RESNA
Working To Restore Nature

3315 Almaden Expressway, Suite 34
San Jose, CA 95118
Phone: (408) 264-7723
FAX: (408) 264-2435

LETTER REPORT
QUARTERLY GROUNDWATER MONITORING
Fourth Quarter 1993
at
Exxon Station 7-7003
349 Main Street
Pleasanton, California

130015.01

12-27-93

RESNA
Working To Restore Nature

3315 Almaden Expressway, Suite 34
San Jose, CA 95118
Phone: (408) 264-7723
FAX: (408) 264-2435

December 27, 1993
0927MGUE
130015.01

Ms. Marla D. Guensler
Exxon Company U.S.A.
2300 Clayton Road, Suite 1250
P.O. Box 4032
Concord, California 94520

Subject: Letter Report, Quarterly Groundwater Monitoring, Fourth Quarter 1993 at Exxon Station 7-7003, 349 Main Street, Pleasanton, California

Ms. Guensler:

As requested by Exxon Company U.S.A. (Exxon), this letter report summarizes the methods and results of the fourth quarter 1993 groundwater monitoring performed by RESNA Industries Inc. (RESNA) at the above-referenced subject site. The Exxon site is located at 349 Main Street on the southwestern corner of the intersection of Angela and Main Streets in Pleasanton, California, as shown on Plate 1, Site Vicinity Map.

The objectives of this quarterly monitoring are to evaluate the groundwater flow direction and gradient, and trends in concentrations of gasoline hydrocarbons in the local groundwater associated with former and existing used-oil, and three former and existing gasoline, underground storage tanks (USTs) at the site.

Prior to the present monitoring, RESNA, formerly Applied GeoSystems (AGS), performed an environmental investigation related to the removal and replacement of three gasoline USTs and one used-oil UST in August 1989 (AGS, October 1, 1989). Additionally, RESNA performed an environmental investigation between January and June 1990 that included drilling 13 boreholes around the former gasoline UST location and adjacent to the former used-oil UST, installing groundwater monitoring wells MW-1 through MW-5 in five of the boreholes, and analyzing soil and groundwater samples (AGS, August 1, 1990). AGS drilled five boreholes north and northwest of the former gasoline USTs and installed groundwater monitoring wells MW-6 and MW-7, and vapor extraction well VE-1 between February and March 1991 (AGS, October 24, 1991). Quarterly monitoring at the site began in the first quarter 1990 (AGS, August 1, 1990). RESNA is currently conducting an interim remedial investigation which included the installation of one groundwater monitoring well (MW-8)

and two vapor extraction wells (VE-2 and VE-3), a vapor extraction test, and a pumping test. The report will be sent under separate cover. The results of previous environmental investigations performed at the site are presented in the reports listed in the references section. The locations of the groundwater monitoring wells and pertinent site features are shown on the Generalized Site Plan (Plate 2).

Groundwater Sampling and Gradient Evaluation not Sampled

For the latest quarterly groundwater monitoring, RESNA personnel collected groundwater monitoring data from groundwater monitoring wells MW-1 through MW-8, and vapor extraction wells VE-1 through VE-3 on November 17 and 18, 1993. During field work at the site, RESNA personnel measured depth to water (DTW) levels in the groundwater monitoring wells and vapor extraction wells, subjectively analyzed water from the wells for the presence of free-phase hydrocarbons, and purged and sampled groundwater from the eight groundwater monitoring wells and three vapor extraction wells. Field methods used by RESNA personnel are described RESNA's Groundwater Sampling Protocol (RESNA, August 2, 1993). Vapor well VW-3 did not recover to 80% of the initial DTW after purging and was not sampled.

RESNA calculated groundwater elevations for each well by subtracting the measured DTW from the elevation of the wellhead. The measured DTW levels, wellhead elevations, and groundwater elevations for this and previous quarterly monitoring at the site are summarized in Table 1, Cumulative Groundwater Monitoring Data. Based on the November 17, 1993, groundwater elevation data, the interpreted local groundwater gradient and flow direction is approximately 0.08 toward the northwest. The Groundwater Gradient Map (Plate 3) shows the interpreted local groundwater gradient for this quarter, which is generally consistent with those previously interpreted.

No evidence of free-phase hydrocarbons or hydrocarbon odor was observed in the water samples collected for subjective analysis from the eight groundwater monitoring wells and three vapor extraction wells. Results of the subjective analyses are summarized in Table 1.

The eight groundwater monitoring wells and three vapor extraction wells were purged and sampled in accordance with RESNA's Groundwater Sampling Protocol (RESNA, August 2, 1993). Well purge data sheets reporting the monitored parameters, temperature, pH, conductivity, and turbidity, for groundwater monitoring wells MW-1 through MW-8 and vapor extraction wells VE-1 through VE-3 are included on the Well Purge Data Sheets in Appendix A.

Results of Laboratory Analysis

Groundwater samples from the eight groundwater monitoring wells and two vapor extraction wells were analyzed for total petroleum hydrocarbons as gasoline (TPHg) and the gasoline constituents benzene, toluene, ethylbenzene, and total xylenes (BTEX) using modified Environmental Protection Agency (EPA) Methods 5030/8015/8020. In addition, groundwater from wells MW-1 and MW-4 were analyzed for volatile organic compounds (VOCs) using EPA Method 8010. The samples were analyzed by Pace Incorporated laboratories (California State Certification Number 1282) in Novato, California. The chain of custody record and laboratory analysis sheets for the monitoring wells included in Appendix B.

The chemical analytical results of this and previous, quarterly monitoring events are summarized in Table 2, Cumulative Results of Laboratory Analyses of Groundwater Samples. Graphic representations of TPHg and benzene concentrations in the local groundwater for this quarter are shown on Plate 4, Hydrocarbons and Volatile Organic Compounds in Groundwater.

Results of this quarter's laboratory analyses of groundwater samples from groundwater monitoring wells MW-1 through MW-8, and vapor extraction wells VE-1 and VE-2 indicate:

- TPHg was not detected at the method detection limit (MDL) of 50 parts per billion (ppb) in wells MW-3 through MW-7;

- TPHg was detected from monitoring wells MW-1, MW-2, MW-8, and vapor extraction wells VE-1 and VE-2 at concentrations ranging from 78 ppb (MW-8) to 5,900 (MW-1);

- benzene was not detected at the MDL of 0.5 ppb from wells MW-3, MW-4, MW-5, MW-7, and MW-8;

- benzene was detected from monitoring wells MW-1, MW-2, and MW-6, and vapor extraction wells VE-1 and VE-2 at concentrations ranging from 0.6 ppb (MW-6) to 24 ppb (MW-1). The detected concentrations of benzene in wells MW-1 and MW-2, and vapor extraction wells VE-2 and VE-3 are greater than the State of California Department of Health Services (DHS) Maximum Contaminant Level (MCL) of 1.0 ppb benzene for drinking water;

- toluene, ethylbenzene, and total xylenes from groundwater monitoring wells MW-1 through MW-8 and vapor extraction wells VE-1 and VE-2 were either

not detected at the MDL of 0.5 ppb or less than the DHS Drinking Water Action Level (DWAL) of 100 ppb toluene, and MCLs of 680 ppb ethylbenzene and 1,750 ppb total xylenes in drinking:

- VOCs were not detected at their MDLs in wells MW-1 and MW-4.

If you have any questions or comments, please call (408) 264-7723.

Sincerely,
RESNA Industries Inc.

Marc A Briggs

Marc A Briggs
Project Manager

REGISTERED GEOLOGIST
JAMES LEWIS NELSON
No. 1463
CERTIFIED ENGINEERING GEOLOGIST
STATE OF CALIFORNIA

James L. Nelson
C.E.G. No. 1463

Enclosures: References

Plate 1: Site Vicinity Map
Plate 2: Generalized Site Plan
Plate 3: Groundwater Gradient Map (November 17, 1993)
Plate 4: Hydrocarbons and Volatile Organic Compounds in Groundwater

Table 1: Cumulative Groundwater Monitoring Data
Table 2: Cumulative Results of Laboratory Analyses of Groundwater Samples

Appendix A, Well Purge Data Sheets
Appendix B, Laboratory Analysis Reports and Chain of Custody Records

REFERENCES

Alameda County Flood Control and Water Conservation District (Zone 7). 1986. Water Level Contours Map. Water Resources Engineering.

Alameda County Flood Control and Water Conservation District - Zone 7, January 16, 1991. Fall 1990 Groundwater Level Report.

Applied GeoSystems. July 20, 1989. Report on Soil Vapor Survey at Exxon Station No. 7 -7003, 349 Main Street, Pleasanton, California. Job No. 19025-1V.

Applied GeoSystems. October 1, 1989. Report on Limited Subsurface Environmental Investigation at Exxon Station No. 7-7003, 349 Main Street, Pleasanton, California. Job No. 19025-1.

Applied GeoSystems. August 1, 1990. Report on Supplemental Subsurface Environmental Investigation at Exxon Station No. 7-7003, 349 Main Street, Pleasanton, California. Job No. 19025-2.

Applied GeoSystems. February 26, 1991. Letter Report Fourth Quarter 1990 Groundwater Monitoring at Exxon Station No. 7-7003, 349 Main Street, Pleasanton, California. Job No. 19025-3.

Applied GeoSystems. October 24, 1991. Report on Supplemental Subsurface Environmental Investigation and Quarterly Monitoring at Exxon Station No. 7-7003, 349 Main Street, Pleasanton, California Job No. 19025-3.

Applied GeoSystems. October 31, 1991. Letter Report Second Quarter 1991 Groundwater Monitoring at Exxon Station No. 7-7003, 349 Main Street, Pleasanton, California. Job No. 19025.03.

Applied GeoSystems. December 5, 1991. Letter Report Third Quarter 1991 Groundwater Monitoring at Exxon Station No. 7-7003, 349 Main Street, Pleasanton, California. Job No. 19025.03.

California Department of Health Services, State of California. October 24, 1990. Summary of California Drinking Water Standards

REFERENCES
(Continued)

California Department of Water Resources. 1966. Evaluation of Groundwater Resources, Livermore and Sunol Valleys, Appendix A: Geology. Bulletin No. 118-2.

California Department of Water Resources. 1974. Evaluation of Groundwater Resources, Livermore and Sunol Valleys. Bulletin No. 118-2, page 153.

RESNA Industries Inc. March 30, 1992. Letter Report Fourth Quarter 1991 Groundwater Monitoring at Exxon Station No. 7-7003, 349 Main Street, Pleasanton, California. Job No. 19025.03.

RESNA Industries Inc. May 28, 1992. Letter Report First Quarter 1992 Groundwater Monitoring at Exxon Station No. 7-7003, 349 Main Street, Pleasanton, California. Job No. 19025.05.

RESNA Industries Inc. September 10, 1992. Letter Report Second Quarter 1992 Groundwater Monitoring at Exxon Station No. 7-7003, 349 Main Street, Pleasanton, California. Job No. 19025.05.

