EXXON COMPANY, U.S.A.
P.O. BOX 4032 . CONCORD, CA 94524-2032

ENVIRONMENTAL ENGINEERING
MARLA D. GUENSLER
(510) 246-8776
(510) 246-8798 FAX

93 AUG -9 PM 2:53

May 19, 1993

Mr. Barney Chan
Alameda County Health Agency, Division of Hazardous Materials
Department of Environmental Health
80 Swan Way, Room 350
Oakland, CA 94621

RE: Former Exxon RAS #7-3006; 720 High St., Oakland, CA

Dear Mr. Chan:

Attached for your review and comment is a letter report entitled **Quarterly Groundwater Monitoring Second Quarter 1993** for the above referenced site. This report, prepared by RESNA Industries, Inc., of San Jose, California, details the results of the groundwater monitoring events which occurred April through June 1993.

If you have any questions or comments, please contact me at the above listed phone number.

Sincerely,

Marla D. Guensler

Marla D. Guensler
Senior Environmental Engineer

MDG/mdg

attachment: RESNA Letter Report Dated 07/27/93

cc: w/attachment:
Mr. Richard Hiett - San Francisco Bay Region CRWQCB

w/o attachment:
Mr. Marc Briggs - RESNA Industries, Inc.

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
Second Quarter 1993
at
Exxon Station 7-3006
720 High Street
Oakland, California

130006.01

RESNA
Working To Restore Nature

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July 27, 1993
0316MGUE
130006.01

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

Subject: Letter Report on Second Quarter 1993 Groundwater Monitoring at Exxon Station 7-3006, 720 High Street, Oakland, California.

Ms. Guensler:

As requested by Exxon Company U.S.A., this letter report summarizes the methods and results of the second quarter 1993 groundwater monitoring performed by RESNA Industries Inc. (RESNA) at the subject site. The site is located at 720 High Street, in a predominantly industrial area of Oakland, California (Plate 1, Site Vicinity Map). The site is bound on the northwest by High Street, on the southwest by Coliseum Way, on the northeast by a former dry-cleaning facility, on the south by Alameda Avenue, and on the southeast by a vacant lot, as shown on Plate 2, Generalized Site Plan. The objectives of quarterly monitoring are to evaluate trends in the groundwater gradient and flow direction, and trends in concentrations of gasoline and diesel hydrocarbons in the local groundwater associated with a former used-oil and three former 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 of four USTs in April 1987 (AGS, May 13, 1987, July 10, 1987, and October 16, 1989), and an environmental investigation between September 1987 and May 1988 that included drilling nine boreholes (B-1 through B-9) around the former UST locations and installing groundwater monitoring wells MW-1 through MW-9 in the boreholes (AGS, August 5, 1988). RESNA performed a Supplemental Subsurface Investigation that included drilling eleven boreholes (B-10 through B-20) and installing groundwater monitoring wells MW-10 through MW-13 in boreholes B-10 through B-13 in November 1989 (AGS, January 30, 1990), and drilling boreholes B-21 through B-32 and installing groundwater monitoring wells MW-14 and MW-15 in boreholes B-31 and B-32 in November 1990 (AGS, May 21, 1991). Quarterly monitoring was initiated by RESNA in the second quarter 1989 (AGS, October 16, 1989). On February 18, 1993, petrotraps were

installed in wells MW-2, MW-4, and MW-6. A limited records search was completed for the site and surrounding area (RESNA, March 24, 1993). RESNA performed a Interim Remediation Investigation that included drilling four boreholes (B-35, B-35A, B-36, and B-37) and installing vapor extraction wells VE-1 through VE-3 in boreholes B-35A, B-36, and B-37), conducting a vapor extraction test, and conducting a pumping test in February and March 1993 (RESNA, April 16, 1993). The locations of the borings, wells, and pertinent site facilities are shown on Plate 2. The results of these investigations are presented in the reports listed in the references section.

RESNA is currently conducting an Additional Subsurface Investigation that will include the installation of two offsite groundwater monitoring wells. The results of this investigation will be presented in a report under separate cover.

Groundwater Sampling and Gradient Evaluation

RESNA personnel measured depth-to-water (DTW) levels on April 6 and May 28, 1993, and performed quarterly sampling and DTW measurements on June 10 and 11, 1993 on the one offsite monitoring well (MW-1), thirteen onsite monitoring wells (MW-2 through MW-4, and MW-6 through MW-15), and three onsite vapor extraction wells (VE-1 through VE-3). Monitoring well MW-5 was destroyed in July 1989. Field work during this quarter consisted of measuring DTW levels, subjectively analyzing water from the wells for the presence of free-phase hydrocarbons, removal of any free-phase hydrocarbons encountered, and purging and sampling the groundwater from monitoring wells MW-1, MW-7, MW-9, MW-10, MW-11, and MW-14 for laboratory analysis. Based on subjective analyses, hydrocarbon sheen was observed in groundwater in monitoring wells MW-3, MW-8, MW-12, MW-13, and MW-15; and thus, these wells were not sampled. Free-phase hydrocarbons were observed in groundwater in wells MW-2, MW-4, and MW-6. Although MW-6 contained free-phase hydrocarbons, this well was sampled (but not purged) to identify likely chemical constituents present. Wells MW-2 and MW-4 were not sampled due to the presence of free-phase hydrocarbons. It was anticipated that vapor extraction wells VW-1 through VW-3 would be purged and sampled. However, because these wells recharge slowly after purging, samples were not collected. During April through June 1993, approximately 3 cups of free-phase hydrocarbons were recovered from the petrotrap in well MW-2, approximately 4-½ cups of free-phase hydrocarbons were recovered from the petrotrap in well MW-4, and approximately 6-1/3 cups were recovered from the petrotrap in well MW-6. Results of subjective analyses are summarized in Table 1, Cumulative Groundwater Monitoring Data. Field methods used by RESNA personnel are described in Appendix A, Groundwater Sampling Protocol.

RESNA calculated groundwater elevations for each well by subtracting the measured DTW, including corrections for product thickness when necessary, from the elevation of the wellhead. The measured DTW levels, product thickness, wellhead elevations, and groundwater elevations for this and previous monitorings at the site are summarized in Table 1. Based on the April 6, May 28, and June 10, 1993, groundwater elevation data, the interpreted local groundwater gradients were interpreted to be 0.03, 0.02, and 0.02, respectively, with general flow directions toward the southwest. RESNA's interpretation of the local groundwater gradients for this quarter are shown on Plates 3 through 5, Groundwater Gradient Map. These groundwater gradients and flow direction are generally consistent with those previously interpreted.

The one offsite monitoring well and five onsite monitoring wells were purged and sampled, and MW-6 was sampled in accordance with the enclosed groundwater sampling protocol (Appendix A). Well purge data sheets for the monitored parameters temperature, turbidity, pH, and conductivity for the six monitoring wells are included in Appendix A.

Results of Laboratory Analysis

Groundwater samples collected from monitoring wells MW-1, MW-6, MW-7, MW-9, MW-10, MW-11, and MW-14 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, and for total petroleum hydrocarbons as diesel (TPHd) using modified EPA Methods 3510/8015. Groundwater from well MW-14 was also analyzed for Stoddard Solvent using EPA method 3510/8015. The groundwater sample collected from monitoring well MW-6 was also analyzed total oil and grease (TOG) using Standard Method 5520, volatile organic compounds (VOCs) using EPA method 624, extractable organic compounds (VOCs) using EPA method 625. Groundwater samples were analyzed by PACE Incorporated Laboratories (California Hazardous Waste Testing Laboratory Certification No. 1282) in Novato, California. The Chain of Custody Record and Laboratory Analysis Reports for the monitoring well is included in Appendix B.

Groundwater from well MW-1 was analyzed for Fecal Coliform using Standard Method 17 edition 9221C to evaluate whether infiltration from sewer lines could be affecting the groundwater gradient. This groundwater sample was analyzed by Brelje and Race Incorporated Laboratories (California Hazardous Waste Testing Laboratory Certification No. 9534) in Santa Rosa, California. The Chain of Custody Record and Laboratory Analysis Reports for the monitoring wells are included in Appendix B.

The chemical analytical results of this, and previous, quarterly monitoring are summarized in Table 2, Cumulative Results of Laboratory Analyses of Groundwater Samples. Graphic distributions of TPHg, TPHd, and benzene concentrations in the local groundwater for this quarterly monitoring are shown on Plate 6, TPHg/TPHd/Benzene Concentrations in Groundwater.

Results of this quarter's laboratory analyses of groundwater samples from wells MW-1, MW-7, MW-9, MW-10, MW-11, and MW-14 indicate:

- TPHg, BTEX, and TPHd concentrations were not detected in wells MW-1, MW-9, and MW-11;
- TPHg was detected at concentrations of 1.6 parts per million (ppm) in well MW-7, and 0.180 ppm in well MW-14, and was not detected in well MW-10;
- TPHd was detected at concentrations of 0.18 ppm in well MW-14, and 0.57 ppm in well MW-7, and was not detected in well MW-10;
- Stoddard Solution was nondetectable in well MW-14 via separatory funnel extraction. Stoddard Solution was detected at concentrations of 0.032 ppm in well MW-14 via the purge and trap;
- benzene was detected at a concentrations of 0.140 ppm in well MW-7, which is greater than the DHS Maximum Contaminant Level (MCL) of 0.001 ppm benzene in drinking water. Benzene was not detected in well MW-10 and MW-14;
- toluene, ethylbenzene, and total xylenes were detected in well MW-7 at concentrations of 0.0065 ppm, 0.022 ppm, and 0.061 ppm, respectively, which are less than the DHS Drinking Water Action Level (DWAL) of 0.100 ppm toluene, and MCLs of 0.680 ppm ethylbenzene and 1.750 ppm total xylenes in drinking water;

Laboratory analyses on the groundwater from well MW-6 indicate:

- TPHg was detected at a concentration of 130 ppm;

- o TPHd was detected at a concentration of 38 ppm;
- o TOG was detected at a concentration of 23 ppm;
- o benzene, toluene, ethylbenzene, and total xylenes were detected at concentrations of 9.8 ppm, 0.65 ppm, 5.1 ppm, and 12 ppm, respectively, which are greater than the DHS MCL of 0.001 ppm benzene, 0.680 ppm ethylbenzene and 1.750 ppm total xylenes in drinking water, and the DHS DWAL of 0.100 ppm toluene in drinking water.
- o volatile organic compounds were not detected except BTEX, 1.8 ppm naphthalene, 0.6 ppm 2-Methylnaphthalene, and 0.290 Bis (2-ethylhexyl) phthalate.

Fecal coliform analyses on the groundwater from well MW-1 indicate:

- o <2 most probable number of bacteria/100 ml was recorded.

Copies of this report should be forwarded to:

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

Mr. Barney M. Chan
Hazardous Materials Specialist
Alameda County Department of Environmental Health
80 Swan Way, Room 200
Oakland, California 94621

Limitations

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

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

Sincerely,
RESNA Industries Inc.

Marc A. Briggs
Project Geologist

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 (April 6, 1993)
Plate 4, Groundwater Gradient Map (May 28, 1993)
Plate 5, Groundwater Gradient Map (June 10, 1993)
Plate 6, TPHg/TPHd/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 Sheets
Appendix B: Laboratory Analysis Reports and Chain of Custody Records

REFERENCES

Applied GeoSystems. May 13, 1987. Letter Report for First Phase Soil Contamination Investigation, Exxon Station No. 7-3006, Oakland, California. Job No. 87042-1.

Applied GeoSystems. July 10, 1987. Report of Excavation, Aeration, and Removal of Contaminated Soil Including Soil Sampling and Analyses, Exxon Station No. 7-3006, Oakland, California. Job No. 87042-2.

Applied GeoSystems. August 5, 1988. Report of Subsurface Environmental Investigation, Exxon Station No. 7-3006, Oakland, California. Job No. 87042-5.

Applied GeoSystems. July 8, 1989. Site Safety Plan, Exxon Station No. 7-3006, 720 High Street, Oakland, California. Job No. 87042-6S.

Applied GeoSystems. October 16, 1989. Report on Subsurface Environmental Investigation, Exxon Station No. 7-3006, 720 High Street, Oakland, California. Job No. 87042-6.

Applied GeoSystems. January 30, 1990. Report on Limited Environmental Investigation, Exxon Station 7-3006, 720 High Street, Oakland, California. Job No. 87042-6R.

Applied GeoSystems. January 30, 1991. Letter Report on Ground-Water Monitoring for Fourth Quarter 1990, Exxon Station No. 7-3006, 720 High Street, Oakland, California. Job No. 87042-9.

Applied GeoSystems. May 21, 1991. Report on Supplemental Subsurface Environmental Investigation, Exxon Station No. 7-3006, 720 High Street, Oakland, California. Job No. 87042-9R.

Applied GeoSystems. October 10, 1991. Interim Groundwater Remediation Work Plan, Exxon Station No. 7-3006, 720 High Street, Oakland, California. Job No. 87042-9RAP.

Clark, John W., et al., 1977. Water Supply and Pollution Control. Harper & Row.

RESNA Industries, Inc. June 15, 1992. Letter Report on Groundwater Monitoring for First Quarter 1992, Exxon Station No. 7-3006, 720 High Street, Oakland, California. Job No. 87042-11.

RESNA Industries, Inc. October 21, 1992. Letter Report on Groundwater Monitoring for Second Quarter 1992, Exxon Station No. 7-3006, 720 High Street, Oakland, California. Job No. 87042-11.

REFERENCES
(continued)

RESNA Industries, Inc. November 9, 1992. Letter Report on Groundwater Monitoring for Third Quarter 1992, Exxon Station No. 7-3006, 720 High Street, Oakland, California. Job No. 87042-11.

RESNA Industries, Inc. December 2, 1992. Addendum One to the Interim Ground Water Remediation Work Plan, Former Exxon Station No. 7-3006, 720 High Street, Oakland, California. Job No. 62034.01.

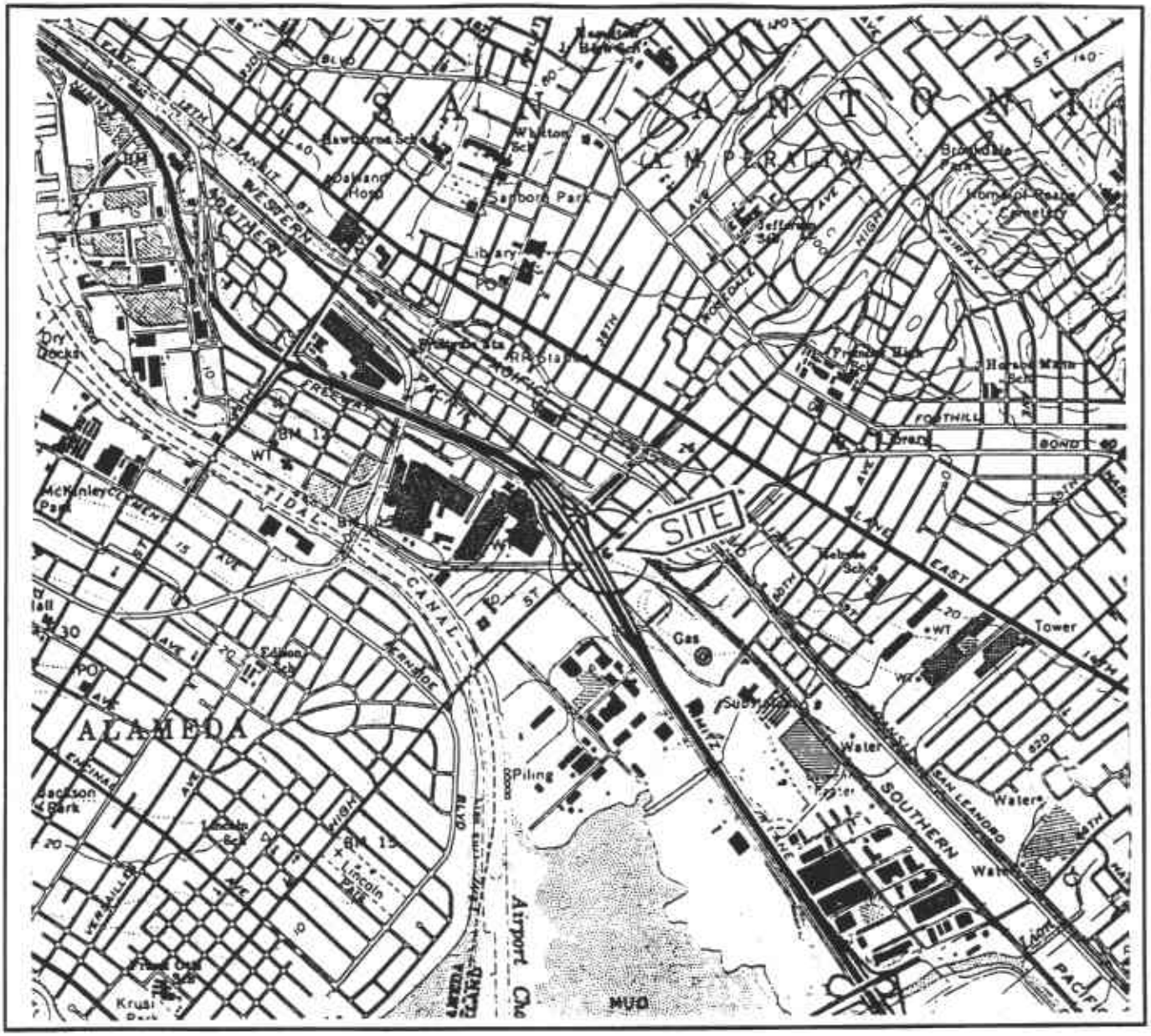
RESNA Industries, Inc. January 18, 1993. Addendum One to the Interim Groundwater Remediation Work Plan to Perform an Interim Remediation Environmental Investigation at the Former Exxon Station 7-3006, 720 High Street, Oakland, California. Job No. 62034.01A.

