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

First Quarter 1993

at

Exxon Station 7-0210 7840 Amador Valley Boulevard Dublin, California

130001.01



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

> March 9, 1993 0218MGUE 130001.01

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

Subject:

Letter Report on First 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 first 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.



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Groundwater Sampling and Gradient Evaluation

RESNA personnel performed the latest quarterly groundwater monitoring and sampling on February 10, 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 B, 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 monitorings at the site are summarized in Table 1. Based on the most recent monitoring data, a nearly flat local groundwater gradient of 0.005 toward the east-southeast was interpreted for the site. This groundwater gradient and flow direction are shown on Plate 3, Groundwater Gradient Map.

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 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 Environmental Protection Agency (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 Analyses of Groundwater Samples. Graphic interpretations of the lateral extent of TPHg and benzene in the groundwater, based on the most recent laboratory analyses, are shown on Plate 4, TPHg Concentrations in Groundwater, and Plate 5, Benzene Concentrations in Groundwater.

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



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- o TPHg and BTEX were not detected in the groundwater samples from wells MW-2 and MW-4. TPHg and BTEX were not detected in the samples from MW-3;
- o TPHg was detected in the groundwater sample from well MW-1 at a concentration of 2,600 parts per billion (ppb);
- benzene was detected in the groundwater sample from well MW-1 at a concentration of 3.1 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;
- toluene, ethylbenzene, and total xylenes in wells MW-1 and MW-3 were either nondetectable or below the DHS Maximum Contaminant Levels and Drinking Water Action Level (DWAL) of 100 ppb, 680 ppb, and, 1,750 ppb, respectively.

It is recommended that copies of this report be forwarded to:

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

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



March 9, 1993 130001.01

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

Sincerely,

RESNA Industries Inc.

Jeanno Berchetas

Jeanne Buckthal Geologic Technician

TERED JAMES LEWIS NELSON No. 1463 ☆

CERTIFIED

ENGINEERING GEOLOGIST

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 (February 10, 1993)

Plate 4, TPHg Concentrations in Groundwater

Plate 5, Benzene Concentrations in Groundwater

Table 1, Cumulative Groundwater Monitoring Data

Table 2, Cumulative Results of Laboratory Analyses of Groundwater Samples

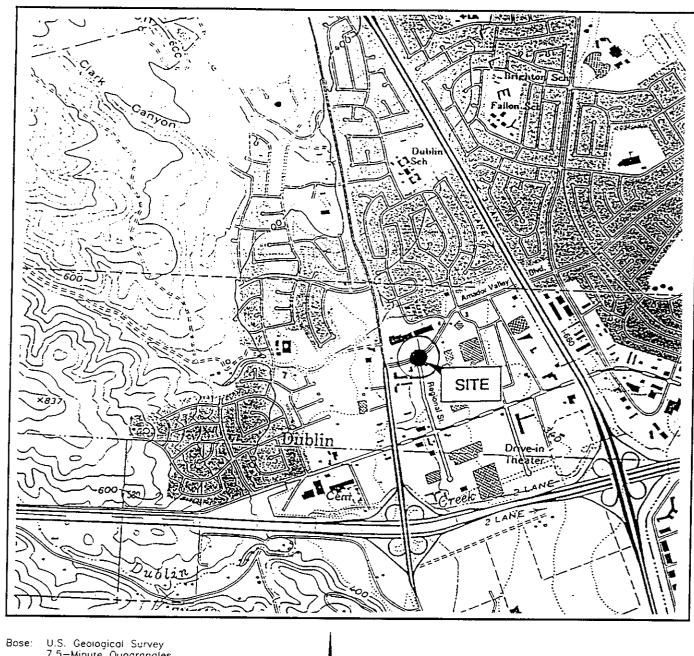
Appendix A: Groundwater Sampling Protocol and Well Purge Data Appendix B: Laboratory Analysis Reports and Chain of Custody Record



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REFERENCES

- Alton Geoscience. 1991. Preliminary Soil Assessment Report at Exxon RS 7-0210.
- Department of Health Services, State of California. October 24, 1990. <u>Summary of California Drinking Water Standards.</u>
- EA Engineering, Science, and Technology. 1992. Report of Closure Sampling, Exxon Retail Site 7-0210, 7840 Amador Valley Boulevard, Dublin, California.
- EA Engineering, Science, and Technology. October 28, 1992. Report of Well Installation, Exxon Retail Site 7-0210, 7840 Amador Valley Boulevard, Dublin, California. 81002.23.0000.



