RESNA
Working to Restore Nature

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LETTER REPORT
QUARTERLY GROUNDWATER MONITORING
Second Quarter 1994
Exxon Station 7-7003
349 Main Street
Pleasanton, California

130015.99

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June 28, 1994

Ms. Marla D. Guensler
Exxon Company, U.S.A.
P.O. Box 4032
2300 Clayton Road
Concord, California 94520

Subject: Quarterly Groundwater Monitoring, Second Quarter 1994
Exxon Station 7-7003
349 Main Street, Pleasanton, California

Ms. Guensler:

At the request of Exxon Company U.S.A. (Exxon), RESNA Industries Inc. (RESNA) performed the second quarter 1994 groundwater monitoring at the subject site (Plate 1, Site Vicinity Map). The objectives of groundwater monitoring are to evaluate: groundwater elevations, gradient and flow direction; the presence and thickness of any liquid phase hydrocarbons; and the distribution of dissolved gasoline and chlorinated hydrocarbons in groundwater.

GROUNDWATER MONITORING AND SAMPLING

On May 12 and 13, 1994, RESNA measured the depth to water in wells MW-1 through MW-8 and VW-1 through VW-3, and collected groundwater samples from the wells for subjective and laboratory analyses. RESNA's groundwater sampling protocol and well purge data sheets are in Appendix A, Groundwater Sampling Protocol and Well Purge Data Sheets.

Neither liquid phase hydrocarbons nor sheen were observed in samples from the wells. Based on May 12, 1994, depth to water measurements, groundwater elevations at the site have increased an average of approximately 1.40 feet since last quarter, and the groundwater appears to flow toward the northwest beneath the subject site, with a hydraulic gradient of 0.04 (Plate 2, Groundwater Gradient and Chemical Concentrations). Historical and recent monitoring data are summarized in Table 1, Cumulative Groundwater Monitoring and Sampling Data.

LABORATORY ANALYSES AND RESULTS

Groundwater samples were submitted to Pace Incorporated Laboratories (California State Certification Number 1282) in Novato, California, under chain of custody protocol. The samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene, total xylenes using the methods listed in the notes in Table 1. Wells MW-1 and MW-4 were analyzed for volatile organic compounds (VOCs). Additional analysis was conducted on groundwater samples collected from well MW-1. The results from well MW-1 are listed in Table 2, Results of Additional Laboratory Analyses of Groundwater Samples from Well MW-1 on May 13, 1994. The laboratory analysis reports and chain of custody records are in Appendix B, Laboratory Analysis Reports and Chain of Custody Records.

Results of laboratory analysis of groundwater samples are shown on Plate 2, and are summarized in Table 1. Selected analytical results are summarized below if the concentrations detected are greater than the method detection limit (MDL) for TPHg; the California Department of Health Services (DHS) maximum contaminant levels (MCLs) for benzene, ethylbenzene, or total xylenes; and the DHS drinking water action level (DWAL) for toluene, as listed in Table 1. Selected analytical results are summarized below for VOCs if the concentrations detected are greater than their respective MCLs or DWALs as listed in Table 1. Results from the additional analysis on well MW-1 (Table 2) are mentioned for those constituents in the DHS primary and secondary drinking water standards.

- Concentrations of TPHg were greater than the MDL in wells MW-1, MW-2, VE-1, and VE-2.
- Concentrations of benzene were greater than the MCL in wells MW-1, MW-5, and VE-2.
- Concentrations of iron and manganese were greater than their respective secondary drinking water MCLs.

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.

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If you have any questions or comments regarding this report, please call (510) 440-3300.

Sincerely,
RESNA Industries Inc.

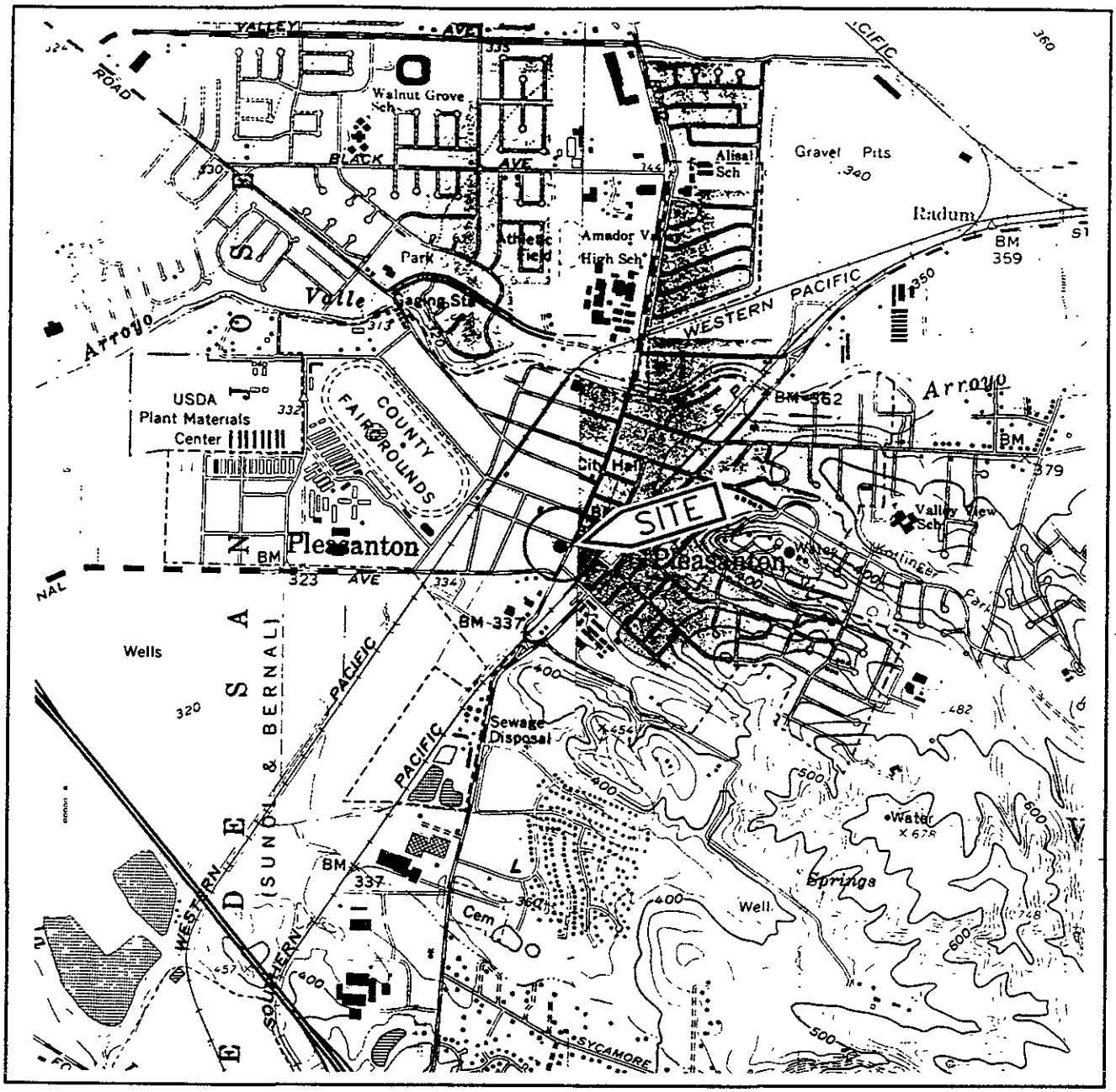
Christian O. Allen
Geologic Technician

Michael L. Siembieda, R.G. 4007
Geoscience Manager

Enclosures:
Plate 1: Site Vicinity Map
Plate 2: Groundwater Gradient and Chemical Concentrations

Table 1: Cumulative Groundwater Monitoring and Sampling Data
Table 2: Results of Additional Laboratory Analyses of Groundwater Samples from Well MW-1 (May 13, 1994 and April 20, 1994)

Appendix A: Groundwater Sampling Protocol and Well Purge Data Sheets
Appendix B: Laboratory Analysis Reports and Chain of Custody Records



Source: U.S. Geological Survey
7.5–Minute Quadrangles
Dublin/Livermore, California
Photorevised 1980

N

Approximate Scale
2000 1000 0 2000
feet

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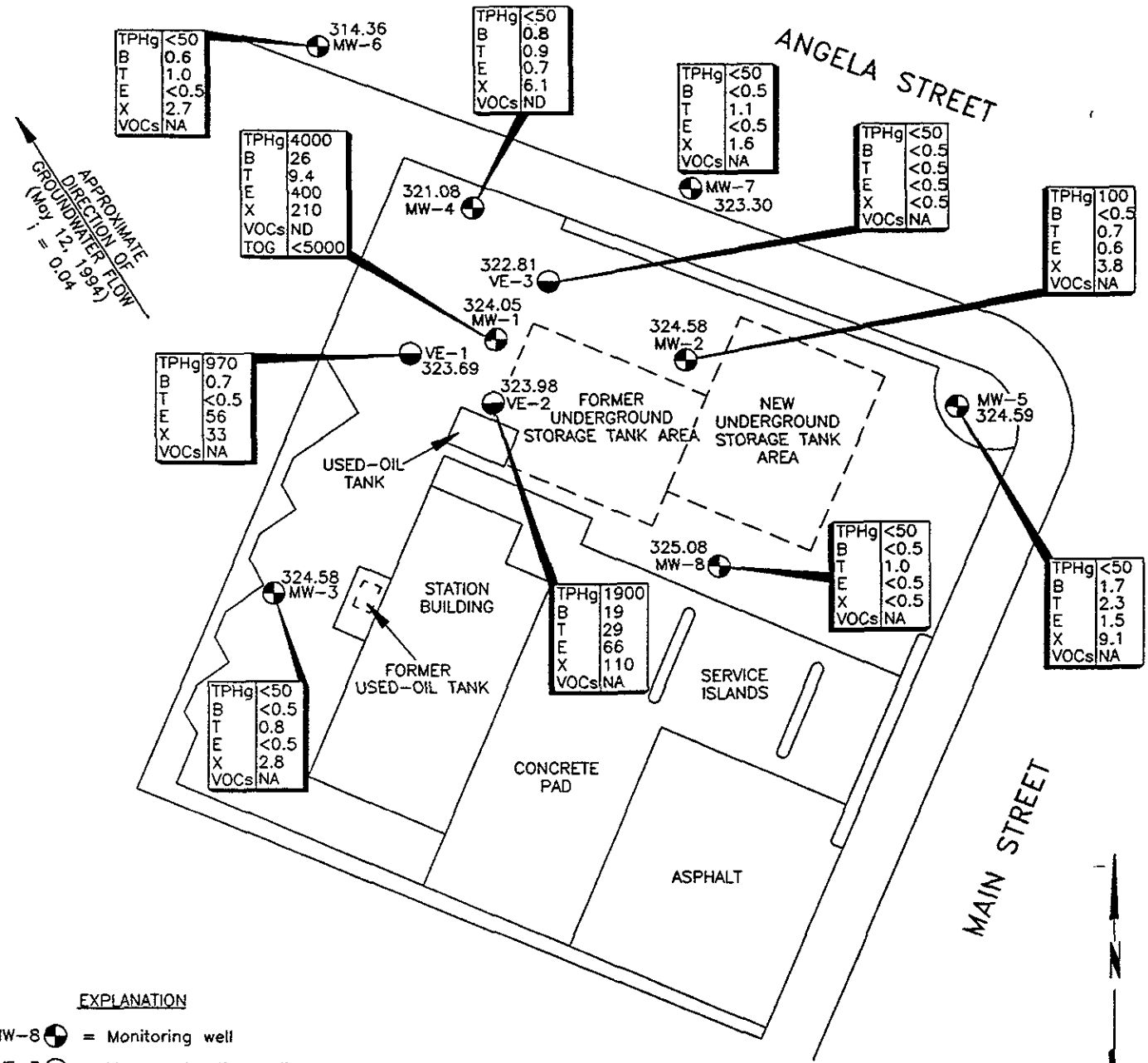
SITE VICINITY MAP
Exxon Station 7-7003
349 Main Street
Pleasanton, California

PLATE
1



EXPLANATION

MW-8 ◓ = Monitoring well

VE-3 ◒ = Vapor extraction well

325.08 = Elevation of groundwater relative to mean sea level, May 12, 1994

TPHg	4000
B	26
T	9.4
E	400
X	210
VOCs	ND
TOG	<5000

= Concentration of these constituents in groundwater in parts per billion, May 12 and 13, 1994

i = Interpreted magnatude of hydraulic gradient

ND = Not detected

NA = Not analyzed

Approximate Scale

30 15 0 30 60

feet

Source: Surveyed by Ron Archer Civil Engineer, Inc., June 1990, April 1991 and May 1993.

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GROUNDWATER GRADIENT AND CHEMICAL CONCENTRATIONS
Exxon Station 7-7003
349 Main Street
Pleasanton, California

PLATE 2

TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Exxon Service Station 7-7003
349 Main Street, Pleasanton, California

Well ID# (TOC)	Sampling Date	SUBJ	DTW	Elev.	TPHg	B	T	E	X	Lead	TOG	VOCs
		<	feet	>	<	parts per billion						>
MW-1												
(343.83)	02/23/90	NLPH	26.08	317.75	3300	21	9.2	59	19	100	NA	NA
	06/15/90	NLPH	26.49	317.34	1300	7.9	5.9	32	58	<50	NA	NA
	08/90	NLPH	26.47	317.36	2500	77	280	50	250	<50	NA	NA
	12/18/90	NLPH	28.00	315.83	390	9.0	2.0	43	400	<100	NA	NA
	03/19/91	NLPH	23.63	320.20	4500	45	12	240	300	<100	NA	12.0[1]
	06/27/91	NLPH	22.11	321.72	710	5.4	2.6	29	34	<100	NA	ND
	09/26/91	NLPH	27.75	316.08	290	1.9	<0.5	0.6	0.6	<100	NA	ND
	01/10/92	NLPH	25.61	318.22	5400	52	15	690	496	<100	NA	6.1[1]
	03/12-13/92	NLPH	22.52	321.31	1400	87	22	1200	1000	NA	NA	2.1[5] 14[1] 1.2[4] 0.5[6] 0.8[3]
	06/09/92	NLPH	21.53	322.30	4500	27	5.9	400	300	<100	<5000	ND
	09/28-29/92	NLPH	29.84	313.99	60	<0.5	0.9	<0.5	<0.5	NA	<5000	ND
	12/12/92	NLPH	23.86	319.97	1400	53	18	1100	570	NA	<5000	49[1]
	02/02-03/93	NLPH	19.00	324.83	10,000	61	27	900	840	NA	<5000	2.2[5] 19[1] 1.1[6] 2.4[3]

See notes on page 9 of 9.

TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Exxon Service Station 7-7003
349 Main Street, Pleasanton, California

Well ID# (TOC)	Sampling Date	SUBJ	DTW	Elev.	TPHg	B	T	E	X	Lead	TOG	VOCs
		<	feet	>	<	parts per billion						>
MW-1 cont. (343.83)	06/08-09/93	NLPH	16.62	327.21	7500	42	32	970	720	NA	<5000	1.8[1] 1.0[4] 0.8[5]
	09/22-23/93	NLPH	19.63	324.20	6600	36	34	820	540	NA	<5000	0.6[3]
	11/17-18/93	NLPH	20.82	323.01	5900	24	10	470	300	NA	NA	ND
	02/16-17/94	NLPH	21.47	322.36	6700	42	15	470	330	NA	NA	ND**
	05/12-13/94	NLPH	19.78	324.05	4000	26	9.4	400	210	NA	<5000	ND**
MW-2 (344.22)	02/23/90	NLPH	26.31	317.91	650	3.0	2.0	0.98	6.5	8.0	NA	NA
	06/15/90	NLPH	26.25	317.97	670	<0.5	2.6	<0.5	<0.5	<50	NA	NA
	08/90	NLPH	26.15	318.07	1300	24	130	37	170	<50	NA	NA
	12/18/90	NLPH	27.94	316.28	470	<0.3	0.5	1.0	3.0	<100	NA	NA
	03/19/91	NLPH	23.41	320.81	700	10	3.4	6.1	3.8	<100	NA	ND
	06/27/91	NLPH	21.63	322.59	1400	8.7	2.1	8.8	33	<100	NA	ND
	09/26/91	NLPH	27.19	317.03	300	<0.5	0.6	0.6	3.9	<100	NA	ND
	01/10/92	NLPH	25.67	318.55	800	9.3	1.0	2.4	3.2	<100	NA	ND
	03/12-13/92	NLPH	22.28	321.94	350	<0.5	0.6	0.63	1.0	NA	NA	ND
	06/09/92	NLPH	21.17	323.05	150	1.9	2.5	2.51	5.1	<100	NA	ND
	09/28-29/92	NLPH	29.58	314.64	71	<0.5	<0.5	<0.5	<0.5	NA	NA	ND
	12/12/92	NM	NM	---								
	02/02-03/93	NLPH	18.69	325.53	720	3.9	8.2	21	20	NA	NA	NA
	06/08-09/93	NLPH	16.32	327.90	160	0.5	3.3	5.7	2.0	NA	NA	NA
	09/22-23/93	NLPH	19.43	324.79	240	0.7	5.6	4.0	2.6	NA	NA	NA

See notes on page 9 of 9.

TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Exxon Service Station 7-7003
349 Main Street, Pleasanton, California

Well ID# (TOC)	Sampling Date	SUBJ	DTW feet	Elev.	TPHg	B	T	E	X	Lead	TOG	VOCs
		<		>	<			parts per billion				>
MW-2 cont.	11/17-18/93	NLPH	20.56	323.66	490	1.2	2.3	3.2	1.3	NA	NA	NA
(344.22)	02/16-17/94	NLPH	20.93	323.29	280	<0.5	2.3	1.0	2.0	NA	NA	NA
	05/12-13/94	NLPH	19.64	324.58	100	<0.5	0.7	0.6	3.8	NA	NA	NA
MW-3												
(342.90)	02/23/90	NLPH	24.78	318.12	<20	<0.5	<0.5	<0.5	<0.5	100	NA	NA
	06/15/90	NLPH	25.29	317.61	200	<0.5	<0.5	<0.5	<0.5	<50	NA	NA
	08/90	NLPH	25.40	317.50	3200	54	380	23	400	<50	NA	NA
	12/18/90	NLPH	26.84	316.06	200	8.0	12	6.0	24	<100	<5000	4.1[3]
	03/19/91	NLPH	22.13	320.77	<50	<0.5	<0.5	<0.5	<0.5	<100	<5000	ND
	06/27/91	NLPH	21.04	321.86	<50	<0.5	<0.5	<0.5	<0.5	<100	<5000	ND
	09/26/91	NLPH	26.63	316.27	<50	<0.5	<0.5	<0.5	<0.5	<100	<5000	ND
	01/10/92	NLPH	24.26	318.64	<50	<0.5	<0.5	<0.5	<0.5	<100	5100	ND
	03/12-13/92	NLPH	21.60	321.30	<50	<0.5	<0.5	<0.5	<0.5	NA	5000	ND
	06/09/92	NLPH	20.88	322.02	<50	<0.5	<0.5	<0.5	<0.5	<100	<5000	ND
	09/28-29/92	NLPH	28.67	314.23	<50	<0.5	<0.5	<0.5	<0.5	NA	<5000	ND
	12/12/92	NLPH	20.73	322.17	<50	<0.5	<0.5	<0.5	1.3	NA	<5000	NA
	02/02-03/93	NLPH	19.30	323.60	<50	<0.5	<0.5	<0.5	<0.5	NA	<5000	NA
	06/08/93	NLPH	15.89	327.01	<50	0.6	0.9	3.4	2.8	NA	<5000	NA
	09/22/93	NLPH	18.63	324.27	<50	<0.5	1.0	1.6	4.4	NA	*	NA
	11/17-18/93	NLPH	19.97	322.93	<50	<0.5	<0.5	<0.5	1.5	NA	NA	NA
	02/16-17/94	NLPH	20.64	322.26	<50	1.5	5.3	1.6	9.2	NA	NA	NA
	05/12-13/94	NLPH	18.32	324.58	<50	<0.5	0.8	<0.5	2.8	NA	NA	NA

See notes on page 9 of 9.

TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Exxon Service Station 7-7003
349 Main Street, Pleasanton, California

Well ID# (TOC)	Sampling Date	SUBJ	DTW feet	Elev.	TPHg	B	T	E	X	Lead	TOG	VOCs
		<		>	<			parts per billion				>
MW-4												
(343.38)	06/15/90	NLPH	30.94	312.44	<20	<0.5	<0.5	<0.5	<0.5	<50	NA	NA
	08/90	NLPH	31.21	312.17	120	5.2	5.4	5.4	9.9	<50	NA	NA
	12/18/90	NLPH	32.86	310.52	50	7.0	1.0	<0.3	2.0	<100	NA	NA
	03/19/91	NLPH	26.76	316.62	160	1.8	0.8	2.2	11	<100	NA	ND
	06/27/91	NLPH	25.91	317.47	<50	<0.5	<0.5	<0.5	<0.5	<100	NA	ND
	09/26/91	NLPH	32.29	311.09	<50	<0.5	<0.5	<0.5	<0.5	<100	NA	1.0[4]
	01/10/92	NLPH	29.06	314.32	98	0.9	<0.5	7.6	4.4	<100	NA	1.0[4]
	03/12-13/92	NLPH	24.25	319.13	82	1.2	<0.5	5.3	4.3	NA	NA	ND
	06/09/92	NLPH	25.00	318.38	<50	0.6	1.0	<0.5	2.5	<100	NA	0.7[4]
	09/28-29/92	NLPH	34.41	308.97	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	ND
	12/12/92	NLPH	30.77	312.61	99	1.0	0.9	7.0	11	NA	NA	ND
	02/02-03/93	NLPH	21.03	322.35	170	2.3	2.2	6.2	8.4	NA	NA	ND
	06/08-09/93	NLPH	18.35	325.03	<50	0.7	0.9	0.7	<0.5	NA	NA	0.6[4]
	09/22-23/93	NLPH	21.86	321.52	59	0.8	2.0	3.1	5.3	NA	NA	ND
	11/17-18/93	NLPH	22.98	320.40	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	ND
	02/16-17/94	NLPH	23.94	319.44	98	8.7	17	4.2	24	NA	NA	0.5[4]
	05/12-13/94	NLPH	22.30	321.08	<50	0.8	0.9	0.7	6.1	NA	NA	ND
MW-5												
(345.20)	06/15/90	NLPH	26.94	318.26	<20	<0.5	<0.5	<0.5	<0.5	60	NA	NA
	08/90	NLPH	26.90	318.30	120	9.7	12	7.6	17	<50	NA	NA
	12/18/90	NLPH	28.31	316.89	50	2.0	3.5	2.0	8.0	<100	NA	NA
	03/19/91	NLPH	23.98	321.22	160	<0.5	<0.5	<0.5	<0.5	<100	NA	0.5[1]

See notes on page 9 of 9.

TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Exxon Service Station 7-7003
349 Main Street, Pleasanton, California

Well ID# (TOC)	Sampling Date	SUBJ	DTW	Elev.	TPHg	B	T	E	X	Lead	TOG	VOCs
		<	feet	>	<	parts per billion						>
MW-5 cont.	06/27/91	NLPH	22.41	322.79	<50	<0.5	<0.5	<0.5	<0.5	<100	NA	ND
(345.20)	09/26/91	NLPH	27.77	317.43	<50	<0.5	<0.5	<0.5	<0.5	<100	NA	ND
	01/10/92	NLPH	26.38	318.82	98	<0.5	<0.5	<0.5	0.6	<100	NA	ND
	03/12-13/92	NLPH	22.08	323.12	82	<0.5	<0.5	<0.5	<0.5	NA	NA	ND
	06/09/92	NLPH	31.98	313.22#								
	09/28-29/92	NLPH	30.26	314.94	<50	NR	<0.5	<0.5	<0.5	NA	NA	ND
	12/12/92	NLPH	27.20	318.00	210	0.9	11	0.5	3.1	NA	NA	NA
	02/02-03/93	NLPH	20.01	325.19	70	<0.5	2.7	<0.5	0.9	NA	NA	NA
	06/08-09/93	NLPH	16.80	328.40	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA
	09/22/93	NLPH	20.28	324.92	<50	1.0	<0.5	1.1	2.1	NA	NA	NA
	11/17-18/93	NLPH	21.19	324.01	<50	<0.5	<0.5	<0.5	0.9	NA	NA	NA
	02/16-17/94	NLPH	21.61	323.89	<50	1.2	4.3	1.4	8.2	NA	NA	NA
	05/12-13/94	NLPH	20.61	324.59	<50	1.7	2.3	1.5	9.1	NA	NA	NA
MW-6												
(342.25)	03/19/91	NLPH	34.42	307.83	<50	<0.5	<0.5	<0.5	<0.5	<100	NA	ND
	06/27/91	NLPH	35.01	307.24	<50	2.6	1.8	0.8	<0.30	<100	NA	ND
	09/26/91	NLPH	40.34	301.91	<50	<0.5	<0.5	<0.5	<0.5	<100	NA	ND
	01/10/92	NLPH	36.20	306.05	<50	<0.5	<0.5	<0.5	<0.5	<100	NA	ND
	03/12-13/92	NLPH	31.95	310.30	<50	<0.5	<0.5	NR	NR	NA	NA	ND
	06/09/92	NLPH	33.22	309.03	<50	<0.5	<0.5	<0.5	<0.5	<100	NA	ND
	09/28-29/92	NLPH	40.96	301.29	<50	<0.5	<0.5	0.9	0.9	NA	NA	ND
	12/12/92	NM	NM	---	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA
	02/02/93	NLPH	26.51	315.74	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA

See notes on page 9 of 9.

TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Exxon Service Station 7-7003
349 Main Street, Pleasanton, California

Well ID# (TOC)	Sampling Date	SUBJ	DTW	Elev.	TPHg	B	T	E	X	Lead	TOG	VOCs
		<	feet	>	<			parts per billion				>
MW-6 cont.	06/08/93	NLPH	22.62	319.63	<50	0.6	0.7	1.7	1.8	NA	NA	NA
(342.25)	09/22/93	NLPH	26.74	315.51	<50	<0.5	<0.5	0.7	1.1	NA	NA	NA
	11/17-18/93	NLPH	28.49	313.76	<50	0.6	0.8	1.2	3.9	NA	NA	NA
	02/16-17/94	NLPH	29.83	312.42	51	3.8	7.9	2.0	11	NA	NA	NA
	05/12-13/94	NLPH	27.89	314.36	<50	0.6	1.0	<0.5	2.7	NA	NA	NA
MW-7												
(343.62)	03/19/91	NLPH	24.68	318.94	140	<0.5	<0.5	<0.5	<0.5	<100	NA	0.7[1] 0.8[2]
	06/27/91	NLPH	23.10	320.52	100	5.2	5.6	3.9	16	<100	NA	ND
	09/26/91	NM	NM	---								
	01/10/92	NLPH	26.98	316.64	<50	<0.5	<0.5	<0.5	<0.5	<100	NA	ND
	03/12-13/92	NLPH	21.86	321.76	120	<0.5	<0.5	<0.5	<0.5		NA	ND
	06/09/92	NLPH	22.32	321.30	81	<0.5	<0.5	<0.5	<0.5	<100	NA	ND
	09/28-29/92	NLPH	31.92	311.70	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	ND
	12/12/92	NLPH	28.80	314.82	200	5.1	6.9	3.3	19	NA	NA	NA
	02/02-03/93	NLPH	19.50	324.12	170	<0.5	6.6	0.6	1.7	NA	NA	NA
	06/08-09/93	NLPH	16.72	326.90	<50	<0.5	0.8	<0.5	<0.5	NA	NA	NA
	09/22/93	NLPH	19.90	323.72	<50	0.6	0.9	0.7	1.1	NA	NA	NA
	11/17-18/93	NLPH	20.75	322.87	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA
	02/16-17/94	NLPH	21.36	322.26	<50	0.9	2.7	<0.5	3.2	NA	NA	NA
	05/12-13/94	NLPH	20.32	323.30	<50	<0.5	1.1	<0.5	1.6	NA	NA	NA

See notes on page 9 of 9.

TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Exxon Service Station 7-7003
349 Main Street, Pleasanton, California

Well ID# (TOC)	Sampling Date	SUBJ	DTW	Elev.	TPHg	B	T	E	X	Lead	TOG	VOCs
		<	feet	>	<	parts per billion						>
MW-8												
(344.00)	06/08-09/93	NLPH	15.78	328.22	65	<0.5	1.1	0.8	1.7	NA	NA	NA
	09/22-23/93	NLPH	18.86	325.14	110	4.1	8.9	6.7	14	NA	NA	NA
	11/17-18/93	NLPH	20.01	323.99	78	<0.5	0.9	<0.5	<0.5	NA	NA	NA
	02/16-17/94	NLPH	20.30	323.70	<50	<0.5	1.8	<0.5	<0.5	NA	NA	NA
	05/12-13/94	NLPH	18.92	325.08	<50	<0.5	1.0	<0.5	<0.5	NA	NA	NA
VE-1												
(343.38)	09/28/92	NLPH	31.92	311.46#								
	06/08/93	NLPH	16.44	326.94	5800	<5.0	15	830	500	NA	NA	NA
	09/22-23/93	NLPH	19.47	323.91	3700	5.4	21	380	240	NA	NA	NA
	11/17-18/93	NLPH	20.64	322.74	3600	5.8	2.0	220	180	NA	NA	NA
	02/16-17/94	NLPH	21.20	322.18	7600	31	4.0	500	300	NA	NA	NA
	05/12-13/94	NLPH	19.69	323.69	970	0.7	<0.5	56	33	NA	NA	NA
VE-2												
(343.39)	06/08/93	NLPH	16.20	327.19	7000	10	18	900	340	NA	NA	NA
	09/22-23/93	NLPH	19.23	324.16	2600	15	33	240	82	NA	NA	NA
	11/17-18/93	NLPH	20.44	322.95	3500	22	<0.5	220	56	NA	NA	NA
	02/16-17/94	NLPH	20.90	322.49	3400	45	<5.0	220	60	NA	NA	NA
	05/12-13/94	NLPH	19.41	323.98	1900	19	29	66	110	NA	NA	NA

See notes on page 9 of 9.

TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Exxon Service Station 7-7003
349 Main Street, Pleasanton, California

Well ID# (TOC)	Sampling Date	SUBJ	DTW feet	Elev.	TPHg	B	T	E	X	Lead	TOG	VOCs
		<		>	<			parts per billion				>
VE-3												
(343.39)	06/08/93	NLPH	16.48	326.91	130	3.1	3.1	18	15	NA	NA	NA
	09/22-23/93	NLPH	18.96	324.43	130	11	7.3	13	32	NA	NA	NA
	11/17-18/93	NLPH	20.00	323.39#								
	02/16-17/94	NLPH	21.02	322.37	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA
	05/12-13/94	NLPH	20.58	322.81	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA
	Maximum Contaminant Levels (MCLs)				---	1.0	---	680	1750	---	---	see
	Drinking Water Action Levels (DWALs)				---	---	100	---	---	---	---	below

See notes on page 9 of 9.

TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Exxon Service Station 7-7003
349 Main Street
Pleasanton, California

Notes:

SUBJ	=	Results of subjective evaluation, free-phase product thickness (PT) in feet
NLPH	=	No liquid-phase hydrocarbons present in well
TOC	=	Elevation of top of well casing relative to mean sea level (MSL)
DTW	=	Depth to water
Elev.	=	Elevation of groundwater relative to MSL
TPHg	=	Total petroleum hydrocarbons as gasoline analyzed using modified EPA method 5030/8015.
BTEX	=	Benzene, Toluene, Ethylbenzene, and total Xylenes analyzed using modified EPA method 5030/8020.
VOCs	=	Volatile organic compounds analyzed using EPA method 8010.
TOG	=	Total oil and grease analyzed using Standard Method 5520.
<	=	Less than the indicated detection limit shown by the laboratory
NA	=	Not Analyzed
ND	=	Not Dectected
*	=	Analyzed for total petroleum hydrocarbons as diesel using EPA method 3510/8015.
**	=	Sample was diluted due to the presence of high levels of hydrocarbons
1	=	Chloroform (No MCL or DWAL)
2	=	Bromodichloromethane (No MCL or DWAL)
3	=	Tetrachloroethene
4	=	1,2-Dichloroethane (MCL = 0.5 ppb)
5	=	Methylene Chloride (DWAL = 40.0 ppb)
6	=	Tricholoroethene
MCLs	=	Maximum Contaminant Levels (California Department of Health Services, October 1990)
DWAL	=	Drinking Water Action Level (California Department of Health Services, October 1990)
---	=	Not applicable
#	=	Not Sampled

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TABLE 2
RESULTS OF ADDITIONAL LABORATORY ANALYSES OF GROUNDWATER SAMPLES FROM WELL MW-1 (May 13, 1994)
Exxon Station 7-7003
349 Main Street, Pleasanton, California

PARAMETER	CONCENTRATION	MCL	EPA METHOD
	INORGANIC ANALYSES		
Alkalinity Series			
Total Alkalinity, as $CaCO_3$	430	—	—
Bicarbonate Alkalinity, as $CaCO_3$	430	—	—
Carbonate Alkalinity, as $CaCO_3$	<10	—	—
Hydroxide Alkalinity, as $CaCO_3$	<10	—	—
Metals			
Antimony	<0.06	—	6010/200.7,ICP
Arsenic	<0.005	0.05	7060, Furnace AAS
Beryllium	<0.007	—	6010/200.7,ICP
Cadmium	<0.005	0.01	6010/200.7,ICP
Calcium	76	—	6010/200.7, ICP
Chromium	<0.01	0.05	6010/200.7,ICP
Copper	<0.01	1.0	6010/200.7,ICP
Iron	1.1	0.3	6010/200.7,ICP
Lead	<0.1	0.05	6010/200.7,ICP
Magnesium	51	—	6010/200.7,ICP
Manganese	4.4	0.05	6010/200.7,ICP
Mercury	<0.0002	0.002	7470, Cold Vapor AA
Nickel	<0.02	—	6010/200.7,ICP
Individual Parameters			
Chloride	120	—	SM 407A
Total Hardness, as $CaCO_3$	400	—	—
Total Dissolved Solids	670	—	160.1
Specific Conductance, umhos/cm at 25°C	1200	—	—
Sulfate	37	—	375.4
pH, at 25°C	6.3	—	—
Cyanides in Water	<0.005	—	335.2
Organic Lead in Water			
Organic Lead, as Pb	<0.1	—	DHS Method 338

See notes on page 2 of 2.

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TABLE 2
RESULTS OF ADDITIONAL LABORATORY ANALYSES OF
GROUNDWATER SAMPLES FROM WELL MW-1 (April 20, 1994)
Exxon Station 7-7003
349 Main Street, Pleasanton, California
(Page 2 of 2)

PARAMETER	CONCENTRATION	MCL	EPA METHOD
	ORGANIC ANALYSES*		
VOCs			8010[1]
Benzene	0.022	—	624
Toluene	0.009	—	624
Ethylbenzene	0.490	—	624
Total Xylenes	0.270	—	624
BNAs			
Napthalene	0.046	—	625
2-Methylnapthalene	0.012	—	625
Total Oil and Grease	<5.0	—	SM5520

Notes:

Results in parts per million (ppm) unless otherwise stated.

MCL : Maximum Contaminant Level for drinking water standards recommended by the California State Department of Health Services (October 1990).
EPA : Environmental Protection Agency
BNAs : Extractable Organics
VOCs : Halogenated Volatile Compounds
--- : Not Applicable
< : Less than the indicated detection limit shown by the laboratory
* : Other compounds were not detected, using EPA methods 8210, 8240, and 8270.
1 : Sample was diluted due to high levels of hydrocarbons present.

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APPENDIX A

GROUNDWATER SAMPLING PROTOCOL AND WELL PURGE DATA SHEETS

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GROUNDWATER SAMPLING PROTOCOL

The static water level and liquid phase hydrocarbon level, if present, in each well that contained water and/or liquid phase hydrocarbons are measured with an ORS Interphase Probe Model No. 106801, 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 and corrected for liquid phase hydrocarbon thickness (HT), when necessary, by multiplying (HT) by a correction factor 0.8 and subtracting from the DTW level (Adjusted DTW = DTW - [HT x 0.8]).

Groundwater samples collected for subjective evaluation are collected by gently lowering approximately half the length of a clean disposable or 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 liquid phase hydrocarbons or sheen. Any liquid 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 maximum of four well casing volumes are purged. Turbidity measurements are also collected from the purged well water. Water samples from the wells that do not obtain stability of the temperature, pH, and conductivity are considered to be "grab samples". Wells having demonstrated stabilization within purging of four well volumes for at least three consecutive quarters are not monitored for the above parameters. Instead, four well volumes are purged. The quantity of water purged from each well is calculated as follows:

1 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

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 were collected with an Environmental Protection Agency (EPA) approved disposable bailer, or a EPA approved Teflon® sampler which has been cleaned with Alconox® and deionized water. The groundwater was 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 form, to a California-certified laboratory.

WELL PURGE DATA SHEET

Project Name: Exxon 7-7003 Job No. 1300/5.20

Date: 5/13/94 Page 1 of 1

Well No. MW-1 Time Started 12:56

TIME (hr)	GALLONS (cum.)	TEMP. (F)	pH	CONDUCT. (micromho)	TURBIDITY (NTU)
12:56	Start purging MW-1				
12:56	0	73.0	6.39	2.02	3.6
13:08	13	73.1	6.96	2.01	1.8
13:18	26	73.7	6.44	2.05	1.3
13:30	39	75.8	6.47	2.08	4.4
13:41	52	75.9	6.50	2.10	3.3
13:41	Stop purging MW-1				

Notes:
Conductivity at (x1,000)

Well Diameter (inches) : 4

Depth to Bottom (feet) : 39.10

Depth to Water - initial (feet) : 19.28

Depth to Water - final (feet) : 20.22

% recovery : 98

Time Sampled : 16:15

Gallons per Well Casing Volume : 12.6

Gallons Purged : 52

Well Casing Volume Purged : 4.1

Approximate Pumping Rate (gpm) : 1.2

WELL PURGE DATA SHEET

Project Name: Exxon 7-7003 Job No. 1300/5.20

Date: 5/13/94 Page 1 of 1

Well No. MW-2 Time Started 12:18

TIME (hr)	GALLONS (cum.)	TEMP. (F)	pH	CONDUCT. (micromho)	TURBIDITY (NTU)
12:18	Start purging MW-2				
12:18	0	71.0	6.35	19.09	42.5
12:27	13	71.0	6.39	18.19	28.1
12:38	26	71.4	6.41	18.50	10.9
12:47	39	71.0	6.42	18.83	4.0
12:49	41				
12:49	Stop purging MW-2				

Notes:

Well Diameter (inches) : 4

Depth to Bottom (feet) : 39.15

Depth to Water - initial (feet) : 19.64

Depth to Water - final (feet) : 19.76

% recovery : 99

Time Sampled : 15:30

Gallons per Well Casing Volume : 12.7

Gallons Purged : 41

Well Casing Volume Purged : 3.2

Approximate Pumping Rate (gpm) : 0.8

WELL PURGE DATA SHEET

Project Name: Exxon 7-7003 Job No. 1300/5.20

Date: 5/12/94 Page 1 of 1

Well No. MW-3 Time Started 13:48

TIME (hr)	GALLONS (cum.)	TEMP. (F)	pH	CONDUCT. (micromho)	TURBIDITY (NTU)
13:48	Start purging MW-3				
13.48	0	70.2	6.40	9.12	5.6
13:56	13	69.5	6.37	9.00	2.6
14:06	26	69.0	6.37	8.45	15.6
14:14	34	69.2	6.38	18.20	10.0
14:20	41	69.0	6.38	18.15	5.9
~~B~~ 14:20	Stop purging MW-3				

Notes:
Conductivity adj (X 100)

Well Diameter (inches) : 4

Depth to Bottom (feet) : 38.91

Depth to Water - initial (feet) : 18.32

Depth to Water - final (feet) : 18.58

% recovery : 99

Time Sampled : 16:00

Gallons per Well Casing Volume : 13.5

Gallons Purged : 41

Well Casing Volume Purged : 3.0

Approximate Pumping Rate (gpm) : 3.0

WELL PURGE DATA SHEET

Project Name: Exxon 7-7003 Job No. 13001.20

Date: 5/13/94 Page 1 of 1

Well No. MW-4 Time Started 11:20

TIME (hr)	GALLONS (cum.)	TEMP. (F)	pH	CONDUCT. (micromho)	TURBIDITY (NTU)
11:20	Start purging MW-4				
11:20	0	70.3	6.54	16.88	4.8
11:32	16	69.9	6.58	17.17	2.2
11:43	32	71.8	6.50	17.76	14.8
	Dry at 32 gallons				
11:43	Stop purging MW-4				

Notes:

Conductivity at (x100)

Well Diameter (inches) : 4

Depth to Bottom (feet) : 47.43

Depth to Water - initial (feet) : 22.30

Depth to Water - final (feet) : 23.48

% recovery : 95

Time Sampled : 15:15

Gallons per Well Casing Volume : 16.4

Gallons Purged : 32

Well Casing Volume Purged : 2.0

Approximate Pumping Rate (gpm) : 1.4

WELL PURGE DATA SHEET

Project Name: Exxon 7-7003 Job No. 1300/5.20

Date: 5/12/94 Page 1 of 1

Well No. MW-5 Time Started 12:02

TIME (hr)	GALLONS (cum.)	TEMP. (F)	pH	CONDUCT. (micromho)	TURBIDITY (NTU)
12:02	Start purging MW-5				
12:02	0	69.1	6.53	1335	190
12:08	8	67.4	6.47	15.09	6.4
12:13	16	67.2	6.41	17.92	5.2
12:20	24	67.4	6.41	8.42	1.5
	26				
12:23	Stop purging MW-5				

Notes:
Conductivity at (X100)

Well Diameter (inches) : 4

Depth to Bottom (feet) : 33.28

Depth to Water - initial (feet) : 20.61

Depth to Water - final (feet) : 20.62

% recovery : 100

Time Sampled : 15:15

Gallons per Well Casing Volume : 8.3

Gallons Purged : 26

Well Casing Volume Purged : 3.1

Approximate Pumping Rate (gpm) : 1.2

WELL PURGE DATA SHEET

Project Name: Exxon 7-7003 Job No. 1300520

Date: 5/12/94 Page 1 of 1

Well No. MW-6 Time Started 10:38

TIME (hr)	GALLONS (cum.)	TEMP. (F)	pH	CONDUCT. (micromho)	TURBIDITY (NTU)
10:38	Start purging MW-6				
10:38	0	70.8	6.40	1376	20.4
10:47	20	69.9	6.56	14.45	5.7
10:56	40	69.3	6.59	14.78	1.4
11:02	30	69.8	6.55	14.95	00.2
11:10	0	70.0	6.52	15.03	00.0
11:12	62				
11:12	Stop purging MW-6				

Notes:
Conductivity at (X100)

