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9/29/93



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San Jose, CA 95118
Phone: (408) 264-7723
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LETTER REPORT
QUARTERLY GROUNDWATER MONITORING
Third Quarter 1993
at
Exxon Station 7-0210
7840 Amador Valley Boulevard
Dublin, California

130001.01

sep 1993

3315 Almaden Expressway, Suite 34
San Jose, CA 95118
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September 20, 1993
0609MGUE
130001.01

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

Subject: Letter Report on Third Quarter 1993 Groundwater Monitoring at Exxon
Station 7-0210, 7840 Amador Valley Boulevard, Dublin, California

Ms. Guensler:

As requested by Exxon Company U.S.A. (Exxon), this letter report summarizes the methods and results of the third quarter 1993 groundwater monitoring performed by RESNA Industries Inc. (RESNA) at the above-referenced site. The site is located on the eastern corner of the intersection of Amador Valley Boulevard and Regional Street in Dublin, California, as shown on the Site Vicinity Map (Plate 1). Exxon has contracted with RESNA to perform quarterly groundwater monitoring, sampling, and analyses to evaluate the groundwater gradient, flow direction, and gasoline hydrocarbon concentrations in the groundwater.

The site was owned and operated by Texaco until 1988 when it was purchased by Exxon. In February 1990, Exxon replaced product dispensers and installed a vapor recovery system. In October 1992, Exxon replaced three 8,000-gallon single-walled steel underground storage tanks (USTs) with 12,000-gallon double-walled fiberglass-reinforced plastic (FRP) USTs. The piping was also upgraded to double-walled FRP. The locations of the USTs, groundwater monitoring wells, and pertinent site features are shown on Plate 2, Generalized Site Plan.

Groundwater Sampling and Gradient Evaluation

RESNA personnel performed the latest quarterly groundwater monitoring and sampling on August 23, 1993. Field work during this monitoring consisted of measuring depth-to-water (DTW) levels, subjectively analyzing water from the wells for the presence of floating product, and purging and sampling the groundwater from monitoring wells MW-1 through MW-4 for laboratory analysis. The results of the subjective analyses are summarized in Table 1, Cumulative Groundwater Monitoring Data. Field methods are described in Appendix A, Groundwater Sampling Protocol.

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 the previous monitoring events at the site are summarized in Table 1. Based on the August 23, 1993, groundwater elevation data, a nearly flat local groundwater gradient of 0.003 with a flow direction toward the east-southeast was interpreted for the site. This groundwater gradient and flow direction, shown on Plate 3, Groundwater Gradient Map, is consistent with the results from previous monitorings.

Monitoring wells MW-1 through MW-4 were purged and sampled in accordance with the attached protocol (Appendix A). Well purge data sheets for the parameters monitored on August 23, 1993, are also included in Appendix A.

Results of Laboratory Analysis

Groundwater samples collected from monitoring wells MW-1 through MW-4 were analyzed for gasoline constituents benzene, toluene, ethylbenzene, and total xylenes (BTEX), and total petroleum hydrocarbons as gasoline (TPHg) using modified EPA Methods 5030/8015/8020. Groundwater samples were analyzed by PACE Incorporated Laboratories (California Hazardous Waste Testing Laboratory Certification No. 1282) in Novato, California. The laboratory analyses and chain of custody record sheets are included in Appendix B. The results of these and previous groundwater analyses are summarized in Table 2, Cumulative Results of Laboratory Analyses of Groundwater Samples. Graphic interpretations of the lateral extent of TPHg and benzene in the groundwater, based on the August 23, 1993 laboratory analyses, are shown on Plate 4, TPHg Concentrations in Groundwater, and Plate 5, Benzene Concentrations in Groundwater.

Results of the August 23, 1993 laboratory analyses of groundwater samples from monitoring wells MW-1 through MW-4 indicate:

- o TPHg was detected in wells MW-1 and MW-2 at a concentrations of 80 parts per billion (ppb) and 140 ppb, respectively. TPHg was not detected at the method detection limit (MDL) of 50 ppb in wells MW-3 and MW-4;
- o benzene was detected in well MW-3 at a concentration of 2.3 ppb, which is greater than the State of California Department of Health Services (DHS) Maximum Contaminant Level (MCL) of 1.0 ppb benzene for drinking water. Since May 21, 1992, when monitoring began at the site, benzene has not been detected at the MDL of 0.5 ppb in well MW-3. Benzene was not detected at the MDL in wells MW-1, MW-2, and MW-4;
- o toluene, ethylbenzene, and total xylenes in wells MW-1 through MW-4 were either not detected at the MDL of 0.5 ppb, or were detected at concentrations less than the DHS Maximum Contaminant Levels (MCLs) and Drinking Water Action Level (DWAL) of 100 ppb, 680 ppb, and 1,750 ppb respectively.

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.

Copies of this report should be forwarded to:

Mr. Sum Arigalia
California Regional Water Quality Control Board
San Francisco Bay Region
2101 Webster Street, Suite 500
Oakland, California 94612

Ravi Arulanantham
Division of Hazardous Materials
Alameda County Health Agency
80 Swan Way, Room 200
Oakland, California 94621

Quarterly Groundwater Monitoring
Exxon Station 7-0210, Dublin, California

September 20, 1993
130001.01


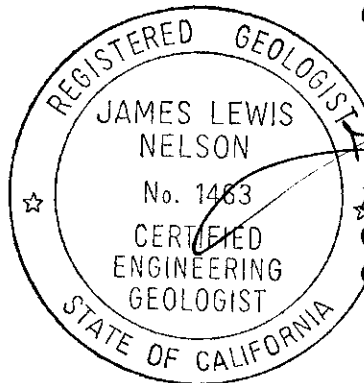
Mr. Jerry Killingstad
Alameda County Flood Control and
Water Conservation District (Zone 7)
5997 Parkside Drive
Pleasanton, California 94566

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

Sincerely,
RESNA Industries Inc.



