RESNA
Working To Restore Nature

exxon0693

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

EXXON COMPANY, U.S.A.
QUARTERLY STATUS REPORT
April - June 1993
June 17, 1993

RAS #7-3399
2991 Hopyard Road
Pleasanton, California
Job No: 130009

Work Performed During This Quarter

April through June 1993

- Performed monthly monitoring on May 11 and June 1, 1993.
- Performed quarterly monitoring second quarter 1993 on April 12, 1993.
- Received response from BAAQMD affirming a change in air monitoring schedule from weekly to bi-weekly.
- Turn vapor extraction system on and off intermittently to verify soil vapor concentrations.

Groundwater Sampling (sampled 4/12/93) Results: (ug/L)

Well	TPHg	B	T	E	X	Historical Trends
MW-1			Well Inaccessible			
MW-2			Well Destroyed			
MW-3			Well Destroyed			
MW-4	360	20	10	22	80	Decreased
MW-5d	<50	1.0	1.0	2.5	7.4	Not Applicable
MW-5s	220	11	5.9	13	48	Not Applicable
MW-6			Well Destroyed			
MW-7			Not Sampled			
MW-8	230	26	7.3	11	38	Increased
MW-9			Well Dry			
MW-10	350	21	11	21	75	Not Applicable
MW-11	<50	<0.5	<0.5	<0.5	<0.5	Not Applicable

Free Phase Product Recovery

Not Applicable

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EXXON COMPANY, U.S.A.
QUARTERLY STATUS REPORT
April - June 1993
June 29, 1993

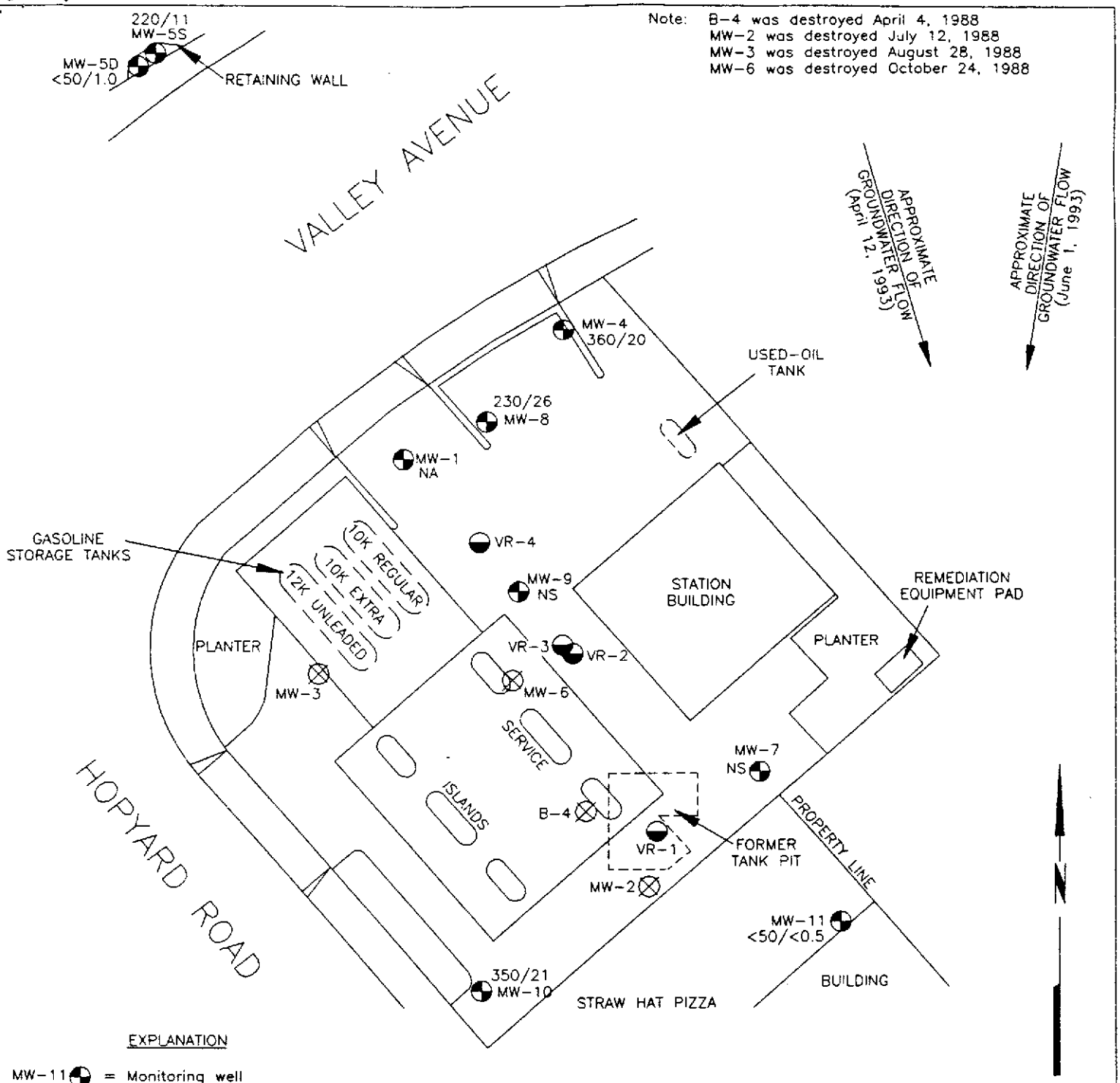
RAS #7-3399
2991 Hopyard Road
Pleasanton, California
Job No: 130009

Work to be Performed Next Quarter — Estimated Completion Date 09/30/93

- Submit final report for second quarter 1993 Quarterly Monitoring to Exxon.
- Continue with bi-weekly monitoring of the carbon system until it is determined that less frequent monitoring is sufficient.
- Continue turning vapor extraction system on and off intermittently to verify soil vapor concentrations.
- Perform Monthly Monitoring for the third quarter 1993 on July 9 and August 13, 1993.
- Perform Quarterly Monitoring for the third quarter 1993 on September 8, 1993.