Well Diameter (inches) : 4

Depth to Bottom (feet) : 57.93

Depth to Water - initial (feet) : 27.89

Depth to Water - final (feet) : 28.03

% recovery : 100

Time Sampled : 15:00

Gallons per Well Casing Volume : 19.6

Gallons Purged : 62

Well Casing Volume Purged : 3.2

Approximate Pumping Rate (gpm) : 1.4

WELL PURGE DATA SHEET

Project Name: Exxon 7-2003 Job No. 13001520

Date: 5/12/94 Page 1 of 1

Well No. MW-7 Time Started 13:00

TIME (hr)	GALLONS (cum.)	TEMP. (F)	pH	CONDUCT. (micromho)	TURBIDITY (NTU)
13:00	Start purging MW-7				
13:00	0	69.8	6.41	15.66	10.5
13:10	16	69.9	6.46	15.58	6.2
13:19	32	70.6	6.48	14.85	2.1
13:30	40	70.5	6.45	14.97	1.2
13:37	48	70.7	6.47	14.95	1.3
13:37	Stop purging MW-7				

Notes:
Conductivity at (x100)

Well Diameter (inches) : 4

Depth to Bottom (feet) : 44.81

Depth to Water - initial (feet) : 20.32

Depth to Water - final (feet) : 20.37

% recovery : 100

Time Sampled : 15:30

Gallons per Well Casing Volume : 16.0

Gallons Purged : 48.0

Well Casing Volume Purged : 3.0

Approximate Pumping Rate (gpm) : 1.3

WELL PURGE DATA SHEET

Project Name: Exxon 7-7003 Job No. 13005.20

Date: 5/12/94 Page 1 of 1

Well No. MW-8 Time Started 12:06

TIME (hr)	GALLONS (cum.)	TEMP. (F)	pH	CONDUCT. (micromho)	TURBIDITY (NTU)
12:00	Start purging MW-8				
12:06	0	67.4	6.24	19.61	19.6
12:12	2.5	66.6	6.24	18.67	>200
12:18	5.0	66.3	6.31	18.19	>200
12:27	7.5	66.5	6.28	18.27	>200
12:27	Stop purging MW-8				

Notes:
Conductivity at (X100)

Well Diameter (inches) : 4

Depth to Bottom (feet) : 22.74

Depth to Water - initial (feet) : 18.92

Depth to Water - final (feet) : 18.94

% recovery : 100

Time Sampled : 15:20

Gallons per Well Casing Volume : 2.5

Gallons Purged : 7.5

Well Casing Volume Purged : 3.0

Approximate Pumping Rate (gpm) : 0.4

WELL PURGE DATA SHEET

Project Name: Exxon 7-7083 Job No. 1300/5.20

Date: 5/13/94 Page 1 of 1

Well No. ~~MW-~~VE-1 Time Started 12:30

TIME (hr)	GALLONS (cum.)	TEMP. (F)	pH	CONDUCT. (micromho)	TURBIDITY (NTU)
12:30	Start purging ~~MW-~~VE-1				
12:30	0	70.1	6.48	18.66	22.0
12:34	1	69.4	6.43	19.13	>200
12:42	2	69.7	6.45	19.05	>200
12:45	3.5	69.5	6.46	18.78	>200
12:45	Stop purging ~~MW-~~VE-1				

Notes:

Well Diameter (inches) : 2

Depth to Bottom (feet) : 26.66

Depth to Water - initial (feet) : 19.69

Depth to Water - final (feet) : 19.85

% recovery : 98

Time Sampled : 16:00

Gallons per Well Casing Volume : 1.2

Gallons Purged : 3.5

Well Casing Volume Purged : 2.9

Approximate Pumping Rate (gpm) : 0.2

WELL PURGE DATA SHEET

Project Name: Exxon 7-7003 Job No. 13001520

Date: 5/13/94 Page 1 of 1

Well No. ~~MW-~~VE-2 Time Started 12:45

TIME (hr)	GALLONS (cum.)	TEMP. (F)	pH	CONDUCT. (micromho)	TURBIDITY (NTU)
10:45	Start purging ~~MW-~~VE-2				
13:45	0	68.5	6.54	15.51	44.4
13:51	2.5	68.0	6.56	15.98	182.7
13:55	5.5	67.6	6.64	16.30	>200
11:24	8.0	68.5	6.57	17.11	>200
11:42	11.0	68.2	6.60	16.92	>200
11:42	Stop purging ~~MW-~~VE-2				

Notes:

Well Diameter (inches) : 4

Depth to Bottom (feet) : 23.57

Depth to Water - initial (feet) : 19.41

Depth to Water - final (feet) : 19.56

% recovery : 96

Time Sampled : 15:45

Gallons per Well Casing Volume : 2.7

Gallons Purged : 11.0

Well Casing Volume Purged : 4.1

Approximate Pumping Rate (gpm) : 0.2

WELL PURGE DATA SHEET

Project Name: Exxon 7-2003 Job No. 1300/5-20

Date: 5/12/94 Page 1 of 1

Well No. ~~MW-~~VE-3 Time Started 11:47

TIME (hr)	GALLONS (cum.)	TEMP. (F)	pH	CONDUCT. (micromho)	TURBIDITY (NTU)
11:47	Start purging ~~MW-~~VE-3				
11:47	0	70.6	6.80	2.89	29.9
11:51	1.5	69.5	6.79	2.76	>200
11:56	2.5	69.3	6.84	2.72	>200
	Dry at 2.5 gallons				
11:56	Stop purging ~~MW-~~VE-3				

Notes:
Conductivity at (X100)

Well Diameter (inches) : 4

Depth to Bottom (feet) : 22.94

Depth to Water - initial (feet) : 20.58

Depth to Water - final (feet) : 21.92 5/13/94

% recovery : 43

Time Sampled : 14:45 5/13/94

Gallons per Well Casing Volume : 1.5

Gallons Purged : 2.5

Well Casing Volume Purged : 1.7

Approximate Pumping Rate (gpm) : 0.3

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APPENDIX B

LABORATORY ANALYSIS REPORTS AND CHAIN OF CUSTODY RECORDS

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REPORT OF LABORATORY ANALYSIS

May 23, 1994

MAY 1994

SAN

Mr. Marc Briggs
RESNA
42501 Albrae St.
Fremont, CA 94538

RE: PACE Project No. 440516.505
Client Reference: Exxon 7-7003 (EE)

Dear Mr. Briggs:

Enclosed is the report of laboratory analyses for samples received May 16, 1994.

Footnotes are given at the end of the report.

If you have any questions concerning this report, please feel free to contact us.

Sincerely,

Ronald M. Lehew

for Stephanie Matzo
Project Manager

Enclosures

11 Digital Drive
Novato, CA 94949
TEL: 415-883-6100
FAX 415-883-2673

pace INCORPORATED
THE ASSURANCE OF QUALITY

REPORT OF LABORATORY ANALYSIS

RESNA
42501 Albrae St.
Fremont, CA 94538

May 23, 1994
PACE Project Number: 440516505

Attn: Mr. Marc Briggs

Client Reference: Exxon 7-7003 (EE)

PACE Sample Number:			70 0323169	
Date Collected:			05/12/94	
Date Received:			05/16/94	
			RVE-3	
Parameter	Units	MDL		DATE ANALYZED
ORGANIC ANALYSIS				
PURGEABLE FUELS AND AROMATICS				
TOTAL FUEL HYDROCARBONS, (LIGHT):			-	05/19/94
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND	05/19/94
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	05/19/94
Benzene	ug/L	0.5	ND	05/19/94
Toluene	ug/L	0.5	ND	05/19/94
Ethylbenzene	ug/L	0.5	ND	05/19/94
Xylenes, Total	ug/L	0.5	ND	05/19/94

11 Digital Drive
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Mr. Marc Briggs
Page 2

May 23, 1994
PACE Project Number: 440516505

Client Reference: Exxon 7-7003 (EE)

PACE Sample Number:			70 0323177	
Date Collected:			05/13/94	
Date Received:			05/16/94	
Client Sample ID:			W-21-VE3	
Parameter	Units	MDL		DATE ANALYZED
ORGANIC ANALYSIS				
PURGEABLE FUELS AND AROMATICS				
TOTAL FUEL HYDROCARBONS, (LIGHT):			-	05/19/94
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND	05/19/94
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	05/19/94
Benzene	ug/L	0.5	ND	05/19/94
Toluene	ug/L	0.5	ND	05/19/94
Ethylbenzene	ug/L	0.5	ND	05/19/94
Xylenes, Total	ug/L	0.5	ND	05/19/94

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May 23, 1994
PACE Project Number: 440516505

Client Reference: Exxon 7-7003 (EE)

PACE Sample Number:			70 0323185	
Date Collected:			05/12/94	
Date Received:			05/16/94	
Client Sample ID:			W-18-MW8	
Parameter	Units	MDL		DATE ANALYZED
ORGANIC ANALYSIS				
PURGEABLE FUELS AND AROMATICS				
TOTAL FUEL HYDROCARBONS, (LIGHT):			-	05/19/94
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND	05/19/94
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	05/19/94
Benzene	ug/L	0.5	ND	05/19/94
Toluene	ug/L	0.5	1.0	05/19/94
Ethylbenzene	ug/L	0.5	ND	05/19/94
Xylenes, Total	ug/L	0.5	ND	05/19/94

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May 23, 1994
PACE Project Number: 440516505

Client Reference: Exxon 7-7003 (EE)

PACE Sample Number:			70 0323193	
Date Collected:			05/12/94	
Date Received:			05/16/94	
Client Sample ID:			W-20-MW7	
Parameter	Units	MDL		DATE ANALYZED
ORGANIC ANALYSIS				
PURGEABLE FUELS AND AROMATICS				
TOTAL FUEL HYDROCARBONS, (LIGHT):			-	05/19/94
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND	05/19/94
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	05/19/94
Benzene	ug/L	0.5	ND	05/19/94
Toluene	ug/L	0.5	1.1	05/19/94
Ethylbenzene	ug/L	0.5	ND	05/19/94
Xylenes, Total	ug/L	0.5	1.6	05/19/94

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May 23, 1994
PACE Project Number: 440516505

Client Reference: Exxon 7-7003 (EE)

PACE Sample Number:			70 0323207	
Date Collected:			05/12/94	
Date Received:			05/16/94	
Client Sample ID:			W-20-MW5	
Parameter	Units	MDL		DATE ANALYZED
ORGANIC ANALYSIS				
PURGEABLE FUELS AND AROMATICS				
TOTAL FUEL HYDROCARBONS, (LIGHT):			-	05/19/94
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND	05/19/94
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	05/19/94
Benzene	ug/L	0.5	1.7	05/19/94
Toluene	ug/L	0.5	2.3	05/19/94
Ethylbenzene	ug/L	0.5	1.5	05/19/94
Xylenes, Total	ug/L	0.5	9.1	05/19/94

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May 23, 1994
PACE Project Number: 440516505

Client Reference: Exxon 7-7003 (EE)

PACE Sample Number:			70 0323215	
Date Collected:			05/12/94	
Date Received:			05/16/94	
Client Sample ID:			W-18-MW3	
Parameter	Units	MDL		DATE ANALYZED
ORGANIC ANALYSIS				
PURGEABLE FUELS AND AROMATICS				
TOTAL FUEL HYDROCARBONS, (LIGHT):			-	05/19/94
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND	05/19/94
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	05/19/94
Benzene	ug/L	0.5	ND	05/19/94
Toluene	ug/L	0.5	0.8	05/19/94
Ethylbenzene	ug/L	0.5	ND	05/19/94
Xylenes, Total	ug/L	0.5	2.8	05/19/94

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May 23, 1994
PACE Project Number: 440516505

Client Reference: Exxon 7-7003 (EE)

PACE Sample Number:			70 0323223	
Date Collected:			05/13/94	
Date Received:			05/16/94	
Client Sample ID:			W-28-MW6	
Parameter	Units	MDL		DATE ANALYZED
ORGANIC ANALYSIS				
PURGEABLE FUELS AND AROMATICS				
TOTAL FUEL HYDROCARBONS, (LIGHT):			-	05/18/94
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND	05/18/94
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	05/18/94
Benzene	ug/L	0.5	0.6	05/18/94
Toluene	ug/L	0.5	1.0	05/18/94
Ethylbenzene	ug/L	0.5	ND	05/18/94
Xylenes, Total	ug/L	0.5	2.7	05/18/94

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May 23, 1994
PACE Project Number: 440516505

Client Reference: Exxon 7-7003 (EE)

PACE Sample Number:			70 0323231	
Date Collected:			05/13/94	
Date Received:			05/16/94	
Client Sample ID:			W-23-MW4	
Parameter	Units	MDL		DATE ANALYZED
ORGANIC ANALYSIS				
PURGEABLE FUELS AND AROMATICS				
TOTAL FUEL HYDROCARBONS, (LIGHT):			-	05/18/94
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND	05/18/94
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	05/18/94
Benzene	ug/L	0.5	0.8	05/18/94
Toluene	ug/L	0.5	0.9	05/18/94
Ethylbenzene	ug/L	0.5	0.7	05/18/94
Xylenes, Total	ug/L	0.5	6.1	05/18/94
HALOGENATED VOLATILE ORGANICS BY 8010				
VOLATILE HALOCARBONS BY EPA 8010			-	05/20/94
Dichlorodifluoromethane	ug/L	2.0	ND	05/20/94
Chloromethane	ug/L	2.0	ND	05/20/94
Vinyl Chloride	ug/L	2.0	ND	05/20/94
Bromomethane	ug/L	2.0	ND	05/20/94
Chloroethane	ug/L	2.0	ND	05/20/94
Trichlorofluoromethane (Freon 11)	ug/L	2.0	ND	05/20/94
1,1-Dichloroethene	ug/L	0.5	ND	05/20/94
Methylene Chloride	ug/L	2.0	ND	05/20/94
trans-1,2-Dichloroethene	ug/L	0.5	ND	05/20/94
1,1-Dichloroethane	ug/L	0.5	ND	05/20/94
cis-1,2-Dichloroethene	ug/L	0.5	ND	05/20/94
Chloroform	ug/L	0.5	ND	05/20/94
1,1,1-Trichloroethane (TCA)	ug/L	0.5	ND	05/20/94
Carbon Tetrachloride	ug/L	0.5	ND	05/20/94
1,2-Dichloroethane (EDC)	ug/L	0.5	ND	05/20/94
Trichloroethene (TCE)	ug/L	0.5	ND	05/20/94
1,2-Dichloropropane	ug/L	0.5	ND	05/20/94
Bromodichloromethane	ug/L	0.5	ND	05/20/94
Dibromomethane	ug/L	0.5	ND	05/20/94
2-Chloroethylvinyl ether	ug/L	0.5	ND	05/20/94
cis-1,3-Dichloropropene	ug/L	0.5	ND	05/20/94
trans-1,3-Dichloropropene	ug/L	0.5	ND	05/20/94

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PACE Project Number: 440516505

Client Reference: Exxon 7-7003 (EE)