Christian Allen
Geologic Technician



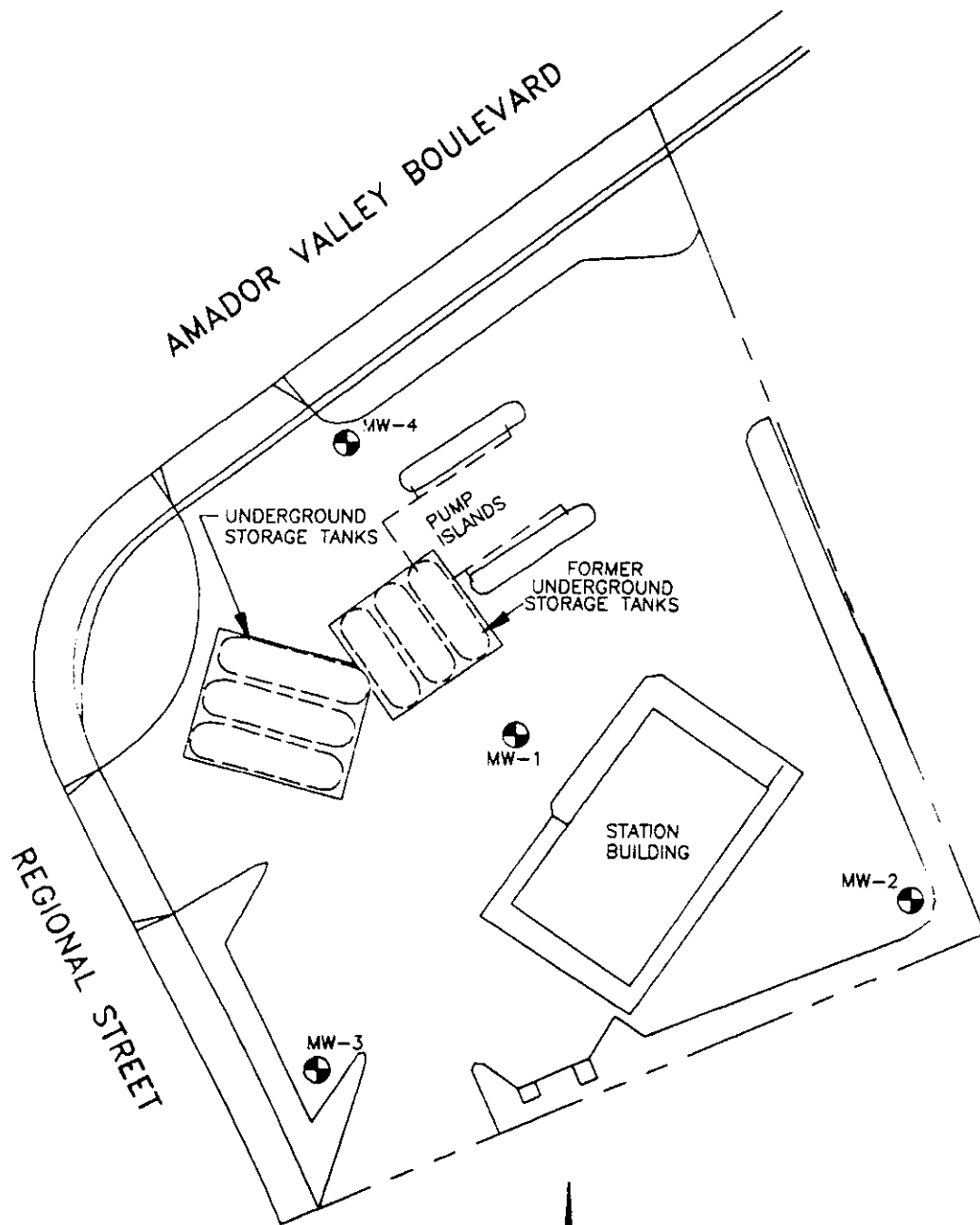
James L. Nelson
Certified Engineering
Geologist No. 1463

Enclosures: References

Plate 1, Site Vicinity Map
Plate 2, Generalized Site Plan
Plate 3, Groundwater Gradient Map (August 23, 1993)
Plate 4, TPHg Concentrations in Groundwater (August 23, 1993)
Plate 5, Benzene Concentrations in Groundwater (August 23, 1993)

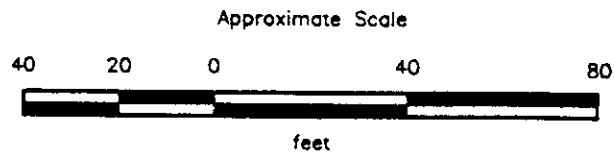
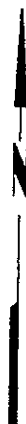
Table 1, Cumulative Groundwater Monitoring Data
Table 2, Cumulative Results of Laboratory Analyses of Groundwater Samples