Work to be Performed Next 12 Months — Estimated Completion Date 06/30/94

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



Source: Surveyed by Ron Archer, Civil Engineer, July 27, 1989. Revised January 22, 1990.

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PROJECT 130009.01

13000911

GENERALIZED SITE PLAN
Exxon Station 7-3399
2991 Hopyard Road
Pleasanton, California

PLATE 1

RESNA
Working To Restore Nature

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

February 1, 1993
0901MGUE
18034.15

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 Fourth Quarter 1992 Groundwater Monitoring and Remediation Activities, at Exxon Station No. 7-3399, 2991 Hopyard Road, Pleasanton, California.

Ms. Guensler:

As requested by Exxon Company U.S.A. (Exxon), this letter report summarizes the methods and results of the fourth quarter 1992 groundwater monitoring and remediation activities performed by RESNA Industries Inc. (RESNA) at the above-subject site. The Exxon station is located at the eastern corner of the intersection of Hopyard Road and Valley Avenue in Pleasanton, California (Plate 1). The site is bounded on the northwest by Valley Avenue; on the southwest by Hopyard Road; on the northeast by a shopping center parking lot owned by Lucky Stores, Inc., of Dublin, California; and on the southeast by an access drive and Straw Hat pizza parlor owned by Mr. Ralph Henderlong of Alamo, California.

The objectives of this quarterly monitoring are to evaluate trends in the groundwater flow direction and gradient, and trends in concentrations of gasoline hydrocarbons in the local groundwater associated with former and existing underground gasoline-storage tanks (USTs) at the site. Remediation activities at this site currently consists of vapor extraction to reduce gasoline hydrocarbons in the subsurface soils.

Prior to the present monitoring, RESNA and others performed environmental investigations and subsequent limited subsurface investigations related to the removal and replacement of three USTs and one used-oil UST in July 1988. The results of these investigations are presented in the reports listed in the references section. Quarterly groundwater monitoring

began in April 1988, after RESNA (formerly Applied GeoSystems [AGS]) completed a limited subsurface environmental investigation (AGS, April 22, 1988).

Site Setting and Background

The original service station on the site was demolished in September 1988, and new station facilities were constructed between September 1988 and February 1989. The gasoline USTs in the southeastern portion of the site were removed and replaced in July 1988, prior to station demolition. The new station facility is occupied by four USTs that contain premium unleaded, super-regular unleaded, regular unleaded gasoline, and used-oil (Plate 2).

Of the twelve original monitoring wells, nine wells are currently used to monitor groundwater at the site (Plate 2). Seven of the existing wells (MW-1, MW-4, MW-5s, MW-7, MW-9, MW-10, and MW-11) are screened in the shallowest water-bearing unit beneath the site, well MW-5d is screened in the second deepest water-bearing unit, and well MW-8 is screened in the third deepest water-bearing unit. Monitoring wells MW-2, MW-3, and MW-6 were destroyed in 1988.

Prior to the recent drought, a groundwater recovery system was in operation at the site between 1988 and 1990, and consisted of pumping groundwater from well MW-7 (shallowest water-bearing unit), passing it through an oil-water separator, and discharging the treated groundwater into the sanitary sewer under a permit from the Dublin-San Ramon Services District. It is anticipated that groundwater recovery from well MW-7 will continue once sufficient water has recharged in the shallow water-bearing unit.

A vapor extraction system consisting of a liquid ring vacuum pump and vapor phase activated carbon system was permitted by the Bay Area Air Quality Management District (BAAQMD) under Authority to Construct No. 2821, dated April 27, 1989, and under Permit to Operate No. 2821, dated January 25, 1990. The vapor extraction system was extracting from the following six wells; well VR-1, screened in the backfill material of the former UST pit; wells VR-3 and VR-4, screened in an unsaturated silty clay layer overlying the shallowest water-bearing unit; and wells VR-2, MW-1, and MW-9, screened in sand and gravel of the shallowest water-bearing unit.

Because of the drop in water levels since 1988, the groundwater in the shallowest water-bearing unit has been absent, preventing the use of the liquid ring vacuum pump. Additionally, the concentrations of gasoline hydrocarbons extracted from the soil made the use of the vapor phase activated carbon system uneconomical. As a result, the vapor extraction and treatment system was modified in November 1990 to a

100-cubic-feet-per-minute vacuum pump and catalytic oxidizer. The vacuum pump and catalytic oxidizer system was permitted by the BAAQMD under Authority to Construct No. 5125, dated August 2, 1990, and under Permit to Operate No. 5125, dated January 4, 1991. After start up testing in late November 1990, the system began operating on December 7, 1990. During December 1990 and January 1991, influent and vapor samples were collected for laboratory analysis, and after January, were collected monthly (Table 1). As of June 20, 1991, the catalytic oxidizer appeared to have reduced gasoline hydrocarbon concentrations to less than 0.5 ppm total petroleum hydrocarbons as gasoline (TPHg) as shown on Table 1. To continue vapor extraction of low hydrocarbon concentrations, operation of the catalytic oxidizer was discontinued on July 24, 1991. Preparations were being made to replace the catalytic oxidizer by a vapor phase activated carbon system.