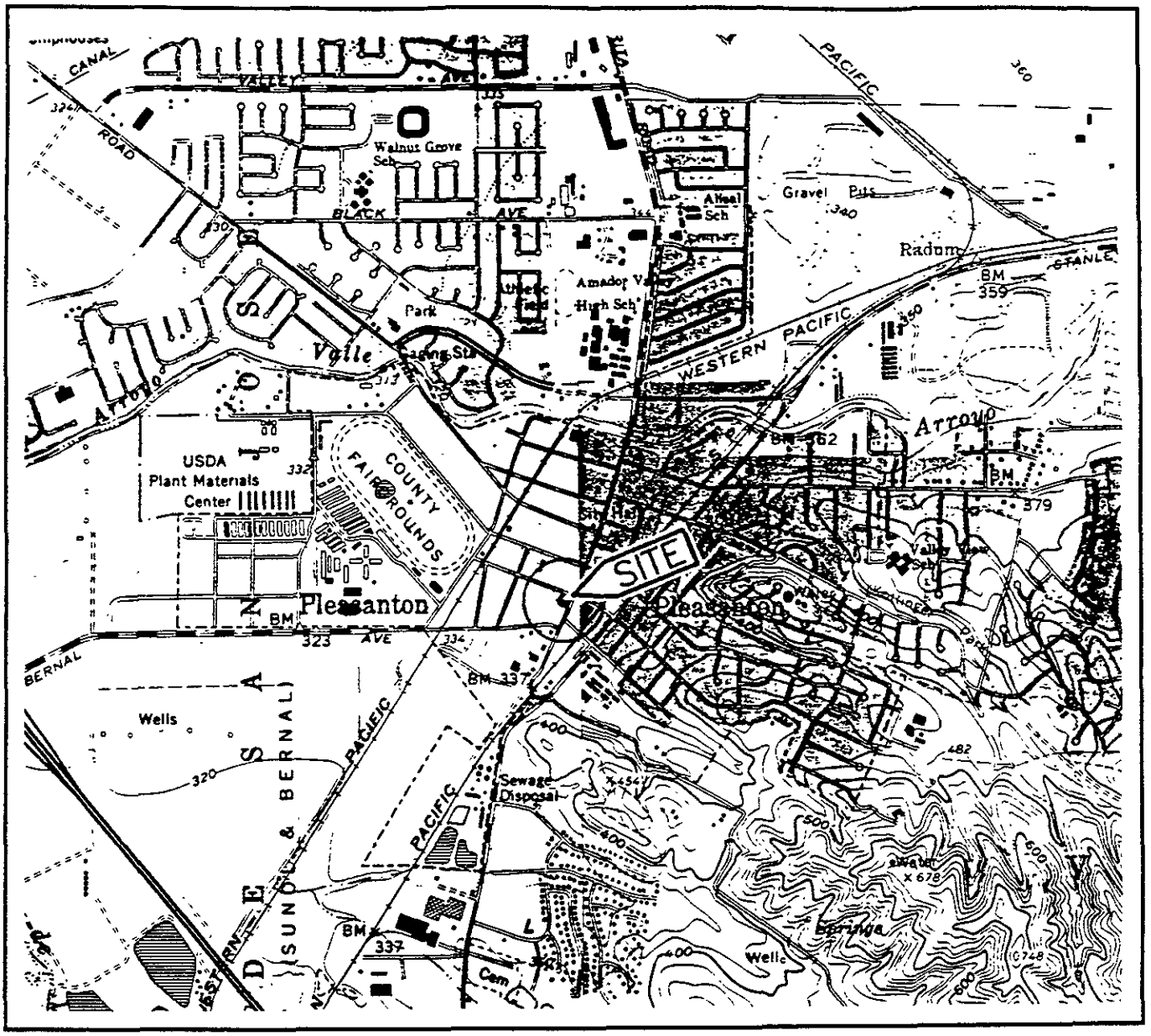
RESNA Industries Inc. November 30, 1992. Letter Report Third Quarter 1992 Groundwater Monitoring at Exxon Station No. 7-7003, 349 Main Street, Pleasanton, California. Job No. 19025.05.

RESNA Industries Inc. February 2, 1993. Letter Report Fourth Quarter 1992 Groundwater Monitoring at Exxon Station No. 7-7003, 349 Main Street, Pleasanton, California. Job No. 19025.05.

RESNA Industries Inc. March 25, 1993. Letter Report, Quarterly Groundwater Monitoring, First Quarter 1993 at Exxon Station No. 7-7003, 349 Main Street, Pleasanton, California. Job No. 130015.01.

RESNA Industries Inc. August 2, 1993. Letter Report, Quarterly Groundwater Monitoring, Second Quarter 1993 at Exxon Station No. 7-7003, 349 Main Street, Pleasanton, California. Job No. 130015.01.

RESNA Industries Inc. October 22, 1993. Letter Report, Quarterly Groundwater Monitoring, Third Quarter 1993 at Exxon Station No. 7-7003, 349 Main Street, Pleasanton, California. Job No. 130015.01.