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



EXPLANATION

MW-4 = Groundwater monitoring well



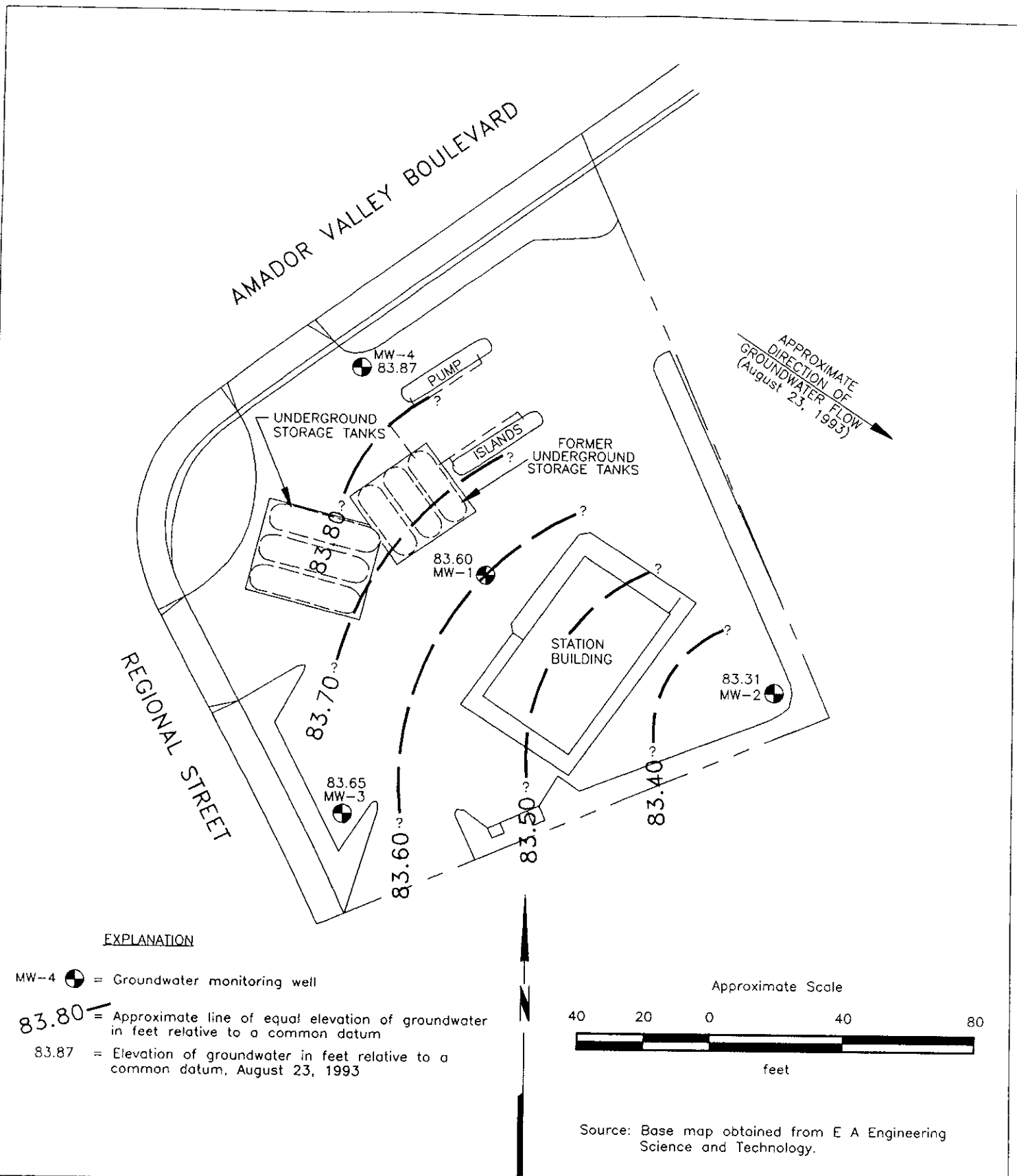
Source: Base map obtained from E A Engineering Science and Technology.

RESNA
Working to Restore Nature


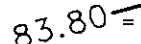
PROJECT 130001.01

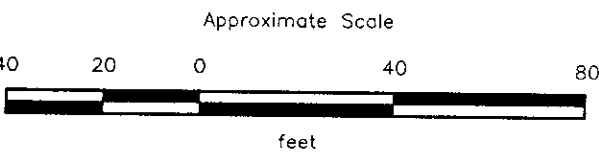
GENERALIZED SITE PLAN
EXXON Station 7-0210
7840 Amador Valley Boulevard
Dublin, California

PLATE
2



EXPLANATION

- MW-4  = Groundwater monitoring well
- 83.80  = Approximate line of equal elevation of groundwater in feet relative to a common datum
- 83.87 = Elevation of groundwater in feet relative to a common datum, August 23, 1993



Source: Base map obtained from E A Engineering Science and Technology.