On March 10, 1992, the existing vapor treatment system was modified to a vacuum pump and vapor-phase activated carbon system, permitted under Authority to Construct No. 7845, dated January 8, 1992 and Permit to Operate dated October 9, 1992. Start-up of the vapor-phase carbon system was initiated on October 12, 1992.

Groundwater Sampling and Gradient Evaluation

Monthly depth-to-water (DTW) measurements in monitoring wells MW-4, MW-5s, MW-7, MW-8, and MW-11 were performed on October 7, November 9, and December 10, 1992, and quarterly sampling was performed on December 10, 1992. Because wells MW-1 and MW-9 are coupled to the vapor extraction system, they are inaccessible. Wells MW-4, MW-5s, MW-7, and MW-11 contained insufficient water for sampling, and wells MW-5d and MW-10 were dry. During field work at the site, RESNA personnel measured DTW levels in the groundwater monitoring wells, subjectively analyzed water from the wells for the presence of floating product, and purged and sampled the groundwater from MW-8. Field methods used by RESNA personnel are described in Appendix A, Groundwater Sampling Protocol.

Results of Groundwater Monitoring

RESNA calculated groundwater elevations for each well by subtracting the measured DTW from the elevation of the wellhead. The measured DTW levels, wellhead elevations, and groundwater elevations for this and previous monitorings at the site are summarized in Table 2, Cumulative Groundwater Monitoring Data. Data from Table 2 were used to produce hydrographs for the sampled well which show fluctuations in local groundwater elevations. A hydrograph for MW-8 is included in Appendix B.

Based on DTW measurements taken between October and December 1992 from wells in the shallowest water-bearing unit, water levels had not changed significantly since the previous quarter. The water level in MW-5d (second deepest water-bearing unit) was just above the bottom of the well; however, the water level in MW-8 (third deepest water-bearing unit) rose approximately 2 feet.

Groundwater gradient and flow direction could not be evaluated this quarter due to insufficient water levels in the shallowest water-bearing unit. Previous water level data suggest the groundwater flow in the shallowest water-bearing unit is generally southward and the hydraulic gradient beneath much of the site is essentially flat (AGS, April 1990).

No evidence of floating product or noticeable hydrocarbon vapor was observed in the water samples collected for subjective analysis from wells MW-4, MW-5s, MW-7, MW-8, and MW-11. Results of the subjective analyses are summarized in Table 2.

Well MW-8 was purged and sampled in accordance with the enclosed groundwater sampling protocol (Appendix A). A well purge data sheet and stabilization graph for the monitored parameters temperature, pH, and conductivity of the groundwater from monitoring well MW-8 is also included in Appendix A.

Results of Laboratory Analysis

A groundwater sample from monitoring well MW-8 was analyzed by Pace Incorporated laboratories (California State Certification Number 1282) in Novato, California for TPHg and the gasoline constituents benzene, toluene, ethylbenzene, and total xylenes (BTEX) using modified Environmental Protection Agency (EPA) Methods 5030/8015/8020. The Chain of Custody Record and Laboratory Analysis sheets for monitoring well MW-8 are included in Appendix C.

The results of this and previous groundwater analyses are summarized in Table 3, Cumulative Results of Laboratory Analyses of Groundwater Samples. Chemical analyses data from Table 3 were used to produce a histogram which show fluctuations in TPHg concentrations in MW-8 over time. The histogram for MW-8 is included on the hydrograph in Appendix B.

Results of this quarter's laboratory analyses of groundwater samples from well MW-8 indicate that:

- TPHg was nondetectable.

- Except for 0.6 ppb toluene, concentrations of the other purgeable gasoline constituents (benzene, ethylbenzene, and total xylenes) were nondetectable.

- A concentration of 1.0 ppb toluene were reported in the rinsate blank from well MW-8.

REMEDIATION

Soil-Vapor Extraction System

After initial start-up of the vapor-phase activated carbon system on October 12, 1992 vapor samples were collected in mylar bags from sample ports located at the effluent, between canisters number 1 and 2, and at the influent in that order. The vapor samples were collected for the purpose of obtaining preliminary TPHg and BTEX concentrations at start-up of the system. The system was shut down in order to perform maintenance and until vapor sample laboratory results were received by RESNA. The vapor samples were analyzed by Pace Incorporated laboratories (California State Certification Number 1282) in Novato, California for TPHg and BTEX using modified Environmental Protection Agency (EPA) Methods 5030/8015/8020. The Chain of Custody Record and Laboratory Analysis sheets are included in Appendix C.

Results of laboratory analyzed vapor samples are shown in Table 1. The most recent data (October 12, 1992) show that the effluent and between carbon canister concentrations were less than the method detection limit of the laboratory, indicating that breakthrough had not yet occurred in carbon canisters number 1 and 2. The influent concentration of 97 milligrams per cubic meter (mg/m^3) is indicative of decreased hydrocarbon concentrations compared to November 30, 1990, making the use of activated carbon economically feasible. To date, the BAAQMD does not require laboratory analyzed influent and effluent vapor samples.