RESNA Industries, Inc. February 1, 1993. Letter Report on Groundwater Monitoring for Fourth Quarter 1992, Exxon Station No. 7-3006, 720 High Street, Oakland, California. Job No. 87042-11.

RESNA Industries, Inc. March 24, 1993. Findings of the Limited Record Search for the Former Exxon Station 7-3006 Located at 720 High Street, Oakland, California. Job No. 62034.02.

RESNA Industries, Inc. April 16, 1993. Interim Remediation Environmental Investigation at the Former Exxon Station 7-3006, 720 High Street, Oakland, California. Job No. 130006.02.

RESNA Industries, Inc. May 5, 1993. Letter Report on Groundwater Monitoring for First Quarter 1993, Exxon Station No. 7-3006, 720 High Street, Oakland, California. Job No. 130006.01.



Base: U.S. Geological Survey
7.5–Minute Quadrangles
Oakland/San Leandro, California.
Photorevised 1980

N

LEGEND

⊙ = Site Location

Approximate Scale

2000 1000 0 2000 4000

feet

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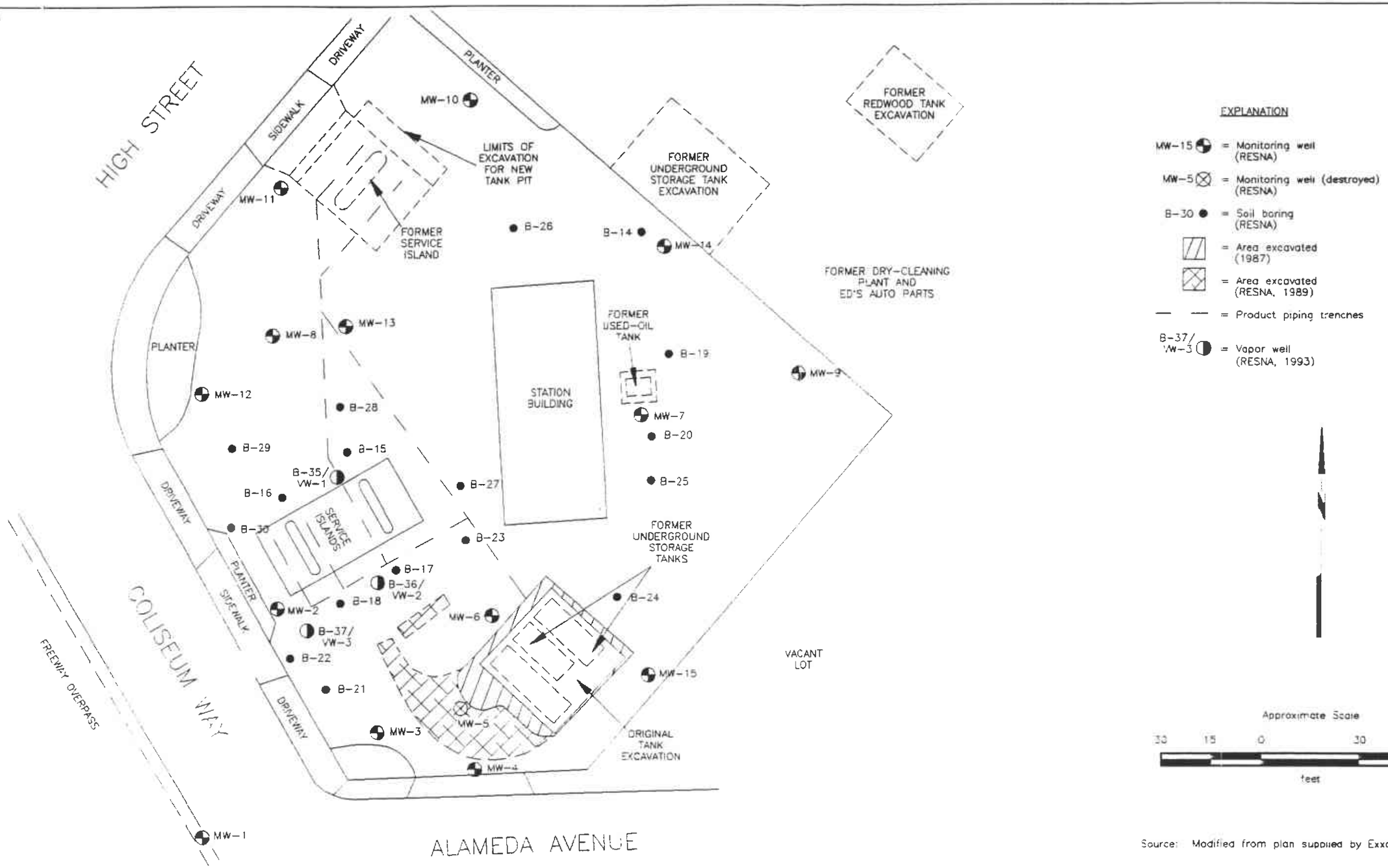
SITE VICINITY MAP
Former Exxon Station 7-3006
720 High Street
Oakland, California

PLATE
1



EXPLANATION

MW-15 = Monitoring well (RESNA)

MW-5 = Monitoring well (destroyed) (RESNA)

B-30 = Soil boring (RESNA)

= Area excavated (1987)

= Area excavated (RESNA, 1989)

= Product piping trenches

B-37/ VW-3 = Vapor well (RESNA, 1993)

Approximate Scale

30 15 0 30 60

feet

Source: Modified from plan supplied by Exxon Company, USA

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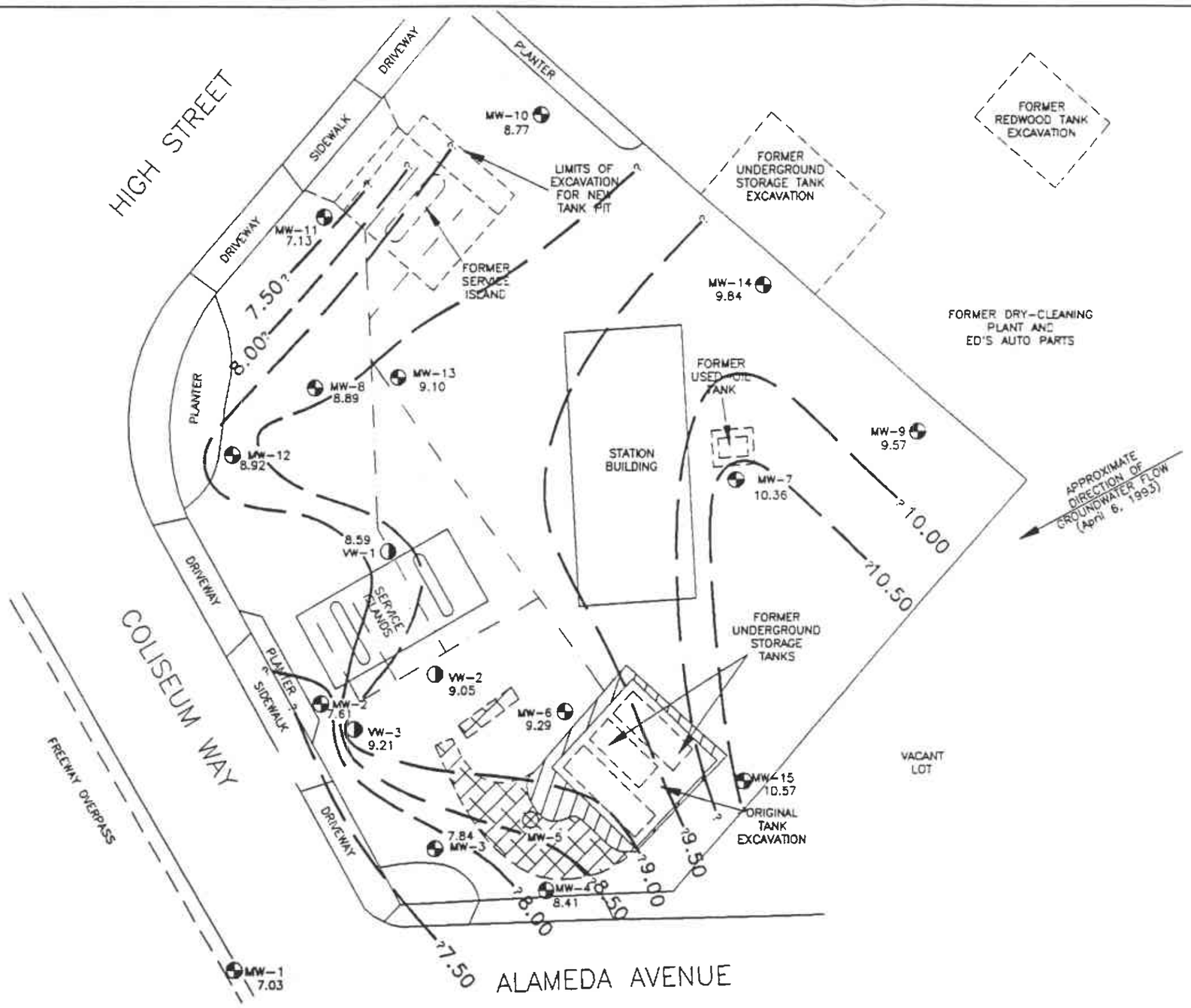
GENERALIZED SITE PLAN
Exxon Station 7-3006
720 High Street
Oakland, California

PLATE
2



EXPLANATION

MW-15 = Monitoring well (RESNA)

MW-5 = Monitoring well (destroyed) (RESNA)

VW-3 = Vapor well (RESNA, 1993)

= Area excavated (1987)

= Area excavated (RESNA, 1989)

= Product piping trenches

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

10.57 = Elevation of groundwater in feet above MSL, April 6, 1993

Source: Modified from plan supplied by Exxon Company, USA

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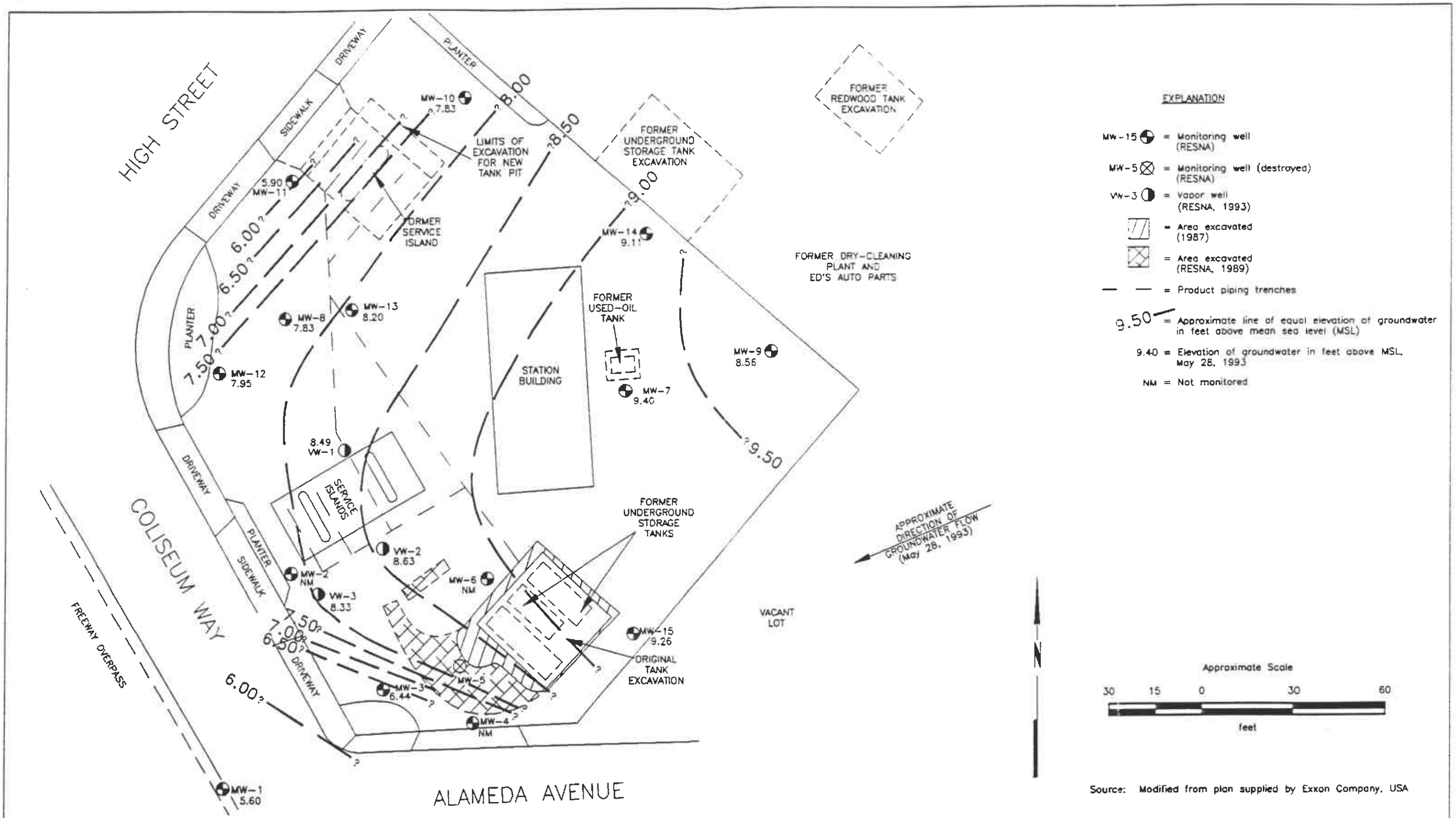
GROUNDWATER GRADIENT MAP
Exxon Station 7-3006
720 High Street
Oakland, California