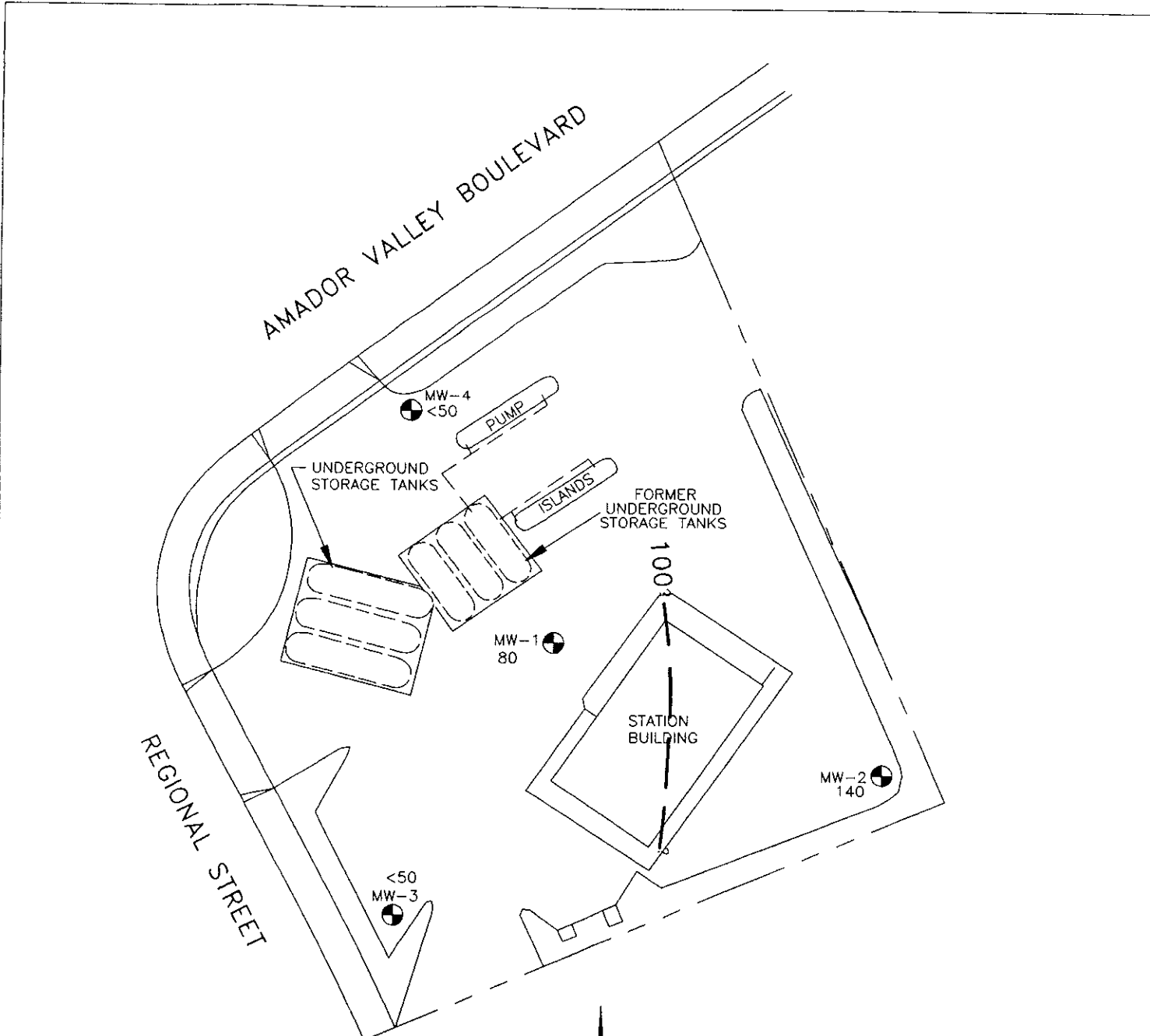
PROJECT 130001.01

13000103


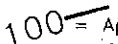
GROUNDWATER GRADIENT MAP
EXXON Station 7-0210
7840 Amador Valley Boulevard
Dublin, California

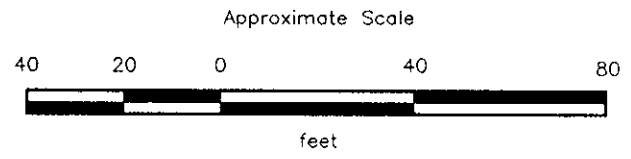
PLATE

3



EXPLANATION

- MW-4  = Groundwater monitoring well
- 100  = Approximate line of equal concentration of TPHg in groundwater in parts per billion (ppb)
- 140 = Concentration of TPHg in groundwater in ppb, August 23, 1993



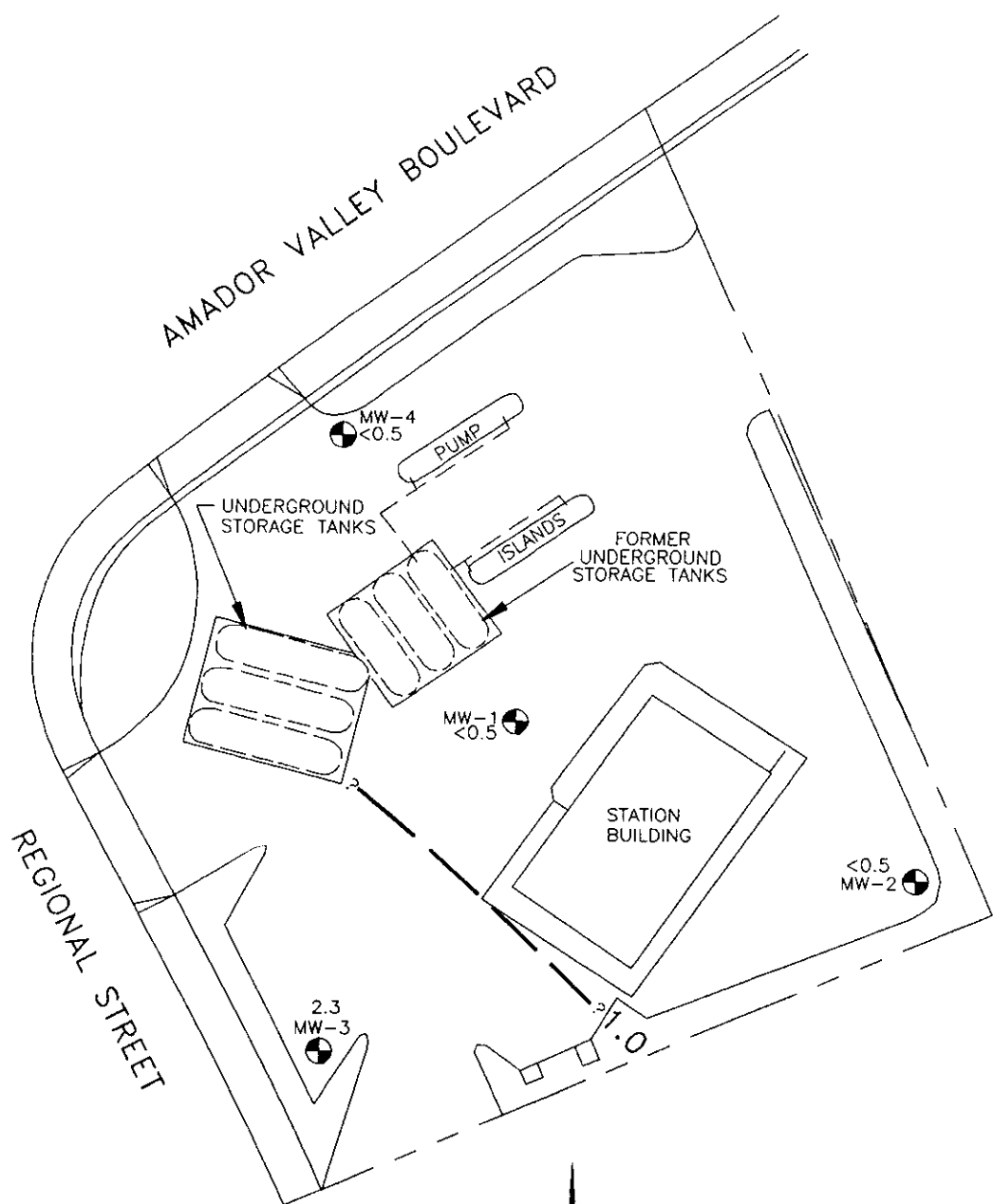
Source: Base map obtained from E A Engineering Science and Technology.