Field monitoring of the organic vapor concentration at the influent, effluent, and in-between canisters has been performed in compliance with the Permit to Operate conditions for this site as prescribed by Permit to Operate No. 7845. Organic vapor concentrations were measured with both a FID (Flame Ionization Detector) and a PID (Photoionization Detector) as indicated in a letter to the BAAQMD (RESNA, December 3, 1992). Since continuous operation of the system (beginning October 22, 1992), influent organic vapor concentrations have dropped from the above-200 parts per million (ppm) range to below 100 ppm (Table 4). It is estimated that carbon changeout would occur approximately once every

30 days provided the influent organic vapor concentration does not exceed 140 ppm (equivalent to an extraction rate of 1 pound per day of TPHg) and the system continued operating at a flowrate not exceeding 25 cubic feet per minute (cfm). To prevent frequent carbon changeouts, a third carbon canister was brought on-line on November 3, 1992 so that the system consists of three in-series 200-lb vapor phase carbon canisters. The BAAQMD approved RESNA's request to change the field monitoring schedule from daily to weekly. Since that time, influent concentrations have remained below 100 ppm and have been continually decreasing. As influent concentrations decrease, it is expected that system flowrate can be increased. Field monitoring of the carbon system will continue weekly until consistently lowered organic vapor concentrations have been observed over a period to warrant another request by RESNA to the BAAQMD to decrease the frequency of monitoring.

Copies of this report should be forwarded to:

Mr. Steve Cusenza
City of Pleasanton Public Works Department
P.O. Box 520
Pleasanton, California 94566-0802

Mr. Rick Mueller
Pleasanton Fire Department
4444 Railroad Street
Pleasanton, California 94566

Mr. Lester Feldman
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

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

Sincerely,
RESNA Industries Inc.

Marc A. Briggs
Project Geologist

Dora Chew
Project Engineer

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 Elevation Map
Plate 4: TPHg/Benzene Concentrations in Groundwater

Table 1: Cumulative Results of Influent and Effluent Vapor Samples
Table 2: Cumulative Groundwater Monitoring Data
Table 3: Cumulative Results of Laboratory Analyses of Groundwater Samples
Table 4: Cumulative Results of Field Organic Vapor Measurements

Appendix A, Groundwater Sampling Protocol, Well Purge Data Sheet, and Stabilization Graph
Appendix B, Hydrograph and TPHg Concentration Graphs
Appendix C, Chain of Custody Records and Laboratory Analysis Reports

REFERENCES

Applied GeoSystems. April 22, 1988. Report, Soil Vapor Investigation, Drilling of Soil Borings, and Installation of Groundwater Monitoring Wells at Exxon Station No. 7-3399, 2991 Hopyard Road, Pleasanton, California. Job No. 18034-1.

3

Applied GeoSystems. July 15, 1988. Report, Phase II Drilling of Soil Borings, Installation of Groundwater Monitoring Wells, and Aquifer Testing at Exxon Station No. 7-3399, 2991 Hopyard Road, Pleasanton, California. Job No. 18034-2.

Applied GeoSystems. August 17, 1988. Report, Installation of Temporary Recovery Well, Periodic Monitoring, and Remediation of Groundwater at Exxon Station No. 7-3399, 2991 Hopyard Road, Pleasanton, California. Job No. 18034-2A.

Applied GeoSystems. August 22, 1988. Report, Removal of Underground Gasoline Storage Tanks and Excavation of Hydrocarbon-Contaminated Soils at Exxon Station No. 7-3399, 2991 Hopyard Road, Pleasanton, California. Job No. 18034-3.

Applied GeoSystems. September 23, 1988. Letter Report, Aeration of Excavated Soil at Exxon Station No. 7-3399, 2991 Hopyard Road, Pleasanton, California. Job No. 18034-3A.

Applied GeoSystems. September 30, 1989. Progress Report on Groundwater and Soil-Vapor Extraction and Treatment at Exxon Station No. 7-3399, 2991 Hopyard Road, Pleasanton, California. Job No. 18034-4.

Applied GeoSystems. December 1, 1989. Progress Report, Delineation and Remediation of Hydrocarbons in Soil and Groundwater at Exxon Station No. 7-3399, 2991 Hopyard Road, Pleasanton, California. Job No. 18034-7.

Applied GeoSystems. February 1, 1990. Progress Report on Monitoring and Remediation Activities at Exxon Station No. 7-3399, 2991 Hopyard Road, Pleasanton, California. Job No. 18034-7.

Applied GeoSystems. April 5, 1990. Soil Characterization Report, Delineation of Hydrocarbons in Soil and Groundwater at Exxon Station No. 7-3399, 2991 Hopyard Road, Pleasanton, California. Job No. 18034-7.

California Department of Health Services, October, 1990. Title 22, California Administrative Code, Section 64444.5.