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

N

LEGEND

⊙ = Site Location

Approximate Scale

2000 1000 0 2000 4000

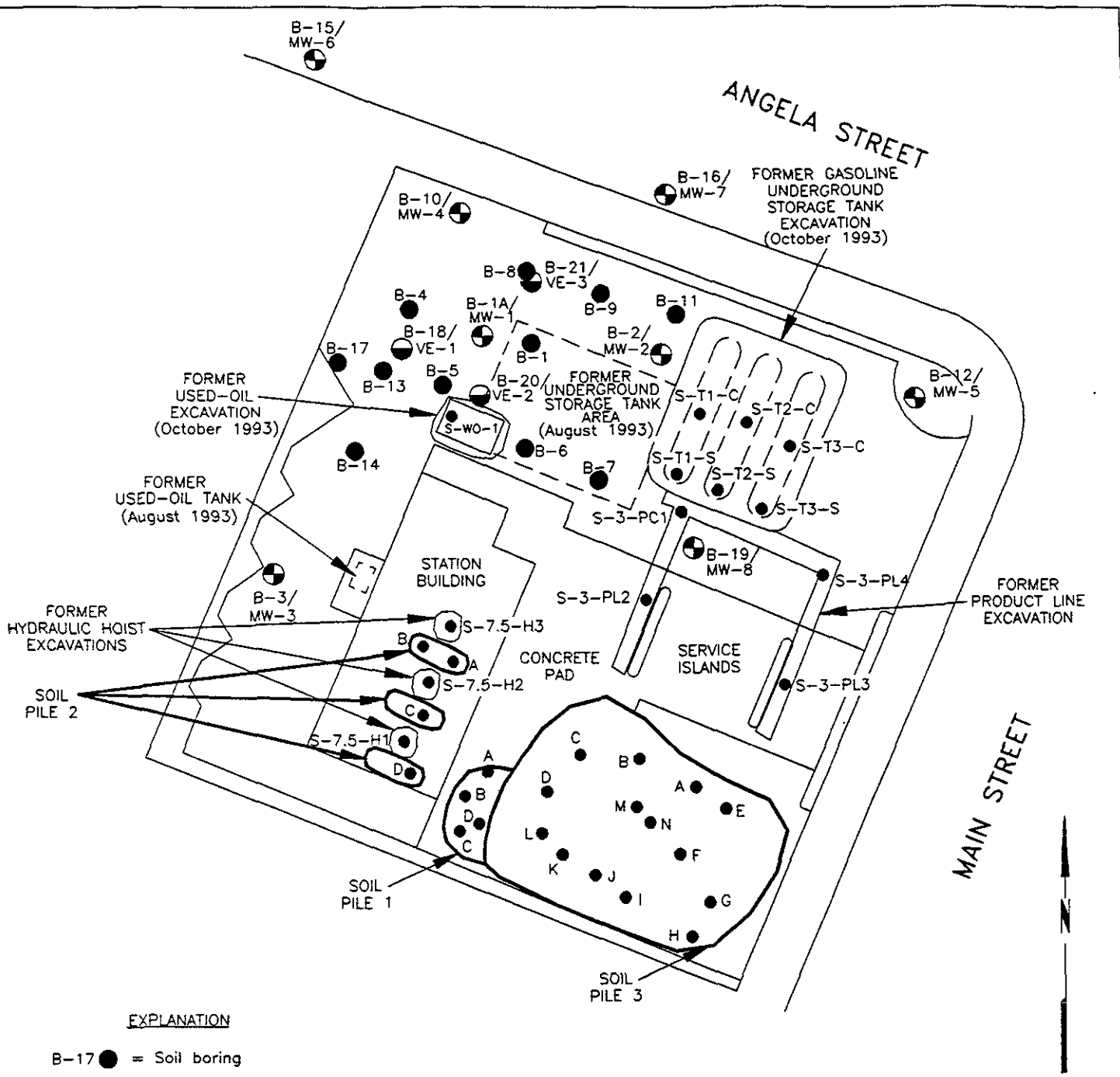
feet

RESNA
Working to Restore Nature

PROJECT 130015.01

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

PLATE
1



EXPLANATION

B-17 ● = Soil boring

B-19/ MW-8 ◒ = Monitoring well

B-21/ VE-3 ◒ = Vapor extraction well

▭ = Excavated areas

= Soilpiles

● = Sample locations

Approximate Scale

30 15 0 30 60

feet

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

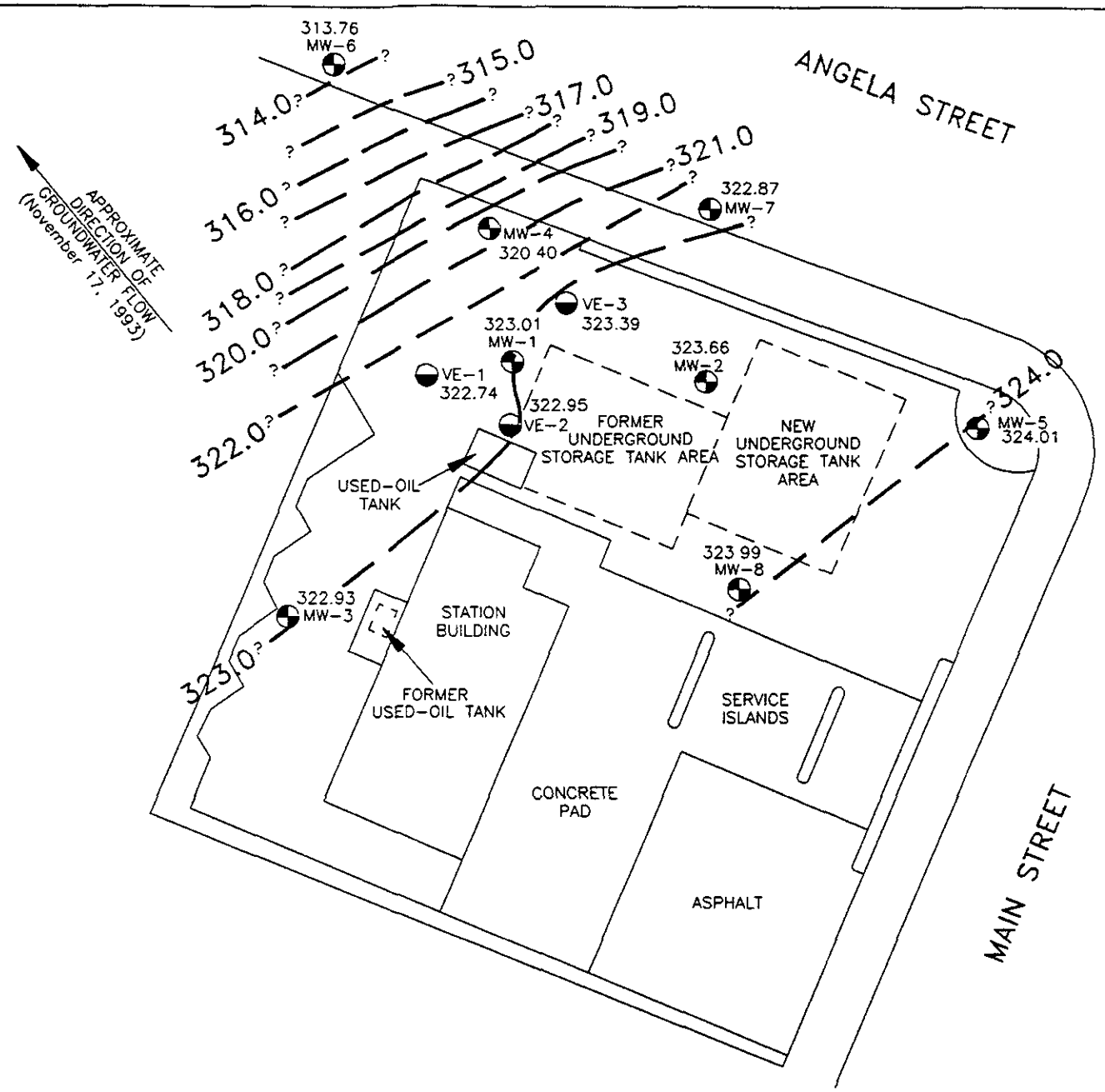
RESNA
Working to Restore Nature

PROJECT 130015.01

GENERALIZED SITE PLAN

Exxon Station 7-7003
349 Main Street
Pleasanton, California

PLATE 2



EXPLANATION

MW-8 = Monitoring well

VE-3 = Vapor extraction well

324.0 = Approximate line of equal elevation of groundwater in feet above mean sea level (MSL)

324.01 = Elevation of groundwater in feet above MSL, November 17, 1993

Approximate Scale

30 15 0 30 60

feet

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

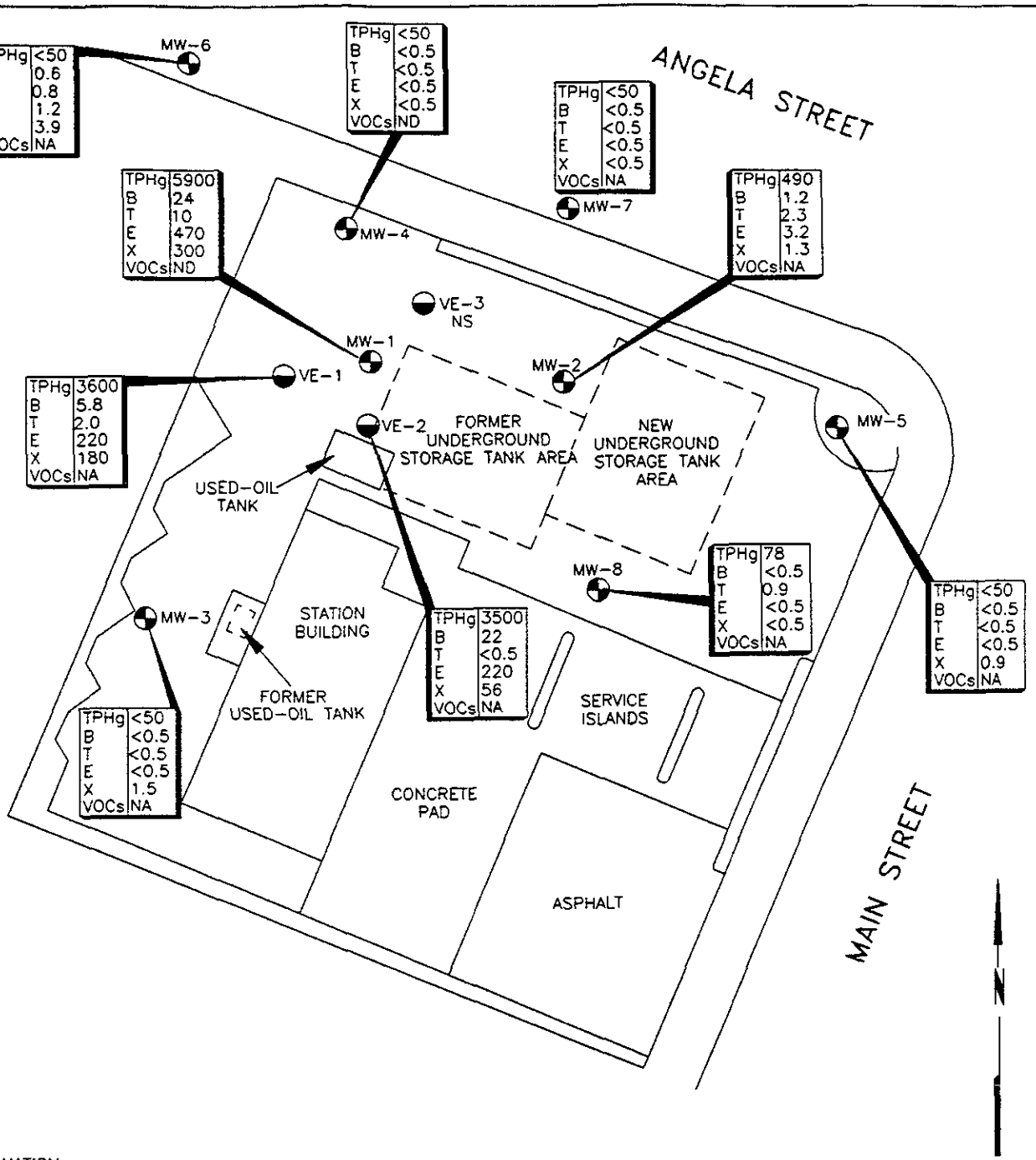
RESNA
Working to Restore Nature

PROJECT 130015.01

GROUNDWATER GRADIENT MAP

Exxon Station 7-7003
349 Main Street
Pleasanton, California

PLATE 3



EXPLANATION

MW-8 = Monitoring well

VE-3 = Vapor extraction well

TPHg 5,900
B 24
T 10
E 470
X 300
VOCs ND
= Concentrations of Hydrocarbons and Volatile Organic Compounds in groundwater in parts per billion, November 18, 1993

ND = Not detected

NA = Not analyzed

NS = Not sampled

Approximate Scale

30 15 0 30 60

feet

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

RESNA
Working to Restore Nature

PROJECT 130015.01

HYDROCARBONS AND VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER

Exxon Station 7-7003
349 Main Street
Pleasanton, California

PLATE 4

TABLE 1
CUMULATIVE GROUNDWATER MONITORING DATA
Exxon Station 7-7003
Pleasanton, California
Page 1 of 6
(See notes on page 6)

WELL	DATE	WELL ELEVATION	DEPTH TO WATER	GROUNDWATER ELEVATION	FLOATING PRODUCT
MW-1					
	02/23/90	343.83	26.08	317.75	None
	06/15/90		26.49	317.34	None
	08/90		26.47	317.36	None
	12/18/90		28.00	315.83	None
	03/19/91		23.63	320.20	None
	06/27/91		22.11	321.72	None
	09/26/91		27.75	316.08	None
	01/10/92		25.61	318.22	None
	03/12/92		22.52	321.31	None
	06/09/92		21.53	322.30	None
	09/28/92		29.84	313.99	None
	12/12/92		23.86	319.97	None
	02/02/93		19.00	324.83	None
	06/08/93		16.62	327.21	None
	09/22/93		19.63	324.20	None
	11/17/93		20.82	323.01	None
MW-2					
	02/23/90	344.22	26.31	317.91	None
	06/15/90		26.25	317.97	None
	08/90		26.15	318.07	None
	12/18/90		27.94	316.28	None
	03/19/91		23.41	320.81	None
	06/27/91		21.63	322.59	None

TABLE 1
CUMULATIVE GROUNDWATER MONITORING DATA
Exxon Station 7-7003
Pleasanton, California
Page 2 of 6
(See notes on page 6)

WELL	DATE	WELL ELEVATION	DEPTH TO WATER	GROUNDWATER ELEVATION	FLOATING PRODUCT
MW-2	09/26/91		27.19	317.03	None
cont.	01/10/92		25.67	318.55	None
	03/12/92		22.28	321.94	None
	06/09/92		21.17	323.05	None
	09/28/92		29.58	314.64	None
	12/12/92		Not Measured		
	02/02/93		18.69	325.53	None
	06/08/93		16.32	327.90	None
	09/22/93		19.43	324.79	None
	11/17/93		20.56	323.66	None
MW-3					
	02/23/90	342.90	24.78	318.12	None
	06/15/90		25.29	317.61	None
	08/90		25.40	317.50	None
	12/18/90		26.84	316.06	None
	03/19/91		22.13	320.77	None
	06/27/91		21.04	321.86	None
	09/26/91		26.63	316.27	None
	01/10/92		24.26	318.64	None
	03/12/92		21.60	321.30	None
	06/09/92		20.88	322.02	None
	09/28/92		28.67	314.23	None
	12/12/92		20.73	322.17	None
	02/02/93		19.30	323.60	None

TABLE 1
CUMULATIVE GROUNDWATER MONITORING DATA
Exxon Station 7-7003
Pleasanton, California
Page 3 of 6
(See notes on page 6)

WELL	DATE	WELL ELEVATION	DEPTH TO WATER	GROUNDWATER ELEVATION	FLOATING PRODUCT
MW-3	06/08/93		15.89	327.01	None
cont.	09/22/93		18.63	324.27	None
	11/17/93		19.97	322.93	None
MW-4					
	06/15/90	343.38	30.94	312.44	None
	08/90		31.21	312.17	None
	12/18/90		32.86	310.52	None
	03/19/91		26.76	316.62	None
	06/27/91		25.91	317.47	None
	09/26/91		32.29	311.09	None
	01/10/92		29.06	314.32	None
	03/12/92		24.25	319.13	None
	06/09/92		25.00	318.38	None
	09/28/92		34.41	308.97	None
	12/12/92		30.77	312.61	None
	02/02/93		21.03	322.35	None
	06/08/93		18.35	325.03	None
	09/22/93		21.86	321.52	None
	11/17/93		22.98	320.40	None
MW-5					
	06/15/90	345.20	26.94	318.26	None
	08/90		26.90	318.30	None
	12/18/90		28.31	316.89	None
	03/19/91		23.98	321.22	None

TABLE 1
CUMULATIVE GROUNDWATER MONITORING DATA
Exxon Station 7-7003
Pleasanton, California

(See notes on page 6)

WELL	DATE	WELL ELEVATION	DEPTH TO WATER	GROUNDWATER ELEVATION	FLOATING PRODUCT
MW-5	06/27/91		22.41	322.79	None
cont.	09/26/91		27.77	317.43	None
	01/10/92		26.38	318.82	None
	03/12/92		22.08	323.12	None
	06/09/92		31.98	313.22	None
	09/28/92		30.26	314.94	None
	12/12/92		27.20	318.00	None
	02/02/93		20.01	325.19	None
	06/08/93		16.80	328.40	None
	09/22/93		20.28	324.92	None
	11/17/93		21.19	324.01	None
MW-6					
	03/19/91	342.25	34.42	307.83	None
	06/27/91		35.01	307.24	None
	09/26/91		40.34	301.91	None
	01/10/92		36.20	306.05	None
	03/12/92		31.95	310.30	None
	06/09/92		33.22	309.03	None
	09/28/92		40.96	301.29	None
	12/12/92		342.25	0.00	None
	02/02/93		26.51	315.74	None
	06/08/93		22.62	319.63	None
	09/22/93		26.74	315.51	None
	11/17/93		28.49	313.76	None