PROJECT 130001.01 13000103

**TPHg CONCENTRATIONS
IN GROUNDWATER
EXXON Station 7-0210
7840 Amador Valley Boulevard
Dublin, California**

**PLATE
4**

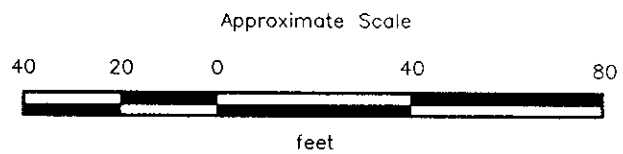
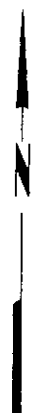


EXPLANATION

MW-4  = Groundwater monitoring well

-1.0 = Approximate line of equal concentration of Benzene in groundwater in parts per billion (ppb)

2.3 = Concentration of Benzene in groundwater in ppb, August 23, 1993



Source: Base map obtained from E A Engineering Science and Technology.



PROJECT 130001.01

13000103

**BENZENE CONCENTRATIONS
IN GROUNDWATER
EXXON Station 7-0210
7840 Amador Valley Boulevard
Dublin, California**

PLATE

5

Quarterly Groundwater Monitoring
Exxon Station 7-0210, Dublin, California

September 20, 1993
130001.01

TABLE 1
CUMULATIVE GROUNDWATER MONITORING DATA
Exxon Station 7-0210
Dublin, California

WELL	DATE	WELL ELEVATION*	DEPTH TO WATER	GROUNDWATER ELEVATION	FLOATING PRODUCT
MW-1 EA RESNA	05/21/92	96.32	14.45	81.87	None
	02/10/93		12.22	84.10	None
	05/20/93		10.74	85.58	None
	06/23/93		11.74	84.58	None
	08/23/93		12.72	83.60	None
MW-2 EA RESNA	05/21/92	95.91	14.30	81.61	None
	02/10/93		12.34	83.57	None
	05/20/93		10.73	85.18	None
	06/23/93		11.74	84.17	None
	08/23/93		12.60	83.31	None
MW-3 EA RESNA	05/21/92	97.95	16.05	81.90	None
	02/10/93		13.77	84.18	None
	05/20/93		12.32	85.63	None
	06/23/93		13.34	84.61	None
	08/23/93		14.30	83.65	None
MW-4 EA RESNA	05/21/92	96.69	14.59	82.10	None
	02/10/93		12.30	84.39	None
	05/20/93		10.75	85.94	None
	06/23/93		11.78	84.91	None
	08/23/93		12.82	83.87	None

Measurements in feet

- : Well elevation relative to a common datum: fire hydrant at northwest corner of the site assumed elevation of 100.00 feet.
 - EA : Monitoring by EA Engineering, Science, and Technology
 - RESNA : RESNA Industries Inc. began monitoring
- RESNA assumes all wells are screened in the same hydrostratigraphic unit.

TABLE 2
CUMULATIVE RESULTS OF LABORATORY ANALYSES
OF GROUNDWATER SAMPLES

Exxon Station 7-0210
Dublin, California

Page 1 of 2
See notes on page 2

WELL	DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES
MW-1 EA	05/21/92	<50	<0.5	<0.5	<0.5	<0.5
RESNA	02/10/93	2,600	3.1	<0.5	1.8	0.6
	05/20/93	1,000	1.9	<0.5	1.8	<1.0
	06/23/93	1,300	1.0	<0.5	1.2	<0.5
	08/23/93	80	<0.5	<0.5	<0.5	0.8
MW-2 EA	05/21/92	<50	<0.5	<0.5	<0.5	<0.5
RESNA	02/10/93	<50	<0.5	<0.5	<0.5	<0.5
	05/20/93*	320	<0.5	<0.5	<0.5	<1.0
	06/23/93	130	<0.5	<0.5	<0.5	<0.5
	08/23/93	140	<0.5	<0.5	<0.5	1.1
MW-3 EA	05/21/92	<50	<0.5	<0.5	<0.5	<0.5
RESNA	02/10/93	<50	<0.5	<0.5	<0.5	0.7
	05/20/93	<50	<0.5	<0.5	<0.5	<1.0
	06/23/93	<50	<0.5	<0.5	<0.5	<0.5
	08/23/93	<50	2.3	1.2	1.4	4.1
MW-4 EA	05/21/93	<50	<0.5	<0.5	<0.5	<0.5
RESNA	02/10/93	<50	<0.5	<0.5	<0.5	<0.5
	05/20/93*	<50	1.4	1.0	<0.5	1.8
	06/23/93	<50	<0.5	<0.5	<0.5	<0.5
	08/23/93	<50	<0.5	<0.5	<0.5	0.8
	MCLs	---	1.0	---	680	1,750
	DWAL	---	---	100	---	---

TABLE 2
CUMULATIVE RESULTS OF LABORATORY ANALYSES
OF GROUNDWATER SAMPLES
Exxon Station 7-0210
Dublin, California
Page 2 of 2

Results in parts per billion (ppb).

<	:	Less than the laboratory detection limit.
NA	:	Not Analyzed
---	:	Not applicable
TPHg	:	Total Petroleum Hydrocarbons as gasoline analyzed using modified EPA method 5030/8015.
BTEX	:	Analyzed using modified EPA method 5030/8020.
MCLs	:	Maximum Contaminant Levels, DHS (October 1990).
DWAL	:	Drinking Water Action Level, DHS (October 1990).
*	:	Groundwater samples analyzed in excess of recommended EPA holding time
EA	:	Sampling by EA Engineering, Science, and Technology
RESNA	:	RESNA Industries Inc. began sampling

APPENDIX A
GROUNDWATER SAMPLING PROTOCOL
AND WELL PURGE DATA SHEETS

GROUNDWATER SAMPLING PROTOCOL

The static water level and floating product level, if present, in each well that contained water and/or floating product 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 product thickness, when necessary, by multiplying product thickness (PT) by a correction factor 0.8 and subtracting from the DTW level (Adjusted DTW = DTW - [PT x 0.8]).