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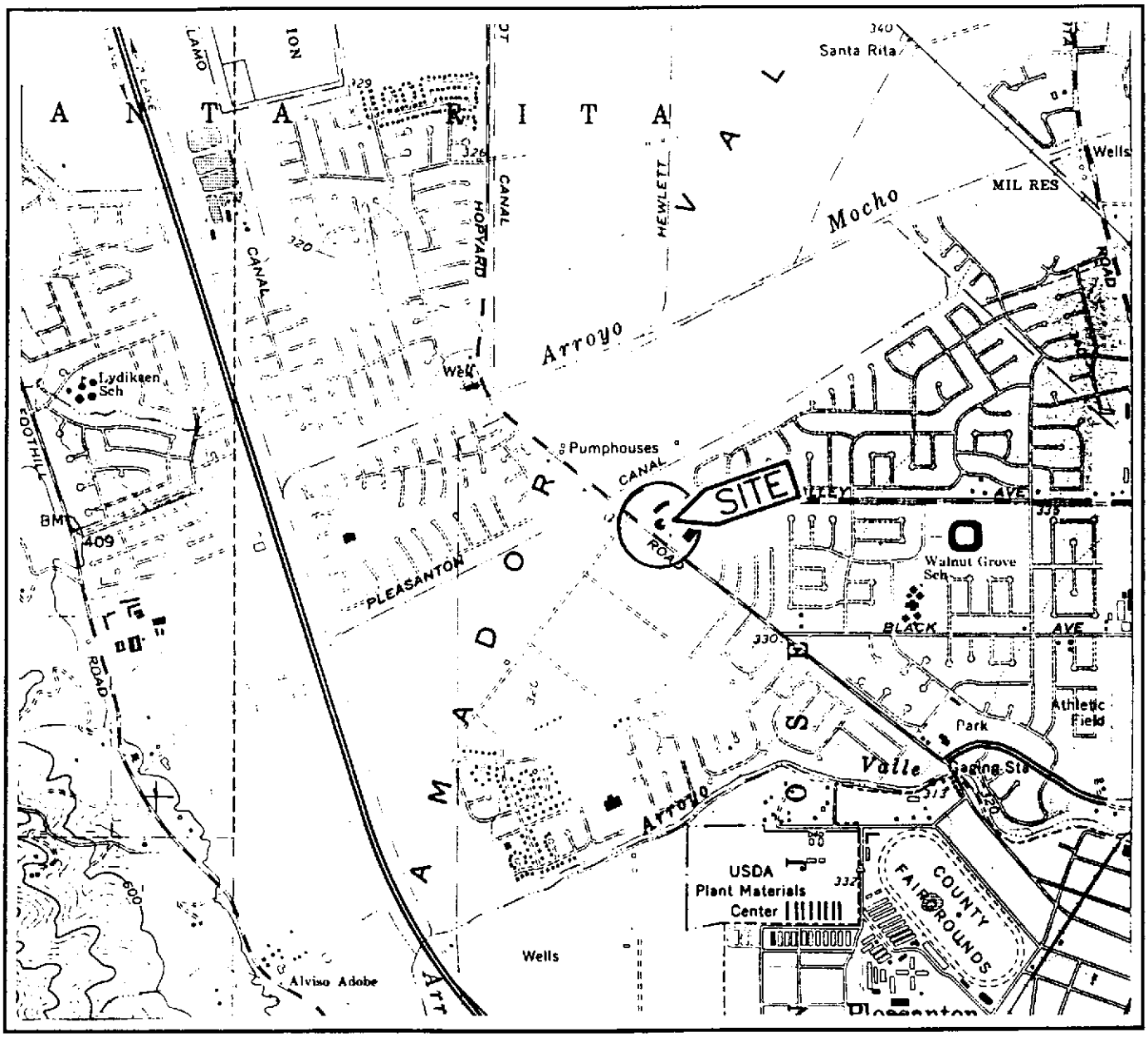
RESNA Industries Inc. June 18, 1992. Letter Report First Quarter 1992 Groundwater Monitoring at Exxon Station No. 7-3399, 2991 Hopyard Road, Pleasanton, California Job No. 18034.15.

RESNA Industries Inc. July 20, 1992. Letter Report Second Quarter 1992 Groundwater Monitoring at Exxon Station No. 7-3399, 2991 Hopyard Road, Pleasanton, California Job No. 18034.15.

RESNA Industries Inc. December 1, 1992. Letter Report Third Quarter 1992 Groundwater Monitoring at Exxon Station No. 7-3399, 2991 Hopyard Road, Pleasanton, California Job No. 18034.15.

RESNA Industries Inc. December 3, 1992. Proposal to Change the Monitoring Schedule at Exxon Station No. 7-3399, 2991 Hopyard Road, Pleasanton, California Job No. 62035.01.



Base: U.S. Geological Survey
7.5-Minute Quadrangles
Dublin, California.
Photorevised 1980