U.S. Geological Survey 7.5—Minute Quaarangles Dublin, California Photorevised 1980

LEGEND

 (\bullet) = Site Location

Approximate Scale 2000 1000 2000 4000 feet

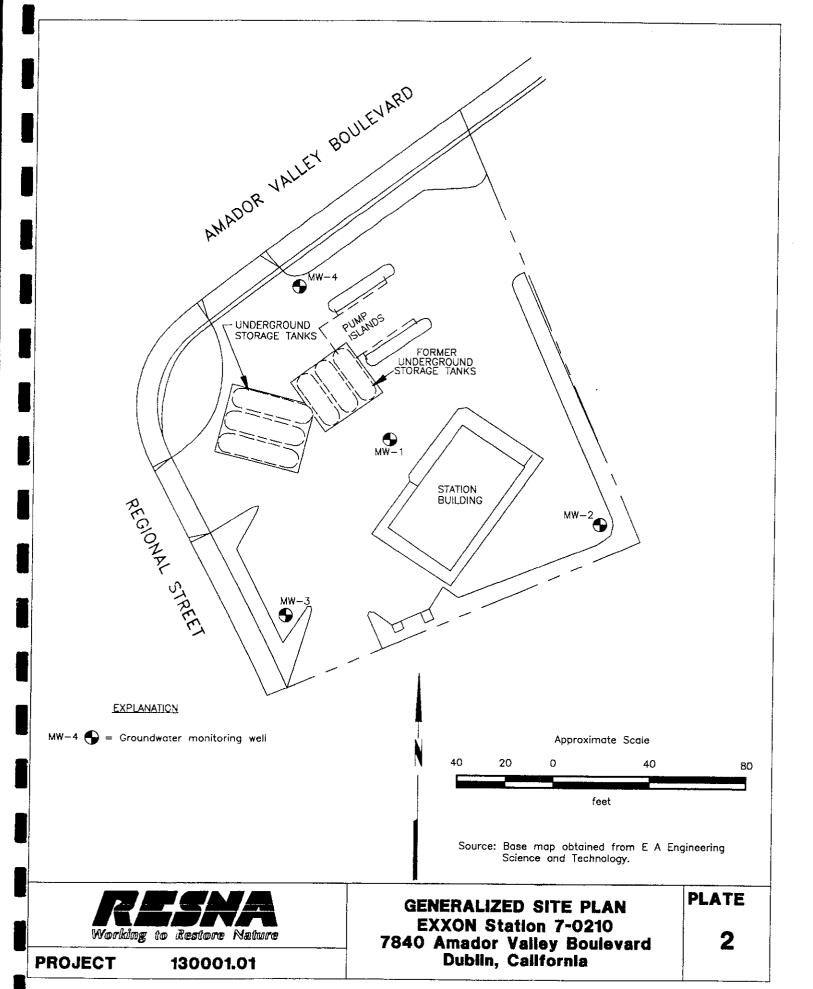
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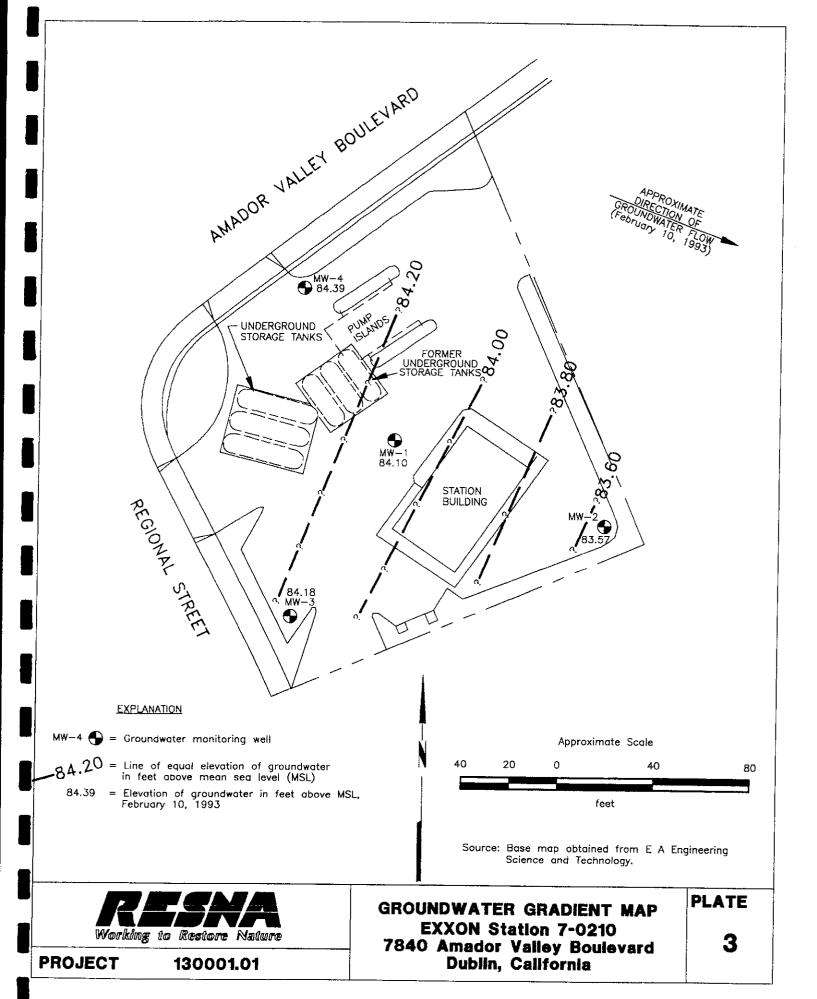
PROJECT