PLATE
3



Source: Modified from plan supplied by Exxon Company, USA

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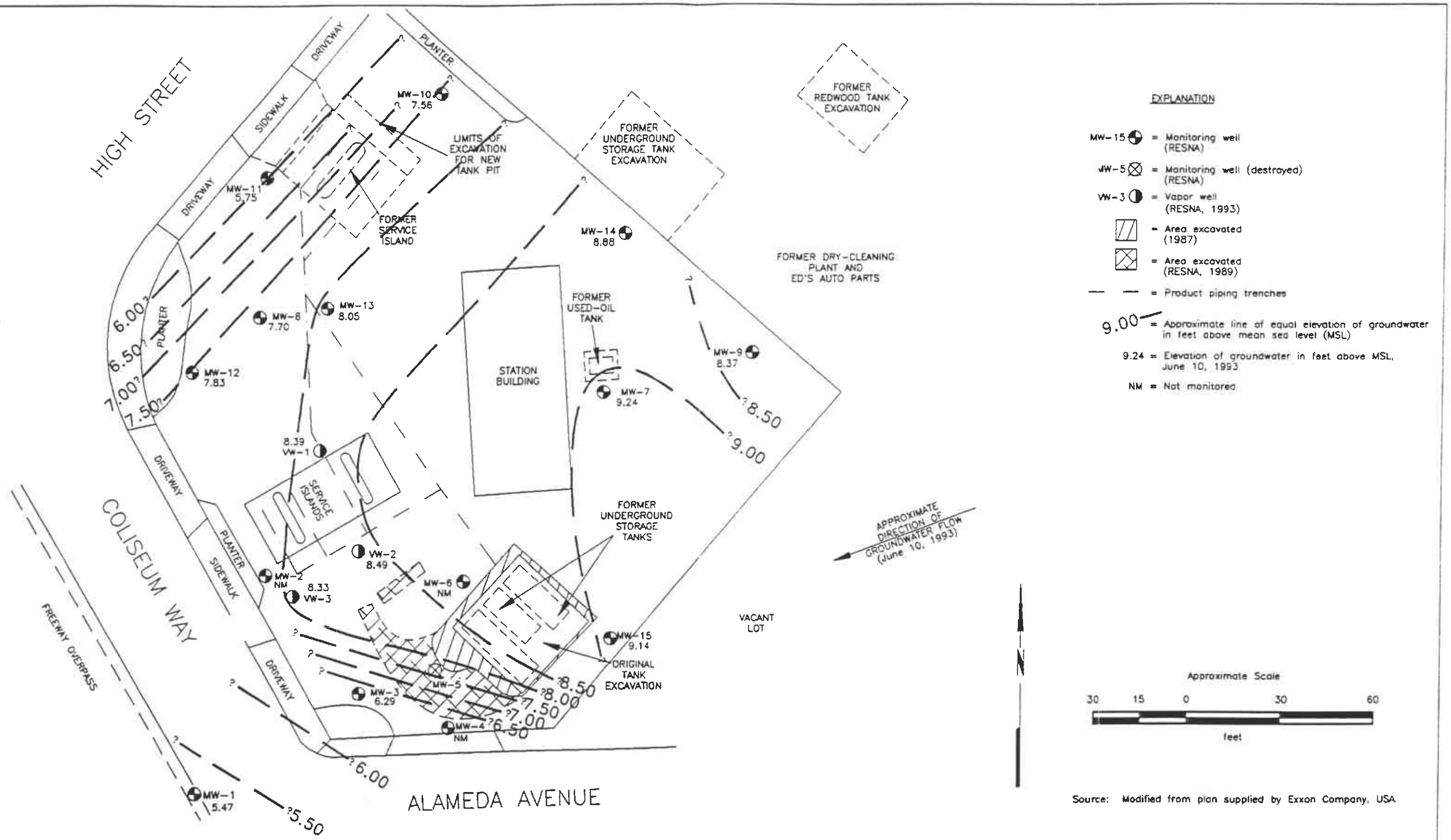
GROUNDWATER GRADIENT MAP
Exxon Station 7-3006
720 High Street
Oakland, California

PLATE
4



Source: Modified from plan supplied by Exxon Company, USA

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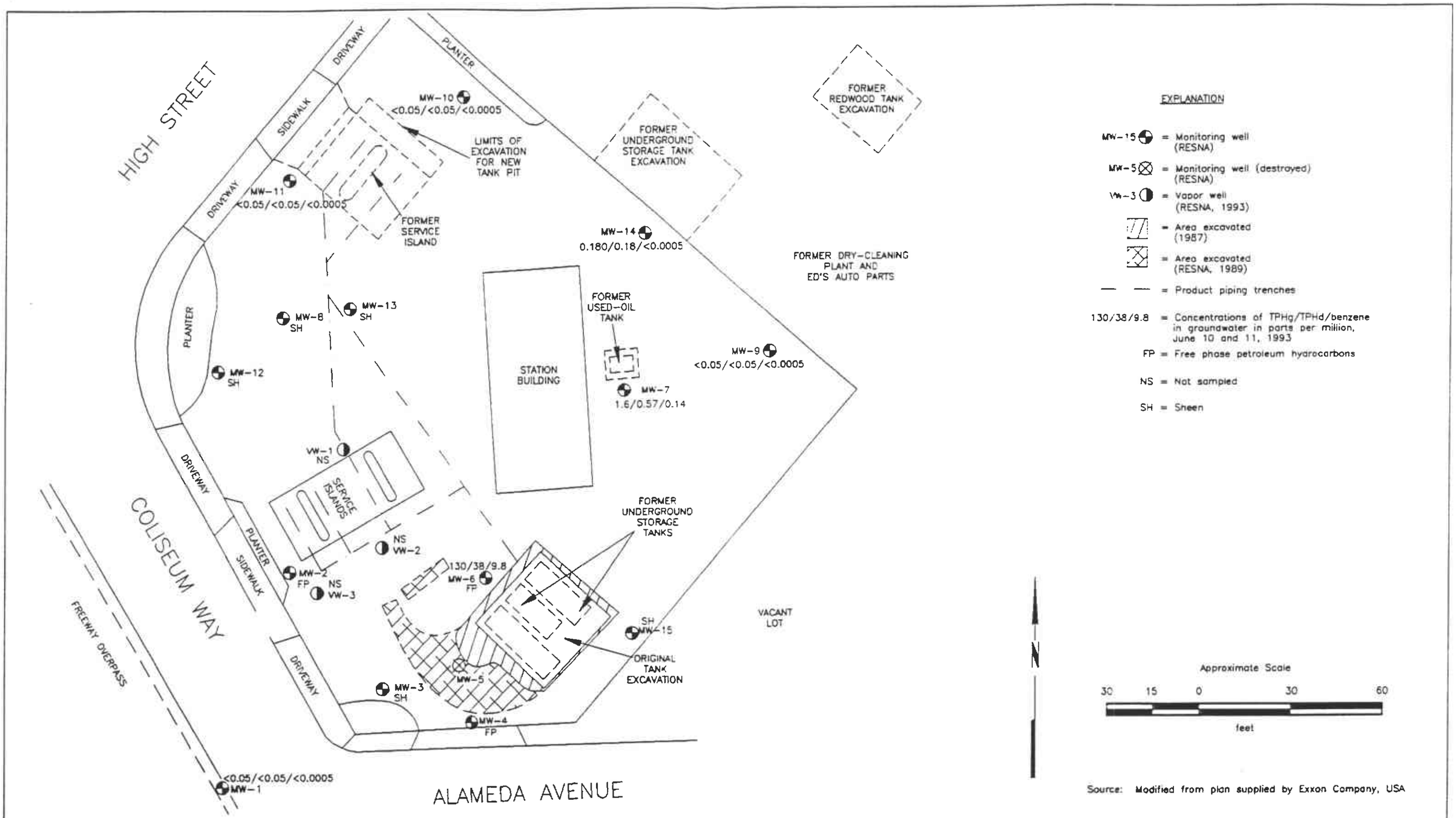
GROUNDWATER GRADIENT MAP
Exxon Station 7-3006
720 High Street
Oakland, California

PLATE
5



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TPHg/TPHd/BENZENE CONCENTRATIONS IN GROUNDWATER
Exxon Station 7-3006
720 High Street
Oakland, California

PLATE 6

TABLE 1
CUMULATIVE GROUNDWATER MONITORING DATA
Former Exxon Station 7-3006
Oakland, California
Page 5 of 16
See notes on page 16

WELL DATE	WELL ELEVATION	DEPTH TO WATER	PRODUCT THICKNESS	GROUNDWATER ELEVATION	PRODUCT REMOVED
MW-4 cont.	12.77				
04/19/90		9.04	0.03	3.75	NR
07/03/90		8.00	Sheen	4.77	None
07/26/90		8.57	0.04	4.23	NR
08/20/90		9.08	0.01	3.70	NR
09/19/90		9.76	0.03	3.03	NR
11/27/90		10.83	0.09	2.01	NR
01/17/91		9.96	0.20	2.97	NR
03/26/91		6.20	0.09	6.64	NR
05/02/91		7.50	0.04	5.30	NR
06/20/91		7.79	0.04	5.01	NR
08/07/91		9.81	0.05	3.00	NR
09/17/91		10.02	0.10	2.83	NR
11/13/91		9.90	0.12	2.97	NR
12/10/91		9.92	0.10	2.93	NR
01/21/92		9.50	0.08	3.33	NR
03/25/92		5.01	0.03	7.78	NR
06/22/92		7.34	0.02	5.45	1/2 cup
09/24/92		9.03	Sheen	3.74	None
10/14/92		9.27	0.02	3.52	1/2 cup
11/16/92		9.09	0.02	3.70	1/2 cup
12/08/92		10.24	0.02	2.55	1/2 cup
01/27/93		4.95	0.04	7.85	None
02/18/93		4.89	0.01	7.89	None
03/10/93		6.40	Sheen	6.37	1/8 cup
04/06/92		4.36	Sheen	8.41	1/2 cup
05/28/93		NM	NM	NM12.77	2 cups
06/10/93		NM	NM	NM12.77	2 cups
MW-5					
04/25/89	8.38	8.06	NP	0.32	None
07/18/89		Well Destroyed			

TABLE 1
CUMULATIVE GROUNDWATER MONITORING DATA
Former Exxon Station 7-3006
Oakland, California

See notes on page 16

WELL DATE	WELL ELEVATION	DEPTH TO WATER	PRODUCT THICKNESS	GROUNDWATER ELEVATION	PRODUCT REMOVED
MW-6					
04/25/89	14.27	8.02	NP	6.25	None
09/06/89		13.64	0.08	0.69	NR
09/22/89		13.79	0.07	0.54	NR
11/01/89		12.78	Sheen	1.49	None
11/15/89		12.91	Sheen	1.36	None
12/06/89		11.84	NP	2.43	None
02/20/90		9.08	NP	5.19	None
04/19/90		9.72	NP	4.55	None
07/03/90		8.00	NP	6.27	None
07/26/90		8.70	NP	5.57	None
08/20/90		9.62	NP	4.65	None
09/19/90		10.25	Sheen	4.02	None
11/27/90		10.82	Sheen	3.45	None
01/17/91		9.93	NP	4.34	None
03/26/91		8.45	NP	5.82	None
05/02/91		8.90	NP	5.37	None
06/20/91		9.47	Sheen	4.80	None
08/07/91		10.10	Sheen	4.17	None
09/17/91		10.21	Sheen	4.06	None
11/13/91		9.62	Sheen	4.65	None
12/10/91		9.59	Sheen	4.68	None
01/21/92		9.25	Sheen	5.02	None
03/25/92		6.88	NP	7.39	None
06/22/92		7.38	NP	6.89	None
09/24/92		8.70	NP	5.57	None
10/14/92		8.91	Sheen	5.36	None
11/16/92		8.75	NP	5.52	None
12/08/92		8.51	Sheen	5.76	None
01/27/93		5.69	NP	8.58	None
02/18/93		4.90	0.10	9.45	1/8 cup

TABLE 1
CUMULATIVE GROUNDWATER MONITORING DATA
Former Exxon Station 7-3006
Oakland, California

See notes on page 16

WELL DATE	WELL ELEVATION	DEPTH TO WATER	PRODUCT THICKNESS	GROUNDWATER ELEVATION	PRODUCT REMOVED
MW-6 cont.	14.27				
03/10/93		6.07	0.05	8.24	1/4 cup
04/06/93		4.98	Sheen	9.29	1/3 cup
05/28/93		NM	NM	NM14.27	3 cups
06/10/93		NM	NM	NM14.27	3 cups
MW-7					
04/25/89	14.84	8.66	NP	6.18	None
09/06/89		11.72	Sheen	3.12	None
09/22/89		11.89	NP	2.95	None
12/06/89		10.46	NP	4.38	None
02/20/90		8.44	NP	6.40	None
04/19/90		9.54	NP	5.30	None
07/03/90		7.45	NP	7.39	None
07/26/90		8.08	NP	6.76	None
08/20/90		8.82	NP	6.02	None
09/19/90		9.01	NP	5.83	None
11/27/90		9.54	NP	5.30	None
01/17/91		8.50	NP	6.34	None
03/26/91		5.92	NP	8.92	None
05/02/91		7.72	NP	7.12	None
06/20/91		8.19	NP	6.65	None
08/07/91		8.70	NP	6.14	None
09/17/91		8.77	NP	6.07	None
11/13/91		8.51	NP	6.33	None
12/10/91		8.58	NP	6.26	None
01/21/92		8.32	NP	6.52	None
03/25/92		9.27	NP	5.57	None
06/22/92		6.97	NP	7.87	None
09/24/92		8.00	NP	6.84	None
10/14/92		8.15	NP	6.69	None
11/16/92		7.92	NP	6.92	None

TABLE 1
CUMULATIVE GROUNDWATER MONITORING DATA
Former Exxon Station 7-3006
Oakland, California

See notes on page 16

WELL DATE	WELL ELEVATION	DEPTH TO WATER	PRODUCT THICKNESS	GROUNDWATER ELEVATION	PRODUCT REMOVED
MW-7 cont.	14.82				
12/08/92		7.75	NP	7.09	None
01/27/93		5.09	NP	9.75	None
02/18/93		4.51	NP	10.33	None
03/10/93		4.78	NP	10.06	None
04/06/93		4.48	NP	10.36	None
05/28/93		5.44	NP	9.40	None
06/10/93		5.60	NP	9.24	None
MW-8					
04/25/89	13.45	8.31	0.66	5.67	NR
07/19/89		10.97	1.25	3.48	NR
07/27/89		10.34	0.08	3.17	NR
09/06/89		11.09	0.17	2.50	NR
09/22/89		11.58	0.36	2.16	NR
11/01/89		11.03	NP	2.42	None
11/15/89		11.25	0.01	2.21	NR
12/06/89		10.30	Sheen	3.15	None
02/20/90		8.00	0.01	5.46	NR
04/19/90		8.50	NP	4.95	None
07/03/90		7.55	NP	5.90	None
07/26/90		7.86	NP	5.59	None
08/20/90		8.92	NP	4.53	None
09/19/90		9.55	NP	3.90	None
11/27/90		10.29	0.01	3.17	NR
01/17/91		9.97	Sheen	3.48	None
03/26/91		8.45	Sheen	5.00	None
05/02/91		8.85	Sheen	4.60	None
06/20/91		9.45	Sheen	4.00	None
08/07/91		10.00	Sheen	3.45	None
09/17/91		10.11	Sheen	3.34	None
11/13/91		9.63	Sheen	3.82	None

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CUMULATIVE GROUNDWATER MONITORING DATA
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WELL DATE	WELL ELEVATION	DEPTH TO WATER	PRODUCT THICKNESS	GROUNDWATER ELEVATION	PRODUCT REMOVED
MW-1					
04/25/89	12.87	7.55	NP	5.32	None
04/27/89		10.16	Sheen	2.71	None
09/06/89		10.88	Sheen	1.99	None
09/22/89		11.06	NP	1.81	None
11/01/89		10.82	NP	2.05	None
11/15/89		11.07	NP	1.80	None
12/06/89		10.33	NP	2.54	None
02/20/90		8.81	NP	4.06	None
04/19/90		9.33	NP	3.54	None
07/03/90		8.44	NP	4.43	None
07/26/90		8.99	NP	3.88	None
08/20/90		9.50	NP	3.37	None
09/19/90		9.99	NP	2.88	None
11/27/90		10.62	NP	2.25	None
01/17/91		10.31	NP	2.56	None
03/26/91		7.79	NP	5.08	None
05/02/91		8.88	NP	3.99	None
06/20/91		9.62	NP	3.25	None
08/07/91		10.20	NP	2.67	None
09/17/91		10.40	NP	2.47	None
11/13/91		10.20	NP	2.67	None
12/10/91		10.23	NP	2.64	None
01/21/92		9.32	NP	3.55	None
03/25/92		9.30	NP	3.57	None
06/22/92		8.46	NP	4.41	None
09/24/92		9.61	NP	3.26	None
10/14/92		9.85	NP	3.02	None
11/16/92		9.65	NP	3.22	None
12/08/92		9.30	NP	3.57	None

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CUMULATIVE GROUNDWATER MONITORING DATA
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WELL DATE	WELL ELEVATION	DEPTH TO WATER	PRODUCT THICKNESS	GROUNDWATER ELEVATION	PRODUCT REMOVED
MW-1 cont.	12.87				
01/27/93		6.13	NP	6.74	None
02/18/93		6.07	NP	6.80	None
03/10/93		6.12	NP	6.75	None
04/06/93		5.84	NP	7.03	None
05/28/93		7.27	NP	5.60	None
06/10/93		7.40	NP	5.47	None
MW-2					
04/25/89	12.98	9.27	2.16	5.44	NR
07/19/89		10.81	1.56	3.42	NR
07/27/89		10.18	0.13	2.90	NR
09/06/89		10.89	0.09	2.16	NR
09/22/89		11.56	0.56	1.87	NR
11/01/89		10.85	0.09	2.20	NR
11/15/89		11.05	0.07	1.99	NR
12/06/89		10.23	0.13	2.85	NR
02/20/90		8.86	0.29	4.35	NR
04/19/90		9.09	0.10	3.97	NR
07/03/90		8.75	0.05	4.27	NR
07/26/90		8.71	0.10	4.35	NR
08/20/90		9.25	0.02	3.75	NR
09/19/90		9.79	0.02	3.21	NR
11/27/90		10.40	0.07	2.64	NR
01/17/91		10.03	0.05	2.99	NR
03/26/91		8.98	0.08	4.06	NR
05/02/91		8.73	0.02	4.27	NR
06/20/91		9.11	0.02	3.89	NR
08/07/91		10.00	0.04	3.01	NR
09/17/91		10.11	0.02	2.89	NR
11/13/91		9.88	0.02	3.12	NR
12/10/91		9.02	0.03	3.98	NR