LEGEND

⊙ = Site Location

N

Approximate Scale

2000 1000 0 2000 4000

feet

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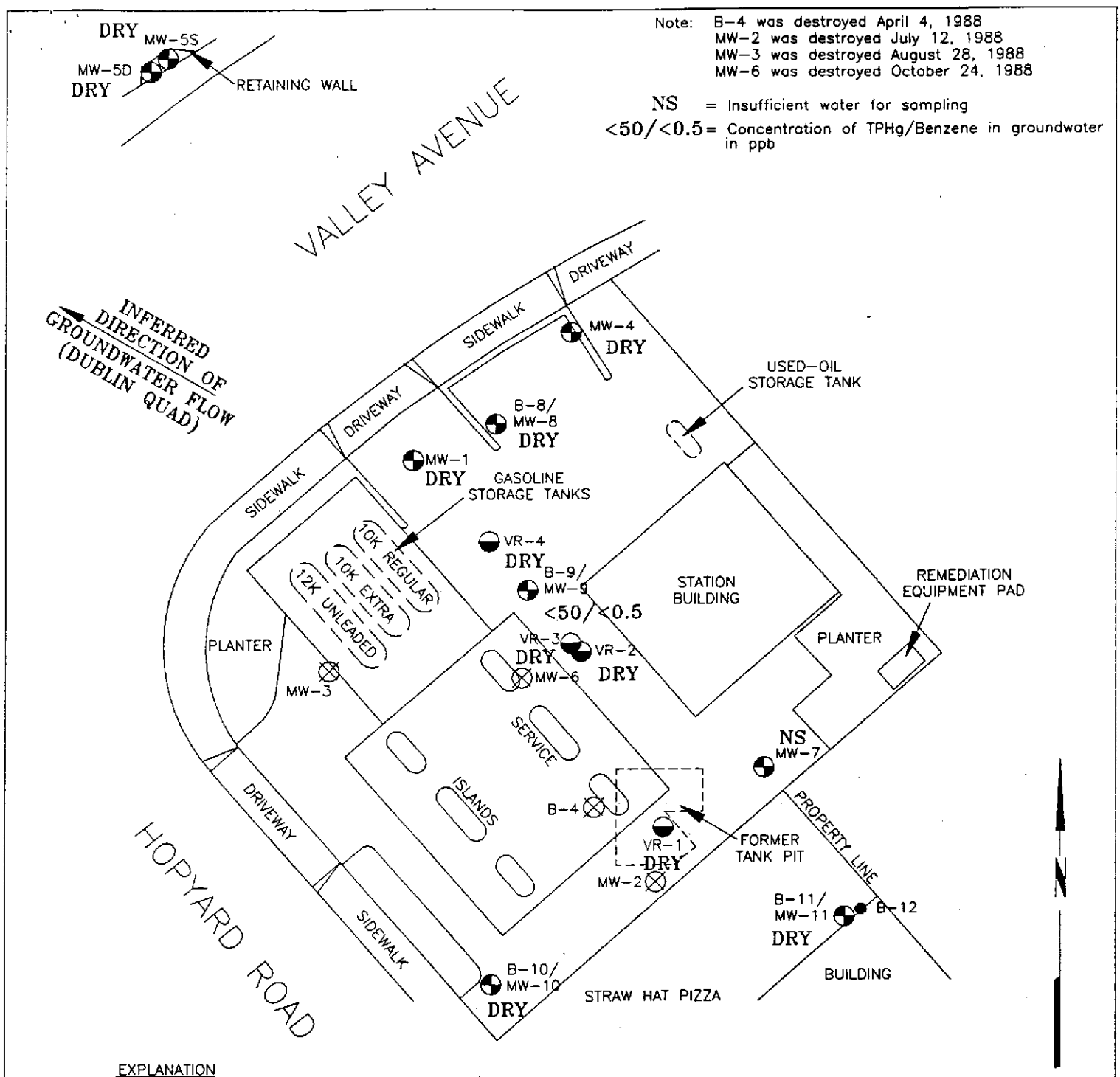
SITE VICINITY MAP
Exxon Station 7-3399
2991 Hopyard Road
Pleasanton, California

PLATE
1



Source: Surveyed by Ron Archer, Civil Engineer, July 27, 1989. Revised January 22, 1990.

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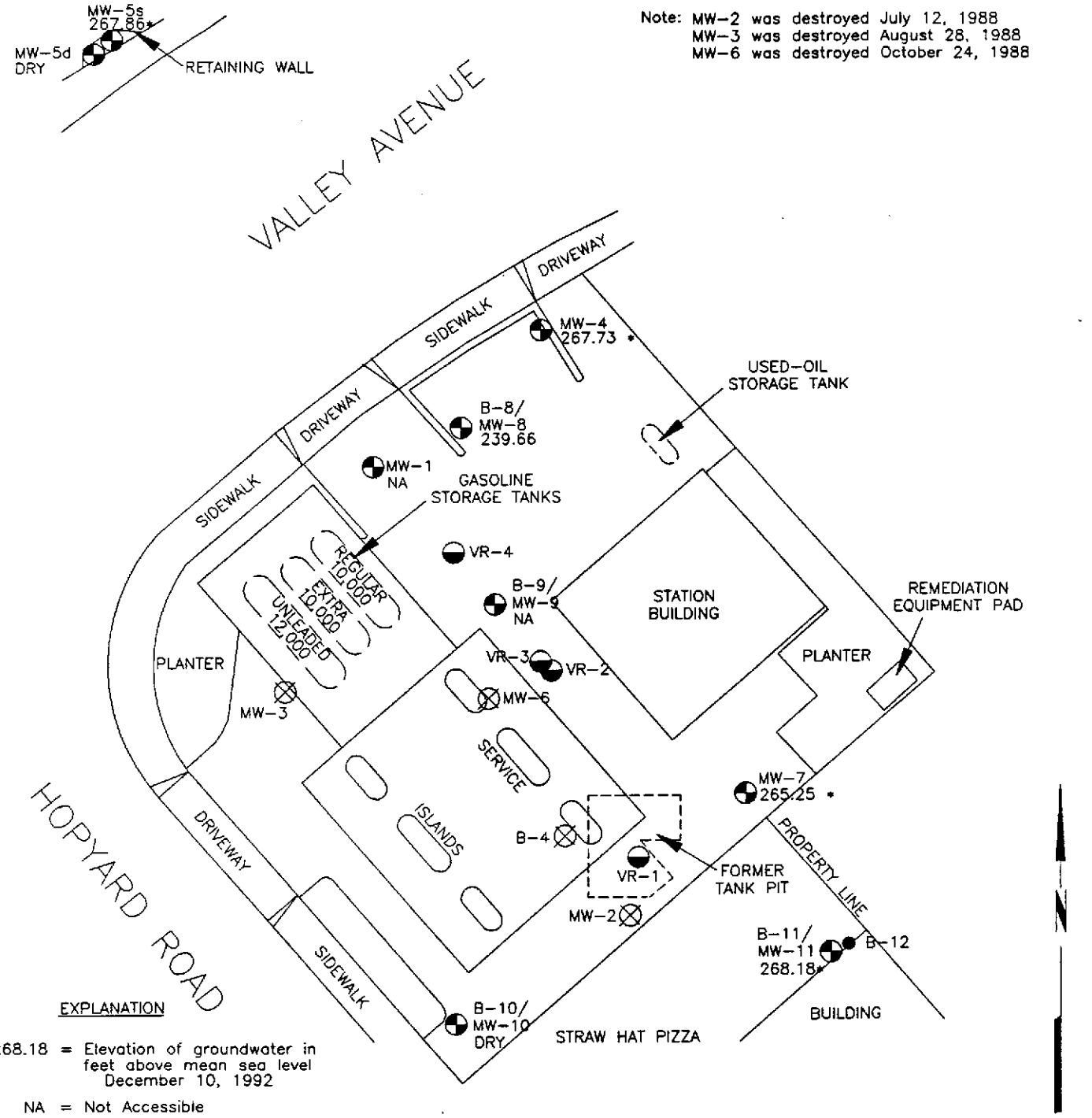
GENERALIZED SITE PLAN
Exxon Station 7-3399
2991 Hopyard Road
Pleasanton, California