Groundwater samples collected for subjective evaluation are collected by gently lowering approximately half the length of a clean Teflon® bailer past the air-water interface (if possible) and collecting a sample from near the surface of the water in the well. The samples are checked for measurable floating hydrocarbon product or sheen. Any floating product is 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. Approximately four well casing volumes are purged before those characteristics stabilize. Water samples from the wells that do not obtain stability of the temperature, pH, and conductivity are considered to be "grab samples". Turbidity measurements are also collected from the purged well water. 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 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 7-0210

Job No. 130001.01

Date: August 23, 1993

Page 1 of 1

Well No. MW-1

Time Started 1:44

TIME (hr)	GALLONS (cum.)	TEMP. (F)	pH	CONDUCT. (micromho)	TURBIDITY (NTU)
1:44	Start purging MW-1				
1:44	0	82.7	6.75	1.17	16.5
1:50	7	80.2	6.73	1.12	12.1
1:56	14	78.7	6.80	1.09	10.5
2:04	21	78.3	6.81	1.06	10.5
	Dry at 21.5				
2:52	29	86.8	6.83	1.19	7.8
2:52	Stop purging MW-1				
Notes:					
Well Diameter (inches) : 4					
Depth to Bottom (feet) : 23.69					
Depth to Water - initial (feet) : 12.72					
Depth to Water - final (feet) : 12.83					
% recovery : 99					
Time Sampled : 4:00					
Gallons per Well Casing Volume : 7.16					
Gallons Purged : 29					
Well Casing Volume Purged : 4.0					
Approximate Pumping Rate (gpm) : 0.4					

WELL PURGE DATA SHEET

Project Name: Exxon 7-0210

Job No. 130001.01

Date: August 23, 1993

Page 1 of 1

Well No. MW-2

Time Started 1:05

TIME (hr)	GALLONS (cum.)	TEMP. (F)	pH	CONDUCT. (micromho)	TURBIDITY (NTU)
1:05	Start purging MW-2				
1:05	0	85.5	6.81	1.19	6.4
1:09	5	80.3	6.80	1.08	3.7
1:13	10	80.3	6.79	1.07	4.5
1:17	15	78.9	6.82	1.06	5.1
1:21	20	77.9	6.80	1.05	4.4
1:21	Stop purging MW-2				
Notes:					
Well Diameter (inches) : 4					
Depth to Bottom (feet) : 19.96					
Depth to Water - initial (feet) : 12.60					
Depth to Water - final (feet) : 12.61					
% recovery : 100					
Time Sampled : 3:35					
Gallons per Well Casing Volume : 4.81					
Gallons Purged : 20					
Well Casing Volume Purged : 4.0					
Approximate Pumping Rate (gpm) : 1.25					

WELL PURGE DATA SHEET

Project Name: Exxon 7-0210

Job No. 130001.01

Date: August 23, 1993

Page 1 of 1

Well No. MW-3

Time Started 12:13

TIME (hr)	GALLONS (cum.)	TEMP. (F)	pH	CONDUCT. (micromho)	TURBIDITY (NTU)
10:45	Start purging MW-3				
10:45	0	83.7	7.09	1.33	14.4
10:55	9	77.5	6.78	.99	3.8
11:04	18	77.1	6.73	.95	2.1
11:14	27	78.8	6.78	.98	2.2
11:23	35	77.4	6.74	.95	1.5
11:23	Stop purging MW-3				
Notes:					
Well Diameter (inches) : 4					
Depth to Bottom (feet) : 27.65					
Depth to Water - initial (feet) : 14.30					
Depth to Water - final (feet) : 14.31					
% recovery : 100					
Time Sampled : 1:30					
Gallons per Well Casing Volume : 8.72					
Gallons Purged : 35					
Well Casing Volume Purged : 4.0					
Approximate Pumping Rate (gpm) : 1.2					

WELL PURGE DATA SHEET

Project Name: Exxon 7-0210

Job No. 130001.01

Date: August 23, 1993

Page 1 of 1

Well No. MW-4

Time Started 11:38

TIME (hr)	GALLONS (cum.)	TEMP. (F)	pH	CONDUCT. (micromho)	TURBIDITY (NTU)
11:38	Start purging MW-4				
11:38	0	77.4	6.69	1.09	11.2
11:46	8	72.1	6.74	1.03	15.8
11:55	16	72.1	6.72	1.03	7.5
12:03	24	71.3	6.76	1.02	3.5
11:11	32	72.0	6.81	1.02	2.5
11:11	Stop purging MW-4				

Notes:

Well Diameter (inches) : 4
 Depth to Bottom (feet) : 25.03
 Depth to Water - initial (feet) : 12.82
 Depth to Water - final (feet) : 12.84
 % recovery : 100
 Time Sampled : 2:50
 Gallons per Well Casing Volume : 8.00
 Gallons Purged : 32
 Well Casing Volume Purged : 4.0
 Approximate Pumping Rate (gpm) : 1.0

APPENDIX B

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

REPORT OF LABORATORY ANALYSIS

September 02, 1993

RECEIVED

SEP 7 1993

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

RESNA
SAN JOSE

RE: PACE Project No. 430824.504
Client Reference: Exxon 7-0210 (EE)

Dear Mr. Briggs:

Enclosed is the report of laboratory analyses for samples received August 24, 1993.

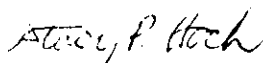
Please note that Methyl tert-butyl ether was detected in the following samples at the approximated levels:

W-12-MW2	150ug/L
W-12-MW1	41ug/L

Footnotes are given at the end of the report.

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

Sincerely,



Stacy P. Hoch
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

RESNA
 3315 Almaden Expressway Suite 34
 San Jose, CA 95118

September 02, 1993
 PACE Project Number: 430824504
 PACE WPP# 3139

Attn: Mr. Marc Briggs

Client Reference: Exxon 7-0210 (EE)

PACE Sample Number: 70 0139201
 Date Collected: 08/23/93
 Date Received: 08/24/93
 W-14-MW3

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>DATE ANALYZED</u>
------------------	--------------	------------	----------------------

ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS

TOTAL FUEL HYDROCARBONS, (LIGHT):			-	08/30/93
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND	08/30/93
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	08/30/93
Benzene	ug/L	0.5	2.3	08/30/93
Toluene	ug/L	0.5	1.2	08/30/93
Ethylbenzene	ug/L	0.5	1.4	08/30/93
Xylenes, Total	ug/L	0.5	4.1	08/30/93

