	/	/					X	2	
W-12-MW5	/	14:52	/	/	/					X	3	
W-10-MW7	/	15:22	/	/	/					X	4	
W-10-MW6	/	15:42	/	/	/					X	5	
W-11-MW3	11/8/95	16:02	/	/	/					X	6	

RELINQUISHED BY / AFFILIATION	Date	Time	ACCEPTED / AFFILIATION	Date	Time	Additional Comments
<u>Scott Graham</u>	11/8/95	10:15	<u>Joeth R. Shultz - Sequoia</u>	11/8/95	10:15	
<u>Joeth R. Shultz</u>	11/8/95		<u>[Signature]</u>	11/08/95	12:10	

Pink - Client
if Yellow - Sequoia
White - Sequoia

325

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

EXXON COMPANY, U.S.A.

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

CHAIN OF CUSTODY

Consultant's Name: <u>Environmental Resolutions Inc</u>		Site Location: <u>6630 E 14th Street</u>
Address: <u>359 Bel Marin Keys Suite 20 Novato Ca 94949</u>		Consultant Work Release #: <u>19432502</u>
Project #: <u>7-0236</u>	Consultant Project #: <u>200913X</u>	Laboratory Work Release #:
Project Contact: <u>Mara Briggs</u>	Phone #: <u>415 382 9105</u>	EXXON RAS #: <u>7-0236</u>
EXXON Contact: <u>Marla Guenster</u>	Phone #: <u>510 246 8776</u>	Sampler's Signature: <u>Scott Graham</u>
Sampled by (print): <u>Scott Graham</u>	Air Bill #:	<u>Oakland, Ca</u>
Shipment Method:		

TAT: 24 hr 48 hr 72 hr 96 hr Standard (10 day) ANALYSIS REQUIRED 9511591

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	General minerals	Coliform & Bacteria	Temperature: _____ Inbound Seal: Yes No Outbound Seal: Yes No
W-11-MW2	11/7/95	16:27	Water	ICE	2					X		7
W-10-MW1	/	14:15	/	Na ₂ SO ₃ ICE	1						X	1
W-10-MW4	/	14:35	/	/	/						X	3
W-12-MW5	/	14:55	/	/	/						X	3
W-10-MW7	/	15:25	/	/	/						X	4
W-10-MW6	/	15:45	/	/	/						X	5
W-11-MW3	/	16:05	/	/	/						X	6
W-11-MW2	/	16:30	/	/	/						X	7

RELINQUISHED BY / AFFILIATION	Date	Time	ACCEPTED / AFFILIATION	Date	Time	Additional Comments
<u>Scott Graham</u>	<u>11/8/95</u>	<u>10:15</u>	<u>Kath R Hall</u>	<u>11/8</u>	<u>10:05</u>	
<u>Kath R Hall</u>	<u>11/8/95</u>		<u>[Signature]</u>	<u>11/08/95</u>	<u>12:10</u>	

Pink - Client
Yellow - Sequoia
White - Sequoia



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

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CHAIN OF CUSTODY

Consultant's Name: <u>Environmental Resolutions Inc</u>		Page <u>1</u> of <u>1</u>
Address: <u>359 Bel Marin Keys Suite 20 Novato Ca 94949</u>		Site Location: <u>6630 E 14th Street</u>
Project #: <u>7-0236</u>	Consultant Project #: <u>2009134</u>	Consultant Work Release #: <u>19432502</u>
Project Contact: <u>Marc Briggs</u>	Phone #: <u>415 382 9105</u>	Laboratory Work Release #:
EXXON Contact: <u>Marla Guenster</u>	Phone #: <u>510 246 8776</u>	EXXON RAS #: <u>7-0236</u>
Sampled by (print): <u>Scott Graham</u>	Sampler's Signature: <u>[Signature]</u>	<u>Oakland, Ca</u>
Shipment Method:	Air Bill #:	

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

ANALYSIS REQUIRED 9511591/693

Sample Description	Collection Date	Collection Time	Matrix Soil/Water/Air	Prsv	# of Cont.	Sequoia's Sample #	TPH/Gas	TPH/	TRPH	MTBE	Temperature: _____
							BTEX/8015/8020	Diesel EPA 8015	S.M. 5520		Inbound Seal: Yes No
W-BB-MW1	11/7/95	13:50	Water	MCL ECL	1		X			X	8
W-BB-MW4	/	14:20	/	/	/		Hold			Hold	9
W-BB-MW5	/	14:40	/	/	/		Hold			Hold	10
W-BB-MW7	/	15:10	/	/	/		Hold			Hold	11
W-BB-MW6	/	15:30	/	/	/		Hold			Hold	12
W-BB-MW3	/	15:50	/	/	/		Hold			Hold	13
W-BB-MW2	/	16:15	/	/	/		Hold			Hold	14

RELINQUISHED BY / AFFILIATION	Date	Time	ACCEPTED / AFFILIATION	Date	Time	Additional Comments
<u>[Signature]</u>	11/8/95	10:15	<u>Heath R. Shull Sequoia</u>	11/8/95	10:15	
<u>[Signature]</u>	11/8/95		<u>[Signature]</u>			
				11/08/95	12:10	

Pink - Client
Yellow - Sequoia
White - Sequoia