PLATE **2**



Source: Surveyed by Ron Archer, Civil Engineer, July 27, 1989. Revised January 22, 1990.

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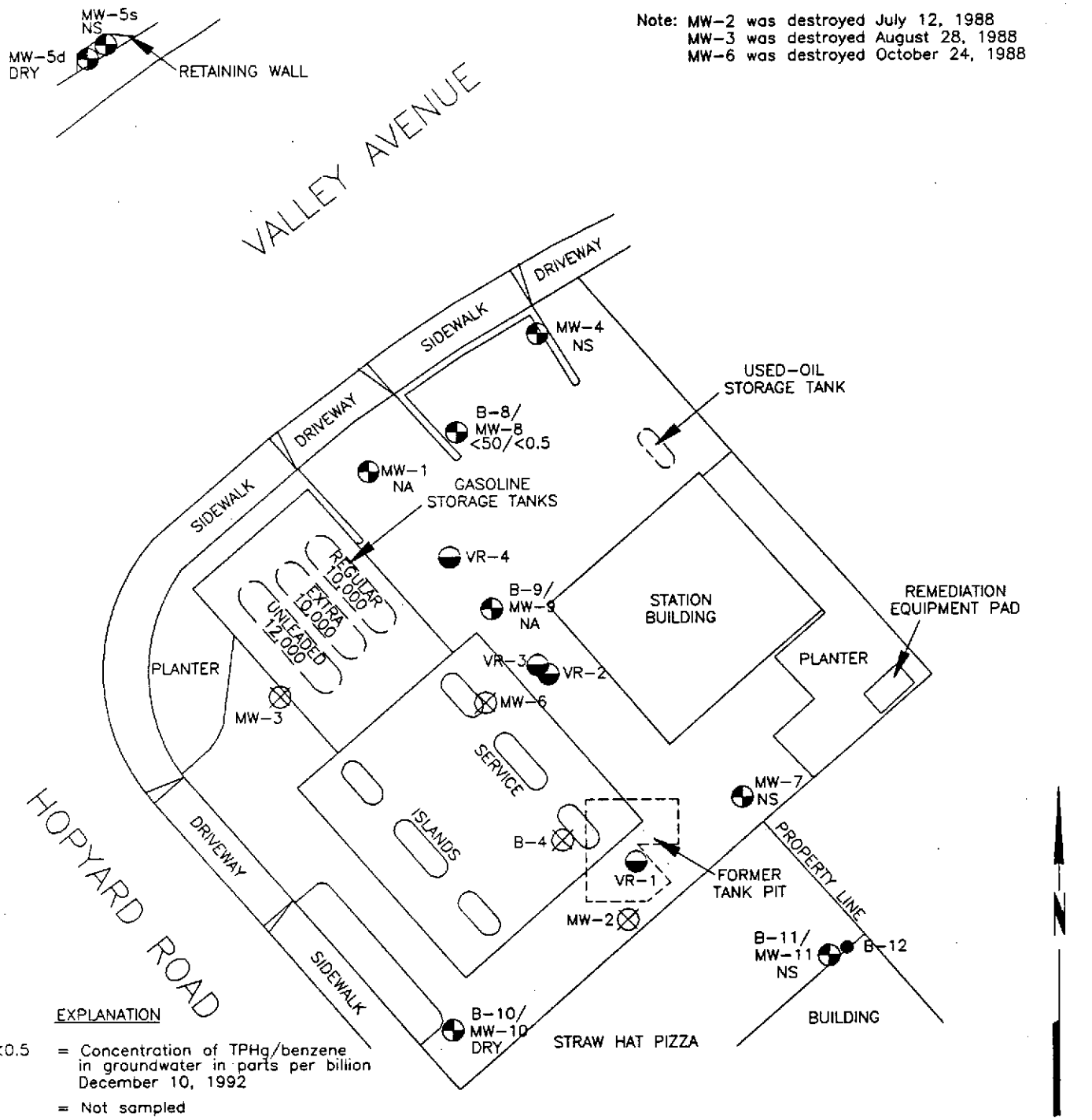
GROUNDWATER ELEVATION MAP

Exxon Station 7-3399
2991 Hopyard Road
Pleasanton, California

PLATE
3



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TPHg\BENZENE CONCENTRATIONS IN GROUNDWATER
Exxon Station 7-3399
2991 Hopyard Road
Pleasanton, California