PACE Sample Number:			70 0323231	
Date Collected:			05/13/94	
Date Received:			05/16/94	
Client Sample ID:			W-23-MW4	
Parameter	Units	MDL		DATE ANALYZED
ORGANIC ANALYSIS				
HALOGENATED VOLATILE ORGANICS BY 8010				
1,1,2-Trichloroethane	ug/L	0.5	ND	05/20/94
Tetrachloroethene	ug/L	0.5	ND	05/20/94
Dibromochloromethane	ug/L	0.5	ND	05/20/94
Chlorobenzene	ug/L	0.5	ND	05/20/94
1,1,1,2-Tetrachloroethane	ug/L	0.5	ND	05/20/94
Bromoform	ug/L	0.5	ND	05/20/94
1,1,2,2-Tetrachloroethane	ug/L	0.5	ND	05/20/94
1,2,3-Trichloropropane	ug/L	0.5	ND	05/20/94
Bromobenzene	ug/L	0.5	ND	05/20/94
1,3-Dichlorobenzene	ug/L	0.5	ND	05/20/94
1,4-Dichlorobenzene	ug/L	0.5	ND	05/20/94
Benzyl Chloride	ug/L	0.5	ND	05/20/94
1,2-Dichlorobenzene	ug/L	0.5	ND	05/20/94
Bromochloromethane (Surrogate Recovery)	%		102	05/20/94
1,4-Dichlorobutane (Surrogate Recovery)	%		111	05/20/94

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PACE Project Number: 440516505

Client Reference: Exxon 7-7003 (EE)

PACE Sample Number:			70 0323240	
Date Collected:			05/13/94	
Date Received:			05/16/94	
Client Sample ID:			W-19-MW2	
Parameter	Units	MDL		DATE ANALYZED
ORGANIC ANALYSIS				
PURGEABLE FUELS AND AROMATICS				
TOTAL FUEL HYDROCARBONS, (LIGHT):			-	05/18/94
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	100	05/18/94
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	05/18/94
Benzene	ug/L	0.5	ND	05/18/94
Toluene	ug/L	0.5	0.7	05/18/94
Ethylbenzene	ug/L	0.5	0.6	05/18/94
Xylenes, Total	ug/L	0.5	3.8	05/18/94

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PACE Project Number: 440516505

Client Reference: Exxon 7-7003 (EE)

PACE Sample Number:			70 0323258	
Date Collected:			05/13/94	
Date Received:			05/16/94	
Client Sample ID:			W-19-VE2	
Parameter	Units	MDL		DATE ANALYZED
ORGANIC ANALYSIS				
PURGEABLE FUELS AND AROMATICS				
TOTAL FUEL HYDROCARBONS, (LIGHT):			-	05/18/94
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	250	1900	05/18/94
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	05/18/94
Benzene	ug/L	2.5	19	05/18/94
Toluene	ug/L	2.5	29	05/18/94
Ethylbenzene	ug/L	2.5	66	05/18/94
Xylenes, Total	ug/L	2.5	110	05/18/94

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May 23, 1994
PACE Project Number: 440516505

Client Reference: Exxon 7-7003 (EE)

PACE Sample Number:			70 0323266	
Date Collected:			05/13/94	
Date Received:			05/16/94	
Client Sample ID:			W-19-VE1	
Parameter	Units	MDL		DATE ANALYZED
ORGANIC ANALYSIS				
PURGEABLE FUELS AND AROMATICS				
TOTAL FUEL HYDROCARBONS, (LIGHT):			-	05/18/94
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	970	05/18/94
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	05/18/94
Benzene	ug/L	0.5	0.7	05/18/94
Toluene	ug/L	0.5	ND	05/18/94
Ethylbenzene	ug/L	0.5	56	05/18/94
Xylenes, Total	ug/L	0.5	33	05/18/94

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May 23, 1994
PACE Project Number: 440516505

Client Reference: Exxon 7-7003 (EE)

PACE Sample Number:			70 0323274	
Date Collected:			05/13/94	
Date Received:			05/16/94	
Client Sample ID:			W-20-MW1	
Parameter	Units	MDL		DATE ANALYZED
ORGANIC ANALYSIS				
PURGEABLE FUELS AND AROMATICS				
TOTAL FUEL HYDROCARBONS, (LIGHT):			-	05/18/94
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	4000	05/18/94
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	05/18/94
Benzene	ug/L	0.5	26	05/18/94
Toluene	ug/L	0.5	9.4	05/18/94
Ethylbenzene	ug/L	0.5	400	05/18/94
Xylenes, Total	ug/L	0.5	210	05/18/94
HALOGENATED VOLATILE ORGANICS BY 8010			(1)	
VOLATILE HALOCARBONS BY EPA 8010			-	05/20/94
Dichlorodifluoromethane	ug/L	40	ND	05/20/94
Chloromethane	ug/L	40	ND	05/20/94
Vinyl Chloride	ug/L	40	ND	05/20/94
Bromomethane	ug/L	40	ND	05/20/94
Chloroethane	ug/L	40	ND	05/20/94
Trichlorofluoromethane (Freon 11)	ug/L	40	ND	05/20/94
1,1-Dichloroethene	ug/L	10	ND	05/20/94
Methylene Chloride	ug/L	40	ND	05/20/94
trans-1,2-Dichloroethene	ug/L	10	ND	05/20/94
1,1-Dichloroethane	ug/L	10	ND	05/20/94
cis-1,2-Dichloroethene	ug/L	10	ND	05/20/94
Chloroform	ug/L	10	ND	05/20/94
1,1,1-Trichloroethane (TCA)	ug/L	10	ND	05/20/94
Carbon Tetrachloride	ug/L	10	ND	05/20/94
1,2-Dichloroethane (EDC)	ug/L	10	ND	05/20/94
Trichloroethene (TCE)	ug/L	10	ND	05/20/94
1,2-Dichloropropane	ug/L	10	ND	05/20/94
Bromodichloromethane	ug/L	10	ND	05/20/94
Dibromomethane	ug/L	10	ND	05/20/94
2-Chloroethylvinyl ether	ug/L	10	ND	05/20/94
cis-1,3-Dichloropropene	ug/L	10	ND	05/20/94
trans-1,3-Dichloropropene	ug/L	10	ND	05/20/94

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May 23, 1994
PACE Project Number: 440516505

Client Reference: Exxon 7-7003 (EE)

PACE Sample Number:			70 0323274	
Date Collected:			05/13/94	
Date Received:			05/16/94	
Client Sample ID:			W-20-MW1	
Parameter	Units	MDL		DATE ANALYZED
ORGANIC ANALYSIS				
HALOGENATED VOLATILE ORGANICS BY 8010			(1)	
1,1,2-Trichloroethane	ug/L	10	ND	05/20/94
Tetrachloroethene	ug/L	10	ND	05/20/94
Dibromochloromethane	ug/L	10	ND	05/20/94
Chlorobenzene	ug/L	10	ND	05/20/94
1,1,1,2-Tetrachloroethane	ug/L	10	ND	05/20/94
Bromoform	ug/L	10	ND	05/20/94
1,1,2,2-Tetrachloroethane	ug/L	10	ND	05/20/94
1,2,3-Trichloropropane	ug/L	10	ND	05/20/94
Bromobenzene	ug/L	10	ND	05/20/94
1,3-Dichlorobenzene	ug/L	10	ND	05/20/94
1,4-Dichlorobenzene	ug/L	10	ND	05/20/94
Benzyl Chloride	ug/L	10	ND	05/20/94
1,2-Dichlorobenzene	ug/L	10	ND	05/20/94
Bromochloromethane (Surrogate Recovery)	%		100	05/20/94
1,4-Dichlorobutane (Surrogate Recovery)	%		110	05/20/94
VOLATILE ORGANICS, EPA METHOD 624 GC/MS				
Chloromethane	ug/L	10	ND	05/19/94
Vinyl Chloride	ug/L	10	ND	05/19/94
Bromomethane	ug/L	10	ND	05/19/94
Chloroethane	ug/L	10	ND	05/19/94
Trichlorofluoromethane	ug/L	5	ND	05/19/94
1,1,2-Trichlor-1,2,2-trifluoroethane	ug/L	5	ND	05/19/94
2-Butanone (MEK)	ug/L	50	ND	05/19/94
1,1-Dichloroethene	ug/L	5	ND	05/19/94
Carbon Disulfide	ug/L	5	ND	05/19/94
Acetone	ug/L	50	ND	05/19/94
Methylene Chloride	ug/L	10	ND	05/19/94
trans-1,2-Dichloroethene	ug/L	5	ND	05/19/94
1,1-Dichloroethane	ug/L	5	ND	05/19/94
Chloroform	ug/L	5	ND	05/19/94
1,1,1-Trichloroethane	ug/L	5	ND	05/19/94

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May 23, 1994
PACE Project Number: 440516505

Client Reference: Exxon 7-7003 (EE)

Parameter	Units	MDL		DATE ANALYZED
PACE Sample Number:			70 0323274	
Date Collected:			05/13/94	
Date Received:			05/16/94	
Client Sample ID:			W-20-MW1	
ORGANIC ANALYSIS				
VOLATILE ORGANICS, EPA METHOD 624 GC/MS				
1,2-Dichloroethane	ug/L	5	ND	05/19/94
Vinyl Acetate	ug/L	50	ND	05/19/94
cis-1,2-Dichlorethene	ug/L	5	ND	05/19/94
Carbon Tetrachloride	ug/L	5	ND	05/19/94
Benzene	ug/L	5	22	05/19/94
1,2-Dichloropropane	ug/L	5	ND	05/19/94
Trichloroethene (TCE)	ug/L	5	ND	05/19/94
Bromodichloromethane	ug/L	5	ND	05/19/94
2-Chloroethyl Vinyl Ether	ug/L	10	ND	05/19/94
trans-1,3-Dichloropropene	ug/L	5	ND	05/19/94
4-Methyl-2-pentanone (MIBK)	ug/L	50	ND	05/19/94
Toluene	ug/L	5	9	05/19/94
cis-1,3-Dichloropropene	ug/L	5	ND	05/19/94
1,1,2-Trichloroethane	ug/L	5	ND	05/19/94
Dibromochloromethane	ug/L	5	ND	05/19/94
2-Hexanone	ug/L	50	ND	05/19/94
Tetrachloroethene	ug/L	5	ND	05/19/94
Chlorobenzene	ug/L	5	ND	05/19/94
Ethylbenzene	ug/L	5	490	05/19/94
Bromoform	ug/L	5	ND	05/19/94
Xylene(s) Total	ug/L	5	270	05/19/94
Styrene	ug/L	5	ND	05/19/94
1,1,2,2,-Tetrachloroethane	ug/L	5	ND	05/19/94
1,3-Dichlorobenzene	ug/L	5	ND	05/19/94
1,4-Dichlorobenzene	ug/L	5	ND	05/19/94
1,2-Dichlorobenzene	ug/L	5	ND	05/19/94
1,2-Dichloroethane-d4 (Surrog. Recovery)	%		91	05/19/94
Toluene-d8 (Surrogate Recovery)	%		91	05/19/94
4-Bromofluorobenzene (Surrog.Recovery)	%		105	05/19/94

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Client Reference: Exxon 7-7003 (EE)

Parameter	Units	MDL	70 0323282 05/13/94 05/16/94 W-20-MW1	DATE ANALYZED
PACE Sample Number:				
Date Collected:				
Date Received:				
Client Sample ID:				
INORGANIC ANALYSIS				
INDIVIDUAL PARAMETERS				
Chloride (Argentometric, SM 407A)	mg/L	2.5	120	05/20/94
Hardness, Total, as CaCO3	mg/L	25	400	05/20/94
Solids, Total Dissolved (EPA 160.1)	mg/L	5	670	05/19/94
Specific Conductance, umhos/cm @ 25oC	umhos/cm	3.0	1200	05/18/94
Sulfate (EPA 375.4)	mg/L	6.0	37	05/23/94
pH (Units at 25 Degrees Celsius)	Units	0.1	6.3	05/17/94
ORGANIC LEAD IN WATER; DHS METHOD #338				
Organic Lead, as Pb	mg/L	0.1	ND	05/20/94
CYANIDES IN WATER				
Cyanides, total (EPA 335.2)	mg/L	0.005	ND	05/20/94
Date of Distillation, Cyanides	n/a		051994	05/20/94
ALKALINITY SERIES:				
Total Alkalinity, as CaCO3	mg/L	10	430	05/20/94
Bicarbonate Alkalinity, as CaCO3	mg/L	10	430	05/20/94
Carbonate Alkalinity, as CaCO3	mg/L	10	ND	05/20/94
Hydroxide Alkalinity, as CaCO3	mg/L	10	ND	05/20/94
ORGANIC ANALYSIS				
EXTRACTABLE ORGANICS BY EPA 625 (GC/MS)				
Phenol	ug/L	10	ND	05/20/94
bis(2-Chloroethyl)ether	ug/L	10	ND	05/20/94
2-Chlorophenol	ug/L	10	ND	05/20/94
1,3-Dichlorobenzene	ug/L	10	ND	05/20/94
1,4-Dichlorobenzene	ug/L	10	ND	05/20/94
Benzyl Alcohol	ug/L	20	ND	05/20/94
1,2-Dichlorobenzene	ug/L	10	ND	05/20/94
2-Methylphenol	ug/L	10	ND	05/20/94
bis(2-Chloroisopropyl)ether	ug/L	10	ND	05/20/94
4-Methylphenol	ug/L	10	ND	05/20/94
n-Nitroso-di-n-propylamine	ug/L	10	ND	05/20/94
Hexachloroethane	ug/L	10	ND	05/20/94

Client Reference: Exxon 7-7003 (EE)