TABLE 1
CUMULATIVE GROUNDWATER MONITORING DATA
Exxon Station 7-7003
Pleasanton, California
Page 5 of 6
(See notes on page 6)

WELL	DATE	WELL ELEVATION	DEPTH TO WATER	GROUNDWATER ELEVATION	FLOATING PRODUCT
MW-7					
	03/19/91	343.62	24.68	318.94	None
	06/27/91		23.10	320.52	None
	09/26/91		Not Measured		
	01/10/92		26.98	316.64	None
	03/12/92		21.86	321.76	None
	06/09/92		22.32	321.30	None
	09/28/92		31.92	311.70	None
	12/12/92		28.80	314.82	None
	02/02/93		19.50	324.12	None
	06/08/93		16.72	326.90	None
	09/22/93		19.90	323.72	None
	11/17/93		20.75	322.87	None
MW-8					
	06/08/93	344.00	15.78	328.22	None
	09/22/93		18.86	325.14	None
	11/17/93		20.01	323.99	None
VE-1					
	09/28/92	343.38	31.92	311.46	None
	12/12/92		Not Measured		
	02/02/93		Not Measured		
	06/08/93		16.44	326.94	None
	09/22/93		19.47	323.91	None
	11/17/93		20.64	322.74	None

TABLE 1
CUMULATIVE GROUNDWATER MONITORING DATA
Exxon Station 7-7003
Pleasanton, California
Page 6 of 6
(See notes on page 6)

WELL	DATE	WELL ELEVATION	DEPTH TO WATER	GROUNDWATER ELEVATION	FLOATING PRODUCT
VE-2					
	06/08/93	343.39	16.20	327.19	None
	09/22/93		19.23	324.16	None
	11/17/93		20.44	322.95	None
VE-3					
	06/08/93	343.39	16.48	326.91	None
	09/22/93		18.96	324.43	None
	11/17/93		20.00	323.39	None

Elevation relative to Mean Sea Level (MSL).
Measurements in feet.
Surveyed by Ron Archer Civil Engineer, Inc.

TABLE 2
CUMULATIVE RESULTS OF LABORATORY ANALYSES
OF GROUNDWATER SAMPLES
Exxon Station 7-7003
Pleasanton, California
Page 1 of 10
(See notes on page 10)

WELL	DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	LEAD (ppm)	TOG (ppm)	VOC
MW-1	02/23/90	3300	21	9.2	59	19	0.1	NA	NA
	06/15/90	1300	7.9	5.9	32	58	<0.05	NA	NA
	08/90	2500	77	280	50	250	<0.05	NA	NA
	12/18/90	390	9	2	43	400	<0.1	NA	NA
	03/19/91	4500	45	12	240	300	<0.1	NA	12.0[1]
	06/27/91	710	5.4	2.6	29	34	<0.1	NA	ND
	09/26/91	290	1.9	<0.5	0.6	0.6	<0.1	NA	ND
	01/10/92	5400	52	15	690	496	<0.1	NA	6.1[1]
	03/13/92	1400	87	22	1200	1000	NA	NA	2.1[5] 14[1] 1.2[4] 0.5[6] 0.8[3]
	06/09/92	4500	27	5.9	400	300	<0.1	<5.0	ND

TABLE 2
CUMULATIVE RESULTS OF LABORATORY ANALYSES
OF GROUNDWATER SAMPLES
Exxon Station 7-7003
Pleasanton, California
Page 2 of 10
(See notes on page 10)

WELL	DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	LEAD (ppm)	TOG (ppm)	VOC
MW-1	09/29/92	60	<0.5	0.9	<0.5	<0.5	NA	<5.0	ND
cont.	12/12/92	1400	53	18	1100	570	NA	<5.0	49[1]
	02/03/93	10,000	61	27	900	840	NA	<5.0	2.2[5]
	02/03/93								19[1]
									1.1[6]
									2.4[3]
	06/09/93	7500	42	32	970	720	NA	<5.0	1.8[1]
									1.0[4]
									0.8[3]
	09/23/93	6600	36	34	820	540	NA	<5.0	0.6[3] PCE
	11/18/93	5900	24	10	470	300	NA	NA	ND
MW-2	02/23/90	650	3	2	0.98	6.5	0.008	NA	NA
	06/15/90	670	<0.5	2.6	<0.5	<0.5	<0.05	NA	NA
	08/90	1300	24	130	37	170	<0.05	NA	NA
	12/18/90	470	<0.3	0.5	1	3	<0.1	NA	NA

TABLE 2
CUMULATIVE RESULTS OF LABORATORY ANALYSES
OF GROUNDWATER SAMPLES
Exxon Station 7-7003
Pleasanton, California
Page 3 of 10
(See notes on page 10)

WELL	DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	LEAD (ppm)	TOG (ppm)	VOC
MW-2	03/19/91	700	10	3.4	6.1	3.8	<0.1	NA	ND
cont.	06/27/91	1400	8.7	2.1	8.8	33	<0.1	NA	ND
	09/26/91	300	<0.5	0.6	0.6	3.9	<0.1	NA	ND
	01/10/92	800	9.3	1.0	2.4	3.2	<0.1	NA	ND
	03/13/92	350	<0.5	0.6	.63	1.0		NA	ND
	06/09/92	150	1.9	2.5	2.51	5.1	<0.1	NA	ND
	09/29/92	71	<0.5	<0.5	<0.5	<0.5	NA	NA	ND
	12/12/92	Not Sampled							
	02/03/93	720	3.9	8.2	21	20	NA	NA	NA
	06/09/93	160	0.5	3.3	5.7	2.0	NA	NA	NA
	09/23/93	240	0.7	5.6	4.0	2.6	NA	NA	NA
	11/18/93	490	1.2	2.3	3.2	1.3	NA	NA	NA
MW-3	02/23/90	<20	<0.5	<0.5	<0.5	<0.5	0.01	NA	NA
	06/15/90	200	<0.5	<0.5	<0.5	<0.5	<0.05	NA	NA
	08/90	3200	54	380	23	400	<0.05	NA	NA

TABLE 2
CUMULATIVE RESULTS OF LABORATORY ANALYSES
OF GROUNDWATER SAMPLES
Exxon Station 7-7003
Pleasanton, California
Page 4 of 10
(See notes on page 10)

WELL	DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	LEAD (ppm)	TOG (ppm)	VOC
MW-3	12/18/90	200	8	12	6	24	<0.1	<5.0	4.1[3]
cont.	03/19/91	<50	<0.5	<0.5	<0.5	<0.5	<0.1	<5.0	ND
	06/27/91	<50	<0.5	<0.5	<0.5	<0.5	<0.1	<5.0	ND
	09/26/91	<50	<0.5	<0.5	<0.5	<0.5	<0.1	<5.0	ND
	01/10/92	<50	<0.5	<0.5	<0.5	<0.5	<0.1	5.1	ND
	03/13/92	<50	<0.5	<0.5	<0.5	<0.5	NA	5.0	ND
	06/09/92	<50	<0.5	<0.5	<0.5	<0.5	<0.1	<5.0	ND
	09/29/92	<50	<0.5	<0.5	<0.5	<0.5	NA	<5.0	ND
	12/12/92	<50	<0.5	<0.5	<0.5	1.3	NA	<5.0	NA
	02/03/93	<50	<0.5	<0.5	<0.5	<0.5	NA	<5.0	NA
	06/08/93	<50	0.6	0.9	3.4	2.8	NA	<5.0	NA
	09/22/93	<50	<0.5	1.0	1.6	4.4	NA	*	NA
	11/18/93	<50	<0.5	<0.5	<0.5	1.5	NA	NA	NA
MW-4	06/15/90	<20	<0.5	<0.5	<0.5	<0.5	<0.05	NA	NA
	08/90	120	5.2	5.4	5.4	9.9	<0.05	NA	NA

TABLE 2
CUMULATIVE RESULTS OF LABORATORY ANALYSES
OF GROUNDWATER SAMPLES
Exxon Station 7-7003
Pleasanton, California

(See notes on page 10)

WELL	DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	LEAD (ppm)	TOG (ppm)	VOC
MW-4	12/18/90	50	7	1	<0.3	2	<0.1	NA	NA
cont.	03/19/91	160	1.8	0.8	2.2	11	<0.1	NA	ND
	06/27/91	<50	<0.5	<0.5	<0.5	<0.5	<0.1	NA	ND
	09/26/91	<50	<0.5	<0.5	<0.5	<0.5	<0.1	NA	1.0[4]
	01/10/92	98	0.9	<0.5	7.6	4.4	<0.1	NA	1.0[4]
	03/13/92	82	1.2	<0.5	5.3	4.3	NA	NA	ND
	06/09/92	<50	0.6	1.0	<0.5	2.5	<0.1	NA	0.7[4]
	09/29/92	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	ND
	12/12/92	99	1.0	0.9	7.0	11	NA	NA	ND
	02/03/93	170	2.3	2.2	6.2	8.4	NA	NA	ND
	06/09/93	<50	0.7	0.9	0.7	<0.5	NA	NA	0.6[4]
	09/23/93	59	0.8	2.0	3.1	5.3	NA	NA	ND
	11/18/93	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	ND
MW-5	06/15/90	<20	<0.5	<0.5	<0.5	<0.5	0.06	NA	NA
	08/90	120	9.7	12	7.6	17	<0.05	NA	NA

TABLE 2
CUMULATIVE RESULTS OF LABORATORY ANALYSES
OF GROUNDWATER SAMPLES
Exxon Station 7-7003
Pleasanton, California

(See notes on page 10)

WELL	DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	LEAD (ppm)	TOG (ppm)	VOC
MW-5	12/18/90	50	2	3.5	2	8	<0.1	NA	NA
cont.	03/19/91	160	<0.5	<0.5	<0.5	<0.5	<0.1	NA	0.5[1]
	06/27/91	<50	<0.5	<0.5	<0.5	<0.5	<0.1	NA	ND
	09/26/91	<50	<0.5	<0.5	<0.5	<0.5	<0.1	NA	ND
	01/10/92	98	<0.5	<0.5	<0.5	0.6	<0.1	NA	ND
	03/13/92	82	<0.5	<0.5	<0.5	<0.5		NA	ND
	06/09/92	Not Sampled							
	09/29/92	<50		<0.5	<0.5	<0.5	NA	NA	ND
	12/12/92	210	0.9	11	0.5	3.1	NA	NA	NA
	02/03/93	70	<0.5	2.7	<0.5	0.9	NA	NA	NA
	06/09/93	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA
	09/22/93	<50	1.0	<0.5	1.1	2.1	NA	NA	NA
	11/18/93	<50	<0.5	<0.5	<0.5	0.9	NA	NA	NA
MW-6	03/19/91	<50	<0.5	<0.5	<0.5	<0.5	<0.1	NA	ND
	06/27/91	<50	2.6	1.8	0.8	<0.30	<0.1	NA	ND

TABLE 2
CUMULATIVE RESULTS OF LABORATORY ANALYSES
OF GROUNDWATER SAMPLES
Exxon Station 7-7003
Pleasanton, California

(See notes on page 10)