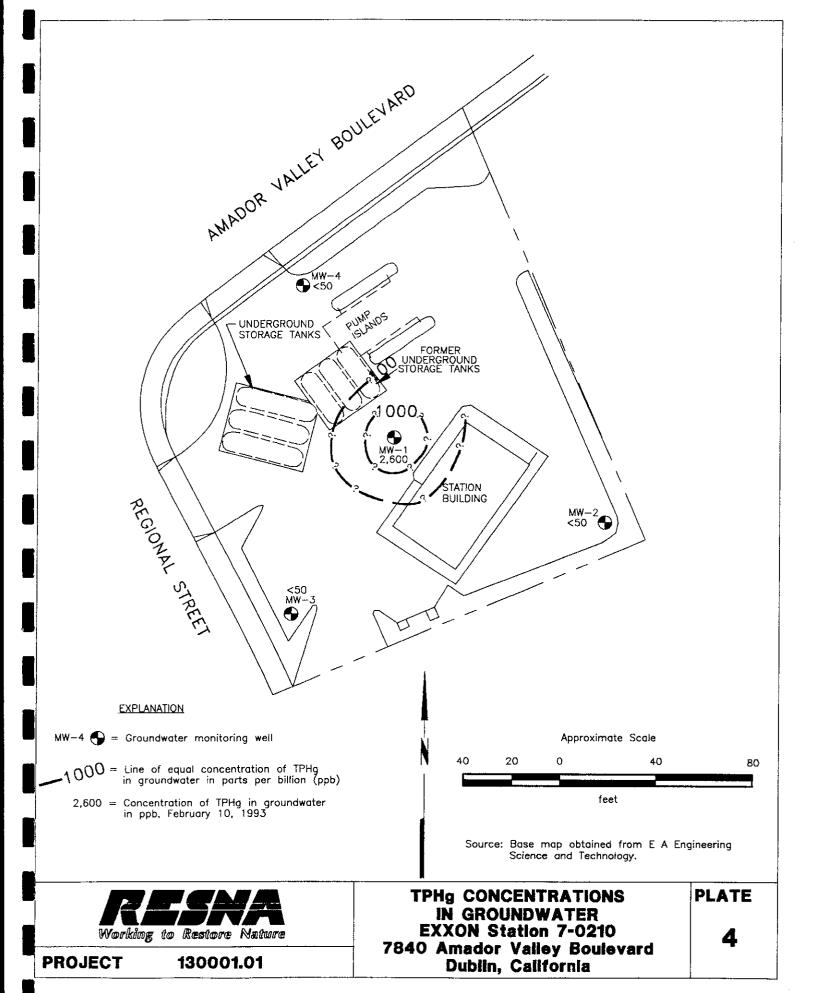
130001.01

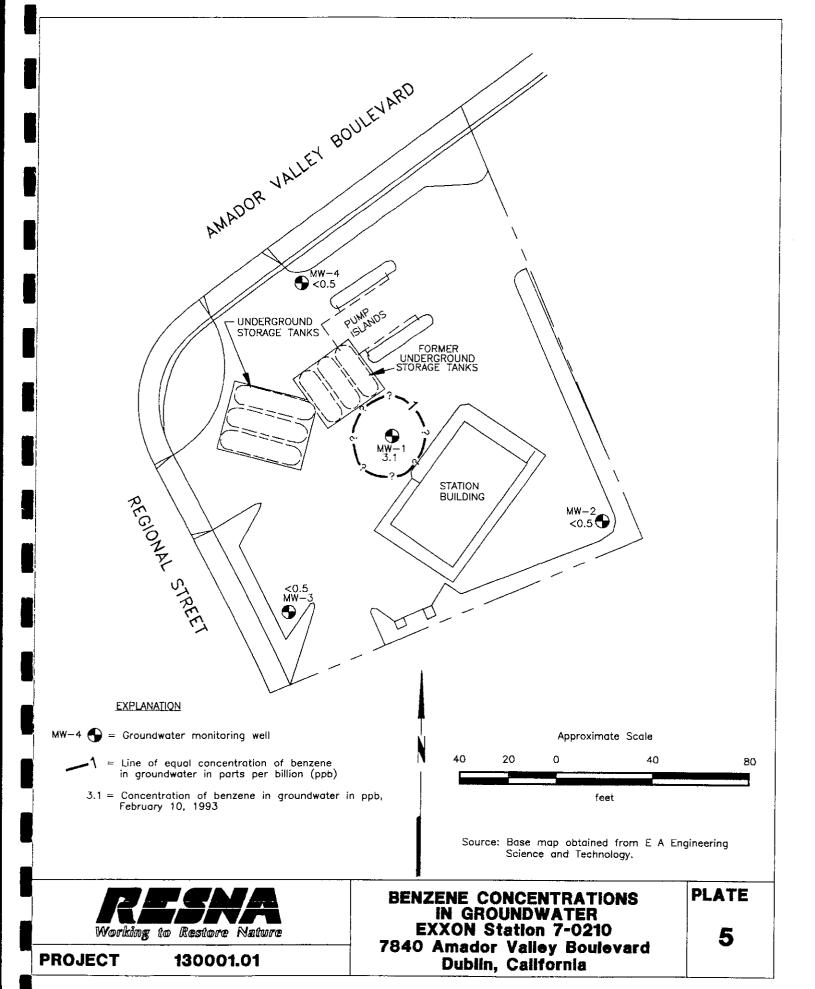
SITE VICINITY MAP Exxon Station 7-0210 7840 Amador Valley Boulevard Dublin, California

PLATE











March 9, 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	05/21/92	96.32	14.45	81.87	None
RESNA	02/10/93		12.22	84.10	None
MW-2					
EA	05/21/92	95.91	14.30	81.61	None
RESNA	02/10/93		12.34	83.57	None
MW-3					
EA	05/21/92	97.95	16.05	81.90	None
RESNA	02/10/93		13.77	84.18	None
MW-4					
EA	05/21/92	96.69	14.59	82.10	None
RESNA	02/10/93		12.30	84.39	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 : Measurements taken by EA Engineering, Science, and Technology

RESN: Measurements taken by RESNA Industries Inc.