PACE Sample Number:			70 0323282	
Date Collected:			05/13/94	
Date Received:			05/16/94	
Client Sample ID:			W-20-MW1	
Parameter	Units	MDL		DATE ANALYZED
ORGANIC ANALYSIS				
EXTRACTABLE ORGANICS BY EPA 625 (GC/MS)				
Nitrobenzene	ug/L	10	ND	05/20/94
Isophorone	ug/L	10	ND	05/20/94
2-Nitrophenol	ug/L	10	ND	05/20/94
2,4-Dimethylphenol	ug/L	10	ND	05/20/94
bis(2-Chloroethoxy)methane	ug/L	10	ND	05/20/94
2,4-Dichlorophenol	ug/L	10	ND	05/20/94
1,2,4-Trichlorobenzene	ug/L	10	ND	05/20/94
Naphthalene	ug/L	10	46	05/20/94
Benzoic Acid	ug/L	50	ND	05/20/94
4-Chloroaniline	ug/L	20	ND	05/20/94
Hexachlorobutadiene	ug/L	10	ND	05/20/94
4-Chloro-3-methylphenol	ug/L	20	ND	05/20/94
2-Methylnaphthalene	ug/L	10	12	05/20/94
Hexachlorocyclopentadiene	ug/L	10	ND	05/20/94
2,4,6-Trichlorophenol	ug/L	10	ND	05/20/94
2,4,5-Trichlorophenol	ug/L	10	ND	05/20/94
2-Chloronaphthalene	ug/L	10	ND	05/20/94
2-Nitroaniline	ug/L	50	ND	05/20/94
Dimethylphthalate	ug/L	10	ND	05/20/94
Acenaphthylene	ug/L	10	ND	05/20/94
2,6-Dinitrotoluene	ug/L	10	ND	05/20/94
3-Nitroaniline	ug/L	50	ND	05/20/94
Acenaphthene	ug/L	10	ND	05/20/94
2,4-Dinitrophenol	ug/L	50	ND	05/20/94
4-Nitrophenol	ug/L	50	ND	05/20/94
Dibenzofuran	ug/L	10	ND	05/20/94
2,4-Dinitrotoluene	ug/L	10	ND	05/20/94
Diethylphthalate	ug/L	10	ND	05/20/94
Fluorene	ug/L	10	ND	05/20/94
4-Chlorophenyl-phenylether	ug/L	10	ND	05/20/94
4-Nitroaniline	ug/L	50	ND	05/20/94

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Client Reference: Exxon 7-7003 (EE)

Parameter	Units	MDL		DATE ANALYZED
PACE Sample Number:			70 0323282	
Date Collected:			05/13/94	
Date Received:			05/16/94	
Client Sample ID:			W-20-MW1	
ORGANIC ANALYSIS				
EXTRACTABLE ORGANICS BY EPA 625 (GC/MS)				
4,6-Dinitro-2-methylphenol	ug/L	50	ND	05/20/94
n-Nitrosodiphenylamine	ug/L	10	ND	05/20/94
4-Bromophenyl-phenylether	ug/L	10	ND	05/20/94
Hexachlorobenzene	ug/L	10	ND	05/20/94
Pentachlorophenol	ug/L	50	ND	05/20/94
Phenanthrene	ug/L	10	ND	05/20/94
Anthracene	ug/L	10	ND	05/20/94
Di-n-butylphthalate	ug/L	10	ND	05/20/94
Fluoranthene	ug/L	10	ND	05/20/94
Pyrene	ug/L	10	ND	05/20/94
Butylbenzylphthalate	ug/L	10	ND	05/20/94
Benzo(a)anthracene	ug/L	10	ND	05/20/94
3,3'-Dichlorobenzidine	ug/L	20	ND	05/20/94
Chrysene	ug/L	10	ND	05/20/94
bis(2-Ethylhexyl)phthalate	ug/L	10	ND	05/20/94
Di-n-octylphthalate	ug/L	10	ND	05/20/94
Benzo(b)fluoranthene	ug/L	10	ND	05/20/94
Benzo(k)fluoranthene	ug/L	10	ND	05/20/94
Benzo(a)pyrene	ug/L	10	ND	05/20/94
Indeno(1,2,3-cd)pyrene	ug/L	10	ND	05/20/94
Dibenzo(a,h)anthracene	ug/L	10	ND	05/20/94
Benzo(g,h,i)perylene	ug/L	10	ND	05/20/94
2-Fluorophenol (surrogate)	%		0	05/20/94
Phenol-d6 (surrogate)	%		1	05/20/94
Nitrobenzene-d5 (surrogate)	%		58	05/20/94
2-Fluorobiphenyl (surrogate)	%		68	05/20/94
2,4,6-Tribromophenol (surrogate)	%		0 (2)	05/20/94
Terphenyl-d14 (surrogate)	%		79	05/20/94
Date Extracted			05/17/94	
OIL AND GREASE, SILICA GEL (LUFT)				
Oil and Grease, Gravimetric (SM5520)	mg/L	5.0	ND	05/18/94

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REPORT OF LABORATORY ANALYSIS

Mr. Marc Briggs
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May 23, 1994
PACE Project Number: 440516505

Client Reference: Exxon 7-7003 (EE)

PACE Sample Number:			70 0323282	
Date Collected:			05/13/94	
Date Received:			05/16/94	
Client Sample ID:			W-20-MW1	
Parameter	Units	MDL		DATE ANALYZED
ORGANIC ANALYSIS				
OIL AND GREASE, SILICA GEL (LUFT)				
Date Extracted			05/18/94	

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Mr. Marc Briggs
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May 23, 1994
PACE Project Number: 440516505

Client Reference: Exxon 7-7003 (EE)

PACE Sample Number:			70 0323290	
Date Collected:			05/13/94	
Date Received:			05/16/94	
Client Sample ID:			W-20-MW1	
Parameter	Units	MDL		DATE ANALYZED
INORGANIC ANALYSIS				
INDIVIDUAL PARAMETERS				
Antimony (EPA Method 6010/200.7, ICP)	mg/L	0.06	ND	05/19/94
Arsenic (EPA Method 7060, Furnace AAS)	mg/L	0.005	ND	05/20/94
Beryllium (EPA Method 6010/200.7, ICP)	mg/L	0.007	ND	05/19/94
Cadmium (EPA Method 6010/200.7, ICP)	mg/L	0.005	ND	05/19/94
Calcium (EPA Method 6010/200.7, ICP)	mg/L	0.05	76	05/19/94
Chromium (EPA Method 6010/200.7, ICP)	mg/L	0.01	ND	05/19/94
Copper (EPA Method 6010/200.7, ICP)	mg/L	0.01	ND	05/19/94
Iron (EPA Method 6010/200.7, ICP)	mg/L	0.1	1.1	05/19/94
Lead (EPA Method 6010/200.7, ICP)	mg/L	0.1	ND	05/19/94
Magnesium (EPA Method 6010/200.7, ICP)	mg/L	0.05	51	05/19/94
Manganese (EPA Method 6010/200.7, ICP)	mg/L	0.02	4.4	05/19/94
Mercury (EPA Method 7470, Cold Vapor AA)	mg/L	0.0002	ND	05/18/94
Nickel (EPA Method 6010/200.7, ICP)	mg/L	0.02	ND	05/19/94

These data have been reviewed and are approved for release.

Darrell C. Cain
Regional Director

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FOOTNOTES
for pages 1 through 20

May 23, 1994
PACE Project Number: 440516505

Client Reference: Exxon 7-7003 (EE)

MDL Method Detection Limit
ND Not detected at or above the MDL.
(1) Sample was diluted due to high levels of hydrocarbons present.
(2) Surrogate recoveries for all three acidic surrogates were below quality control limits in this sample. Results for acidic 625 target compounds should be considered estimated. Results for basic/neutral compounds are not affected.

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QUALITY CONTROL DATA

May 23, 1994
PACE Project Number: 440516505

Client Reference: Exxon 7-7003 (EE)

Arsenic (EPA Method 7060, Furnace AAS)
Batch: 70 30579
Samples: 70 0323290

METHOD BLANK:

Parameter	Units	MDL	Method Blank
Arsenic (EPA Method 7060, Furnace AAS)	mg/L	0.005	ND

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	MDL	Reference Value	Recv	Dupl Recv	RPD
Arsenic (EPA Method 7060, Furnace AAS)	mg/L	0.005	0.040	105%	113%	7%

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QUALITY CONTROL DATA

May 23, 1994
PACE Project Number: 440516505

Client Reference: Exxon 7-7003 (EE)

Cadmium (EPA Method 6010/200.7, ICP)
Batch: 70 30561
Samples: 70 0323290

METHOD BLANK AND SAMPLE DUPLICATE:

Parameter	Units	MDL	Method Blank	700323355	Duplicate of 70 0323355	RPD
Antimony (EPA Method 6010/200.7, ICP)	mg/L	0.06	ND			
Beryllium (EPA Method 6010/200.7, ICP)	mg/L	0.007	ND			
Cadmium (EPA Method 6010/200.7, ICP)	mg/L	0.005	ND	ND	ND	NC
Calcium (EPA Method 6010/200.7, ICP)	mg/L	0.05	ND			
Chromium (EPA Method 6010/200.7, ICP)	mg/L	0.01	ND	0.04	0.05	22%
Copper (EPA Method 6010/200.7, ICP)	mg/L	0.01	ND			
Iron (EPA Method 6010/200.7, ICP)	mg/L	0.1	ND			
Lead (EPA Method 6010/200.7, ICP)	mg/L	0.1	ND			
Magnesium (EPA Method 6010/200.7, ICP)	mg/L	0.05	ND			
Manganese (EPA Method 6010/200.7, ICP)	mg/L	0.02	ND			
Nickel (EPA Method 6010/200.7, ICP)	mg/L	0.02	ND	0.06	0.06	0%
Zinc (EPA Method 6010/200.7, ICP)	mg/L	0.01	ND	0.05	0.06	18%

SPIKE:

Parameter	Units	MDL	700323355	Spike	Spike Recv
Cadmium (EPA Method 6010/200.7, ICP)	mg/L	0.005	ND	0.05	85%
Chromium (EPA Method 6010/200.7, ICP)	mg/L	0.01	0.04	0.2	90%
Nickel (EPA Method 6010/200.7, ICP)	mg/L	0.02	0.06	0.5	90%
Zinc (EPA Method 6010/200.7, ICP)	mg/L	0.01	0.05	0.5	87%

LABORATORY CONTROL SAMPLE:

Parameter	Units	MDL	Reference Value	Recv
Antimony (EPA Method 6010/200.7, ICP)	mg/L	0.06	0.5	98%
Beryllium (EPA Method 6010/200.7, ICP)	mg/L	0.007	0.05	101%
Cadmium (EPA Method 6010/200.7, ICP)	mg/L	0.005	0.05	102%
Calcium (EPA Method 6010/200.7, ICP)	mg/L	0.05	5.0	104%
Chromium (EPA Method 6010/200.7, ICP)	mg/L	0.01	0.2	107%
Copper (EPA Method 6010/200.7, ICP)	mg/L	0.01	0.25	100%
Iron (EPA Method 6010/200.7, ICP)	mg/L	0.1	1.0	104%
Lead (EPA Method 6010/200.7, ICP)	mg/L	0.1	0.5	105%

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QUALITY CONTROL DATA

May 23, 1994
PACE Project Number: 440516505

Client Reference: Exxon 7-7003 (EE)

Cadmium (EPA Method 6010/200.7, ICP)
Batch: 70 30561
Samples: 70 0323290

LABORATORY CONTROL SAMPLE:

Parameter	Units	MDL	Reference Value	Recv
Magnesium (EPA Method 6010/200.7, ICP)	mg/L	0.05	5.0	94%
Manganese (EPA Method 6010/200.7, ICP)	mg/L	0.02	0.5	101%
Nickel (EPA Method 6010/200.7, ICP)	mg/L	0.02	0.5	104%
Zinc (EPA Method 6010/200.7, ICP)	mg/L	0.01	0.5	101%

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QUALITY CONTROL DATA

May 23, 1994
PACE Project Number: 440516505

Client Reference: Exxon 7-7003 (EE)

Chloride (Argentometric, SM 407A)
Batch: 70 30605
Samples: 70 0323282

METHOD BLANK AND SAMPLE DUPLICATE:

Parameter	Units	MDL	Method Blank	700323282 W-20-MW1	Duplicate of 70 0323282	RPD
Chloride (Argentometric, SM 407A)	mg/L	1	ND			
Chloride (Argentometric, SM 407A)	mg/L	2.5		120	120	0%

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	MDL	700323282 W-20-MW1	Spike	Spike Recv	Spike Dupl Recv	RPD
Chloride (Argentometric, SM 407A)	mg/L	2.5	120	125	109%	107%	2%

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QUALITY CONTROL DATA

May 23, 1994
PACE Project Number: 440516505

Client Reference: Exxon 7-7003 (EE)

Hardness, Total, as CaCO3
Batch: 70 30608
Samples: 70 0323282

METHOD BLANK AND SAMPLE DUPLICATE:

Parameter	Units	MDL	Method Blank	700323282 W-20-MW1	Duplicate of 70 0323282	RPD
Hardness, Total, as CaCO3	mg/L	10	ND			
Hardness, Total, as CaCO3	mg/L	25		400	400	0%

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	MDL	700323282 W-20-MW1	Spike	Spike Recv	Spike Dupl Recv	RPD
Hardness, Total, as CaCO3	mg/L	25	400				
Hardness, Total, as CaCO3	mg/L	50		500	101%	101%	0%

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QUALITY CONTROL DATA

May 23, 1994
PACE Project Number: 440516505

Client Reference: Exxon 7-7003 (EE)

Mercury (EPA Method 7470, Cold Vapor AA)
Batch: 70 30546
Samples: 70 0323290

METHOD BLANK AND SAMPLE DUPLICATE:

Parameter	Units	MDL	Method Blank	700323290 W-20-MW1	Duplicate of 70 0323290	RPD
Mercury (EPA Method 7470, Cold Vapor AA	mg/L	0.0002	ND	ND	ND	NC

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	MDL	700323290 W-20-MW1	Spike	Spike Recv	Spike Dupl Recv	RPD
Mercury (EPA Method 7470, Cold Vapor AA	mg/L	0.0002	ND	0.01	87%	90%	3%

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	MDL	Reference Value	Recv	Dupl Recv	RPD
Mercury (EPA Method 7470, Cold Vapor AA	mg/L	0.0002	0.01	100%	97%	3%

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QUALITY CONTROL DATA

May 23, 1994
PACE Project Number: 440516505

Client Reference: Exxon 7-7003 (EE)

Organic Lead, as Pb
Batch: 70 30595
Samples: 70 0323282

METHOD BLANK AND SAMPLE DUPLICATE:

Parameter	Units	MDL	Method Blank	700323282 W-20-MW1	Duplicate of 70 0323282	RPD
Organic Lead, as Pb	mg/L	0.1	ND	ND	ND	NC

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	MDL	700323282 W-20-MW1	Spike	Spike Recv	Spike Dupl Recv	RPD
Organic Lead, as Pb	mg/L	0.1	ND	1.25	60%	60%	0%

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	MDL	Reference Value	Recv	Dupl Recv	RPD
Organic Lead, as Pb	mg/L	0.1	1.25	60%	58%	3%

lcs at 60% from matrix interference. samples are nd. icv/ccv acceptable and calibration is 0.995.