WELL	DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	LEAD (ppm)	TOG (ppm)	VOC
MW-6	09/26/91	<50	<0.5	<0.5	<0.5	<0.5	<0.1	NA	ND
cont.	01/10/92	<50	<0.5	<0.5	<0.5	<0.5	<0.1	NA	ND
	03/13/92	<50	<0.5	<0.5	NS	NS		NA	ND
	06/09/92	<50	<0.5	<0.5	<0.5	<0.5	<0.1	NA	ND
	09/29/92	<50	<0.5	<0.5	0.9	0.9	NA	NA	ND
	12/12/92	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA
	02/02/93	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA
	06/08/93	<50	0.6	0.7	1.7	1.8	NA	NA	NA
	09/22/93	<50	<0.5	<0.5	0.7	1.1	NA	NA	NA
	11/18/93	<50	0.6	0.8	1.2	3.9	NA	NA	NA
MW-7	03/19/91	140	<0.5	<0.5	<0.5	<0.5	<0.1	NA	0.7[1] 0.8[2]
	06/27/91	100	5.2	5.6	3.9	16	<0.1	NA	ND
	09/26/91	Not Sampled							
	01/10/92	<50	<0.5	<0.5	<0.5	<0.5	<0.1	NA	ND

TABLE 2
CUMULATIVE RESULTS OF LABORATORY ANALYSES
OF GROUNDWATER SAMPLES
Exxon Station 7-7003
Pleasanton, California

(See notes on page 10)

WELL	DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	LEAD (ppm)	TOG (ppm)	VOC
MW-7	03/13/92	120	<0.5	<0.5	<0.5	<0.5		NA	ND
cont.	06/09/92	81	<0.5	<0.5	<0.5	<0.5	<0.1	NA	ND
	09/29/92	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	ND
	12/12/92	200	5.1	6.9	3.3	19	NA	NA	NA
	02/03/93	170	<0.5	6.6	0.6	1.7	NA	NA	NA
	06/09/93	<50	<0.5	0.8	<0.5	<0.5	NA	NA	NA
	09/22/93	<50	0.6	0.9	0.7	1.1	NA	NA	NA
	11/18/93	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA
MW-8	06/09/93	65	<0.5	1.1	0.8	1.7	NA	NA	NA
	09/23/93	110	4.1	8.9	6.7	14	NA	NA	NA
	11/18/93	78	<0.5	0.9	<0.5	<0.5	NA	NA	NA
VE-1	06/08/93	5800	<5.0	15	830	500	NA	NA	NA
	09/23/93	3700	5.4	21	380	240	NA	NA	NA
	11/18/93	3600	5.8	2.0	220	180	NA	NA	NA

TABLE 2
CUMULATIVE RESULTS OF LABORATORY ANALYSES
OF GROUNDWATER SAMPLES
Exxon Station 7-7003
Pleasanton, California
Page 9 of 10
(See notes on page 10)

WELL	DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	LEAD (ppm)	TOG (ppm)	VOC
VE-2	06/08/93	7000	10	18	900	340	NA	NA	NA
	09/23/93	2600	15	33	240	82	NA	NA	NA
	11/18/93	3500	22	<0.5	220	56	NA	NA	NA
VE-3	06/08/93	130	3.1	3.1	18	15	NA	NA	NA
	09/23/93	130	11	7.3	13	32	NA	NA	NA
	11/18/93	Not Sampled							
	MCLs	---	1.0	---	680	1,750	---	---	---
	DWAL	---	---	100	---	---	---	---	---

TABLE 2
CUMULATIVE RESULTS OF LABORATORY ANALYSES
OF GROUNDWATER SAMPLES
Exxon Station 7-7003
Pleasanton, California

Results in parts per billion (ppb) except TOG and lead.		
ppm	:	parts per million
<	:	Less than the laboratory detection limit.
NA	:	Not Analyzed
ND	:	Compounds not detected. See laboratory analysis reports for individual detection limits.
---	:	Not Applicable
TPHg	:	Total petroleum hydrocarbons as gasoline analyzed using modified EPA method 5030/8015.
BTEX	:	Analyzed using modified EPA method 5030/8020.
TOG	:	Total oil and grease analyzed using EPA Standard Method 5520.
VOC	:	Volatile Organic Compounds analyzed using EPA method 8010.
*	:	Analyzed for total petroleum hydrocarbons as diesel using EPA method 3510/8015.
1	:	Chloroform
2	:	Bromodichloromethane
3	:	Tetrachloroethene
4	:	1,2-Dichloroethane
5	:	Methylene Chloride
6	:	Tricholoroethene
MCLs	:	Maximum Contaminant Levels, DHS (October 1990).
DWAL	:	Drinking Water Action Level, DHS (October 1990).

RESNA
Working to Restore Nature

APPENDIX A

WELL PURGE DATA SHEETS

RESNA
Working to Restore Nature

WELL PURGE DATA SHEET

Project Name: Exxon 7-7003 Job No. 130015.01

Date: November 18, 1993 Page 1 of 1

Well No. MW-1 Time Started 1027

TIME (hr)	GALLONS (cum.)	TEMP. (F)	pH	CONDUCT. (micromho)	TURBIDITY (NTU)
1027	Start purging MW-1				
1027	0	61.8	6.43	8.68	3.7
1035	12	65.1	6.45	9.04	1.4
1045	24	63.5	6.60	8.93	4.7
1056	36	65.8	6.54	9.10	4.5
1112	50	66.4	6.56	9.21	4.0
	Stop purging MW-1				

Notes:

Well Diameter (inches) : 4
Depth to Bottom (feet) : 39.15
Depth to Water - initial (feet) (11/17/93) : 20.82
Depth to Water - final (feet) : 21.20
% recovery : 98
Time Sampled : 1243
Gallons per Well Casing Volume : 11.96
Gallons Purged : 50
Well Casing Volume Purged : 4.2
Approximate Pumping Rate (gpm) : 1.11

RESNA
Working to Restore Nature

WELL PURGE DATA SHEET

Project Name: Exxon 7-7003 Job No. 130015.01

Date: November 18, 1993 Page 1 of 1

Well No. MW-2 Time Started 930

TIME (hr)	GALLONS (cum.)	TEMP. (F)	pH	CONDUCT. (micromho)	TURBIDITY (NTU)
930	Start purging MW-2				
930	0	63.6	6.57	7.15	13.7
938	12	64.9	6.53	7.16	5.4
947	24	66.8	6.52	7.92	12.2
956	36	97.0	6.50	8.23	5.0
1005	49	65.5	6.69	8.20	3.0
	Stop purging MW-2				

Notes:

Well Diameter (inches) : 4
Depth to Bottom (feet) : 39.25
Depth to Water - initial (feet) (11/17/93) : 20.56
Depth to Water - final (feet) : 20.77
% recovery : 99
Time Sampled : 1415
Gallons per Well Casing Volume : 12.2
Gallons Purged : 49
Well Casing Volume Purged : 4.02
Approximate Pumping Rate (gpm) : 1.4

RESNA
Working to Restore Nature

WELL PURGE DATA SHEET

Project Name: Exxon 7-7003 Job No. 130015.01

Date: November 18, 1993 Page 1 of 1

Well No. MW-3 Time Started 1446

TIME (hr)	GALLONS (cum.)	TEMP. (F)	pH	CONDUCT. (micromho)	TURBIDITY (NTU)
1446	Start purging MW-3				
1446	0	62.0	6.37	8.78	32.2
1451	12.5	63.5	6.38	8.29	11.1
1506	25	64.6	6.40	8.68	9.0
1515	37.5	63.0	6.58	8.45	4.8
1531	50	62.4	6.42	8.28	9.4
	Stop purging MW-3				

Notes:

Well Diameter (inches) : 4
Depth to Bottom (feet) : 38.97
Depth to Water - initial (feet) (11/17/93) : 19.97
Depth to Water - final (feet) : 21.19
% recovery : 94
Time Sampled : 1315
Gallons per Well Casing Volume : 12.40
Gallons Purged : 50
Well Casing Volume Purged : 4.03
Approximate Pumping Rate (gpm) : 1.11

RESNA
Working to Restore Nature

WELL PURGE DATA SHEET

Project Name: Exxon 7-7003 Job No. 130015.01

Date: November 17, 1993 Page 1 of 1

Well No. MW-4 Time Started 1724

TIME (hr)	GALLONS (cum.)	TEMP. (F)	pH	CONDUCT. (micromho)	TURBIDITY (NTU)
1724	Start purging MW-4				
1724	0	60.6	6.48	8.29	19.0
1732	16	63.2	6.50	8.44	5.0
1744	32	65.3	6.53	8.40	194.4
1746	34	DRY			
1626	48	59.1	6.56	7.94	14.8
1432	55	DRY			
	Stop purging MW-4				

Notes:

Well Diameter (inches) : 4
Depth to Bottom (feet) : 47.50
Depth to Water - initial (feet) : 22.98
Depth to Water - final (feet) (11/18/93) : 23.68
% recovery : 97
Time Sampled : 1345
Gallons per Well Casing Volume : 16.01
Gallons Purged : 55
Well Casing Volume Purged : 3.4
Approximate Pumping Rate (gpm) : 1.6

RESNA
Working to Restore Nature

WELL PURGE DATA SHEET

Project Name: Exxon 7-7003 Job No. 130015.01

Date: November 17, 1993 Page 1 of 1

Well No. MW-5 Time Started 1643

TIME (hr)	GALLONS (cum.)	TEMP. (F)	pH	CONDUCT. (micromho)	TURBIDITY (NTU)
1643	Start purging MW-5				
1643	0	62.1	6.56	4.55	12.5
1647	8	63.9	6.62	4.21	8.6
1654	16	63.7	6.68	3.97	2.1
1659	24	64.9	6.81	4.30	3.1
1704	32	65.1	6.82	4.15	1.3
	Stop purging MW-5				

Notes:

Well Diameter (inches) : 4
Depth to Bottom (feet) : 33.33
Depth to Water - initial (feet) : 21.19
Depth to Water - final (feet) (11/18/93) : 21.26
% recovery : 99
Time Sampled : 1330
Gallons per Well Casing Volume : 7.92
Gallons Purged : 32
Well Casing Volume Purged : 4.01
Approximate Pumping Rate (gpm) : 1.52

RESNA
Working to Restore Nature

WELL PURGE DATA SHEET

Project Name: Exxon 7-7003 Job No. 130015.01

Date: November 17, 1993 Page 1 of 1

Well No. MW-6 Time Started 1335

TIME (hr)	GALLONS (cum.)	TEMP. (F)	pH	CONDUCT. (micromho)	TURBIDITY (NTU)
1335	Start purging MW-6				
1335	0	65.2	6.55	6.45	40.4
1350	20	63.7	6.54	7.06	7.9
1402	40	63.5	6.53	7.36	4.1
1415	60	62.9	6.52	7.44	1.5
1427	80	64.1	6.59	7.55	1.1
	Stop purging MW-6				

Notes:

Well Diameter (inches) : 4
Depth to Bottom (feet) : 58.00
Depth to Water - initial (feet) : 28.49
Depth to Water - final (feet) (11/18/93) : 28.68
% recovery : 99
Time Sampled : 1245
Gallons per Well Casing Volume : 19.26
Gallons Purged : 80
Well Casing Volume Purged : 4.15
Approximate Pumping Rate (gpm) : 1.54