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TABLE 2 CUMULATIVE RESULTS OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES Exxon Station 7-0210

Dublin, California

WELL	DATE	ТРНд	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
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
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
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
	MCLs		1.0		680	1,750
	DWAL		***	100		•••

Results in parts per billion (ppb).

< : Less than the laboratory detection limit.

NA : Not Analyzed
--- : Not applicable

TPHg : Total Petroleum Hydrocarbons as gasoline analyzed by modified EPA method

5030/8015.

BTEX: Analyzed by modified EPA method 5030/8020.

MCLs: Maximum Contaminant Levels, DHS (October 1990).

DWAL: Drinking Water Action Level, DHS (October 1990).

EA : Samples collected by EA Engineering, Science, and Technology

RESNA: Samples collected by RESNA Industries Inc.

APPENDIX A

GROUNDWATER SAMPLING PROTOCOL AND WELL PURGE DATA SHEETS



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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



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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.



Project Name: Exxon 7-0210

Job No. <u>130001.01</u>

Date: February 10, 1993

Page <u>1</u> of <u>1</u>

Well No. MW-1

Time Started 12:15

TIME (hr)	GALLONS (cum.)	TEMP. (F)	рН	CONDUCT. (micromho)	TURBIDITY (NTU)
12:15	Start pu	rging MW-1			
12:15	0	65.2	7.47	1.46	15.0
12:19	8	65.9	7.40	1.54	17.5
12:23	15	67.3	7.37	1.53	11.0
12:30	20	DRY			·
1:00		RESTART			T
1:04	23	66.9	7.34	1.48	72.0
1:09	30	65.7	7.38	1.45	67.2
1:09	Stop pu	rging MW-1			

Notes:

Well Diameter (inches): 4

Depth to Bottom (feet): 23.70

Depth to Water - initial (feet): 12.22

Depth to Water - final (feet): 12.22

% recovery : 100

Time Sampled: 2:55

Gallons per Well Casing Volume: 7.50

Gallons Purged: 30

Well Casing Volume Purged: 4.00

Approximate Pumping Rate (gpm): 0.5



Project Name: Exxon 7-0210

Job No. <u>130001.01</u>

Date: February 10, 1993

Page <u>1</u> of <u>1</u>

Well No. MW-2

Time Started 1:30

TIME (hr)	GALLONS (CUM.)	TEMP. (F)	рН	CONDUCT.	TURBIDITY (NTU)
1:30	Start pu	rging MW-2			
1:30	0	65.4	7.45	1.43	54.6
1:35	8	65.8	7.42	1.43	53.8
1:40	17	66.0	7.35	1.44	20.6
1:49	25	64.5	7.36	1.42	10.5
1:54	34	65.8	7.37	1.44	17.4
1:54	Stop pu	rging MW-2			

Notes:

Well Diameter (inches): 4

Depth to Bottom (feet): 24.95

Depth to Water - initial (feet) : 12.34

Depth to Water - final (feet): 12.34

% recovery : 100

Time Sampled: 3:05

Gallons per Well Casing Volume: 8.23

Gallons Purged: 34

Well Casing Volume Purged: 4.13

Approximate Pumping Rate (gpm): 1.5



Project Name: Exxon 7-0210

Job No. <u>130001.01</u>

Date: February 10, 1993

Page <u>1</u> of <u>1</u>

Well No. MW-3

Time Started 2:25

TIME (hr)	GALLONS (cum.)	TEMP. (F)	рН	CONDUCT. (micromho)	TURBIDITY (NTU)
2:25	Start pu	rging MW-3			
2:25	0	64.6	7.42	1.32	18.8
2:30	9	65.9	7.37	1.31	15.4
2:35	18	66.0	7.36	1.33	9.2
2:40	28	65.2	7.33	1.33	7.2
2:45	37	64.9	7.33	1.32	7.2
2:45	Stop pu	rging MW-3			····