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WELL DATE	WELL ELEVATION	DEPTH TO WATER	PRODUCT THICKNESS	GROUNDWATER ELEVATION	PRODUCT REMOVED
MW-2 cont.	12.98				
01/21/92		9.08	0.03	3.92	NR
03/25/92		6.00	0.03	7.00	NR
06/22/92		8.46	0.01	4.53	1/2 cup
09/24/92		9.08	Sheen	3.90	NR
10/14/92		9.34	0.02	3.66	1/2 cup
11/16/92		9.16	0.02	3.84	1/2 cup
12/08/92		8.93	0.02	4.07	1/2 cup
01/27/93		5.76	Sheen	7.22	None
02/18/93		4.21	0.01	8.78	None
03/10/93		6.75	Sheen	6.23	None
04/06/93		5.37	Sheen	7.61	1/2 cup
05/28/93		NM	NM	NM	2 cups
06/10/93		NM	NM	NM	1/2 cup
MW-3					
04/25/89	12.94	7.57	0.08	5.43	NR
07/19/89		10.33	0.66	3.14	NR
07/27/89			Not Accessible		
09/06/89		11.22	0.07	1.78	NR
09/22/89		11.38	0.28	1.78	NR
11/01/89		10.90	0.01	2.05	NR
11/15/89		11.18	0.11	1.85	NR
12/06/89		10.29	Sheen	2.65	None
02/20/90		8.73	0.04	4.24	NR
04/19/90		9.20	0.09	3.81	NR
07/03/90		8.50	0.03	4.46	NR
07/26/90		8.58	0.04	4.39	NR
08/20/90		9.21	0.01	3.74	NR
09/19/90		10.02	0.35	3.20	NR
11/27/90		10.72	0.42	2.56	NR
01/17/91		10.05	0.10	2.97	NR

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WELL DATE	WELL ELEVATION	DEPTH TO WATER	PRODUCT THICKNESS	GROUNDWATER ELEVATION	PRODUCT REMOVED
MW-3 cont.	12.94				
03/26/91		7.65	0.10	5.37	NR
05/02/91		8.54	0.03	4.42	NR
06/20/91		8.89	0.03	4.07	NR
08/07/91		9.99	0.03	2.97	NR
09/17/91		10.32	0.22	2.80	NR
11/13/91		10.14	0.24	2.99	NR
12/10/91		10.10	0.11	2.93	NR
01/21/92		9.07	0.06	3.92	NR
03/25/92		5.96	0.04	7.01	NR
06/22/92		8.07	0.02	4.89	1/2 cup
09/24/92		9.29	Sheen	3.65	None
10/14/92		9.49	0.02	3.47	1/2 cup
11/16/92		9.29	0.02	3.67	1/2 cup
12/08/92		9.08	0.02	3.88	1/2 cup
01/27/93		5.65	Sheen	7.29	None
02/18/93		4.63	Sheen	8.31	None
03/10/93		5.53	Sheen	7.41	None
04/06/93		5.10	Sheen	7.84	None
05/28/93		6.50	Sheen	6.44	None
06/10/93		6.65	Sheen	6.29	None
MW-4					
04/25/89	12.77	7.26	0.16	5.64	NR
07/19/89		10.32	0.72	3.03	NR
07/27/89		Not Accessible			
09/06/89		11.40	0.07	1.43	NR
09/22/89		11.64	0.19	1.28	NR
11/01/89		11.00	Sheen	1.77	None
11/15/89		11.18	0.10	1.67	NR
12/06/89		10.25	Sheen	2.52	None
02/20/90		8.40	NP	4.37	None

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WELL DATE	WELL ELEVATION	DEPTH TO WATER	PRODUCT THICKNESS	GROUNDWATER ELEVATION	PRODUCT REMOVED
MW-8 cont.	13.45				
12/10/91		9.66	Sheen	3.79	None
01/21/92		9.35	Sheen	4.10	None
03/25/92		8.02	Sheen	5.43	None
06/22/92		7.01	Sheen	6.44	None
09/24/92		8.33	Sheen	5.12	None
10/14/92		8.65	Sheen	4.80	None
11/16/92		8.27	Sheen	5.18	None
12/08/92		8.25	Sheen	5.20	None
01/27/93		5.22	Sheen	8.23	None
02/18/93		4.27	Sheen	9.18	None
03/10/93		5.30	Sheen	8.15	None
04/06/93		4.56	Sheen	8.89	None
05/28/93		5.62	Sheen	7.83	None
06/10/93		5.75	Sheen	7.70	None
MW-9					
04/25/89	14.64	8.25	NP	6.39	None
09/06/89		Not Accessible			
09/22/89		Not Accessible			
12/06/89		10.12	NP	4.52	None
02/20/90		9.38	NP	5.26	None
04/19/90		9.40	NP	5.24	None
07/03/90		8.79	NP	5.85	None
07/26/90		8.70	NP	5.94	None
08/20/90		9.09	NP	5.55	None
09/19/90		9.52	NP	5.12	None
11/27/90		9.89	NP	4.75	None
01/17/91		Not Accessible			
03/26/91		Not Accessible			
05/02/91		9.10	NP	5.54	None
06/20/91		8.76	NP	5.88	None

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WELL DATE	WELL ELEVATION	DEPTH TO WATER	PRODUCT THICKNESS	GROUNDWATER ELEVATION	PRODUCT REMOVED
MW-9 cont.	14.46				
08/07/91		9.37	NP	5.27	None
09/17/91		9.57	NP	5.07	None
11/13/91		9.46	NP	5.18	None
12/10/91		9.30	NP	5.34	None
01/21/92		9.68	NP	4.96	None
03/25/92		8.93	NP	5.71	None
06/22/92		7.45	NP	7.19	None
09/24/92		8.69	NP	5.95	None
10/14/92		8.83	NP	5.81	None
11/16/92		8.80	NP	5.84	None
12/08/92		8.70	NP	5.94	None
01/27/93		Not Monitored			
02/18/93		9.22	NP	5.42	None
03/10/93		5.25	NP	9.39	None
04/06/93		5.07	NP	9.57	None
05/28/93		6.08	NP	8.56	None
06/10/93		6.27	NP	8.37	None
MW-10					None
12/06/89	14.05	10.46	NP	3.59	None
02/20/90		8.12	NP	5.93	None
04/19/90		8.54	NP	5.51	None
07/03/90		7.88	NP	6.17	None
07/26/90		8.19	NP	5.86	None
08/20/90		10.33	NP	3.72	None
09/19/90		9.49	NP	4.56	None
11/27/90		9.89	NP	4.16	None
01/17/91		9.19	NP	4.86	None
03/26/91		7.48	NP	6.57	None
05/02/91		8.16	NP	5.89	None
06/20/91		8.75	NP	5.30	None

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WELL DATE	WELL ELEVATION	DEPTH TO WATER	PRODUCT THICKNESS	GROUNDWATER ELEVATION	PRODUCT REMOVED
MW-10 cont.	14.05				
08/07/91		9.53	NP	4.52	None
09/17/91		9.72	NP	4.33	None
11/13/91		10.02	NP	4.03	None
12/10/91		9.12	NP	4.93	None
01/21/92		8.31	NP	5.74	None
03/25/92		5.70	NP	8.35	None
06/22/92		7.50	NP	6.55	None
09/24/92		8.68	NP	5.37	None
10/14/92		8.88	NP	5.17	None
11/16/92		8.70	NP	5.35	None
12/08/92		8.31	NP	5.74	None
01/27/93		5.49	NP	8.56	None
02/18/93		4.26	NP	9.79	None
03/10/93		5.40	NP	8.65	None
04/06/93		5.28	NP	8.77	None
05/28/93		6.22	NP	7.83	None
06/10/93		6.49	NP	7.56	None
MW-11					
12/06/89	13.55	10.62	NP	2.93	None
02/20/90		9.20	NP	4.35	None
04/19/90		9.80	NP	3.75	None
07/03/90		8.90	NP	4.65	None
07/26/90		9.36	NP	4.19	None
08/20/90		9.90	NP	3.65	None
09/19/90		10.39	NP	3.16	None
11/27/90		10.97	NP	2.58	None
01/17/91		10.76	NP	2.79	None
03/26/91		8.80	NP	4.75	None
05/02/91		9.38	NP	4.17	None
06/20/91		10.16	NP	3.39	None

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WELL DATE	WELL ELEVATION	DEPTH TO WATER	PRODUCT THICKNESS	GROUNDWATER ELEVATION	PRODUCT REMOVED
MW-11 cont.	13.55				
08/07/91		10.69	NP	2.86	None
09/17/91		10.80	NP	2.75	None
11/13/91		10.44	NP	3.11	None
12/10/91		10.48	NP	3.07	None
01/21/92		10.10	NP	3.45	None
03/25/92		7.30	NP	6.25	None
06/22/92		9.02	NP	4.53	None
09/24/92		9.91	NP	3.64	None
10/14/92		10.11	NP	3.44	None
11/16/92		9.79	NP	3.76	None
12/08/92		9.77	NP	3.78	None
01/27/93		5.67	NP	7.88	None
02/18/93		5.06	NP	8.49	None
03/10/93		6.40	NP	7.15	None
04/06/93		6.42	NP	7.13	None
05/28/93		7.65	NP	5.90	None
06/10/93		7.80	NP	5.75	None
MW-12					
12/06/89	12.61	8.00	NP	4.61	None
02/20/90		6.33	NP	6.28	None
04/19/90		7.18	NP	5.43	None
07/03/90		7.41	NP	5.20	None
07/26/90		6.54	NP	6.07	None
08/20/90		7.23	NP	5.38	None
09/19/90		7.77	NP	4.84	None
11/27/90		8.15	NP	4.46	None
01/17/91		8.06	NP	4.55	None
03/26/91		7.21	NP	5.40	None
05/02/91		7.60	Sheen	5.01	None
06/20/91		8.02	Sheen	4.59	None

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WELL DATE	WELL ELEVATION	DEPTH TO WATER	PRODUCT THICKNESS	GROUNDWATER ELEVATION	PRODUCT REMOVED
MW-12 cont.	12.61				
08/07/91		8.25	Sheen	4.36	None
09/17/91		8.20	Sheen	4.41	None
11/13/91		7.77	Sheen	4.84	None
12/10/91		7.75	Sheen	4.86	None
01/21/92		7.08	Sheen	5.53	None
03/25/92		4.93	Sheen	7.68	None
06/22/92		6.04	Sheen	6.57	None
09/24/92		6.94	NP	5.67	None
10/14/92		7.21	Sheen	5.40	None
11/16/92		7.00	Sheen	5.61	None
12/08/92		6.70	Sheen	5.91	None
01/27/93		4.16	Sheen	8.45	None
02/18/93		4.01	Sheen	8.60	None
03/10/93		3.94	Sheen	8.67	None
04/06/93		3.69	Sheen	8.92	None
05/28/93		4.66	Sheen	7.95	None
06/10/93		4.78	Sheen	7.83	None
MW-13					
12/06/89	14.20	9.35	NP	4.85	None
02/20/90		7.73	NP	6.47	None
04/19/90		8.68	NP	5.52	None
07/03/90		8.00	NP	6.20	None
07/26/90		7.95	NP	6.25	None
08/20/90		8.66	NP	5.54	None
09/19/90		9.13	NP	5.07	None
11/27/90		9.49	NP	4.71	None
01/17/91		9.61	NP	4.59	None
03/26/91		9.25	NP	4.95	None
05/02/91		9.31	NP	4.89	None
06/20/91		9.73	NP	4.47	None

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WELL DATE	WELL ELEVATION	DEPTH TO WATER	PRODUCT THICKNESS	GROUNDWATER ELEVATION	PRODUCT REMOVED
MW-13 cont.	14.20				
08/07/91		Not Accessible			
09/17/91		9.72	NP	4.48	None
11/13/91		9.06	NP	5.14	None
12/10/91		9.04	NP	5.16	None
01/21/92		8.41	NP	5.79	None
03/25/92		5.72	Sheen	8.48	None
06/22/92		7.31	Sheen	6.89	None
09/24/92		8.30	NP	5.90	None
10/14/92		8.56	Sheen	5.64	None
11/16/92		8.36	Sheen	5.84	None
12/08/92		8.10	Sheen	6.10	None
01/27/93		Not Monitored			
02/18/93		4.89	Sheen	9.31	None
03/10/93		5.32	Sheen	8.88	None
04/06/93		5.10	Sheen	9.10	None
05/28/93		6.00	Sheen	8.20	None
06/10/93		6.15	Sheen	8.05	None
MW-14					
11/27/90	15.18	9.88	NP	5.30	None
01/17/91		9.13	NP	6.05	None
03/26/91		8.51	NP	6.67	None
05/02/91		8.45	NP	6.73	None
06/20/91		8.38	NP	6.80	None
08/07/91		9.04	NP	6.14	None
09/17/91		9.14	NP	6.04	None
11/13/91		8.83	NP	6.35	None
12/10/91		8.90	NP	6.28	None
01/21/92		8.58	NP	6.60	None
03/25/92		6.15	NP	9.03	None
06/22/92		7.70	NP	7.48	None

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MW-14 cont.	15.18				
09/24/92		9.34	NP	5.84	None
10/14/92		9.40	NP	5.78	None
11/16/92		9.17	NP	6.01	None
12/08/92		8.89	NP	6.29	None
01/27/93		8.54	NP	6.64	None
02/18/93		Not Monitored			
03/10/93		5.55	NP	9.63	None
04/06/93		5.34	NP	9.84	None
05/28/93		6.07	NP	9.11	None
06/10/93		6.30	NP	8.88	None
MW-15					
11/27/90	13.73	8.67	NP	5.06	None
01/17/91		8.03	NP	5.70	None
03/26/91		Not Accessible			
05/02/91		7.09	NP	6.64	None
06/20/91		7.06	NP	6.67	None
08/07/91		7.59	NP	6.14	None
09/17/91		7.89	NP	5.84	None
11/13/91		9.07	NP	4.66	None
12/10/91		8.60	NP	5.13	None
01/21/92		9.15	NP	4.58	None
03/25/92		8.10	NP	5.63	None
06/22/92		5.80	NP	7.93	None
09/24/92		7.21	NP	6.52	None
10/14/92		7.40	NP	6.33	None
11/16/92		7.55	NP	6.18	None
12/08/92		7.42	NP	6.31	None
01/27/93		4.37	NP	9.36	None
02/18/93		4.14	Sheen	9.59	None
03/10/93		Not Accessible			

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CUMULATIVE GROUNDWATER MONITORING DATA
Former Exxon Station 7-3006
Oakland, California

See notes on page 16

WELL DATE	WELL ELEVATION	DEPTH TO WATER	PRODUCT THICKNESS	GROUNDWATER ELEVATION	PRODUCT REMOVED
MW-15 cont.	13.73				
04/06/93		3.16	NP	10.57	Sheen
05/28/93		4.47	NP	9.26	None
06/10/93		4.59	Sheen	9.14	None
VW-1					
02/18/93	14.01	4.52	NP	9.49	None
03/10/93		5.25	NP	8.76	None
04/06/93		5.06	NP	8.95	None
05/28/93		5.52	NP	8.49	None
06/10/93		5.62	NP	8.39	None
VW-2					
02/18/93	14.09	4.41	NP	9.68	None
03/10/93		5.17	NP	8.92	None
04/06/93		5.04	NP	9.05	None
05/28/93		5.46	NP	8.63	None
06/10/93		5.60	NP	8.49	None
VW-3					
02/18/93	13.37	4.62	NP	8.69	None
03/10/93		4.41	NP	8.90	None
04/06/93		4.10	NP	9.21	None
05/28/93		4.98	NP	8.33	None
06/10/93		4.98	NP	8.33	None

Well elevations relative to Mean Sea Level (MSL).
Measurements in feet.