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QUALITY CONTROL DATA

May 23, 1994
PACE Project Number: 440516505

Client Reference: Exxon 7-7003 (EE)

Solids, Total Dissolved (EPA 160.1)
Batch: 70 30577
Samples: 70 0323282

METHOD BLANK AND SAMPLE DUPLICATE:

Parameter	Units	MDL	Method Blank	700323282 W-20-MW1	Duplicate of 70 0323282	RPD
Solids, Total Dissolved (EPA 160.1)	mg/L	5	ND	670	650	3%

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QUALITY CONTROL DATA

May 23, 1994
PACE Project Number: 440516505

Client Reference: Exxon 7-7003 (EE)

Specific Conductance, umhos/cm @ 25oC
Batch: 70 30541
Samples: 70 0323282

METHOD BLANK AND SAMPLE DUPLICATE:

Parameter	Units	MDL	Method Blank	700322014	Duplicate of 70 0322014	RPD
Specific Conductance, umhos/cm @ 25oC	umhos/cm	3.0	ND	23000	23000	0%

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	MDL	Reference Value	Recv	Dupl Recv	RPD
Specific Conductance, umhos/cm @ 25oC	umhos/cm	3.0	1413	96%	96%	0%

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QUALITY CONTROL DATA

May 23, 1994
PACE Project Number: 440516505

Client Reference: Exxon 7-7003 (EE)

Sulfate (EPA 375.4)
Batch: 70 30615
Samples: 70 0323282

METHOD BLANK AND SAMPLE DUPLICATE:

Parameter	Units	MDL	Method Blank	700323282 W-20-MW1	Duplicate of 70 0323282	RPD
Sulfate (EPA 375.4)	mg/L	6.0	ND			
Sulfate (EPA 375.4)	mg/L	6.0		37	36	3%

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	MDL	700323282 W-20-MW1	Spike	Spike Recv	Spike Dupl Recv	RPD
Sulfate (EPA 375.4)	mg/L	6.0	37				
Sulfate (EPA 375.4)	mg/L	15		50.0	108%	106%	2%

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	MDL	Reference Value	Recv	Dupl Recv	RPD
Sulfate (EPA 375.4)	mg/L	6.0	20.0	99%	98%	1%

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QUALITY CONTROL DATA

May 23, 1994
PACE Project Number: 440516505

Client Reference: Exxon 7-7003 (EE)

pH (Units at 25 Degrees Celsius)
Batch: 70 30505
Samples: 70 0323282

SAMPLE DUPLICATE:

Parameter	Units	MDL	700323282 W-20-MW1	Duplicate of 70 0323282	RPD
pH (Units at 25 Degrees Celsius)	Units	0.1	6.3	6.3	0%

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	MDL	Reference Value	Recv	Dupl Recv	RPD
pH (Units at 25 Degrees Celsius)	Units	0.1	7.00	100%	100%	0%

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QUALITY CONTROL DATA

May 23, 1994
PACE Project Number: 440516505

Client Reference: Exxon 7-7003 (EE)

ALKALINITY SERIES:
Batch: 70 30606
Samples: 70 0323282

METHOD BLANK AND SAMPLE DUPLICATE:

Parameter	Units	MDL	Method Blank	700323282 W-20-MW1	Duplicate of 70 0323282	RPD
Total Alkalinity, as CaCO3	mg/L	10	ND	430	420	2%
Bicarbonate Alkalinity, as CaCO3	mg/L	10	ND	430	420	2%
Carbonate Alkalinity, as CaCO3	mg/L	10	ND	ND	ND	NC
Hydroxide Alkalinity, as CaCO3	mg/L	10	ND	ND	ND	NC

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	MDL	700323282 W-20-MW1	Spike	Spike Recv	Spike Dupl Recv	RPD
Total Alkalinity, as CaCO3	mg/L	10	430	473	99%	99%	0%

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QUALITY CONTROL DATA

May 23, 1994
PACE Project Number: 440516505

Client Reference: Exxon 7-7003 (EE)

CYANIDES IN WATER
Batch: 70 30602
Samples: 70 0323282

METHOD BLANK AND SAMPLE DUPLICATE:

Parameter	Units	MDL	Method Blank	700321492	Duplicate of 70 0321492	RPD
Cyanides, total (EPA 335.2)	mg/L	0.005	ND	ND	ND	NC
Date of Distillation, Cyanides	n/a		051994	051994	051994	0%

SPIKE:

Parameter	Units	MDL	700324432	Spike	Spike Recv
Cyanides, total (EPA 335.2)	mg/L	0.005	ND	0.0500	87%

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	MDL	Reference Value	Recv	Dupl Recv	RPD
Cyanides, total (EPA 335.2)	mg/L	0.005	0.0500	99%	99%	0%

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QUALITY CONTROL DATA

May 23, 1994
PACE Project Number: 440516505

Client Reference: Exxon 7-7003 (EE)

EXTRACTABLE ORGANICS BY EPA 625 (GC/MS)
Batch: 70 30630
Samples: 70 0323282

METHOD BLANK:

Parameter	Units	MDL	Method Blank
Phenol	ug/L	10	ND
bis(2-Chloroethyl)ether	ug/L	10	ND
2-Chlorophenol	ug/L	10	ND
1,3-Dichlorobenzene	ug/L	10	ND
1,4-Dichlorobenzene	ug/L	10	ND
Benzyl Alcohol	ug/L	20	ND
1,2-Dichlorobenzene	ug/L	10	ND
2-Methylphenol	ug/L	10	ND
bis(2-Chloroisopropyl)ether	ug/L	10	ND
4-Methylphenol	ug/L	10	ND
n-Nitroso-di-n-propylamine	ug/L	10	ND
Hexachloroethane	ug/L	10	ND
Nitrobenzene	ug/L	10	ND
Isophorone	ug/L	10	ND
2-Nitrophenol	ug/L	10	ND
2,4-Dimethylphenol	ug/L	10	ND
bis(2-Chloroethoxy)methane	ug/L	10	ND
2,4-Dichlorophenol	ug/L	10	ND
1,2,4-Trichlorobenzene	ug/L	10	ND
Naphthalene	ug/L	10	ND
Benzoic Acid	ug/L	50	ND
4-Chloroaniline	ug/L	20	ND
Hexachlorobutadiene	ug/L	10	ND
4-Chloro-3-methylphenol	ug/L	20	ND
2-Methylnaphthalene	ug/L	10	ND
Hexachlorocyclopentadiene	ug/L	10	ND
2,4,6-Trichlorophenol	ug/L	10	ND
2,4,5-Trichlorophenol	ug/L	10	ND
2-Chloronaphthalene	ug/L	10	ND
2-Nitroaniline	ug/L	50	ND
Dimethylphthalate	ug/L	10	ND
Acenaphthylene	ug/L	10	ND

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QUALITY CONTROL DATA

May 23, 1994
PACE Project Number: 440516505

Client Reference: Exxon 7-7003 (EE)

EXTRACTABLE ORGANICS BY EPA 625 (GC/MS)
Batch: 70 30630
Samples: 70 0323282

METHOD BLANK:

Parameter	Units	MDL	Method Blank
2,6-Dinitrotoluene	ug/L	10	ND
3-Nitroaniline	ug/L	50	ND
Acenaphthene	ug/L	10	ND
2,4-Dinitrophenol	ug/L	50	ND
4-Nitrophenol	ug/L	50	ND
Dibenzofuran	ug/L	10	ND
2,4-Dinitrotoluene	ug/L	10	ND
Diethylphthalate	ug/L	10	ND
Fluorene	ug/L	10	ND
4-Chlorophenyl-phenylether	ug/L	10	ND
4-Nitroaniline	ug/L	50	ND
4,6-Dinitro-2-methylphenol	ug/L	50	ND
n-Nitrosodiphenylamine	ug/L	10	ND
4-Bromophenyl-phenylether	ug/L	10	ND
Hexachlorobenzene	ug/L	10	ND
Pentachlorophenol	ug/L	50	ND
Phenanthrene	ug/L	10	ND
Anthracene	ug/L	10	ND
Di-n-butylphthalate	ug/L	10	ND
Fluoranthene	ug/L	10	ND
Pyrene	ug/L	10	ND
Butylbenzylphthalate	ug/L	10	ND
Benzo(a)anthracene	ug/L	10	ND
3,3'-Dichlorobenzidine	ug/L	20	ND
Chrysene	ug/L	10	ND
bis(2-Ethylhexyl)phthalate	ug/L	10	ND
Di-n-octylphthalate	ug/L	10	ND
Benzo(b)fluoranthene	ug/L	10	ND
Benzo(k)fluoranthene	ug/L	10	ND
Benzo(a)pyrene	ug/L	10	ND
Indeno(1,2,3-cd)pyrene	ug/L	10	ND
Dibenzo(a,h)anthracene	ug/L	10	ND

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QUALITY CONTROL DATA

May 23, 1994
PACE Project Number: 440516505

Client Reference: Exxon 7-7003 (EE)

EXTRACTABLE ORGANICS BY EPA 625 (GC/MS)
Batch: 70 30630
Samples: 70 0323282

METHOD BLANK:

Parameter	Units	MDL	Method Blank
Benzo(g,h,i)perylene	ug/L	10	ND
2-Fluorophenol (surrogate)	%		65
Phenol-d6 (surrogate)	%		71
Nitrobenzene-d5 (surrogate)	%		77
2-Fluorobiphenyl (surrogate)	%		73
2,4,6-Tribromophenol (surrogate)	%		60
Terphenyl-d14 (surrogate)	%		68

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	MDL	Reference Value	Recv	Dupl Recv	RPD
Phenol	ug/L	10	150	69%	67%	3%
2-Chlorophenol	ug/L	10	150	69%	67%	3%
1,4-Dichlorobenzene	ug/L	10	100	60%	63%	5%
n-Nitroso-di-n-propylamine	ug/L	10	100	103%	93%	10%
1,2,4-Trichlorobenzene	ug/L	10	100	68%	69%	1%
4-Chloro-3-methylphenol	ug/L	20	150	93%	86%	8%
Acenaphthene	ug/L	10	100	82%	77%	6%
4-Nitrophenol	ug/L	50	150	88%	80%	10%
2,4-Dinitrotoluene	ug/L	10	100	92%	83%	10%
Pentachlorophenol	ug/L	50	150	54%	57%	5%
Pyrene	ug/L	10	100	79%	73%	8%

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QUALITY CONTROL DATA

May 23, 1994
PACE Project Number: 440516505

Client Reference: Exxon 7-7003 (EE)

HALOGENATED VOLATILE ORGANICS 8010/8020
Batch: 70 30594
Samples: 70 0323231, 70 0323274

METHOD BLANK:

Parameter	Units	MDL	Method Blank
VOLATILE HALOCARBONS BY EPA 8010			-
Dichlorodifluoromethane	ug/L	2.0	ND
Chloromethane	ug/L	2.0	ND
Vinyl Chloride	ug/L	2.0	ND
Bromomethane	ug/L	2.0	ND
Chloroethane	ug/L	2.0	ND
Trichlorofluoromethane (Freon 11)	ug/L	2.0	ND
FREON 113	ug/L	1.0	ND
1,1-Dichloroethene	ug/L	0.5	ND
Methylene Chloride	ug/L	2.0	ND
trans-1,2-Dichloroethene	ug/L	0.5	ND
1,1-Dichloroethane	ug/L	0.5	ND
cis-1,2-Dichloroethene	ug/L	0.5	ND
Chloroform	ug/L	0.5	ND
1,1,1-Trichloroethane (TCA)	ug/L	0.5	ND
Carbon Tetrachloride	ug/L	0.5	ND
1,2-Dichloroethane (EDC)	ug/L	0.5	ND
Trichloroethene (TCE)	ug/L	0.5	ND
1,2-Dichloropropane	ug/L	0.5	ND
Bromodichloromethane	ug/L	0.5	ND
Dibromomethane	ug/L	0.5	ND
2-Chloroethylvinyl ether	ug/L	0.5	ND
cis-1,3-Dichloropropene	ug/L	0.5	ND
trans-1,3-Dichloropropene	ug/L	0.5	ND
1,1,2-Trichloroethane	ug/L	0.5	ND
Tetrachloroethene	ug/L	0.5	ND
Dibromochloromethane	ug/L	0.5	ND
Chlorobenzene	ug/L	0.5	ND
1,1,1,2-Tetrachloroethane	ug/L	0.5	ND
Bromoform	ug/L	0.5	ND
1,1,2,2-Tetrachloroethane	ug/L	0.5	ND
1,2,3-Trichloropropane	ug/L	0.5	ND

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Mr. Marc Briggs QUALITY CONTROL DATA May 23, 1994
Page 39 PACE Project Number: 440516505

Client Reference: Exxon 7-7003 (EE)

HALOGENATED VOLATILE ORGANICS 8010/8020
Batch: 70 30594
Samples: 70 0323231, 70 0323274

METHOD BLANK:

Parameter	Units	MDL	Method Blank
Bromobenzene	ug/L	0.5	ND
1,3-Dichlorobenzene	ug/L	0.5	ND
1,4-Dichlorobenzene	ug/L	0.5	ND
Benzyl Chloride	ug/L	0.5	ND
1,2-Dichlorobenzene	ug/L	0.5	ND
Bromochloromethane (Surrogate Recovery)	%		103
1,4-Dichlorobutane (Surrogate Recovery)	%		106
VOLATILE AROMATICS BY EPA 8020			-
Benzene	ug/L	0.3	ND
Toluene	ug/L	0.3	ND
Chlorobenzene	ug/L	0.5	ND
Ethylbenzene	ug/L	0.5	ND
Xylenes, Total	ug/L	0.5	ND
1,3-Dichlorobenzene	ug/L	0.5	ND
1,4-Dichlorobenzene	ug/L	0.5	ND
1,2-Dichlorobenzene	ug/L	0.5	ND
a,a,a-Trifluorotoluene (Surro. Recovery	%		99

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	MDL	700321921	Spike	Spike Recv	Spike Dupl Recv	RPD
1,1-Dichloroethane	ug/L	0.5	ND	20	120%	115%	4%
Trichloroethene (TCE)	ug/L	0.5	ND	20	125%	115%	8%
1,1,2-Trichloroethane	ug/L	0.5	ND	20	90%	134%	39%
Tetrachloroethene	ug/L	0.5	ND	20	122%	110%	10%
Benzene	ug/L	0.3	ND	20	119%	114%	4%
Toluene	ug/L	0.3	ND	20	117%	113%	3%
Xylenes, Total	ug/L	0.5	ND	60	115%	111%	4%

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QUALITY CONTROL DATA

May 23, 1994
PACE Project Number: 440516505

Client Reference: Exxon 7-7003 (EE)

HALOGENATED VOLATILE ORGANICS 8010/8020
Batch: 70 30594
Samples: 70 0323231, 70 0323274