RESNA
Working to Restore Nature

WELL PURGE DATA SHEET

Project Name: Exxon 7-7003 Job No. 130015.01

Date: November 17, 1993 Page 1 of 1

Well No. MW-7 Time Started 1548

TIME (hr)	GALLONS (cum.)	TEMP. (F)	pH	CONDUCT. (micromho)	TURBIDITY (NTU)
1548	Start purging MW-7				
1548	0	62.6	6.52	4.53	7.2
1558	16	63.2	6.54	4.56	5.3
1608	32	65.8	6.57	5.48	63.8
1416	48	65.0	6.57	5.43	38.2
1424	64	64.3	6.61	5.30	16.1
	Stop purging MW-7				

Notes:

Well Diameter (inches) : 4
Depth to Bottom (feet) : 44.88
Depth to Water - initial (feet) : 20.75
Depth to Water - final (feet) (11/18/93) : 20.97
% recovery : 99
Time Sampled : 1530
Gallons per Well Casing Volume : 15.75
Gallons Purged : 64
Well Casing Volume Purged : 4.06
Approximate Pumping Rate (gpm) : 1.77

RESNA
Working to Restore Nature

WELL PURGE DATA SHEET

Project Name: Exxon 7-7003 Job No. 130015.01

Date: November 18, 1993 Page 1 of 1

Well No. MW-8 Time Started 1500

TIME (hr)	GALLONS (cum.)	TEMP. (F)	pH	CONDUCT. (micromho)	TURBIDITY (NTU)
1500	Start purging MW-8				
1500	0	64.7	6.34	10.43	>200
1521	2	64.6	6.42	10.59	>200
1540	3	DRY			
1756	4	63.7	6.53	9.96	>200
	Stop purging MW-8				

Notes:

Well Diameter (inches)	: 4
Depth to Bottom (feet)	: 22.82
Depth to Water - initial (feet)(11/17/93)	: 20.01
Depth to Water - final (feet)	: 20.07
% recovery	: 98
Time Sampled	: 1400
Gallons per Well Casing Volume	: 1.83
Gallons Purged	: 4.0
Well Casing Volume Purged	: 2.18
Approximate Pumping Rate (gpm)	: 0.03

RESNA
Working to Restore Nature

WELL PURGE DATA SHEET

Project Name: Exxon 7-7003 Job No. 130015.01

Date: November 17, 1993 Page 1 of 1

Well No. VE-1 Time Started 1502

TIME (hr)	GALLONS (cum.)	TEMP. (F)	pH	CONDUCT. (micromho)	TURBIDITY (NTU)
1502	Start purging VE-1				
1502	0	64.3	6.34	9.68	29.6
1507	1	64.3	6.43	9.81	>200
1518	2	64.0	6.55	9.49	>200
1702	3	63.6	6.45	9.15	63.8
1737	4	63.2	6.54	9.35	>200
	Stop purging VE-1				

Notes:

Well Diameter (inches) : 2
Depth to Bottom (feet) : 26.79
Depth to Water - initial (feet) : 20.64
Depth to Water - final (feet)(11/18/93) : 20.92
% recovery : 95
Time Sampled : 1440
Gallons per Well Casing Volume : 1.00
Gallons Purged : 4
Well Casing Volume Purged : 4.0
Approximate Pumping Rate (gpm) : 0.02

RESNA
Working to Restore Nature

WELL PURGE DATA SHEET

Project Name: Exxon 7-7003 Job No. 130015.01

Date: November 18, 1993 Page 1 of 1

Well No. VE-2 Time Started 1309

TIME (hr)	GALLONS (cum.)	TEMP. (F)	pH	CONDUCT. (micromho)	TURBIDITY (NTU)
1105	Start purging VE-2				
1105	0	66.0	6.47	9.07	40.0
1109	2	65.9	6.53	9.65	84.9
1118	4	65.6	6.58	9.71	>200
1125	6	64.8	6.55	9.51	>200
1133	8	64.0	6.59	9.45	>200
	Stop purging VE-2				

Notes:

Well Diameter (inches) : 4
Depth to Bottom (feet) : 23.61
Depth to Water - initial (feet)(11/17/93) : 20.44
Depth to Water - final (feet) : 20.68
% recovery : 92
Time Sampled : 1430
Gallons per Well Casing Volume : 2.07
Gallons Purged : 8
Well Casing Volume Purged : 3.87
Approximate Pumping Rate (gpm) : 0.3

RESNA
Working to Restore Nature

WELL PURGE DATA SHEET

Project Name: Exxon 7-7003 Job No. 130015.01

Date: November 18, 1993 Page 1 of 1

Well No. VE-3 Time Started 945

TIME (hr)	GALLONS (cum.)	TEMP. (F)	pH	CONDUCT. (micromho)	TURBIDITY (NTU)
945	Start purging VE-3				
945	0	65.9	6.58	11.76	70.2
953	2	65.5	6.70	12.21	>200
1001	4	65.6	6.80	12.88	>200
1015	4	DRY			
1050	4.5	DRY			
	Stop purging VE-3				

Notes:

Well Diameter (inches) : 4
Depth to Bottom (feet) : 22.99
Depth to Water - initial (feet)(11/17/93) : 20.00
Depth to Water - final (feet) :
% recovery :
Time Sampled :
Gallons per Well Casing Volume : 1.95
Gallons Purged : 4
Well Casing Volume Purged : 2.05
Approximate Pumping Rate (gpm) : 0.25

RESNA
Working to Restore Nature

APPENDIX B

LABORATORY ANALYSIS REPORTS AND CHAIN OF CUSTODY RECORD

15C1

pace
INCORPORATED
THE ASSURANCE OF QUALITY

REPORT OF LABORATORY ANALYSIS

December 01, 1993

RECEIVED
DEC -3 1993
RESNA

Mr. Marc Briggs
RESNA
3315 Almaden Expressway Suite 34
San Jose, CA 95118

RE: PACE Project No. 431119.507
     Client Reference: Exxon 7-7003 (EE)

Dear Mr. Briggs:

Enclosed is the report of laboratory analyses for samples received November 19, 1993.

Footnotes are given at the end of the report.

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

Sincerely,

Stephanie Matzo

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
3315 Almaden Expressway Suite 34
San Jose, CA 95118

December 01, 1993
PACE Project Number: 431119507

Attn: Mr. Marc Briggs

Client Reference: Exxon 7-7003 (EE)

PACE Sample Number:			70 0196817	
Date Collected:			11/18/93	
Date Received:			11/19/93	
Client Sample ID:			Rinsate	
Parameter	Units	MDL		DATE ANALYZED
ORGANIC ANALYSIS				
PURGEABLE FUELS AND AROMATICS				
TOTAL FUEL HYDROCARBONS, (LIGHT):			-	11/27/93
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND	11/27/93
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	11/27/93
Benzene	ug/L	0.5	ND	11/27/93
Toluene	ug/L	0.5	ND	11/27/93
Ethylbenzene	ug/L	0.5	0.8	11/27/93
Xylenes, Total	ug/L	0.5	2.1	11/27/93

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

Mr. Marc Briggs
Page 2

December 01, 1993
PACE Project Number: 431119507

Client Reference: Exxon 7-7003 (EE)

PACE Sample Number:			70 0196825	
Date Collected:			11/18/93	
Date Received:			11/19/93	
Client Sample ID:			MW6R	
Parameter	Units	MDL		DATE ANALYZED
ORGANIC ANALYSIS				
PURGEABLE FUELS AND AROMATICS				
TOTAL FUEL HYDROCARBONS, (LIGHT):			-	11/27/93
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND	11/27/93
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	11/27/93
Benzene	ug/L	0.5	ND	11/27/93
Toluene	ug/L	0.5	ND	11/27/93
Ethylbenzene	ug/L	0.5	0.6	11/27/93
Xylenes, Total	ug/L	0.5	1.5	11/27/93

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

REPORT OF LABORATORY ANALYSIS

Mr. Marc Briggs
Page 3

December 01, 1993
PACE Project Number: 431119507

Client Reference: Exxon 7-7003 (EE)

PACE Sample Number:			70 0196833	
Date Collected:			11/18/93	
Date Received:			11/19/93	
Client Sample ID:			W-28-MW6	
Parameter	Units	MDL		DATE ANALYZED
ORGANIC ANALYSIS				
PURGEABLE FUELS AND AROMATICS				
TOTAL FUEL HYDROCARBONS, (LIGHT):			-	11/27/93
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND	11/27/93
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	11/27/93
Benzene	ug/L	0.5	0.6	11/27/93
Toluene	ug/L	0.5	0.8	11/27/93
Ethylbenzene	ug/L	0.5	1.2	11/27/93
Xylenes, Total	ug/L	0.5	3.9	11/27/93

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

Mr. Marc Briggs
Page 4

December 01, 1993
PACE Project Number: 431119507

Client Reference: Exxon 7-7003 (EE)

PACE Sample Number:			70 0196850	
Date Collected:			11/18/93	
Date Received:			11/19/93	
Client Sample ID:			W-21-MW3	
Parameter	Units	MDL		DATE ANALYZED
ORGANIC ANALYSIS				
PURGEABLE FUELS AND AROMATICS				
TOTAL FUEL HYDROCARBONS, (LIGHT):			-	11/29/93
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND	11/29/93
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	11/29/93
Benzene	ug/L	0.5	ND	11/29/93
Toluene	ug/L	0.5	ND	11/29/93
Ethylbenzene	ug/L	0.5	ND	11/29/93
Xylenes, Total	ug/L	0.5	1.5	11/29/93

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

REPORT OF LABORATORY ANALYSIS

Mr. Marc Briggs
Page 5

December 01, 1993
PACE Project Number: 431119507

Client Reference: Exxon 7-7003 (EE)

PACE Sample Number:			70 0196876	
Date Collected:			11/18/93	
Date Received:			11/19/93	
Client Sample ID:			W-20-MW7	
Parameter	Units	MDL		DATE ANALYZED
ORGANIC ANALYSIS				
PURGEABLE FUELS AND AROMATICS				
TOTAL FUEL HYDROCARBONS, (LIGHT):			-	11/29/93
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND	11/29/93
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	11/29/93
Benzene	ug/L	0.5	ND	11/29/93
Toluene	ug/L	0.5	ND	11/29/93
Ethylbenzene	ug/L	0.5	ND	11/29/93
Xylenes, Total	ug/L	0.5	ND	11/29/93

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

Mr. Marc Briggs
Page 6

December 01, 1993
PACE Project Number: 431119507

Client Reference: Exxon 7-7003 (EE)

PACE Sample Number:			70 0196965	
Date Collected:			11/18/93	
Date Received:			11/19/93	
Client Sample ID:			W-21-MW5	
Parameter	Units	MDL		DATE ANALYZED
ORGANIC ANALYSIS				
PURGEABLE FUELS AND AROMATICS				
TOTAL FUEL HYDROCARBONS, (LIGHT):			-	11/29/93
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND	11/29/93
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	11/29/93
Benzene	ug/L	0.5	ND	11/29/93
Toluene	ug/L	0.5	ND	11/29/93
Ethylbenzene	ug/L	0.5	ND	11/29/93
Xylenes, Total	ug/L	0.5	0.9	11/29/93

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

REPORT OF LABORATORY ANALYSIS

Mr. Marc Briggs
Page 7

December 01, 1993
PACE Project Number: 431119507

Client Reference: Exxon 7-7003 (EE)