* : Groundwater elevation corrected for presence of free-phase petroleum hydrocarbons. See appendix A.
NR : Not Recorded
NM : Not Measured
NA : Not Applicable
NP : No Free-phase petroleum hydrocarbons

TABLE 2
CUMULATIVE RESULTS OF LABORATORY ANALYSES
OF GROUNDWATER SAMPLES
Former Exxon Station 7-3006
Oakland, California
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See notes on page 14

WELL DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	TPHd	TOG	VOCs
MW-1								
05/88	0.24	0.090	0.005	0.015	0.025	NA	NA	ND
12/89	0.63	0.012	0.0056	0.0037	0.025	0.24	NA	NA
04/90	<0.02	<0.0005	<0.0005	<0.0005	<0.0005	<0.10	NA	NA
07/90	0.13	0.006	<0.0005	<0.0005	<0.0005	0.16	NA	NA
11/90	<0.05	0.0007	<0.0005	<0.0005	<0.0005	<0.10	NA	NA
03/91	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.10	NA	NA
06/91	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.10	NA	NA
09/91	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	NA	NA	NA
12/91	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.05	NA	NA
03/92	<0.05	0.0015	<0.0005	<0.0005	<0.0005	<0.05	NA	NA
06/92	0.11	0.0049	0.0079	0.0037	0.021	0.075	NA	NA
09/92	<0.05	<0.0005	0.0006	<0.0005	<0.0005	<0.05	NA	NA
12/92	0.17	0.010	<0.0005	<0.0005	0.0006	0.051	NA	NA
03/93	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	0.14	NA	NA
06/93 [3]	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.05	NA	NA
MW-2								
09/87	1.445	0.233	0.81	0.056	0.209	NA	NA	NA

TABLE 2
CUMULATIVE RESULTS OF LABORATORY ANALYSES
OF GROUNDWATER SAMPLES
Former Exxon Station 7-3006
Oakland, California
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See notes on page 14

WELL DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	TPHd	TOG	VOCs
MW-2 (cont)								
05/88	Free-phase petroleum hydrocarbons							
12/89	Free-phase petroleum hydrocarbons							
04/90	Free-phase petroleum hydrocarbons							
07/90	Free-phase petroleum hydrocarbons							
11/90	Free-phase petroleum hydrocarbons							
03/91	Free-phase petroleum hydrocarbons							
06/91	Free-phase petroleum hydrocarbons							
09/91	Free-phase petroleum hydrocarbons							
12/91	Free-phase petroleum hydrocarbons							
03/92	Free-phase petroleum hydrocarbons							
06/92	Free-phase petroleum hydrocarbons							
09/92	Sheen							
12/92	Free-phase petroleum hydrocarbons							
03/93	Sheen							
06/93	Free-phase petroleum hydrocarbons							
MW-3								
09/87	2.101	0.360	1.062	0.068	0.298	0.66	NA	NA
05/88	8.70	3.98	0.28	0.24	0.60	NA	NA	NA

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TABLE 2
CUMULATIVE RESULTS OF LABORATORY ANALYSES
OF GROUNDWATER SAMPLES
Former Exxon Station 7-3006
Oakland, California

See notes on page 14

WELL DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	TPHd	TOG	VOCs
MW-3 (cont)								
12/89	Free-phase petroleum hydrocarbons							
04/90	Free-phase petroleum hydrocarbons							
07/90	Free-phase petroleum hydrocarbons							
11/90	Free-phase petroleum hydrocarbons							
03/91	Free-phase petroleum hydrocarbons							
06/91	Free-phase petroleum hydrocarbons							
09/91	Free-phase petroleum hydrocarbons							
12/91	Free-phase petroleum hydrocarbons							
03/92	Free-phase petroleum hydrocarbons							
06/92	Free-phase petroleum hydrocarbons							
09/92	Sheen							
12/92	Free-phase petroleum hydrocarbons							
03/93	Sheen							
06/93	Sheen							
MW-4								
09/87	0.925	0.070	0.007	0.010	0.016	0.74	NA	NA
05/88	Free-phase petroleum hydrocarbons							
12/89	Free-phase petroleum hydrocarbons							

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TABLE 2
CUMULATIVE RESULTS OF LABORATORY ANALYSES
OF GROUNDWATER SAMPLES
Former Exxon Station 7-3006
Oakland, California

See notes on page 14

WELL DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	TPHd	TOG	VOCs
MW-4 (cont)								
04/90	Free-phase petroleum hydrocarbons							
07/90	Emulsion							
11/90	Free-phase petroleum hydrocarbons							
03/91	Free-phase petroleum hydrocarbons							
06/91	Free-phase petroleum hydrocarbons							
09/91	Free-phase petroleum hydrocarbons							
12/91	Free-phase petroleum hydrocarbons							
03/92	Free-phase petroleum hydrocarbons							
06/92	Free-phase petroleum hydrocarbons							
09/92	Sheen							
12/92	Free-phase petroleum hydrocarbons							
03/93	Free-phase petroleum hydrocarbons							
06/93	Free-phase petroleum hydrocarbons							
MW-5								
09/87	26.66	0.56	1.71	1.58	7.15	37.22	NA	NA
05/88	Free-phase petroleum hydrocarbons							
07/89	Well Destroyed							

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TABLE 2
CUMULATIVE RESULTS OF LABORATORY ANALYSES
OF GROUNDWATER SAMPLES
Former Exxon Station 7-3006
Oakland, California
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See notes on page 14

WELL DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	TPHd	TOG	VOCs
MW-6								
05/88	29.3	12.82	0.55	1.44	5.50	NA	NA	NA
12/89	9.0	0.37	0.013	0.0026	0.43	4.8	NA	NA
04/90	27	3.0	0.12	0.49	2.1	26	NA	NA
07/90	30	5.5	1.4	1.2	3.1	13	NA	NA
11/90	15	4.4	0.12	0.8	2.3	7.6	NA	NA
03/91	55	10	0.38	1.6	6.9	<0.10	NA	NA
06/91	Sheen							
09/91	17	4.5	0.16	0.89	3.1	NA	NA	NA
12/91	32	6.0	0.29	1.4	4.7	1.2	NA	NA
03/92	21	8.0	0.25	1.7	5.0	2.7	NA	NA
06/92	43	11	0.15	2.1	5.0	1.7	NA	NA
09/92	45	9.8	0.27	1.7	3.6	2.0	NA	NA
12/92	Sheen							
03/93	Free-phase petroleum hydrocarbons							
06/93	130	9.8	0.65	5.1	12	38	23	[4]
MW-7								
09/87	1.531	0.258	0.002	<0.002	0.042	2.79	NA	ND

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TABLE 2
CUMULATIVE RESULTS OF LABORATORY ANALYSES
OF GROUNDWATER SAMPLES
Former Exxon Station 7-3006
Oakland, California
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See notes on page 14

WELL DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	TPHd	TOG	VOCs
MW-7 (cont)								
05/88	NA	0.30*	<0.01*	<0.01*	<0.01*	0.019	NA	ND
12/89	1.7	0.22	0.0053	0.005	0.0086	2.5	<5	ND
04/90	2.7	0.22	0.0086	0.007	0.020	3.5	NA	ND
07/90	2.5	0.38	0.013	0.016	0.035	0.91	NA	ND
11/90	2.3	0.63	0.016	0.032	0.029	1.3	NA	0.0024 [1]
03/91	3.5	0.42	0.018	0.017	0.027	<0.10	NA	ND
06/91	3.1	0.27	0.0088	0.033	0.019	<0.10	NA	NA
09/91	2.4	0.39	0.01	0.015	0.018	NA	NA	NA
12/91	1.7	0.29	0.0053	0.0071	<0.0005	0.53	NA	NA
03/92	1.5	0.32	0.0072	0.016	0.019	0.76	NA	NA
06/92	3.1	0.26	0.0058	0.021	0.027	0.83	NA	NA
09/92	3.9	0.16	0.0046	0.0037	0.013	0.66	NA	NA
12/92	17	1.1	0.035	0.077	0.046	0.54	NA	NA
03/93	3.5	0.16	0.0062	0.022	0.019	0.64	<5.0	**
06/93	1.6	0.14	0.0065	0.022	0.061	0.57	NA	NA
MW-8								
09/87	1.325	0.081	0.074	0.042	0.182	NA	NA	NA
05/88	Free-phase petroleum hydrocarbons							

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TABLE 2
CUMULATIVE RESULTS OF LABORATORY ANALYSES
OF GROUNDWATER SAMPLES
Former Exxon Station 7-3006
Oakland, California
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See notes on page 14

WELL DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	TPHd	TOG	VOCs
MW-8 (cont)								
12/89	42	2.6	0.63	0.21	3.7	34	NA	NA
04/90	49	2.1	0.82	1.1	4.8	53	NA	NA
07/90	44	4.0	1.5	2.0	6.3	32	NA	NA
11/90	Free-phase petroleum hydrocarbons							
03/91	Sheen							
06/91	Sheen							
09/91	57	14	7.8	3.1	12	NA	NA	NA
12/91	66	9.5	5.0	3.1	12	1.4	NA	NA
03/92	Sheen							
06/92	Sheen							
09/92	Sheen							
12/92	Sheen							
03/93	Sheen							
06/93	Sheen							
MW-9								
05/88	<0.05	<0.0005	0.001	<0.001	<0.001	NA	NA	ND
12/89	0.1	0.0018	0.0037	0.0014	0.0088	0.11	<5	ND
04/90	<0.02	<0.0005	<0.0005	<0.0005	<0.0005	<0.10	NA	ND

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TABLE 2
CUMULATIVE RESULTS OF LABORATORY ANALYSES
OF GROUNDWATER SAMPLES
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WELL DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	TPHd	TOG	VOCs
MW-9 (cont)								
07/90	<0.02	<0.0005	<0.0005	<0.0005	<0.0005	<0.10	NA	ND
11/90	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.10	NA	ND
03/91	Not Accessible							
06/91	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.10	NA	NA
09/91	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	NA	NA	NA
12/91	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	0.052	NA	NA
03/92	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.05	NA	NA
06/92	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.05	NA	NA
09/92	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.05	NA	NA
12/92	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.05	NA	NA
03/93	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.05	NA	NA
06/93	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.05	NA	NA
MW-10								
12/89	0.32	0.0037	0.014	0.0056	0.032	<0.10	NA	NA
04/90	<0.02	<0.0005	<0.0005	<0.0005	<0.0005	<0.10	NA	ND
07/90	<0.02	<0.0005	<0.0005	<0.0005	<0.0005	<0.10	NA	NA
11/90	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.10	NA	NA
03/91	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.10	NA	NA

TABLE 2
CUMULATIVE RESULTS OF LABORATORY ANALYSES
OF GROUNDWATER SAMPLES
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See notes on page 14

WELL DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	TPHd	TOG	VOCs
MW-10 (cont)								
06/91	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.10	NA	NA
09/91	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.10	NA	NA
12/91	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.05	NA	NA
03/92	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.05	NA	NA
06/92	<0.05	<0.0005	0.0006	<0.0005	0.0008	<0.05	NA	NA
09/92	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.05	NA	NA
12/92	<0.05	<0.0005	<0.0005	<0.0005	0.0009	<0.05	NA	NA
03/93	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.05	NA	NA
06/93	<0.05	<0.0005	0.0006	0.0007	0.0012	<0.05	NA	NA
MW-11								
12/89	0.078	0.0059	0.0063	<0.0005	48	<0.10	NA	NA
04/90	<0.02	<0.0005	<0.0005	<0.0005	<0.0005	<0.10	NA	NA
07/90	<0.02	<0.0005	<0.0005	<0.0005	<0.0005	<0.10	NA	NA
11/90	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.10	NA	NA
03/91	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.10	NA	NA
06/91	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.10	NA	NA
09/91	<0.05	<0.0005	0.0007	<0.0005	<0.0005	NA	NA	NA
12/91	<0.05	0.0007	<0.0005	<0.0005	<0.0005	<0.05	NA	NA

TABLE 2
CUMULATIVE RESULTS OF LABORATORY ANALYSES
OF GROUNDWATER SAMPLES
Former Exxon Station 7-3006
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See notes on page 14

WELL DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	TPHd	TOG	VOCs
MW-11 (cont)								
03/92	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.05	NA	NA
06/92	0.084	0.0015	0.0031	0.0014	0.0096	0.057	NA	NA
09/92	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.05	NA	NA
12/92	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	0.31	NA	NA
03/93	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	0.24	NA	NA
06/93	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.05	NA	NA
MW-12								
12/89	85	6.7	6.3	1.8	7.8	40	NA	NA
04/90	110	6.6	7.4	1.8	11	97	NA	NA
07/90	92	11	11	3.1	13	50	NA	NA
11/90	69	11	10	3.1	12	31	NA	NA
03/91	100	15	16	2.4	11	<0.10	NA	NA
06/91					Sheen			
09/91	82	22	18	3.9	16	NA	NA	NA
12/91	99	18	16	3	11	1.7	NA	NA
03/92					Sheen			
06/92					Sheen			
09/92	570	62	46	15	57	3.1	NA	NA

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TABLE 2
CUMULATIVE RESULTS OF LABORATORY ANALYSES
OF GROUNDWATER SAMPLES
Former Exxon Station 7-3006
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WELL DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	TPHd	TOG	VOCs
MW-12 (cont)								
12/92				Sheen				
03/93				Sheen				
06/93				Sheen				
MW-13								
12/89	52	2.1	2.0	1.4	6.1	31	NA	NA
04/90	59	1.8	1.5	1.4	7.2	54	NA	NA
07/90	53	4.5	3.1	2.2	7.8	26	NA	NA
11/90	20	4.5	1.1	0.88	3.3	1.6	NA	NA
03/91	72	10	8.3	1.7	6.9	<0.10	NA	NA
06/91	44	5.6	3.1	0.75	2.6	<0.10	NA	NA
09/91	40	11	6.5	2.4	8.1	NA	NA	NA
12/91	72	11	7.4	2.5	9.4	3.7	NA	NA
03/92				Sheen				
06/92				Sheen				
09/92	86	9.5	6.1	2.4	10	2.9	NA	NA
12/92				Sheen				
03/93				Sheen				
06/93				Sheen				

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TABLE 2
CUMULATIVE RESULTS OF LABORATORY ANALYSES
OF GROUNDWATER SAMPLES
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WELL DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	TPHd	TOG	VOCs
MW-14								
11/90	0.39	<0.0005	<0.0005	0.0036	0.0037	0.12	NA	NA
03/91	0.20	<0.0005	0.0015	0.0008	0.0036	<0.10	NA	NA
06/91	0.11	<0.0005	<0.0005	<.0005	<0.0005	<0.10	NA	NA
09/91	0.45	<0.0005	<0.0005	0.0032	0.0023	NA	NA	NA
12/91	0.071	0.0005	<0.0005	<0.0005	<0.0005	0.28	NA	NA
03/92	0.061	<0.0005	<0.0005	0.0011	<0.0005	0.64	NA	NA
06/92	0.140	<0.0005	<0.0005	0.0006	0.0020	0.35	NA	NA
09/92	0.075	<0.0005	<0.0005	<0.0005	<0.0005	0.30	NA	NA
12/92	0.35	0.0025	0.0010	0.0015	0.0081	0.22	NA	NA
03/93	0.41	<0.0005	<0.0005	0.0009	0.0016	<0.25[2]	NA	NA
06/93	0.180	<0.0005	<0.0005	0.0008	0.0019	0.18	NA	NA
						<0.50[5]	NA	NA
MW-15								
11/90	2.7	0.21	0.0055	0.6	0.25	0.34	NA	NA
03/91	Not Accessible							
06/91	0.38	<0.0005	<0.0005	<0.0005	0.0013	<0.10	NA	NA
09/91	0.49	0.0029	0.0017	0.033	0.0013	NA	NA	NA
12/91	1.6	0.014	0.0011	0.066	0.0098	0.30	NA	NA

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TABLE 2
CUMULATIVE RESULTS OF LABORATORY ANALYSES
OF GROUNDWATER SAMPLES
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WELL DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	TPHd	TOG	VOCs
MW-15 (cont)								
03/92	3.4	0.15	0.013	0.690	0.250	1.4	NA	NA
06/92	6.6	0.099	<0.0005	0.670	0.180	0.86	NA	NA
09/92	3.6	0.120	0.007	0.480	0.047	0.74	NA	NA
12/92	1.6	0.043	0.0016	0.170	0.023	0.43	NA	NA
03/93	Not Accessible							
06/93	Sheen							
VW-1								
06/93	Not Sampled							
VW-2								
06/93	Not Sampled							
VW-3								
06/93	Not Sampled							
	MCLs	0.001	---	0.680	1.750	---	---	---
	DWAL	---	0.100	---	---	---	---	---

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TABLE 2
CUMULATIVE RESULTS OF LABORATORY ANALYSES
OF GROUNDWATER SAMPLES
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Results in parts per million (ppm).		
<	:	Less than the laboratory detection limit.
NA	:	Not Analyzed
ND	:	Nondetectable
---	:	Not applicable
TPHg	:	Total petroleum hydrocarbons as gasoline using modified EPA method 5030/8015.
BTEX	:	Analyzed using modified EPA method 5030/8020.
TPHd	:	Total petroleum hydrocarbons as diesel using EPA method 3510/8015.
TOG	:	Total Oil and Grease using Standard Method 5520 B/F.
VOC	:	Volatile Organic Compounds analyzed by EPA method 5030/8010.
*	:	Analyzed using EPA method 624 (volatile organic compounds).
1	:	Chloromethane
2	:	Analyzed for Stoddard Solvent using EPA method 3510/8015.
3	:	Additional Analysis on MW-1 - Fecal Coliform Most Probable Number (MPN)/100 ml
4	:	VOCs Detected using EPA Method 624 - 16 ppm Benzene, 0.48 ppm Toluene, 4.5 ppm ethylbenzene, 9.9 Total Xylenes
		VOCs Detected using EPA Method 625 - 1.8 ppm Naphthalene, 0.6 ppm 2-Methylnaphthalene, Bis(2-ethylhexyl) phthalate
5		Stoddard Solution decetected in the sample at approximately 0.32 ppm (see text)
MCLs	:	Maximum Contaminant Levels in drinking water, DHS (October 1990).
DWAL	:	Drinking Water Action Level, DHS (October 1990).