Notes:

Well Diameter (inches) : 4

Depth to Bottom (feet): 27.67

Depth to Water - initial (feet): 13.77

Depth to Water - final (feet): 13.77

% recovery : 100

Time Sampled: 4:00

Gallons per Well Casing Volume: 9.08

Gallons Purged: 37

Well Casing Volume Purged: 4.07

Approximate Pumping Rate (gpm): 1.8



Project Name: <u>Exxon 7-0210</u>

Job No. <u>130001.01</u>

Date: February 10, 1993

Page <u>1</u> of <u>1</u>

Well No. <u>MW-4</u>

Time Started 3:25

TIME (hr)	GALLONS (cum.)	TEMP. (F)	рн	CONDUCT. (micromho)	TURBIDITY (NTU)
3:25	Start pu	rging MW-4			V V V -1
3:25	0	63.1	7.42	1.47	21.2
3:29	8	64.2	7.39	1.48	28.7
3:33	17	64.4	7.35	1.49	19.8
3:42	25	64.6	7.34	1.49	30.2
3:46	34	63.6	7.35	1.44	22.6
3:46	Stop pu	rging MW-4	·		

Notes:

Well Diameter (inches): 4

Depth to Bottom (feet): 24.95

Depth to Water - initial (feet) : 12.30

Depth to Water - final (feet): 12.30

% recovery : 100

Time Sampled: 4:45

Gallons per Well Casing Volume: 8.26

Gallons Purged: 34

Well Casing Volume Purged: 4.12

Approximate Pumping Rate (gpm): 1.6

APPENDIX B

LABORATORY ANALYSIS REPORTS AND CHAIN OF CUSTODY RECORD



130001.01

REPORT OF LABORATORY ANALYSIS

February 18, 1993

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Ms. Jeanne Buckthal Resna Industries 3315 Almaden Expwy., Ste. 34 San Jose, CA 95118

PACE Project No. 430212.519

Client Reference: Exxon 7-0210 (EE)

Dear Ms. Buckthal:

Enclosed is the report of laboratory analyses for samples received February 12, 1993.

Please note a peak eluting earlier than Benzene and suspected to be methyl tert butyl ether was present in sample W-12.0-MW1 (PACE #70 0009421).

Footnotes are given at the end of the report.

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

Sincerely,

hance matzo Stephanie Matzo Project Manager

Enclosures



Resna Industries 3315 Almaden Expwy., Ste. 34 San Jose, CA 95118

February 18, 1993

PACE Project Number: 430212519

Attn: Ms. Jeanne Buckthal

Client Reference: Exxon 7-0210 (EE)

PACE Sample Number: 70 0009413
Date Collected: 02/10/93
Date Received: 02/12/93
Client Sample ID: 881

Parameter Units MDL . DATE ANALYZED

ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS TOTAL FUEL HYDROCARBONS, (LIGHT): Purgeable Fuels, as Gasoline (EPA 8015M) PURGEABLE AROMATICS (BTXE BY EPA 8020M): Benzene	ug/L ug/L	50 0.5	ND - ND	02/15/93 02/15/93 02/15/93 02/15/93
Toluene Ethylbenzene	ug/L ug/L	0.5 0.5	ND ND	02/15/93 02/15/93
Xylenes, Total	ug/L	0.5	ND	02/15/93



Ms. Jeanne Buckthal

Page 2

February 18, 1993

PACE Project Number: 430212519

Client Reference: Exxon 7-0210 (EE)

PACE Sample Number: Date Collected:

Date Received:

Parameter

Client Sample ID:

70 0009421

02/10/93 02/12/93 W-12.0-MW1

Units MDL DATE ANALYZED

ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS

TOTAL FUEL HYDROCARBONS, (LIGHT):

Purgeable Fuels, as Gasoline (EPA 8015M) ug/L PURGEABLE AROMATICS (BTXE BY EPA 8020M): Benzene