REPORT OF LABORATORY ANALYSIS

Mr. Marc Briggs
 Page 2

September 02, 1993
 PACE Project Number: 430824504

Client Reference: Exxon 7-0210 (EE)

PACE Sample Number:

70 0139210

Date Collected:

08/23/93

Date Received:

08/24/93

Client Sample ID:

W-12-MW4

Parameter

Units

MDL

DATE ANALYZED

ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS

TOTAL FUEL HYDROCARBONS, (LIGHT):

Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	-	09/01/93
--	------	----	---	----------

PURGEABLE AROMATICS (BTXE BY EPA 8020M):			ND	09/01/93
--	--	--	----	----------

Benzene	ug/L	0.5	-	09/01/93
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Toluene	ug/L	0.5	ND	09/01/93
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Ethylbenzene	ug/L	0.5	ND	09/01/93
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Xylenes, Total	ug/L	0.5	0.8	09/01/93
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REPORT OF LABORATORY ANALYSIS

Mr. Marc Briggs
 Page 3

September 02, 1993
 PACE Project Number: 430824504

Client Reference: Exxon 7-0210 (EE)

PACE Sample Number:
 Date Collected:
 Date Received:
 Client Sample ID:
 Parameter

70 0139236
 08/23/93
 08/24/93
 W-12-MW2

Units MDL DATE ANALYZED

ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS

TOTAL FUEL HYDROCARBONS, (LIGHT):

Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	-	08/31/93
PURGEABLE AROMATICS (BTXE BY EPA 8020M):				
Benzene	ug/L	0.5	ND	08/31/93
Toluene	ug/L	0.5	ND	08/31/93
Ethylbenzene	ug/L	0.5	ND	08/31/93
Xylenes, Total	ug/L	0.5	1.1	08/31/93

REPORT OF LABORATORY ANALYSIS

Mr. Marc Briggs
 Page 4

September 02, 1993
 PACE Project Number: 430824504

Client Reference: Exxon 7-0210 (EE)

PACE Sample Number: 70 0139244
 Date Collected: 08/23/93
 Date Received: 08/24/93
 Client Sample ID: W-12-MWI

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>DATE ANALYZED</u>
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ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS

TOTAL FUEL HYDROCARBONS, (LIGHT):				08/31/93
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	80	08/31/93
PURGEABLE AROMATICS (BTXE BY EPA 8020M):				08/31/93
Benzene	ug/L	0.5	ND	08/31/93
Toluene	ug/L	0.5	ND	08/31/93
Ethylbenzene	ug/L	0.5	ND	08/31/93
Xylenes, Total	ug/L	0.5	0.8	08/31/93

These data have been reviewed and are approved for release.

Darrell C. Cain
 Darrell C. Cain
 Regional Director

Mr. Marc Briggs
Page 5

FOOTNOTES
for pages 1 through 4

September 02, 1993
PACE Project Number: 430824504

Client Reference: Exxon 7-0210 (EE)

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

REPORT OF LABORATORY ANALYSIS

Mr. Marc Briggs
 Page 6

QUALITY CONTROL DATA

September 02, 1993
 PACE Project Number: 430824504

Client Reference: Exxon 7-0210 (EE)

PURGEABLE FUELS AND AROMATICS

Batch: 70 24118

Samples: 70 0139201, 70 0139236, 70 0139244

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	93%	86%	7%
Benzene	ug/L	0.5	100	101%	102%	0%
Toluene	ug/L	0.5	100	99%	101%	2%
Ethylbenzene	ug/L	0.5	100	94%	95%	1%
Xylenes, Total	ug/L	0.5	300	103%	104%	0%

REPORT OF LABORATORY ANALYSIS

Mr. Marc Briggs
 Page 7

QUALITY CONTROL DATA

September 02, 1993
 PACE Project Number: 430824504

Client Reference: Exxon 7-0210 (EE)

PURGEABLE FUELS AND AROMATICS

Batch: 70 24177
 Samples: 70 0139210

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	86%	92%	6%
Benzene	ug/L	0.5	100	93%	98%	5%
Toluene	ug/L	0.5	100	91%	96%	5%
Ethylbenzene	ug/L	0.5	100	92%	91%	1%
Xylenes, Total	ug/L	0.5	300	97%	99%	2%

REPORT OF LABORATORY ANALYSIS

Mr. Marc Briggs
Page 8

FOOTNOTES
for pages 6 through 7

September 02, 1993
PACE Project Number: 430824504

Client Reference: Exxon 7-0210 (EE)

MDL Method Detection Limit
ND Not detected at or above the MDL.
RPD Relative Percent Difference

EXXON COMPANY, U.S.A.

P.O. BOX 4032 • CONCORD, CA 94524-2032
MARKETING DEPARTMENT

FUEL PRODUCTS•BUSINESS SERVICES
ENVIRONMENTAL ENGINEERING

MARLA D. GUENSLER
SENIOR ENVIRONMENTAL ENGINEER

(510) 246-8776
(510) 246-8798 FAX

September 26, 1993

Ms. Eva Chu
Alameda County Health Agency
Division of Hazardous Materials
Department of Environmental Health
80 Swan Way, Room 350
Oakland, CA 94621

Re: Exxon RAS #7-0210/7840 Amador Valley Blvd., Dublin, CA

Dear Ms. Chu:

Attached for your review and comment is a report entitled Letter Report Quarterly Groundwater Monitoring for the above referenced site. This report, prepared by RESNA Industries, Inc., of San Jose, California, details the results of the ground water monitoring and sampling event which occurred in the Third Quarter 1993.

If you have any questions or comments, or require additional information, please do not hesitate to contact me at the above listed phone number.

Sincerely,



Marla D. Guensler
Senior Environmental Engineer

MDG/mdg

enclosure: RESNA Quarterly Report

cc: w/enclosure:

Mr. Sum Arigalia - San Francisco Bay RWQCB

Mr. Jerry Killingstad - Alameda County Flood Control and Water Conservation District

w/o enclosure:

Mr. Marc Briggs - RESNA Industries Inc.

EXXON COMPANY, U.S.A.