APPENDIX A

GROUNDWATER SAMPLING PROTOCOL AND WELL PURGE DATA SHEETS

GROUNDWATER SAMPLING PROTOCOL

The static water level and free-phase hydrocarbon level, if present, in each well that contained water and/or free-phase hydrocarbons are measured with an ORS Interphase Probe Model No. 106801, which is accurate to the nearest 0.01 foot. To calculate groundwater elevations and evaluate groundwater gradient, depth to water (DTW) levels are subtracted from wellhead elevations and corrected for 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 free-phase hydrocarbons or sheen. Any free-phase hydrocarbons are removed from the well.

Before water samples are collected from the groundwater monitoring wells, the wells are purged until stabilization of the temperature, pH, and conductivity is obtained. 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 Record, to a California-certified laboratory.

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WELL PURGE DATA SHEET

Project Name: Exxon 7-3006 Job No. 130006.01

Date: June 11, 1993 Page 1 of 1

Well No. MW-1 Time Started 8:38

TIME (hr)	GALLONS (cum.)	TEMP. (F)	pH	CONDUCT. (micromho)	TURBIDITY (NTU)
8:38	Start purging MW-1				
8:38	0	64.1	5.64	1360	21.5
8:50	14	63.6	7.10	1210	5.9
9:04	28	65.9	7.60	1200	2.0
9:18	42	64.7	8.03	1190	2.6
9:32	56	66.1	7.81	1220	1.6
9:32	Stop purging MW-1				

Notes:

NM : Not Measured
Well Diameter (inches) : 4
Depth to Bottom (feet) : 28.84
Depth to Water - initial (feet) : 7.40 6/10
Depth to Water - final (feet) : 8.30 6/11
% recovery : 97
Time Sampled : 4:10
Gallons per Well Casing Volume : 14
Gallons Purged : 56
Well Casing Volume Purged : 4
Approximate Pumping Rate (gpm) : 1.03

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WELL PURGE DATA SHEET

Project Name: Exxon 7-3006 Job No. 130006.01

Date: June 10, 1993 Page 1 of 1

Well No. MW-7 Time Started 12:06

TIME (hr)	GALLONS (cum.)	TEMP. (F)	pH	CONDUCT. (micromho)	TURBIDITY (NTU)
12:06	Start purging MW-7				
12:06	0	83.3	7.31	780	11.0
12:23	19	83.0	7.75	660	8.6
12:36	38	79.6	7.76	740	8.6
12:56	57	81.6	8.77	790	14.2
1:22	76	85.2	7.68	830	4.4
1:22	78	65.8	7.59	6.20	NM
4:12	Stop purging MW-7				

Notes:

NM : Not Measured
Well Diameter (inches) : 4
Depth to Bottom (feet) : 34.61
Depth to Water - initial (feet) : 5.60 6/10
Depth to Water - final (feet) : 7.98 6/11
% recovery : 91
Time Sampled : 5:15
Gallons per Well Casing Volume : 19
Gallons Purged : 76
Well Casing Volume Purged : 4.0
Approximate Pumping Rate (gpm) : 1.0

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WELL PURGE DATA SHEET

Project Name: Exxon 7-3006 Job No. 130006.01

Date: June 10, 1993 Page 1 of 1

Well No. MW-9 Time Started 2:09

TIME (hr)	GALLONS (cum.)	TEMP. (F)	pH	CONDUCT. (micromho)	TURBIDITY (NTU)
2:09	Start purging MW-9				
2:09	0	79.5	6.76	1020	33.8
2:20	16	73.2	7.00	1130	27.4
2:32	33	75.0	7.32	1170	18.1
2:40	42	Dry			
3:24	49	72.1	8.07	1010	122.1
3:31	55	Dry			
3:31	Stop purging MW-9				

Notes:

NM : Not Measured
Well Diameter (inches) : 4
Depth to Bottom (feet) : 31.48
Depth to Water - initial (feet) : 6.27 6/10
Depth to Water - final (feet) : 8.10 6/11
% recovery : 92
Time Sampled : 3:15
Gallons per Well Casing Volume : 16.40
Gallons Purged : 55
Well Casing Volume Purged : 3.35
Approximate Pumping Rate (gpm) : 0.9

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WELL PURGE DATA SHEET

Project Name: Exxon 7-3006 Job No. 130006.01

Date: June 10, 1993 Page 1 of 1

Well No. MW-10 Time Started 3:55

TIME (hr)	GALLONS (cum.)	TEMP. (F)	pH	CONDUCT. (micromho)	TURBIDITY (NTU)
3:55	Start purging MW-11				
3:55	0	75.7	8.16	820	13.0
4:06	12	75.8	7.93	690	6.0
4:25	24	8.17	8.17	690	4.0
4:35	31.5	Dry			
5:11	31.5	start purging MW-10			
5:11	36	71.8	8.22	680	7.4
5:40	48	71.7	8.01	660	7.9
5:40	Stop purging MW-11				

Notes:

NM : Not Measured
Well Diameter (inches) : 4
Depth to Bottom (feet) : 24.88
Depth to Water - initial (feet) : 6.49 6/10
Depth to Water - final (feet) : 6.78 6/11
% recovery : 98
Time Sampled : 4:25
Gallons per Well Casing Volume : 12.00
Gallons Purged : 48
Well Casing Volume Purged : 4
Approximate Pumping Rate (gpm) : 0.64

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WELL PURGE DATA SHEET

Project Name: Exxon 7-3006 Job No. 130006.01

Date: June 11, 1993 Page 1 of 1

Well No. MW-11 Time Started 10:10

TIME (hr)	GALLONS (cum.)	TEMP. (F)	pH	CONDUCT. (micromho)	TURBIDITY (NTU)
10:10	Start purging MW-11				
10:10	0	69.2	7.40	970	117.8
10:29	14	68.3	7.58	950	9.5
11:02	29	70.3	7.30	970	3.3
11:35	43	69.9	7.83	960	4.8
11:55	58	70.4	7.64	660	7.5
11:55	54	Dry			
11:58	Stop purging MW-11				

Notes:

NM : Not Measured

Well Diameter (inches) : 4

Depth to Bottom (feet) : 30.01

Depth to Water - initial (feet) : 7.80 6/10

Depth to Water - final (feet) : 11.95 6/11

% recovery : 79

Time Sampled : 4:45

Gallons per Well Casing Volume : 14.5

Gallons Purged : 58

Well Casing Volume Purged : 4

Approximate Pumping Rate (gpm) : 0.55

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WELL PURGE DATA SHEET

Project Name: Exxon 7-3006 Job No. 130006.01

Date: June 11, 1993 Page 1 of 1

Well No. MW-14 Time Started 10:48

TIME (hr)	GALLONS (cum.)	TEMP. (F)	pH	CONDUCT. (micromho)	TURBIDITY (NTU)
10:48	Start purging MW-14				
10:48	0	67.5	7.64	1050	8.8
10:58	7	68.5	7.50	1000	4.6
11:10	14	70.1	7.33	1070	4.2
11:20	18	Dry			
12;00	18	Dry			
12:00	20	Dry			
12:00	Stop purging MW-14				

Notes:

NM : Not Measured
Well Diameter (inches) : 4
Depth to Bottom (feet) : 17.29
Depth to Water - initial (feet) : 6.30 6/10
Depth to Water - final (feet) : 9.40 6/11
% recovery : 71
Time Sampled : 9:30
Gallons per Well Casing Volume : 7.17
Gallons Purged : 20
Well Casing Volume Purged : 2
Approximate Pumping Rate (gpm) : 0.54

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WELL PURGE DATA SHEET

Project Name: Exxon 7-3006 Job No. 130006.01

Date: June 10, 1993 Page 1 of 1

Well No. VW-1 Time Started 1:55

TIME (hr)	GALLONS (cum.)	TEMP. (F)	pH	CONDUCT. (micromho)	TURBIDITY (NTU)
1:55	Start purging MW-14				
1:55	0	87.0	7.76	2150	>200
1:57	1	81.9	7.41	1910	67.8
2:00	2	81.2	7.41	1940	>200
2:01	2.5	Dry			
2:01	Stop purging MW-14				

Notes:

NM : Not Measured
Well Diameter (inches) : 4
Depth to Bottom (feet) : 6.68
Depth to Water - initial (feet)(3/10/93) : 5.62
Depth to Water - final (feet) : 6.50
% recovery : 17
Time Sampled : Not Sampled
Gallons per Well Casing Volume : .70
Gallons Purged : 2.5
Well Casing Volume Purged : 3.6
Approximate Pumping Rate (gpm) : .5

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WELL PURGE DATA SHEET

Project Name: Exxon 7-3006 Job No. 130006.01

Date: June 10, 1993 Page 1 of 1

Well No. VW-2 Time Started 2:16

TIME (hr)	GALLONS (cum.)	TEMP. (F)	pH	CONDUCT. (micromho)	TURBIDITY (NTU)
2:16	Start purging MW-14				
2:15	0	84.5	7.24	2440	137.5
2:19	1.5	81.1	7.09	2240	46.3
2:21	3.0	80.1	7.01	7250	45.5
2:23	4.0	Dry			
2:25	4.5	Dry			
2:25	Stop purging MW-14				

Notes:

NM : Not Measured
Well Diameter (inches) : 4
Depth to Bottom (feet) : 7.90
Depth to Water - initial (feet) : 5.60
Depth to Water - final (feet) : 7.80
% recovery : 14
Time Sampled : Not Sampled
Gallons per Well Casing Volume : 1.5
Gallons Purged : 4
Well Casing Volume Purged : 2.7
Approximate Pumping Rate (gpm) : 1.0

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WELL PURGE DATA SHEET

Project Name: Exxon 7-3006 Job No. 130006.01

Date: June 11, 1993 Page 1 of 1

Well No. VW-3 Time Started 2:27

TIME (hr)	GALLONS (cum.)	TEMP. (F)	pH	CONDUCT. (micromho)	TURBIDITY (NTU)
2:27	Start purging MW-14				
2:27	0	81.4	7.26	2.61	>200
2:30	2	79.9	7.25	2.31	43.6
2:33	4	79.1	7.17	2.39	>200
2:35	5	Dry			
2:35	Stop purging MW-14				

Notes:

NM : Not Measured
Well Diameter (inches) : 4
Depth to Bottom (feet) : 7.69
Depth to Water - initial (feet) : 4.98
Depth to Water - final (feet) : 7.10
% recovery : 22
Time Sampled : Not Sampled
Gallons per Well Casing Volume : 1.76
Gallons Purged : 5
Well Casing Volume Purged : 2.5
Approximate Pumping Rate (gpm) : 0.65

APPENDIX B

LABORATORY ANALYSIS REPORTS AND CHAIN OF CUSTODY RECORDS

130006 01

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REPORT OF LABORATORY ANALYSIS

June 30, 1993

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

RE: PACE Project No. 430614.504
Client Reference: Exxon 7-3006 (EE)

Dear Mr. Briggs:

Enclosed is the report of laboratory analyses for samples received June 14, 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,

Michael Cohen
Project Manager

Enclosures

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

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THE ASSURANCE OF QUALITY

REPORT OF LABORATORY ANALYSIS

RESNA
3315 Almaden Expressway Suite 34
San Jose, CA 95118

June 30, 1993
PACE Project Number: 430614504

Attn: Mr. Marc Briggs

Client Reference: Exxon 7-3006 (EE)

PACE Sample Number:			70 0092361	
Date Collected:			06/11/93	
Date Received:			06/14/93	
			W-8-MW9R	
Parameter	Units	MDL		DATE ANALYZED
ORGANIC ANALYSIS				
PURGEABLE FUELS AND AROMATICS				
TOTAL FUEL HYDROCARBONS, (LIGHT):			-	06/17/93
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND	06/17/93
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	06/17/93
Benzene	ug/L	0.5	0.6	06/17/93
Toluene	ug/L	0.5	0.5	06/17/93
Ethylbenzene	ug/L	0.5	ND	06/17/93
Xylenes, Total	ug/L	0.5	ND	06/17/93

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REPORT OF LABORATORY ANALYSIS

June 30, 1993
PACE Project Number: 430614504

Client Reference: Exxon 7-3006 (EE)

PACE Sample Number:			70 0092370	
Date Collected:			06/11/93	
Date Received:			06/14/93	
Client Sample ID:			W-8-MW9	
Parameter	Units	MDL		DATE ANALYZED
ORGANIC ANALYSIS				
PURGEABLE FUELS AND AROMATICS				
TOTAL FUEL HYDROCARBONS, (LIGHT):			-	06/17/93
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND	06/17/93
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	06/17/93
Benzene	ug/L	0.5	ND	06/17/93
Toluene	ug/L	0.5	ND	06/17/93
Ethylbenzene	ug/L	0.5	ND	06/17/93
Xylenes, Total	ug/L	0.5	ND	06/17/93
EXTRACTABLE FUELS EPA 3510/8015				
Extractable Fuels, as Diesel	mg/L	0.05	ND	06/16/93
Date Extracted			06/16/93	

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REPORT OF LABORATORY ANALYSIS

June 30, 1993
PACE Project Number: 430614504

Client Reference: Exxon 7-3006 (EE)

PACE Sample Number:			70 0092388	
Date Collected:			06/11/93	
Date Received:			06/14/93	
Client Sample ID:			W-6-MW10R	
Parameter	Units	MDL		DATE ANALYZED
ORGANIC ANALYSIS				
PURGEABLE FUELS AND AROMATICS				
TOTAL FUEL HYDROCARBONS, (LIGHT):			-	06/17/93
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND	06/17/93
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	06/17/93
Benzene	ug/L	0.5	ND	06/17/93
Toluene	ug/L	0.5	ND	06/17/93
Ethylbenzene	ug/L	0.5	ND	06/17/93
Xylenes, Total	ug/L	0.5	ND	06/17/93

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REPORT OF LABORATORY ANALYSIS

Mr. Marc Briggs
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June 30, 1993
PACE Project Number: 430614504

Client Reference: Exxon 7-3006 (EE)

PACE Sample Number:			70 0092396	
Date Collected:			06/11/93	
Date Received:			06/14/93	
Client Sample ID:			W-6-MW10	
Parameter	Units	MDL		DATE ANALYZED
ORGANIC ANALYSIS				
PURGEABLE FUELS AND AROMATICS				
TOTAL FUEL HYDROCARBONS, (LIGHT):			-	06/17/93
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND	06/17/93
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	06/17/93
Benzene	ug/L	0.5	ND	06/17/93
Toluene	ug/L	0.5	0.6	06/17/93
Ethylbenzene	ug/L	0.5	0.7	06/17/93
Xylenes, Total	ug/L	0.5	1.2	06/17/93
EXTRACTABLE FUELS EPA 3510/8015				
Extractable Fuels, as Diesel	mg/L	0.05	ND	06/16/93
Date Extracted			06/16/93	

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REPORT OF LABORATORY ANALYSIS

June 30, 1993
PACE Project Number: 430614504

Client Reference: Exxon 7-3006 (EE)