Toluene Ethylbenzene

Xylenes, Total

ug/L 0.5 ug/L 0.5 ug/L 0.5

ug/L

0.5

0.5

50

ND 1.8

2600

3.1

02/15/93 02/15/93

02/15/93

02/15/93

02/15/93

02/15/93

0.6 02/15/93



Ms. Jeanne Buckthal

Page

February 18, 1993

PACE Project Number: 430212519

Client Reference: Exxon 7-0210 (EE)

PACE Sample Number:

Date Collected:

Date Received:

Client Sample ID:

70 0009430

02/10/93

02/12/93 W-12.5-MW2

Parameter Units MDL DATE ANALYZED

ug/L

ug/L

ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS

TOTAL FUEL HYDROCARBONS, (LIGHT): Purgeable Fuels, as Gasoline (EPA 8015M) ug/L

PURGEABLE AROMATICS (BTXE BY EPA 8020M): Benzene

Toluene Ethylbenzene

Xylenes, Total

02/15/93

50 ND ug/L 0.5 ND ug/L

0.5 0.5

0.5

ND ND 02/15/93 02/15/93 02/15/93

02/15/93

02/15/93

02/15/93

ND

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



Ms. Jeanne Buckthal

Page

February 18, 1993

PACE Project Number: 430212519

02/16/93

02/16/93

Client Reference: Exxon 7-0210 (EE)

PACE Sample Number:

Date Collected: Date Received:

Client Sample ID:

70 0009448

02/10/93 02/12/93

W-14.0-MW3

Parameter Units MDL DATE ANALYZED

ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS

TOTAL FUEL HYDROCARBONS, (LIGHT): Purgeable Fuels, as Gasoline (EPA 8015M) ug/L

PURGEABLE AROMATICS (BTXE BY EPA 8020M):

Benzene Toluene

Ethylbenzene Xylenes, Total

50 ND 02/16/93 02/16/93 0.5 ug/L ND 02/16/93 ug/L 0.5 ND 02/16/93 ug/L 0.5 ND

0.7 ug/L 0.5 02/16/93



Ms. Jeanne Buckthal

Page 5 February 18, 1993

PACE Project Number: 430212519

02/16/93

Client Reference: Exxon 7-0210 (EE)

PACE Sample Number: Date Collected:

Date Received:

Client Sample ID: Parameter

70 0009456

02/10/93 02/12/93

W-12.5-MW4 Units MDL DATE ANALYZED

ND

ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS

TOTAL FUEL HYDROCARBONS, (LIGHT): 02/16/93 Purgeable Fuels, as Gasoline (EPA 8015M) ug/L 50 ND 02/16/93 PURGEABLE AROMATICS (BTXE BY EPA 8020M): 02/16/93 Benzene ug/L 0.5 ND 02/16/93 Toluene ug/L 0.5 ND 02/16/93 Ethylbenzene 0.5 ug/L ND 02/16/93 Xylenes, Total

ug/L

0.5

These data have been reviewed and are approved for release.

Darrell C. Cain

Regional Director



Ms. Jeanne Buckthal

Page

FOOTNOTES

for pages 1 through 5

February 18, 1993

PACE Project Number: 430212519

Client Reference: Exxon 7-0210 (EE)

MDL

Method Detection Limit

ND Not detected at or above the MDL.



Ms. Jeanne Buckthal

QUALITY CONTROL DATA

February 18, 1993

Page

PACE Project Number: 430212519

Client Reference: Exxon 7-0210 (EE)

PURGEABLE FUELS AND AROMATICS

Batch: 70 18765

Samples: 70 0009413, 70 0009421, 70 0009430

METHOD BLANK:

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

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

			Reference		Dupl
Parameter	Units	MDL	Value	Recv	Recv RPD
Purgeable Fuels, as Gasoline (EPA 80)	15M ug/L	50	1000	99%	105% 5%
Benzene	ug/L	0.5	40.0	97%	99% 2%
Toluene	ug/L	0.5	40.0	96%	98% 2%
Ethylbenzene	ug/L	0.5	40.0	97%	99% 2%
Xylenes, Total	ug/L	0.5	120	96%	98% 2%