Parameter	Units	MDL		DATE ANALYZED
PACE Sample Number:			70 0197015	
Date Collected:			11/18/93	
Date Received:			11/19/93	
Client Sample ID:			W-23-MW4	
ORGANIC ANALYSIS				
PURGEABLE FUELS AND AROMATICS				
TOTAL FUEL HYDROCARBONS, (LIGHT):			-	11/27/93
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND	11/27/93
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	11/27/93
Benzene	ug/L	0.5	ND	11/27/93
Toluene	ug/L	0.5	ND	11/27/93
Ethylbenzene	ug/L	0.5	ND	11/27/93
Xylenes, Total	ug/L	0.5	ND	11/27/93
HALOGENATED VOLATILE COMPOUNDS EPA 8010				
Dichlorodifluoromethane	ug/L	2.0	ND	11/23/93
Chloromethane	ug/L	2.0	ND	11/23/93
Vinyl Chloride	ug/L	2.0	ND	11/23/93
Bromomethane	ug/L	2.0	ND	11/23/93
Chloroethane	ug/L	2.0	ND	11/23/93
Trichlorofluoromethane (Freon 11)	ug/L	2.0	ND	11/23/93
1,1-Dichloroethene	ug/L	0.5	ND	11/23/93
Methylene Chloride	ug/L	2.0	ND	11/23/93
trans-1,2-Dichloroethene	ug/L	0.5	ND	11/23/93
cis-1,2-Dichloroethene	ug/L	0.5	ND	11/23/93
1,1-Dichloroethane	ug/L	0.5	ND	11/23/93
Chloroform	ug/L	0.5	ND	11/23/93
1,1,1-Trichloroethane (TCA)	ug/L	0.5	ND	11/23/93
Carbon Tetrachloride	ug/L	0.5	ND	11/23/93
1,2-Dichloroethane (EDC)	ug/L	0.5	ND	11/23/93
Trichloroethene (TCE)	ug/L	0.5	ND	11/23/93
1,2-Dichloropropane	ug/L	0.5	ND	11/23/93
Bromodichloromethane	ug/L	0.5	ND	11/23/93
2-Chloroethylvinyl ether	ug/L	0.5	ND	11/23/93
cis-1,3-Dichloropropene	ug/L	0.5	ND	11/23/93
trans-1,3-Dichloropropene	ug/L	0.5	ND	11/23/93
1,1,2-Trichloroethane	ug/L	0.5	ND	11/23/93
Tetrachloroethene	ug/L	0.5	ND	11/23/93

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

Mr. Marc Briggs
Page 8

December 01, 1993
PACE Project Number: 431119507

Client Reference: Exxon 7-7003 (EE)

PACE Sample Number:			70 0197015	
Date Collected:			11/18/93	
Date Received:			11/19/93	
Client Sample ID:			W-23-MW4	
Parameter	Units	MDL		DATE ANALYZED
ORGANIC ANALYSIS				
HALOGENATED VOLATILE COMPOUNDS EPA 8010				
Dibromochloromethane	ug/L	0.5	ND	11/23/93
Chlorobenzene	ug/L	0.5	ND	11/23/93
Bromoform	ug/L	0.5	ND	11/23/93
1,1,2,2-Tetrachloroethane	ug/L	0.5	ND	11/23/93
1,3-Dichlorobenzene	ug/L	0.5	ND	11/23/93
1,4-Dichlorobenzene	ug/L	0.5	ND	11/23/93
1,2-Dichlorobenzene	ug/L	0.5	ND	11/23/93
Bromochloromethane (Surrogate Recovery)	%		91	11/23/93
1,4-Dichlorobutane (Surrogate Recovery)	%		112	11/23/93

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

REPORT OF LABORATORY ANALYSIS

Mr. Marc Briggs
Page 9

December 01, 1993
PACE Project Number: 431119507

Client Reference: Exxon 7-7003 (EE)

PACE Sample Number:			70 0197031	
Date Collected:			11/18/93	
Date Received:			11/19/93	
Client Sample ID:			W-20-MW8	
Parameter	Units	MDL		DATE ANALYZED
ORGANIC ANALYSIS				
PURGEABLE FUELS AND AROMATICS				
TOTAL FUEL HYDROCARBONS, (LIGHT):			-	11/27/93
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	78	11/27/93
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	11/27/93
Benzene	ug/L	0.5	ND	11/27/93
Toluene	ug/L	0.5	0.9	11/27/93
Ethylbenzene	ug/L	0.5	ND	11/27/93
Xylenes, Total	ug/L	0.5	ND	11/27/93

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

REPORT OF LABORATORY ANALYSIS

Mr. Marc Briggs
Page 10

December 01, 1993
PACE Project Number: 431119507

Client Reference: Exxon 7-7003 (EE)

PACE Sample Number:			70 0197058	
Date Collected:			11/18/93	
Date Received:			11/19/93	
Client Sample ID:			W-20-MW2	
Parameter	Units	MDL		DATE ANALYZED
ORGANIC ANALYSIS				
PURGEABLE FUELS AND AROMATICS				
TOTAL FUEL HYDROCARBONS, (LIGHT):			-	11/27/93
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	490	11/27/93
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	11/27/93
Benzene	ug/L	0.5	1.2	11/27/93
Toluene	ug/L	0.5	2.3	11/27/93
Ethylbenzene	ug/L	0.5	3.2	11/27/93
Xylenes, Total	ug/L	0.5	1.3	11/27/93

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

Mr. Marc Briggs
Page 11

December 01, 1993
PACE Project Number: 431119507

Client Reference: Exxon 7-7003 (EE)

PACE Sample Number:			70 0197074	
Date Collected:			11/18/93	
Date Received:			11/19/93	
Client Sample ID:			W-20-VE2	
Parameter	Units	MDL		DATE ANALYZED
ORGANIC ANALYSIS				
PURGEABLE FUELS AND AROMATICS				
TOTAL FUEL HYDROCARBONS, (LIGHT):			-	11/27/93
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	3500	11/27/93
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	11/27/93
Benzene	ug/L	0.5	22	11/27/93
Toluene	ug/L	0.5	ND	11/27/93
Ethylbenzene	ug/L	0.5	220	11/27/93
Xylenes, Total	ug/L	0.5	56	11/27/93

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

REPORT OF LABORATORY ANALYSIS

Mr. Marc Briggs
Page 12

December 01, 1993
PACE Project Number: 431119507

Client Reference: Exxon 7-7003 (EE)

PACE Sample Number:			70 0197090	
Date Collected:			11/18/93	
Date Received:			11/19/93	
Client Sample ID:			W-20-VE1	
Parameter	Units	MDL		DATE ANALYZED
ORGANIC ANALYSIS				
PURGEABLE FUELS AND AROMATICS				
TOTAL FUEL HYDROCARBONS, (LIGHT):			-	11/29/93
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	3600	11/29/93
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	11/29/93
Benzene	ug/L	0.5	5.8	11/29/93
Toluene	ug/L	0.5	2.0	11/29/93
Ethylbenzene	ug/L	0.5	220	11/29/93
Xylenes, Total	ug/L	0.5	180	11/29/93

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

REPORT OF LABORATORY ANALYSIS

Mr. Marc Briggs
Page 13

December 01, 1993
PACE Project Number: 431119507

Client Reference: Exxon 7-7003 (EE)

Parameter	Units	MDL		DATE ANALYZED
PACE Sample Number:			70 0197112	
Date Collected:			11/18/93	
Date Received:			11/19/93	
Client Sample ID:			W-21-MW1	
ORGANIC ANALYSIS				
PURGEABLE FUELS AND AROMATICS				
TOTAL FUEL HYDROCARBONS, (LIGHT):			-	11/27/93
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	500	5900	11/27/93
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	11/27/93
Benzene	ug/L	5.0	24	11/27/93
Toluene	ug/L	5.0	10	11/27/93
Ethylbenzene	ug/L	5.0	470	11/27/93
Xylenes, Total	ug/L	5.0	300	11/27/93
HALOGENATED VOLATILE COMPOUNDS EPA 8010				
Dichlorodifluoromethane	ug/L	2.0	ND	11/23/93
Chloromethane	ug/L	2.0	ND	11/23/93
Vinyl Chloride	ug/L	2.0	ND	11/23/93
Bromomethane	ug/L	2.0	ND	11/23/93
Chloroethane	ug/L	2.0	ND	11/23/93
Trichlorofluoromethane (Freon 11)	ug/L	2.0	ND	11/23/93
1,1-Dichloroethene	ug/L	0.5	ND	11/23/93
Methylene Chloride	ug/L	2.0	ND	11/23/93
trans-1,2-Dichloroethene	ug/L	0.5	ND	11/23/93
cis-1,2-Dichloroethene	ug/L	0.5	ND	11/23/93
1,1-Dichloroethane	ug/L	0.5	ND	11/23/93
Chloroform	ug/L	0.5	ND	11/23/93
1,1,1-Trichloroethane (TCA)	ug/L	0.5	ND	11/23/93
Carbon Tetrachloride	ug/L	0.5	ND	11/23/93
1,2-Dichloroethane (EDC)	ug/L	0.5	ND	11/23/93
Trichloroethene (TCE)	ug/L	0.5	ND	11/23/93
1,2-Dichloropropane	ug/L	0.5	ND	11/23/93
Bromodichloromethane	ug/L	0.5	ND	11/23/93
2-Chloroethylvinyl ether	ug/L	0.5	ND	11/23/93
cis-1,3-Dichloropropene	ug/L	0.5	ND	11/23/93
trans-1,3-Dichloropropene	ug/L	0.5	ND	11/23/93
1,1,2-Trichloroethane	ug/L	0.5	ND	11/23/93
Tetrachloroethene	ug/L	0.5	ND	11/23/93

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

pace INCORPORATED
THE ASSURANCE OF QUALITY

REPORT OF LABORATORY ANALYSIS

Mr. Marc Briggs
Page 14

December 01, 1993
PACE Project Number: 431119507

Client Reference: Exxon 7-7003 (EE)

Parameter	Units	MDL		DATE ANALYZED
PACE Sample Number:			70 0197112	
Date Collected:			11/18/93	
Date Received:			11/19/93	
Client Sample ID:			W-21-MW1	
ORGANIC ANALYSIS				
HALOGENATED VOLATILE COMPOUNDS EPA 8010				
Dibromochloromethane	ug/L	0.5	ND	11/23/93
Chlorobenzene	ug/L	0.5	ND	11/23/93
Bromoform	ug/L	0.5	ND	11/23/93
1,1,2,2-Tetrachloroethane	ug/L	0.5	ND	11/23/93
1,3-Dichlorobenzene	ug/L	0.5	ND	11/23/93
1,4-Dichlorobenzene	ug/L	0.5	ND	11/23/93
1,2-Dichlorobenzene	ug/L	0.5	ND	11/23/93
Bromochloromethane (Surrogate Recovery)	%		89	11/23/93
1,4-Dichlorobutane (Surrogate Recovery)	%		107	11/23/93

These data have been reviewed and are approved for release.

Darrell C. Cain
Regional Director

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

Mr. Marc Briggs
Page 15

FOOTNOTES
for pages 1 through 14

December 01, 1993
PACE Project Number: 431119507

Client Reference: Exxon 7-7003 (EE)

MDL Method Detection Limit
ND Not detected at or above the MDL.