PACE Sample Number:			70 0092400	
Date Collected:			06/11/93	
Date Received:			06/14/93	
Client Sample ID:			W-8-MW1	
Parameter	Units	MDL		DATE ANALYZED
ORGANIC ANALYSIS				
PURGEABLE FUELS AND AROMATICS				
TOTAL FUEL HYDROCARBONS, (LIGHT):			-	06/17/93
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND	06/17/93
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	06/17/93
Benzene	ug/L	0.5	ND	06/17/93
Toluene	ug/L	0.5	ND	06/17/93
Ethylbenzene	ug/L	0.5	ND	06/17/93
Xylenes, Total	ug/L	0.5	ND	06/17/93
EXTRACTABLE FUELS EPA 3510/8015				
Extractable Fuels, as Diesel	mg/L	0.05	ND	06/16/93
Date Extracted			06/16/93	

Client Reference: Exxon 7-3006 (EE)

PACE Sample Number:			70 0092418	
Date Collected:			06/11/93	
Date Received:			06/14/93	
Client Sample ID:			W-11-MW11	
Parameter	Units	MDL		DATE ANALYZED
ORGANIC ANALYSIS				
PURGEABLE FUELS AND AROMATICS				
TOTAL FUEL HYDROCARBONS, (LIGHT):			-	06/17/93
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND	06/17/93
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	06/17/93
Benzene	ug/L	0.5	ND	06/17/93
Toluene	ug/L	0.5	ND	06/17/93
Ethylbenzene	ug/L	0.5	ND	06/17/93
Xylenes, Total	ug/L	0.5	ND	06/17/93
EXTRACTABLE FUELS EPA 3510/8015				
Extractable Fuels, as Diesel	mg/L	0.05	ND	06/16/93
Date Extracted			06/16/93	

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REPORT OF LABORATORY ANALYSIS

June 30, 1993
PACE Project Number: 430614504

Client Reference: Exxon 7-3006 (EE)

PACE Sample Number:			70 0092426	
Date Collected:			06/11/93	
Date Received:			06/14/93	
Client Sample ID:			W-9-MW14	
Parameter	Units	MDL		DATE ANALYZED
ORGANIC ANALYSIS				
PURGEABLE FUELS AND AROMATICS				
TOTAL FUEL HYDROCARBONS, (LIGHT):			-	06/18/93
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	180	06/18/93
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	06/18/93
Benzene	ug/L	0.5	ND	06/18/93
Toluene	ug/L	0.5	ND	06/18/93
Ethylbenzene	ug/L	0.5	0.8	06/18/93
Xylenes, Total	ug/L	0.5	1.9	06/18/93
EXTRACTABLE FUELS EPA 3510/8015				
Extractable Fuels, as Diesel	mg/L	0.05	0.18	06/16/93
Extractable Fuels, as Stoddard Solution	mg/L	0.50	ND (SS)	06/17/93
Date Extracted			06/16/93	

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REPORT OF LABORATORY ANALYSIS

June 30, 1993
PACE Project Number: 430614504

Client Reference: Exxon 7-3006 (EE)

PACE Sample Number:			70 0092434	
Date Collected:			06/11/93	
Date Received:			06/14/93	
Client Sample ID:			W-7-MW7	
Parameter	Units	MDL		DATE ANALYZED
ORGANIC ANALYSIS				
PURGEABLE FUELS AND AROMATICS				
TOTAL FUEL HYDROCARBONS, (LIGHT):			-	06/18/93
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	250	1600	06/18/93
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	06/18/93
Benzene	ug/L	2.5	140	06/18/93
Toluene	ug/L	2.5	6.5	06/18/93
Ethylbenzene	ug/L	2.5	22	06/18/93
Xylenes, Total	ug/L	2.5	61	06/18/93
EXTRACTABLE FUELS EPA 3510/8015				
Extractable Fuels, as Diesel	mg/L	0.05	0.57	06/16/93
Date Extracted			06/16/93	

Mr. Marc Briggs
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June 30, 1993
PACE Project Number: 430614504

Client Reference: Exxon 7-3006 (EE)

Parameter	Units	MDL		DATE ANALYZED
PACE Sample Number:			70 0092442	
Date Collected:			06/11/93	
Date Received:			06/14/93	
Client Sample ID:			W-4-MW6	
ORGANIC ANALYSIS				
PURGEABLE FUELS AND AROMATICS				
TOTAL FUEL HYDROCARBONS, (LIGHT):			-	06/18/93
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	5000	130000	06/18/93
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	06/18/93
Benzene	ug/L	50	9800	06/18/93
Toluene	ug/L	50	650	06/18/93
Ethylbenzene	ug/L	50	5100	06/18/93
Xylenes, Total	ug/L	50	12000	06/18/93
EXTRACTABLE FUELS EPA 3510/8015				
Extractable Fuels, as Diesel	mg/L	0.25	38	06/16/93
Date Extracted			06/16/93	
VOLATILE ORGANICS, EPA METHOD 624 GC/MS				
Chloromethane	ug/L	100	ND	06/16/93
Vinyl Chloride	ug/L	100	ND	06/16/93
Bromomethane	ug/L	100	ND	06/16/93
Chloroethane	ug/L	100	ND	06/16/93
Trichlorofluoromethane	ug/L	50	ND	06/16/93
1,1,2-Trichlor-1,2,2-trifluoroethane	ug/L	50	ND	06/16/93
2-Butanone (MEK)	ug/L	500	ND	06/16/93
1,1-Dichloroethene	ug/L	50	ND	06/16/93
Carbon Disulfide	ug/L	50	ND	06/16/93
Acetone	ug/L	500	ND	06/16/93
Methylene Chloride	ug/L	100	ND	06/16/93
trans-1,2-Dichloroethene	ug/L	50	ND	06/16/93
1,1-Dichloroethane	ug/L	50	ND	06/16/93
Chloroform	ug/L	50	ND	06/16/93
1,1,1-Trichloroethane	ug/L	50	ND	06/16/93
1,2-Dichloroethane	ug/L	50	ND	06/16/93
cis-1,2-Dichlorethene	ug/L	50	ND	06/16/93
Carbon Tetrachloride	ug/L	50	ND	06/16/93
Benzene	ug/L	1000	16000 (DL)	06/16/93

REPORT OF LABORATORY ANALYSIS

Mr. Marc Briggs
Page 10

June 30, 1993
PACE Project Number: 430614504

Client Reference: Exxon 7-3006 (EE)

Parameter	Units	MDL		DATE ANALYZED
PACE Sample Number:			70 0092442	
Date Collected:			06/11/93	
Date Received:			06/14/93	
Client Sample ID:			W-4-MW6	
ORGANIC ANALYSIS				
VOLATILE ORGANICS, EPA METHOD 624 GC/MS				
1,2-Dichloropropane	ug/L	50	ND	06/16/93
Trichloroethene (TCE)	ug/L	50	ND	06/16/93
Bromodichloromethane	ug/L	50	ND	06/16/93
trans-1,3-Dichloropropene	ug/L	50	ND	06/16/93
4-Methyl-2-pentanone (MIBK)	ug/L	500	ND	06/16/93
Toluene	ug/L	50	480	06/16/93
cis-1,3-Dichloropropene	ug/L	50	ND	06/16/93
1,1,2-Trichloroethane	ug/L	50	ND	06/16/93
Dibromochloromethane	ug/L	50	ND	06/16/93
2-Hexanone	ug/L	500	ND	06/16/93
Tetrachloroethene	ug/L	50	ND	06/16/93
Chlorobenzene	ug/L	50	ND	06/16/93
Ethylbenzene	ug/L	1000	4500 (DL)	06/16/93
Bromoform	ug/L	50	ND	06/16/93
Xylene(s) Total	ug/L	1000	9900 (DL)	06/16/93
Styrene	ug/L	50	ND	06/16/93
1,1,2,2,-Tetrachloroethane	ug/L	50	ND	06/16/93
1,3-Dichlorobenzene	ug/L	50	ND	06/16/93
1,4-Dichlorobenzene	ug/L	50	ND	06/16/93
1,2-Dichlorobenzene	ug/L	50	ND	06/16/93
1,2-Dichloroethane-d4 (Surrog. Recovery)			92%	06/16/93
Toluene-d8 (Surrogate Recovery)			107%	06/16/93
4-Bromofluorobenzene (Surrog.Recovery)			86%	06/16/93
OIL AND GREASE, SILICA GEL (LUFT)				
Oil and Grease, Gravimetric (SM5520)	mg/L	5.0	23	06/16/93
Date Extracted			06/16/93	
EXTRACTABLE ORGANICS BY EPA 625 (GC/MS)				
N-Nitrosodimethylamine	ug/L	50	ND	06/18/93
Bis(2-chloroethyl) ether	ug/L	50	ND	06/18/93
1,3-Dichlorobenzene	ug/L	50	ND	06/18/93
1,4-Dichlorobenzene	ug/L	50	ND	06/18/93

REPORT OF LABORATORY ANALYSIS

June 30, 1993
PACE Project Number: 430614504

Client Reference: Exxon 7-3006 (EE)

PACE Sample Number:			70 0092442	
Date Collected:			06/11/93	
Date Received:			06/14/93	
Client Sample ID:			W-4-MW6	
Parameter	Units	MDL		DATE ANALYZED
ORGANIC ANALYSIS				
EXTRACTABLE ORGANICS BY EPA 625 (GC/MS)				
Benzyl Alcohol	ug/L	50	ND	06/18/93
1,2-Dichlorobenzene	ug/L	50	ND	06/18/93
Bis(2-chloroisopropyl) ether	ug/L	50	ND	06/18/93
N-Nitroso-di-n-propylamine	ug/L	50	ND	06/18/93
Hexachloroethane	ug/L	50	ND	06/18/93
Nitrobenzene	ug/L	50	ND	06/18/93
Bis(2-chloroethoxy)methane	ug/L	50	ND	06/18/93
1,2,4-Trichlorobenzene	ug/L	50	ND	06/18/93
Naphthalene	ug/L	250	1800 (DL)	06/18/93
Hexachlorobutadiene	ug/L	50	ND	06/18/93
2-Methylnaphthalene	ug/L	50	600	06/18/93
Hexachlorocyclopentadiene	ug/L	50	ND	06/18/93
2-Chloronaphthalene	ug/L	50	ND	06/18/93
Dimethylphthalate	ug/L	50	ND	06/18/93
Acenaphthylene	ug/L	50	ND	06/18/93
2,6-Dinitrotoluene	ug/L	50	ND	06/18/93
Acenaphthene	ug/L	50	ND	06/18/93
Dibenzofuran	ug/L	50	ND	06/18/93
2,4-Dinitrotoluene	ug/L	50	ND	06/18/93
Diethyl phthalate	ug/L	50	ND	06/18/93
Fluorene	ug/L	50	ND	06/18/93
4-Chlorophenylphenyl ether	ug/L	50	ND	06/18/93
N-Nitrosodiphenyl amine	ug/L	50	ND	06/18/93
1,2-Diphenylhydrazine	ug/L	50	ND	06/18/93
4-Bromophenylphenyl ether	ug/L	50	ND	06/18/93
Hexachlorobenzene	ug/L	50	ND	06/18/93
Phenanthrene	ug/L	50	ND	06/18/93
Anthracene	ug/L	50	ND	06/18/93
Di-n-butyl phthalate	ug/L	50	ND	06/18/93
Fluoranthene	ug/L	50	ND	06/18/93
Pyrene	ug/L	50	ND	06/18/93

REPORT OF LABORATORY ANALYSIS

June 30, 1993
PACE Project Number: 430614504

Client Reference: Exxon 7-3006 (EE)

PACE Sample Number:			70 0092442	
Date Collected:			06/11/93	
Date Received:			06/14/93	
Client Sample ID:			W-4-MW6	
Parameter	Units	MDL		DATE ANALYZED
ORGANIC ANALYSIS				
EXTRACTABLE ORGANICS BY EPA 625 (GC/MS)				
Butylbenzyl phthalate	ug/L	50	ND	06/18/93
Benzo(a)anthracene	ug/L	50	ND	06/18/93
3,3'-Dichlorobenzidine	ug/L	100	ND	06/18/93
Chrysene	ug/L	50	ND	06/18/93
Bis(2-ethylhexyl) phthalate	ug/L	50	290	06/18/93
Di-n-octyl phthalate	ug/L	50	ND	06/18/93
Benzo(b)fluoranthene	ug/L	50	ND	06/18/93
Benzo(k)fluoranthene	ug/L	50	ND	06/18/93
Benzo(a)pyrene	ug/L	50	ND	06/18/93
Indeno(1,2,3-cd)pyrene	ug/L	50	ND	06/18/93
Dibenz(a,h)anthracene	ug/L	50	ND	06/18/93
Benzo(g,h,i)perylene	ug/L	50	ND	06/18/93
Phenol	ug/L	50	ND	06/18/93
2-Chlorophenol	ug/L	50	ND	06/18/93
2-Methylphenol	ug/L	50	ND	06/18/93
4-Methylphenol	ug/L	50	ND	06/18/93
2-Nitrophenol	ug/L	50	ND	06/18/93
2,4-Dimethylphenol	ug/L	50	ND	06/18/93
Benzoic Acid	ug/L	250	ND	06/18/93
2,4-Dichlorophenol	ug/L	50	ND	06/18/93
4-Chloro-3-methylphenol	ug/L	50	ND	06/18/93
2,4,6-Trichlorophenol	ug/L	50	ND	06/18/93
2,4,5-Trichlorophenol	ug/L	50	ND	06/18/93
2,4-Dinitrophenol	ug/L	250	ND	06/18/93
4-Nitrophenol	ug/L	250	ND	06/18/93
4,6-Dinitro-2-methylphenol	ug/L	250	ND	06/18/93
Pentachlorophenol	ug/L	250	ND	06/18/93
Nitrobenzene-d5 (Surrogate Recovery)			96%	06/18/93
2-Fluorobiphenyl (Surrogate Recovery)			102%	06/18/93
Terphenyl-d14 (Surrogate Recovery)			63%	06/18/93
2-Fluorophenol (Surrogate Recovery)			0 (*)	06/18/93

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REPORT OF LABORATORY ANALYSIS

Mr. Marc Briggs
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June 30, 1993
PACE Project Number: 430614504

Client Reference: Exxon 7-3006 (EE)

Parameter	Units	MDL		DATE ANALYZED
PACE Sample Number:			70 0092442	
Date Collected:			06/11/93	
Date Received:			06/14/93	
Client Sample ID:			W-4-MW6	
ORGANIC ANALYSIS				
EXTRACTABLE ORGANICS BY EPA 625 (GC/MS)				
Phenol-d6 (Surrogate Recovery)			4.5%(*)	06/18/93
2,4,6-Tribromophenol(Surrogate Recovery)			8.4%(*)	06/18/93
Date Extracted			06/16/93	

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

Client Reference: Exxon 7-3006 (EE)

MDL Method Detection Limit
ND Not detected at or above the MDL.
(SS) Stoddard solution was also analyzed via purge and trap on 6/18/93. Stoddard solution is present in the sample at approximately 32 ug/L.
(DL) Sample diluted to bring analyte within linear calibration range.
(*) Surrogate recoveries were outside control limits due to matrix interferences. Surrogate recoveries on the laboratory control matrix were all within acceptance limits.