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	MDL	Reference Value	Recv	Dupl Recv	RPD
1,1-Dichloroethane	ug/L	0.5	20	112%	102%	9%
Trichloroethene (TCE)	ug/L	0.5	20	107%	151%	34%
1,1,2-Trichloroethane	ug/L	0.5	20	119%	101%	16%
Tetrachloroethene	ug/L	0.5	20	107%	106%	1%
Benzene	ug/L	0.3	20	111%	104%	7%
Toluene	ug/L	0.3	20	108%	104%	4%
Xylenes, Total	ug/L	0.5	60	108%	102%	6%

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QUALITY CONTROL DATA

May 23, 1994
PACE Project Number: 440516505

Client Reference: Exxon 7-7003 (EE)

OIL AND GREASE, SILICA GEL (LUFT)
Batch: 70 30635
Samples: 70 0323282

METHOD BLANK:

Parameter	Units	MDL	Method Blank
Oil and Grease, Gravimetric (SM5520)	mg/L	5.0	ND

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	MDL	Reference Value	Recv	Dupl Recv	RPD
Oil and Grease, Gravimetric (SM5520)	mg/L	5.0	20	100%	100%	0%

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QUALITY CONTROL DATA

May 23, 1994
PACE Project Number: 440516505

Client Reference: Exxon 7-7003 (EE)

PURGEABLE FUELS AND AROMATICS
Batch: 70 30589
Samples: 70 0323223, 70 0323231, 70 0323240, 70 0323258, 70 0323266
70 0323274

METHOD BLANK:

Parameter	Units	MDL	Method Blank
TOTAL FUEL HYDROCARBONS, (LIGHT):			-
Purgeable Fuels, as Gasoline (EPA 8015M	ug/L	50	ND
PURGEABLE AROMATICS (BTXE BY EPA 8020M)			-
Benzene	ug/L	0.5	ND
Toluene	ug/L	0.5	ND
Ethylbenzene	ug/L	0.5	ND
Xylenes, Total	ug/L	0.5	ND

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	MDL	700323231 W-23-MW4	Spike	Spike Recv	Spike Dupl Recv	RPD
Purgeable Fuels, as Gasoline (EPA 8015M	ug/L	50	ND	1000	105%	98%	7%

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	MDL	Reference Value	Recv	Dupl Recv	RPD
Purgeable Fuels, as Gasoline (EPA 8015M	ug/L	50	1000	90%	93%	3%

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QUALITY CONTROL DATA

May 23, 1994
PACE Project Number: 440516505

Client Reference: Exxon 7-7003 (EE)

PURGEABLE FUELS AND AROMATICS
Batch: 70 30613
Samples: 70 0323169, 70 0323177, 70 0323185, 70 0323193, 70 0323207
70 0323215

METHOD BLANK:

Parameter	Units	MDL	Method Blank
TOTAL FUEL HYDROCARBONS, (LIGHT):			-
Purgeable Fuels, as Gasoline (EPA 8015M	ug/L	50	ND
PURGEABLE AROMATICS (BTXE BY EPA 8020M)			-
Benzene	ug/L	0.5	ND
Toluene	ug/L	0.5	ND
Ethylbenzene	ug/L	0.5	ND
Xylenes, Total	ug/L	0.5	ND

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	MDL	700323169 RVE-3	Spike	Spike Recv	Spike Dupl Recv	RPD
Benzene	ug/L	0.5	ND	100	100%	98%	2%
Toluene	ug/L	0.5	ND	100	104%	101%	3%
Ethylbenzene	ug/L	0.5	ND	100	107%	104%	3%
Xylenes, Total	ug/L	0.5	ND	300	105%	102%	3%

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	MDL	Reference Value	Recv	Dupl Recv	RPD
Benzene	ug/L	0.5	100	94%	96%	2%
Toluene	ug/L	0.5	100	93%	95%	2%
Ethylbenzene	ug/L	0.5	100	90%	91%	1%
Xylenes, Total	ug/L	0.5	300	90%	89%	1%

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QUALITY CONTROL DATA

May 23, 1994
PACE Project Number: 440516505

Client Reference: Exxon 7-7003 (EE)

VOLATILE ORGANICS, EPA METHOD 624 GC/MS
Batch: 70 30550
Samples: 70 0323274

METHOD BLANK:

Parameter	Units	MDL	Method Blank
Chloromethane	ug/L	10	ND
Vinyl Chloride	ug/L	10	ND
Bromomethane	ug/L	10	ND
Chloroethane	ug/L	10	ND
Trichlorofluoromethane	ug/L	5	ND
1,1,2-Trichlor-1,2,2-trifluoroethane	ug/L	5	ND
2-Butanone (MEK)	ug/L	50	ND
1,1-Dichloroethene	ug/L	5	ND
Carbon Disulfide	ug/L	5	ND
Acetone	ug/L	50	ND
Methylene Chloride	ug/L	10	ND
trans-1,2-Dichloroethene	ug/L	5	ND
1,1-Dichloroethane	ug/L	5	ND
Chloroform	ug/L	5	ND
1,1,1-Trichloroethane	ug/L	5	ND
1,2-Dichloroethane	ug/L	5	ND
Vinyl Acetate	ug/L	50	ND
cis-1,2-Dichlorethene	ug/L	5	ND
Carbon Tetrachloride	ug/L	5	ND
Benzene	ug/L	5	ND
1,2-Dichloropropane	ug/L	5	ND
Trichloroethene (TCE)	ug/L	5	ND
Bromodichloromethane	ug/L	5	ND
2-Chloroethyl Vinyl Ether	ug/L	10	ND
trans-1,3-Dichloropropene	ug/L	5	ND
4-Methyl-2-pentanone (MIBK)	ug/L	50	ND
Toluene	ug/L	5	ND
cis-1,3-Dichloropropene	ug/L	5	ND
1,1,2-Trichloroethane	ug/L	5	ND
Dibromochloromethane	ug/L	5	ND
2-Hexanone	ug/L	50	ND
Tetrachloroethene	ug/L	5	ND

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

May 23, 1994
PACE Project Number: 440516505

Client Reference: Exxon 7-7003 (EE)

VOLATILE ORGANICS, EPA METHOD 624 GC/MS
Batch: 70 30550
Samples: 70 0323274

METHOD BLANK:

Parameter	Units	MDL	Method Blank
Chlorobenzene	ug/L	5	ND
Ethylbenzene	ug/L	5	ND
Bromoform	ug/L	5	ND
Xylene(s) Total	ug/L	5	ND
Styrene	ug/L	5	ND
1,1,2,2,-Tetrachloroethane	ug/L	5	ND
1,3-Dichlorobenzene	ug/L	5	ND
1,4-Dichlorobenzene	ug/L	5	ND
1,2-Dichlorobenzene	ug/L	5	ND
1,2-Dichloroethane-d4 (Surrog. Recovery	%		97
Toluene-d8 (Surrogate Recovery)	%		99
4-Bromofluorobenzene (Surrog.Recovery)	%		110

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	MDL	700321468	Spike	Spike Recv	Spike Dupl Recv	RPD
1,1-Dichloroethene	ug/L	5	ND	20	116%	114%	2%
Benzene	ug/L	5	ND	20	119%	120%	1%
Trichloroethene (TCE)	ug/L	5	ND	20	104%	104%	0%
Toluene	ug/L	5	ND	20	108%	108%	0%
Chlorobenzene	ug/L	5	ND	20	112%	112%	0%

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	MDL	Reference Value	Recv	Dupl Recv	RPD
1,1-Dichloroethene	ug/L	5	20	103%	103%	0%
Benzene	ug/L	5	20	114%	120%	5%
Trichloroethene (TCE)	ug/L	5	20	101%	105%	4%
Toluene	ug/L	5	20	103%	108%	5%
Chlorobenzene	ug/L	5	20	107%	111%	4%

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FOOTNOTES
for pages 22 through 45

May 23, 1994
PACE Project Number: 440516505

Client Reference: Exxon 7-7003 (EE)

MDL	Method Detection Limit
NC	No calculation due to value below detection limit.
ND	Not detected at or above the MDL.
RPD	Relative Percent Difference

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[ ] Huntington Beach, CA, 5702 Bolsa Avenue, 92649 (714) 892-2565

Consultant's Name: RESNA — Page 1 of 3

Address: 3315 Almaden Expwy #34 San Jose CA 95118 — Site Location: 349 Main St.

Project #: — Consultant Project #: 130015.30 — Consultant Work Release #: 09300255/20#3

Project Contact: Jeane Bickthal/Mark Boggs — Phone #: (408) 264-7723 — Fax #: 264-2435 — Laboratory Work Release #:

EXXON Contact: Marla Guensler [✓] EE [ ] C&M — Phone #: (510) 246-8776 — Fax #: — EXXON RAS #: 7-7003

Sampled by (print): Chris Allen — Sampler's Signature:

Shipment Method: Courier — Air Bill #: — Shipment Date:

TAT: [ ] 24 hr [ ] 48 hr [ ] 72 hr [✓] Standard (5 day)

Sample Condition as Received
Temperature ° C: ____
Cooler #: ____
Inbound Seal Yes No
Outbound Seal Yes No

Sample Description	Collection Date/Time	Matrix Soil/Water	Prsv	# of Cont	PACE Sample #	TPH/GAS/BTEX EPA 8015/8020	TPH/Diesel EPA 8015	TRPH EPA 418.1	Hold									COMMENTS
Rinsate	5/12/94	H2O	HCL	2	32310.0				X									
RVE-3	"		"	2	32316.9	X												
W-21-VE3	5/13/94		"	3	32317.7	X												
R8	5/12/94		"	2	32311.8				X									
W-18-MW8	"		"	3	32318.5	X												
R7	"		"	2	32312.6				X									
W-20-MW7	"		"	3	32319.3	X												
R5	"		"	2	32313.4				X									
W-20-MW5	"		"	3	32320.7	X												
R3	"	↓	"	2	32314.2				X									

Relinquished by/Affiliation	Date	Time	Accepted by/Affiliation	Date	Time
Chris Allen	5/16/94	10:00	[illegible] Pace	5/16/94	1423
[illegible] Pace	5/16	1745	[illegible] Pace	5/16/94	17:45

Additional Comments: 10/2, G/3, M/3

Distribution: White - Original Yellow - Exxon Pink - Lab Goldenrod - Consultant Field Staff

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Consultant's Name: RESNA

Address: 3315 Almaden Expwy #34 San Jose CA 95118

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Project #:

Site Location: 349 Main St.

Consultant Project #: 130015.20

Project Contact: Joann Buchthal/Mark Briggs

Consultant Work Release #: 89300255/CO#3

Phone #: (408) 264-7723 Fax #: 264-2435

EXXON Contact: Marla Guensler ☐ EE ☐ C&M

Laboratory Work Release #:

Phone #: (510) 246-8776 Fax #:

Sampled by (print): Chris Allen

EXXON RAS #: 7-2003

Sampler's Signature: Chris Allen

Shipment Method: Courier

Air Bill #:

Shipment Date:

TAT: ☐ 24 hr ☐ 48 hr ☐ 72 hr ☑ Standard (5 day)

ANALYSIS REQUIRED

Sample Description	Collection Date/Time	Matrix Soil/Water	Prsv	# of Cont	PACE Sample #	TPH/GAS/BTEX EPA 8015/8020	TPH/Diesel EPA 8015	TRPH EPA 418.1	Hold	VOC's	EPA method 601	EPA method 624	EPA method 625	EPA standard method 5520	Organic lead	Cyanide	pH, alkalinity
w-R-mw3	5/2/94	H2O	HCl	3	32321.5	X											
R6	5/3/94	↓	"	2	32315.0				X								
w-28-mw6	"		"	3	32322.3	X											
w-23-mw4	"		"	6	32323.1	X				X							
w-R-mw2	"		"	3	32324.0	X											
w-19-VE-2	"		"	3	32325.8	X											
w-R-VE-1	"		"	3	32326.6	X											
w-20-mw1	"		"	12	32327A	X				X	X	X					
w-20-mw1	"		—	3	32328.2								X	X	X		
w-20-mw1	"	↓	—	2												X	X

Sample Condition as Received
Temperature ° C: ____
Cooler #: ____
Inbound Seal Yes No
Outbound Seal Yes No

COMMENTS

Ph
#32327.4 per SAM
reference #430920.503
RUN: 931btx, VOC=8010,
delete 601, RUN 624
as 8240. #32328.2
625=8270.
Ph~7
~7
~7

Relinquished by/Affiliation	Date	Time	Accepted by/Affiliation	Date	Time
Chris Allen	5/6/94	10:00	Ed Walker / Pace	5/6/94	1423
Ed Walker - Pace	5/6	1745	[illegible] Pace	5/16/94	17:45

Additional Comments: 10/2

Distribution: White - Original Yellow - Exxon Pink - Lab Goldenrod - Consultant Field Staff

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Consultant's Name: RESNA — Page 3 of 3

Address: 3315 Almaden Expwy. #34 San Jose CA 95118 — Site Location: 349 Main St.

Project #: — Consultant Project #: 130015.20 — Consultant Work Release #: 09300255/0 #

Project Contact: Joane Buckthal / Mark Briggs — Phone #: (408) 264-7723 Fax #: 264-2435 — Laboratory Work Release #:

EXXON Contact: Marla Guensler [✓] EE [ ] C&M — Phone #: (510) 246-8776 Fax #: — EXXON RAS #: 7-7003

Sampled by (print): Chris Allen — Sampler's Signature: Chris Allen

Shipment Method: Courier — Air Bill #: — Shipment Date:

TAT: [ ] 24 hr [ ] 48 hr [ ] 72 hr [✓] Standard (5 day)

Sample Condition as Received: Temperature ° C: ____ Cooler #: ____ Inbound Seal Yes No; Outbound Seal Yes No

ANALYSIS REQUIRED

Sample Description	Collection Date/Time	Matrix Soil/Water	Prsv	# of Cont	PACE Sample #	TPH/GAS/BTEX EPA 8015/8020	TPH/Diesel EPA 8015	TRPH EPA 418.1	Wet chemistry	Metals*						pH		COMMENTS
6-20-MW1	5/13/94	H_2O	—	2	323279.0 (Metals# only)				X	X						~7		*metals = Sb, Be, Cd, Ca, Cr, Cu, Fe, Pb, Mg, Mn, Ni (ICP), As (HAA) + Hg (CV) per SAM reference #430920503.#15/17; Wet Chem = SO4, Cond, TDS, Hardness, Chloride per SAM

Relinquished by/Affiliation	Date	Time	Accepted by/Affiliation	Date	Time
Chris Allen	5/16/94	10:30	Ed Watts · Pace	5/16/94	1423
Ed Watts Pace	5/16	1745	[signature] Pace	5/16/94	17:45

Additional Comments: reference # 430920.503 #15/17; 10/2

Distribution: White - Original; Yellow - Exxon; Pink - Lab; Goldenrod - Consultant Field Staff