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

Client Reference: Exxon 7-7003 (EE)

HALOGENATED VOLATILE COMPOUNDS EPA 8010
Batch: 70 26632
Samples: 70 0197112

METHOD BLANK:

Parameter	Units	MDL	Method Blank
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
1,1-Dichloroethene	ug/L	0.5	ND
Methylene Chloride	ug/L	2.0	2.2 (1),(2)
trans-1,2-Dichloroethene	ug/L	0.5	ND
cis-1,2-Dichloroethene	ug/L	0.5	ND
1,1-Dichloroethane	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
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
Bromoform	ug/L	0.5	ND
1,1,2,2-Tetrachloroethane	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
Bromochloromethane (Surrogate Recovery)			94%

Mr. Marc Briggs
Page 17

QUALITY CONTROL DATA

December 01, 1993
PACE Project Number: 431119507

Client Reference: Exxon 7-7003 (EE)

HALOGENATED VOLATILE COMPOUNDS EPA 8010
Batch: 70 26632
Samples: 70 0197112

METHOD BLANK:

Parameter	Units	MDL	Method Blank
1,4-Dichlorobutane (Surrogate Recovery)			107%

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	MDL	Reference Value	Recv	Dupl Recv	RPD
1,1-Dichloroethane	ug/L	0.5	20	107%	107%	0%
Trichloroethene (TCE)	ug/L	0.5	20	119%	107%	10%
1,1,2-Trichloroethane	ug/L	0.5	20	100%	97%	3%
Tetrachloroethene	ug/L	0.5	20	107%	98%	8%

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

Mr. Marc Briggs
Page 18

QUALITY CONTROL DATA

December 01, 1993
PACE Project Number: 431119507

Client Reference: Exxon 7-7003 (EE)

HALOGENATED VOLATILE COMPOUNDS EPA 8010
Batch: 70 26656
Samples: 70 0197015

METHOD BLANK:

Parameter	Units	MDL	Method Blank
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
1,1-Dichloroethene	ug/L	0.5	ND
Methylene Chloride	ug/L	2.0	ND
trans-1,2-Dichloroethene	ug/L	0.5	ND
cis-1,2-Dichloroethene	ug/L	0.5	ND
1,1-Dichloroethane	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
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
Bromoform	ug/L	0.5	ND
1,1,2,2-Tetrachloroethane	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
Bromochloromethane (Surrogate Recovery)	%		116
1,4-Dichlorobutane (Surrogate Recovery)	%		117

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

Mr. Marc Briggs
Page 19

QUALITY CONTROL DATA

December 01, 1993
PACE Project Number: 431119507

Client Reference: Exxon 7-7003 (EE)

HALOGENATED VOLATILE COMPOUNDS EPA 8010
Batch: 70 26656
Samples: 70 0197015

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	MDL	Reference Value	Recv	Dupl Recv	RPD
1,1-Dichloroethane	ug/L	0.5	20	130%	120%	8%
Trichloroethene (TCE)	ug/L	0.5	20	117%	109%	7%
1,1,2-Trichloroethane	ug/L	0.5	20	125%	115%	8%
Tetrachloroethene	ug/L	0.5	20	113%	103%	9%

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

Mr. Marc Briggs
Page 20

QUALITY CONTROL DATA

December 01, 1993
PACE Project Number: 431119507

Client Reference: Exxon 7-7003 (EE)

PURGEABLE FUELS AND AROMATICS
Batch: 70 26660
Samples: 70 0196817, 70 0196825, 70 0196833

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

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	99%	94%	5%
Benzene	ug/L	0.5	40.0	94%	94%	0%
Toluene	ug/L	0.5	40.0	91%	89%	2%
Ethylbenzene	ug/L	0.5	40.0	89%	86%	3%
Xylenes, Total	ug/L	0.5	120	91%	88%	3%

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

Mr. Marc Briggs
Page 21

QUALITY CONTROL DATA

December 01, 1993
PACE Project Number: 431119507

Client Reference: Exxon 7-7003 (EE)

PURGEABLE FUELS AND AROMATICS
Batch: 70 26665
Samples: 70 0197015, 70 0197031, 70 0197058, 70 0197074, 70 0197112

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

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	96%	91%	5%
Benzene	ug/L	0.5	100	100%	100%	0%
Toluene	ug/L	0.5	100	100%	99%	1%
Ethylbenzene	ug/L	0.5	100	100%	100%	0%
Xylenes, Total	ug/L	0.5	300	98%	98%	0%

QUALITY CONTROL DATA

December 01, 1993
PACE Project Number: 431119507

Client Reference: Exxon 7-7003 (EE)

PURGEABLE FUELS AND AROMATICS
Batch: 70 26668
Samples: 70 0196965

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

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	98%	97%	1%
Benzene	ug/L	0.5	100	101%	101%	0%
Toluene	ug/L	0.5	100	102%	101%	0%
Ethylbenzene	ug/L	0.5	100	102%	101%	0%
Xylenes, Total	ug/L	0.5	300	99%	99%	0%

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

Mr. Marc Briggs
Page 23

QUALITY CONTROL DATA

December 01, 1993
PACE Project Number: 431119507

Client Reference: Exxon 7-7003 (EE)

PURGEABLE FUELS AND AROMATICS
Batch: 70 26692
Samples: 70 0196850, 70 0196876

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

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	101%	99%	2%
Benzene	ug/L	0.5	40.0	78%	82%	5%
Toluene	ug/L	0.5	40.0	87%	89%	2%
Ethylbenzene	ug/L	0.5	40.0	90%	88%	2%
Xylenes, Total	ug/L	0.5	120	94%	90%	4%

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

Mr. Marc Briggs
Page 24

QUALITY CONTROL DATA

December 01, 1993
PACE Project Number: 431119507

Client Reference: Exxon 7-7003 (EE)

PURGEABLE FUELS AND AROMATICS
Batch: 70 26696
Samples: 70 0197090

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

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	105%	103%	1%
Benzene	ug/L	0.5	100	100%	95%	5%
Toluene	ug/L	0.5	100	99%	98%	1%
Ethylbenzene	ug/L	0.5	100	99%	96%	3%
Xylenes, Total	ug/L	0.5	300	97%	94%	3%

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

Mr. Marc Briggs
Page 25

FOOTNOTES
for pages 16 through 24

December 01, 1993
PACE Project Number: 431119507

Client Reference: Exxon 7-7003 (EE)

MDL	Method Detection Limit
ND	Not detected at or above the MDL.
RPD	Relative Percent Difference
(1)	This compound is a common laboratory contaminant.
(2)	Quantitation was based upon a one point calibration.

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

pace INCORPORATED THE ASSURANCE OF QUALITY

431119·507

EXXON COMPANY, U.S.A.

P.O. Box 4415, Houston, TX 77210-4415

CHAIN OF CUSTODY

☑ Novato, CA, 11 Digital Drive, 94949 (415) 883-6100

☐ 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 #: 130015.01 — Consultant Work Release #:

Project Contact: Jeane Buckthal/Mark Boggs — Phone #: (408) 264-7723 — Fax #: 264-2435 — Laboratory Work Release #: 09300255

EXXON Contact: Marla Guensler ☑ EE ☐ C&M — Phone #: (510) 876-8776 — 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: PACE — Cooler #: COURIER — 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	11/18	H_2O	HCL	2	19681.7	X				
MW6R	"	↓	↓	2	19682.5	X				
W-28-MW6	11/18 12:45	↓	↓	3	19683.3	X				
MW3R	11/18	↓	↓	2	19684.1				X	
W-21-MW3	11/18 1:15	↓	↓	3	19685.0	X				
MW7R	11/18	↓	↓	2	19686.8				X	
W-20-MW7	11/18 3:30	↓	↓	3	19687.6	X				
MW5R	11/18	↓	↓	2	19690.3				X	
MW4R	11/18	↓	↓	2	19692.2				X	
W-21-MW5	11/18 1:30	↓	↓	3	19696.5	X				

Relinquished by/Affiliation	Date	Time	Accepted by/Affiliation	Date	Time
Chris Allen	11/18	5:00	Marc A. Boggs	11/18	500
Marc A Boggs	11/19	1335	Ed [illegible] Pace	11/19	1435
Ed [illegible] - Pace	11/19	1640	Sandra Briones Pace	11/19/93	1640

Additional Comments: 10/4

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

pace INCORPORATED THE ASSURANCE OF QUALITY

EXXON COMPANY, U.S.A.

P.O. Box 4415, Houston, TX 77210-4415

CHAIN OF CUSTODY

431119.507

[✓] Novato, CA, 11 Digital Drive, 94949 (415) 883-6100

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

Consultant's Name: RESNA

Page 2 of 3

Address: 3315 Almaden Expwy #34 San Jose CA 95118

Site Location: 349 Main St

Project #:

Consultant Project #: 130015.01

Consultant Work Release #:

Project Contact: Joane Burkhal/Mark Boggs

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

Laboratory Work Release #: 09300255

EXXON Contact: Marla Guensler [✓] EE [ ] C&M

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

EXXON RAS #: 7-7003

Sampled by (print): Chris Allan

Sampler's Signature: Chris Allan

Shipment Method: Courier

Air Bill #.

Shipment Date:

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

Sample Condition as Received
Temperature ° C: PACE
Cooler #: COURIER
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	VOC	Hold								COMMENTS
W-23-MW4	11/18 1:45	H2O	HCl	6	19701.5	X			X									
MW8B	11/18	↓	↓	2	19702.3					X								
W-20-MW8	11/18 2:00			3	19703.1	X												
MW2B	11/18			2	19704.0					X								
W-20-MW2	11/18 2:15			3	19705.8	X												
VE2B	11/18			2	19706.6					X								
W-20-VE2	11/18 2:30			3	19707.4	X												
V[illegible]B	11/18			2	19708.2					X								
[illegible]	11/18 2:40			3	19709.0	X												
[illegible]	11/18			2	19710.4					X								

[illegible]liation	Date	Time	Accepted by/Affiliation	Date	Time
	11/18	5:00	Marc Boggs	11/18	500
	11/19	1335	Ed [illegible] Pace	11/19	1435
	[illegible]19	164[illegible]	Sandra Briones Pace	11/19/93	1640

Additional Comments:

10/4

Pink - Lab Goldenrod - Consultant Field Staff

431119.507

pace INCORPORATED THE ASSURANCE OF QUALITY

EXXON COMPANY, U.S.A.

P.O. Box 4415, Houston, TX 77210-4415

CHAIN OF CUSTODY

[✓] Novato, CA, 11 Digital Drive, 94949 (415) 883-6100

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

Consultant's Name: BES/NA — Page 3 of 3

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

Project #: — Consultant Project #: 130015.01 — Consultant Work Release #:

Project Contact: Jeane Buckthal/Mark Briggs — Phone #: (408) 264-7723 Fax #: 264-2435 — Laboratory Work Release #: 08300255

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: PACE
Cooler #: COURIER
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	VOC								COMMENTS
W-21-MW1	11/18 2:50	H2O	HCL	6	19711.2	X			X								

ANALYSIS REQUIRED

Relinquished by/Affiliation	Date	Time	Accepted by/Affiliation	Date	Time
Chris Allen	11/18	5:00	Marc A Briggs	11/18	500
Marc A Briggs	11/19	1335	Ed Faltz - Pace	11/19	1435
Ed Faltz - Pace	11/19	1640	Sandra Briones - Pace	11/19/93	1640

Additional Comments:

10/4

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