Ms. Jeanne Buckthal

QUALITY CONTROL DATA

February 18, 1993

PACE Project Number: 430212519

Page 8
Client Reference: Exxon 7-0210 (EE)

PURGEABLE FUELS AND AROMATICS

Batch: 70 18811

Samples: 70 0009448, 70 0009456

METHOD BLANK:

Parameter TOTAL FUEL HYDROCARBONS, (LIGHT):	<u>Units</u>	MDL	Method Blank
Purgeable Fuels, as Gasoline (LPA 8015M PURGEABLE AROMATICS (BTXE BY EPA 8020M)	ug/L	50	ND -
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
Methyl tert-butyl ether	ug/L	5.0	ND

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

D				Reference		Dupl	
<u>Parameter</u>		Units	MDL	Value	Recv	Recv	RPD
Purgeable Fuels, as Gasoline	(EPA 8015M	ug/L	50	1000	108%	105%	2%
Benzene		ug/L	0.5	40.0	92%	94%	2%
Toluene		ug/L	0.5	40.0	91%	93%	2%
Ethylbenzene		ug/L	0.5	40.0	93%	94%	1%
Xylenes, Total		ug/L	0.5	120	94%	95%	1%
Methyl tert-butyl ether		ug/L	5.0	40.0	99%	102%	2%



Ms. Jeanne Buckthal

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FOOTNOTES

for pages 7 through

February 18, 1993

PACE Project Number: 430212519

Client Reference: Exxon 7-0210 (EE)

MDL

Method Detection Limit

ND

Not detected at or above the MDL.

RPD Relative

Relative Percent Difference



949

Irvine, CA
Atton Business Park
30 Hughes St., Suite 206, 92718
(714) 380-9559

ph

EXXON COMPANY, U.S.A.
P.O. Box 4415, Houston, TX 77210-4415
CHAIN OF CUSTODY

OHAIN OF C	001001
Consultant Name: Responde Ind.	
Address: 3315 Almaden 8	exper Sandose.
Project Contact: Teanne Bocktha	Project #: 130001 01
Phone # 408 264-7723	Fax#: 264-2435
Consultant Work Release #: 09300254	3
Exxon Contact: Maria Guarder	Phone #:
Site RAS #: 子 ら210	
Site Location: FRUC And der VIII	Rd D. Hin, CA.
Laboratory Work Release #:	

Sampled by (please print)			SOIL			٧	VATE			,								
ampler Signature	Collection Date/Time	() () () () ()	Prsv.	mpled # of Cont.	TPH/GAS/8TEX EPA 8015/8020	TPH/Diesel EPA 8015	Organic Lead DHS Method	TPH/GAS/BTEX EPA 8015/602	TPH/Diesel EPA 8015	Organic Lead DHS Method	TRPH EPA 418.1	Total Oil & Grease SM 5520					Re	marks
631	110112 250		fer	ユ				X									941	3
1-120-MW	l	_		3				X									42	.)
J-12.5 /WW.				<u>(3</u>		_		\times	<u> </u>				<u> </u>				43.0 44.8	
J-140 20W	4.C			3	_			$\stackrel{\sim}{\times}$			<u> </u>			-	_	_		
N-125 MM	14.45	-	/	يَ }		_		X		_	-					-	45	. 6
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Cooler No.	Relit	nquish	ed by/	Affilia	tion	<u> </u>	\vdash	<u>1 —</u>	Acc	epte	d by	/Affi	liatio	n n		Da	te	Time
Cooler Seal Intact PALE COLLER Yes No			la	sh ish	To fa	ce	*) -	na	lel CD	J	ko	no	Ri G	ia	2/12	93 53	1230
Turnaround Time (circle choice)		- X- X-	<u> </u>					7		1								
24 hr. 48 hr. 72 hr.				-			-										··· - -	
96 hr. 5 workday (standard)	A .3 .432			nto									,					
Shipment Method	Shipment Method Additional Comments:																	
Shipment Date	-																	
Distribution:	White - Orig	inal		Yell	low -	Exxo	n			Pink	- Lal	b			Goldeni	od - Co	onsultan	t Field Staff