Post Office Box 4032 . Concord, CA 94524-2032

ENVIRONMENTAL ENGINEERING

MARLA D. GUENSLER
ENVIRONMENTAL ENGINEER
(510) 246-8776

April 5, 1993

Ms. Eva Chu
Alameda County Department of Environmental Health
80 Swan Way, Room 200
Oakland, CA 94621

Subject: Exxon RAS #7-0210
7840 Amador Valley Blvd.
Dublin, CA

Dear Ms. Chu:

Attached for your review and comment is a Letter Report Quarterly Groundwater Monitoring for the above referenced site. This report, prepared by RESNA Industries, Inc., of San Jose, California, details the results of the First Quarter 1993 monitoring and sampling events.

Should you have any questions or comments, or require additional information, please do not hesitate to contact me at (510) 246-8776.

Sincerely,

Marla D. Guensler

Marla D. Guensler
Exxon Senior Environmental Engineer

MDG/mdg

Attachment

c - w/attachment:

Mr. Arigalia Sum - San Francisco RWQCB

w/o attachment:

Mr. Marc Briggs - RESNA, San Jose
Mr. David Goodrum



✓
4/20/93

exxon0393

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

EXXON COMPANY, U.S.A.
QUARTERLY STATUS REPORT
January - March 1993
March 30, 1993

RAS #7-0210
7840 Amador Valley Boulevard
Dublin, California
Job No: 130001

Work Performed During This Quarter

January through March 1993

- o Performed quarterly monitoring first quarter 1993 on February 10, 1993.
- o Submitted report for first quarter 1993 Quarterly Monitoring to Exxon for review and approval on March 9, 1993.

Groundwater Sampling (sampled 2/10/93) Results: (ug/L)

<u>Well</u>	<u>TPHg</u>	<u>B</u>	<u>T</u>	<u>E</u>	<u>X</u>	<u>Historical Trends</u>
MW-1	2,600	3.1	<0.5	1.8	0.6	Increased
MW-2	<50	<0.5	<0.5	<0.5	<0.5	Unchanged
MW-3	<50	<0.5	<0.5	<0.5	0.7	Unchanged
MW-4	<50	<0.5	<0.5	<0.5	<0.5	Unchanged

Free Phase Product Recovery

Not Applicable

Work to be Performed Next Quarter

Estimated Completion Date 06/30/93

- o Perform Quarterly Monitoring for the second quarter 1993 on May 25, 1993.

Work to be Performed Next 12 Months

Estimated Completion Date 03/31/94

- o Continue quarterly groundwater sampling program to evaluate the trends of gasoline hydrocarbons and groundwater gradient in first encountered groundwater below the site.

EXXON COMPANY, U.S.A.

POST OFFICE BOX 4032 . CONCORD, CA 94524-2032

ENVIRONMENTAL ENGINEERING

MARLA D. GUENSLER

SENIOR ENVIRONMENTAL ENGINEER

(510) 246-8776

90 FEB 10 11:15

February 25, 1993

Ms. Eva Chu
Alameda County Department of Environmental Health
80 Swan Way, Room 200
Oakland, CA 94621

Subject: Exxon RAS #7-0210, 7840 Amador Valley Blvd., Dublin, CA

Dear Ms. Chu:

Exxon is in receipt of your letter dated December 31, 1992 with regard to the above referenced site. Per your request, enclosed are the following reports:

- **Geotechnical Site Assessment Report** prepared by Alton Geoscience of Pleasanton, California, October 1991;
- **Report of Tank Replacement & Closure Sampling** prepared by EA Engineering of Lafayette, California, December, 1991.

Also attached is a copy of a letter dated January 24, 1992 from Exxon which submitted the tank replacement report to your agency at that time.

The project file for this site was transferred to RESNA Industries, Inc., of San Jose, California, on January 1, 1993. Exxon has contracted with RESNA to complete quarterly groundwater monitoring, sampling, and reporting for the site. The first event was scheduled for February, 1993. Exxon will submit the report detailing such in the near future. It is Exxon's intent to continue with the groundwater monitoring and sampling program at this time.

Should you have any questions or comments, or require additional information, please do not hesitate to contact me at the above listed phone number.

Sincerely,

Marla D. Guensler
Marla D. Guensler
Senior Environmental Engineer

MDG/mdg

Enclosures

c - w/enclosures

- Mr. Tom Hathcox - Dougherty Regional Fire Authority
- Mr. Richard Hiatt - San Francisco Regional Water Quality Control Board
- Mr. Dave Higgins - RESNA Industries, Inc., San Jose, CA

A DIVISION OF EXXON CORPORATION



EXXON COMPANY, U.S.A.

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MARKETING DEPARTMENT

93 AUG 17 PM 1:27

FUEL PRODUCTS • BUSINESS SERVICES
ENVIRONMENTAL ENGINEERING

MARLA D. GUENSLER
SENIOR ENVIRONMENTAL ENGINEER

(510) 246-8776
(510) 246-8798 FAX

August 12, 1993

Ms. Eva Chu
Alameda County Health Agency
Division of Hazardous Materials
Department of Environmental Health
80 Swan Way, Room 350
Oakland, CA 94621

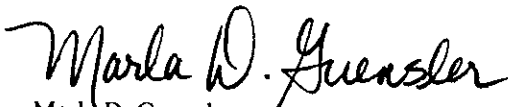
Re: Exxon RAS #7-0210/7840 Amador Valley Blvd., Dublin, CA

Dear Ms. Chu:

Attached for your review and comment is a report entitled Letter Report Quarterly Groundwater Monitoring for the above referenced site. This report, prepared by RESNA Industries, Inc., of San Jose, California, details the results of the ground water monitoring and sampling event which occurred in the Second Quarter 1993.

If you have any questions or comments, or require additional information, please do not hesitate to contact me at the above listed phone number.

Sincerely,



Marla D. Guensler
Senior Environmental Engineer

MDG/mdg

enclosure: RESNA Quarterly Report

cc: w/enclosure:

Mr. Sum Arigalia - San Francisco Bay RWQCB

Mr. Jerry Killingstad - Alameda County Flood Control and Water Conservation District

w/o enclosure:

Mr. Marc Briggs - RESNA Industries Inc.