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Client Reference: Exxon 7-3006 (EE)

EXTRACTABLE FUELS EPA 3510/8015
Batch: 70 22000
Samples: 70 0092370, 70 0092396, 70 0092400, 70 0092418, 70 0092426
70 0092434, 70 0092442

METHOD BLANK:

Parameter	Units	MDL	Method Blank
Extractable Fuels, as Diesel	mg/L	0.05	ND

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	MDL	Reference Value	Recv	Dupl Recv	RPD
Extractable Fuels, as Diesel	mg/L	0.05	1.00	57%	61%	6%

Mr. Marc Briggs
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QUALITY CONTROL DATA

June 30, 1993
PACE Project Number: 430614504

Client Reference: Exxon 7-3006 (EE)

EXTRACTABLE ORGANICS BY EPA 625 (GC/MS)
Batch: 70 22078
Samples: 70 0092442

METHOD BLANK:

Parameter	Units	MDL	Method Blank
N-Nitrosodimethylamine	ug/L	10	ND
Bis(2-chloroethyl) ether	ug/L	10	ND
1,3-Dichlorobenzene	ug/L	10	ND
1,4-Dichlorobenzene	ug/L	10	ND
Benzyl Alcohol	ug/L	10	ND
1,2-Dichlorobenzene	ug/L	10	ND
Bis(2-chloroisopropyl) ether	ug/L	10	ND
N-Nitroso-di-n-propylamine	ug/L	10	ND
Hexachloroethane	ug/L	10	ND
Nitrobenzene	ug/L	10	ND
Bis(2-chloroethoxy)methane	ug/L	10	ND
1,2,4-Trichlorobenzene	ug/L	10	ND
Naphthalene	ug/L	10	ND
Hexachlorobutadiene	ug/L	10	ND
2-Methylnaphthalene	ug/L	10	ND
Hexachlorocyclopentadiene	ug/L	10	ND
2-Chloronaphthalene	ug/L	10	ND
Dimethylphthalate	ug/L	10	ND
Acenaphthylene	ug/L	10	ND
2,6-Dinitrotoluene	ug/L	10	ND
Acenaphthene	ug/L	10	ND
Dibenzofuran	ug/L	10	ND
2,4-Dinitrotoluene	ug/L	10	ND
Diethyl phthalate	ug/L	10	ND
Fluorene	ug/L	10	ND
4-Chlorophenylphenyl ether	ug/L	10	ND
N-Nitrosodiphenyl amine	ug/L	10	ND
1,2-Diphenylhydrazine	ug/L	10	ND
4-Bromophenylphenyl ether	ug/L	10	ND
Hexachlorobenzene	ug/L	10	ND
Phenanthrene	ug/L	10	ND
Anthracene	ug/L	10	ND

Client Reference: Exxon 7-3006 (EE)

EXTRACTABLE ORGANICS BY EPA 625 (GC/MS)
Batch: 70 22078
Samples: 70 0092442

METHOD BLANK:

Parameter	Units	MDL	Method Blank
Di-n-butyl phthalate	ug/L	10	ND
Fluoranthene	ug/L	10	ND
Pyrene	ug/L	10	ND
Butylbenzyl phthalate	ug/L	10	ND
Benzo(a)anthracene	ug/L	10	ND
3,3'-Dichlorobenzidine	ug/L	20	ND
Chrysene	ug/L	10	ND
Bis(2-ethylhexyl) phthalate	ug/L	10	ND
Di-n-octyl phthalate	ug/L	10	ND
Benzo(b)fluoranthene	ug/L	10	ND
Benzo(k)fluoranthene	ug/L	10	ND
Benzo(a)pyrene	ug/L	10	ND
Indeno(1,2,3-cd)pyrene	ug/L	10	ND
Dibenz(a,h)anthracene	ug/L	10	ND
Benzo(g,h,i)perylene	ug/L	10	ND
Phenol	ug/L	10	ND
2-Chlorophenol	ug/L	10	ND
2-Methylphenol	ug/L	10	ND
4-Methylphenol	ug/L	10	ND
2-Nitrophenol	ug/L	10	ND
2,4-Dimethylphenol	ug/L	10	ND
Benzoic Acid	ug/L	50	ND
2,4-Dichlorophenol	ug/L	10	ND
4-Chloro-3-methylphenol	ug/L	10	ND
2,4,6-Trichlorophenol	ug/L	10	ND
2,4,5-Trichlorophenol	ug/L	10	ND
2,4-Dinitrophenol	ug/L	50	ND
4-Nitrophenol	ug/L	50	ND
4,6-Dinitro-2-methylphenol	ug/L	50	ND
Pentachlorophenol	ug/L	50	ND
Nitrobenzene-d5 (Surrogate Recovery)			69%
2-Fluorobiphenyl (Surrogate Recovery)			66%

Client Reference: Exxon 7-3006 (EE)

EXTRACTABLE ORGANICS BY EPA 625 (GC/MS)
Batch: 70 22078
Samples: 70 0092442

METHOD BLANK:

Parameter	Units	MDL	Method Blank
Terphenyl-d14 (Surrogate Recovery)			81%
2-Fluorophenol (Surrogate Recovery)			47%
Phenol-d6 (Surrogate Recovery)			69%
2,4,6-Tribromophenol(Surrogate Recovery			67%

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	MDL	Reference Value	Recv	Dupl Recv	RPD
1,4-Dichlorobenzene	ug/L	10	100	55%	34%	47%
N-Nitroso-di-n-propylamine	ug/L	10	100	81%	71%	13%
1,2,4-Trichlorobenzene	ug/L	10	100	62%	45%	31%
Acenaphthene	ug/L	10	100	73%	64%	13%
2,4-Dinitrotoluene	ug/L	10	100	71%	67%	5%
Pyrene	ug/L	10	100	86%	91%	5%
Phenol	ug/L	10	150	57%	42%	30%
2-Chlorophenol	ug/L	10	150	70%	48%	37%
4-Chloro-3-methylphenol	ug/L	10	150	72%	63%	13%
4-Nitrophenol	ug/L	50	150	89%	81%	9%
Pentachlorophenol	ug/L	50	150	86%	85%	1%

Client Reference: Exxon 7-3006 (EE)

PURGEABLE FUELS AND AROMATICS
Batch: 70 22139
Samples: 70 0092361, 70 0092370, 70 0092388, 70 0092396, 70 0092400
70 0092418, 70 0092426, 70 0092434, 70 0092442

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	84%	89%	5%
Benzene	ug/L	0.5	100	109%	108%	0%
Toluene	ug/L	0.5	100	109%	110%	0%
Ethylbenzene	ug/L	0.5	100	108%	109%	0%
Xylenes, Total	ug/L	0.5	300	95%	105%	10%

Client Reference: Exxon 7-3006 (EE)

TOTAL OIL AND GREASE (EPA 9070/413.1)
Batch: 70 22086
Samples: 70 0092442

METHOD BLANK:

Parameter	Units	MDL	Method Blank
Total Oil and Grease (Freon Extractable	mg/L	5.0	ND

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	MDL	Reference Value	Recv	Dupl Recv	RPD
Total Oil and Grease (Freon Extractable	mg/L	5.0	20.0	95%	95%	0%

Mr. Marc Briggs
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QUALITY CONTROL DATA

June 30, 1993
PACE Project Number: 430614504

Client Reference: Exxon 7-3006 (EE)

VOLATILE ORGANICS, EPA METHOD 624 GC/MS
Batch: 70 21997
Samples: 70 0092442

METHOD BLANK:

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

Client Reference: Exxon 7-3006 (EE)

VOLATILE ORGANICS, EPA METHOD 624 GC/MS
Batch: 70 21997
Samples: 70 0092442

METHOD BLANK:

Parameter	Units	MDL	Method Blank
Bromoform	ug/L	5	ND
Xylene(s) Total	ug/L	5	ND
Styrene	ug/L	5	ND
1,1,2,2,-Tetrachloroethane	ug/L	5	ND
1,3-Dichlorobenzene	ug/L	5	ND
1,4-Dichlorobenzene	ug/L	5	ND
1,2-Dichlorobenzene	ug/L	5	ND
1,2-Dichloroethane-d4 (Surrog. Recovery			95%
Toluene-d8 (Surrogate Recovery)			100%
4-Bromofluorobenzene (Surrog.Recovery)			112%

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	MDL	Reference Value	Recv	Dupl Recv	RPD
1,1-Dichloroethene	ug/L	5	50.00	106%	98%	7%
Benzene	ug/L	5	50.00	98%	90%	8%
Trichloroethene (TCE)	ug/L	5	50.00	94%	86%	8%
Toluene	ug/L	5	50.00	100%	92%	8%
Chlorobenzene	ug/L	5	50.00	98%	92%	6%

Mr. Marc Briggs
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FOOTNOTES
for pages 15 through 22

June 30, 1993
PACE Project Number: 430614504

Client Reference: Exxon 7-3006 (EE)

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

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EXXON COMPANY, U.S.A.

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

CHAIN OF CUSTODY

430604.504

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

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

Consultant's Name: RESNA

Address: 2315 ALAMADEN EXPY SUITE 34, SAN JOSE CA 95118

Site Location: 720 High ST OAKLAND

Project #:

Consultant Project #: 130006.01

Consultant Work Release #:

Project Contact: JEANNE BUCKTHAL / MARC BRIGGS

Phone #(408) 264-1723 Fax #: 264-1635

Laboratory Work Release #: 09300303

EXXON Contact: MARLA GUENSLER ☐ EE ☐ C&M

Phone #(510) 246-8776 Fax #:

EXXON RAS #: 7-3006

Sampled by (print): JEFFREY D. SALA

Sampler's Signature: Jeffrey D. Sala

Shipment Method:

Air Bill #:

Shipment Date:

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

ANALYSIS REQUIRED

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
W-8-MW9R	6/11/93 3:10	water	HCl	2	9236.1	X											
W-8-MW9	6/11/93 3:15			3	37.0	X											
W-8-MW9D	6/11/93 3:15			1	↓		X										
W-6-MW10R	6/11/93 4:20			2	38.8	X											
W-6-MW10	6/11/93 4:25			3	39.6	X											
W-6-MW10D	6/11/93 4:25			1	↓		X										
W-8-MW1R	6/11/93 4:05			2	45.0				X								
W-8-MW1	6/11/93 4:10			3	40.0	X											
W-8-MW1D	6/11/93 4:10			1	↓		X										
10/BOTTLES																	

Relinquished by/Affiliation	Date	Time	Accepted by/Affiliation	Date	Time	Additional Comments:
RESNA	6/11/93	8:30		6/14	1310	
	6/14	1015		6/14	1515	

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

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EXXON COMPANY, U.S.A.

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

CHAIN OF CUSTODY

430604.504

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

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

Consultant's Name: RESNA

Address: 3315 ALAMADEN EXPY SUITE 34, SAN JOSE CA. 95118

Site Location: 720 MAIN ST OAKLAND

Project #:

Consultant Project #: 130006.01

Consultant Work Release #:

Project Contact: JEANNE BJUCTHAL/MARC BRIGGS

Phone #(408) 264-7723 Fax #: 246-2635

Laboratory Work Release #: 09300303

EXXON Contact: MARLA GUENSLER ☐ EE ☐ C&M

Phone (510) 246-8776 Fax #:

EXXON RAS #: 7-3006

Sampled by (print): JEFFREY D. SOLA

Sampler's Signature: Jeffrey D. Sola

Shipment Method:

Air Bill #:

Shipment Date:

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

ANALYSIS REQUIRED

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	STODDARD Solvent							COMMENTS
W-11-MW11R	6/11/93 4:40	WATER	HCl	2	9246.9				X								
W-11-MW11	6/11/93 4:45			3	41.8	X											
W-11-MW11D	6/11/93 4:45			1	↓		X										
W-9-MW14R	6/11/93 5:25			2	47.7				X								
W-9-MW14	6/11/93 5:30			3	42.6	X											
W-9-MW14D	6/11/93 5:30			1	↓		X			X							
W-7-MW7R	6/11/93 5:10			2	48.5				X								
W-7-MW7	6/11/93 5:15			3	43.4	X											
W-7-MW7D	6/11/93 5:15			1	↓		X										
10/BCT A/1																	

Relinquished by/Affiliation	Date	Time	Accepted by/Affiliation	Date	Time	Additional Comments:
Jeffrey D. Sola RESNA	6/14/93	8:30	[illegible] PACE	6/14	1310	
[illegible] PACE	6/14	1515	[illegible] PACE	6/14	1515	

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

430614.504

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

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

Consultant's Name: RESNA — Page 3 of 3

Address: 3315 Almaden Exp., Ste 34, San Jose, CA 95118 — Site Location: 720 High St.

Project #: — Consultant Project #: 13006.01 — Consultant Work Release #:

Project Contact: Marc Briggs — Phone #: — Fax #: — Laboratory Work Release #: 09300303

EXXON Contact: Marla Guenster [ ] EE [ ] C&M — Phone #: — Fax #: — EXXON RAS #: 7-3006

Sampled by (print): J. Buckthal — Sampler's Signature: Jeanne Buckthal

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

TAT: [ ] 24 hr [ ] 48 hr [ ] 72 hr [X] 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	FOG	Semi VOCs 8270	VOCs 8240						COMMENTS
W-4-MW6	6/11/93	water	HCl	3	9244.2	X											
W-4-MW6V	↓	↓	HCl	3	↓						X						
W-4-MW6D	↓	↓	—	1	↓		X										
W-4-MW6T	↓	↓	—	1	↓				X								
W-4-MW6SV	↓	↓	—	1	↓					X							
11/BOT, All																	

Relinquished by/Affiliation	Date	Time	Accepted by/Affiliation	Date	Time
Jeanne Buckthal / RESNA	6/11/93	1:06	[signature] Pace	6/14	1300
[signature] Pace	6/14	1545	Theresa [illegible] PACE	6/14	1645

Additional Comments:

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

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THE ASSURANCE OF QUALITY

REPORT OF LABORATORY ANALYSIS

June 30, 1993

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

RE: PACE Project No. 430610.507
Client Reference: Exxon 7-3006 (EE)

Dear Mr. Briggs:

Enclosed is the report of laboratory analyses for samples received June 10, 1993.

Please note these analyses were performed by Brelje and Race Laboratories, Inc.

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

Sincerely,

Stephanie G. Matzo

Stephanie Matzo
Project Manager

Enclosures

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

BRELJE AND RACE
LABORATORIES INC
425 SOUTH E STREET SANTA ROSA, CALIFORNIA 95404 (707) 544-8807

BACTERIOLOGICAL EXAMINATION OF WATER

REPORTED TO:
Pace Laboratories
11 Digital Drive
Novato, Ca. 94949
Attention: Caron Sontag

DATE REPORTED 6-14-93
COLLECTED BY client
SUBMITTED BY "

Log Number	Date Collected	Date Set	Date Completed	Sample Source		Coliform MPN/100ml.	Safe	Unsafe
693-10725	6-10-93	6-10-93	6-13-93	W-MW 1	Fecal only	<2.		

COPY SENT TO:

CALLED Date
Attempted
No

Presumptive

Confirmed

APPROVED BY

BRELJE AND RACE LABORATORIES, INC.

pace INCORPORATED
THE ASSURANCE OF QUALITY

EXXON COMPANY, U.S.A.

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

CHAIN OF CUSTODY

430610.507

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

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

Consultant's Name: RESNA		
Address: 3315 ALAMADEN EXPY SUITE 34, SAN JOSE CA. 95118		Site Location: 720 High St. OAKLAND
Project #:	Consultant Project #: 130006.01	Consultant Work Release #:
Project Contact: JEANNE BUCKTHAL / MARC BRIGGS	Phone #: (408) 264-7723 Fax #: 264-2635	Laboratory Work Release #: 09300303
EXXON Contact: KAREN GUENSLER [ ] EE [ ] C&M	Phone #: (510) 246-8776 Fax #:	EXXON RAS #: 7-3006
Sampled by (print): JEFFREY D. SALA	Sampler's Signature: Jeffrey D. Sala	
Shipment Method:	Air Bill #:	Shipment Date: 6/10/93
TAT: [ ] 24 hr [ ] 48 hr [ ] 72 hr [ ] Standard (5 day)	ANALYSIS REQUIRED	Sample Condition as Received Temperature °C: FACE 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	FECAL COLLOFORM								COMMENTS
W-MW1	6/10/93 10:30	water	[redacted]	2	9945.0				X								

Relinquished by/Affiliation	Date	Time	Accepted by/Affiliation	Date	Time	Additional Comments:
Jeffrey D. Sala / RESNA	6/10/93	1030	[illegible] / PACE	6/10	1030	
[illegible] / PACE	6/10	1110	[illegible] / PACE	6/10	1115	

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

To: Bretz & Pace.

58786

pace INCORPORATED
THE ASSURANCE OF QUALITY

CHAIN-OF-CUSTODY RECORD
Analytical Request

Client: Pace Inc
Address: 11 Digital Drive
Novato, Ca 94949
Phone: (415) 883-6100

Report To: Stephanie Matzo
Bill To:
P.O. # / Billing Reference: 70-3129
Project Name / No.

Pace Client No. 781008
Pace Project Manager SAM
Pace Project No. 4306105O7
*Requested Due Date: 6/16/93

Sampled By (PRINT):
Sampler Signature
Date Sampled: 6/10/93

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PACE NO	NO. OF CONTAINERS	PRESERVATIVES: UNPRESERVED	H_2SO_4	HNO_3	VOA	ANALYSES REQUEST: Fecal Coliform	REMARKS
1	W-MW1		H_2O	70008945.0						X	
2											
3											
4											
5											
6											
7											
8											

COOLER NOS.	BAILERS	SHIPMENT METHOD OUT DATE	SHIPMENT METHOD RETURNED DATE

ITEM NUMBER	RELINQUISHED BY AFFILIATION	ACCEPTED BY AFFILIATION	DATE	TIME
1	Theresa Grover	Daniel Zolanski	6/10/93	1240
	Daniel Zolanski	Claire Hart	6/10/93	1320

Additional Comments
QC#5861