PLATE 4

TABLE 1
CUMULATIVE RESULTS OF INFLUENT AND EFFLUENT VAPOR SAMPLES
Exxon Station 7-3399
Pleasanton, California

Date	Sample No.	TPHg	Benzene	Toluene	Ethyl-benzene	Total xylenes
11/30/90	influent	1800*	19*	21*	15*	52*
12/11/90	influent	1.4	<0.0001	0.0005	0.0003	0.0008
12/14/90	influent	0.94	<0.0005	0.011	0.0083	0.025
	effluent	<0.05	<0.0005	<0.0005	<0.0005	<0.0005
12/17/90	influent	0.20	0.0024	0.0016	0.0010	0.0026
	effluent	<0.05	<0.0005	<0.0005	<0.0005	<0.0005
12/28/90	influent	<0.05	<0.0005	<0.0005	<0.0005	<0.0005
	effluent	<0.05	<0.0005	<0.0005	<0.0005	<0.0005
01/04/91	influent	0.94	0.013	0.0005	0.0006	0.0015
01/14/91	influent	1.2	0.0023	0.0013	0.0009	0.0039
01/28/91	influent	0.96	0.028	0.0008	0.0005	0.0005
02/28/91			System inoperative			
03/18/91	influent	0.91	0.0037	0.0015	0.0018	0.0091
04/22/91			System inoperative			
05/03/91	influent	0.62	<0.0005	<0.0005	<0.0005	0.0009
06/20/91	influent	0.49	0.026	0.041	0.0089	0.050
10/12/92	influent	97*	<0.5*	0.7*	<0.5*	0.7*
	between canisters	<50*	<0.5*	<0.5*	<0.5*	1.0*
	effluent	<50*	<0.5*	<0.5*	<0.5*	0.7*

Results are in parts per million (ppm).
* : Results in milligrams per cubic meter (mg/m3).
TPHg : Total petroleum hydrocarbons as gasoline.
< : Less than the method detection limit of the laboratory.

TABLE 2
CUMULATIVE GROUNDWATER MONITORING DATA
Exxon Service Station 7-3399
Pleasanton, California
(Page 1 of 11)

Date	Depth to Water (ft)	Groundwater Elevation (ft)	Product Thickness (ft)	Sheen
MW-1 (Wellhead Elevation = 321.44 ft)				
04/06/88	36.34	285.00	None	None
04/08/88	36.29	285.15	None	None
04/19/88	36.36	285.08	None	None
06/06/88	38.16	283.28	None	None
06/23/88	38.71	282.73	None	None
06/28/88	39.16	282.28	–	–
07/06/88	39.73	281.71	None	None
07/13/88	40.22	281.22	None	None
08/12/88		Well buried under excavated soil		
08/26/88	41.90	279.54	–	–
09/07/88	42.27	279.17	None	None
12/07/88	43.94	277.50	None	None
12/19/88	43.70	277.74	None	None
02/09/89	42.53	278.91	–	–
03/08/89	41.96	279.48	None	None
04/03/89	41.59	279.85	–	–
04/26/89	41.67	279.77	–	–
06/30/89	43.79	277.65	None	None
07/17/89	44.74	276.70	None	None
07/18/89	44.76	276.68	–	–
07/19/89	44.82	276.62	–	–
07/20/89	44.85	276.59	None	None
07/21/89	44.95	276.49	–	–
07/26/89	45.42	276.02	None	None
08/02/89	–	NA	NA	NA
08/03/89	46.18	275.26	–	–
08/17/89	47.12	274.32	–	–
09/13/89	49.08	272.36	None	None
11/28/89	50.21	271.23	None	None
01/09/90	49.31	272.13	None	None
01/26/90	49.29	272.15	None	None
02/23/90	49.02#	272.42	None	None
02/23/90	49.02	272.42	None	None
03/26/90	48.71#	272.73	None	None
03/26/90	48.70	272.74	None	None
04/18/90	48.79	272.65	None	None
05/17/90	49.40	272.04	None	None
06/11/90	50.83	270.61	None	None
07/30/90	52.17	269.27	None	None
08/27/90	53.44	268.00	None	None
09/28/90	53.40	268.04	None	None
12/27/90	–	NA	NA	NA

See notes on page 11 of 11.

TABLE 2
CUMULATIVE GROUNDWATER MONITORING DATA
Exxon Service Station 7-3399
Pleasanton, California
(Page 2 of 11)

Date	Depth to Water (ft)	Groundwater Elevation (ft)	Product Thickness (ft)	Sheen
MW-1 (continued)				
03/20/91	53.35	268.08	–	–
06/20/91	53.55	267.89	None	None
09/12/91	–	NA	None	None
12/30/91	–	NA	NA	NA
01/30/92	–	NA	NA	NA
03/02/92	–	NA	NA	NA
03/24/92	–	NA	NA	NA
04/14/92	–	NA	NA	NA
05/21/92	–	NA	NA	NA
06/08/92	–	NA	NA	NA
07/14/92	–	NA	NA	NA
08/10/92	–	NA	NA	NA
09/16/92	–	NA	NA	NA
10/07/92	–	NA	NA	NA
11/09/92	Dry	NA	NA	NA
12/10/92	–	NA	NA	NA
MW-2				
04/02/88	–	–	3.0	Heavy
04/04/88	–	–	18.0	Heavy
04/05/88	–	–	18.0	Heavy
04/06/88	39.31	–	38.4	Heavy
04/08/88	–*	–	–*	–*
04/19/88	38.90	–	29.76**	Heavy
06/06/88	38.78	–	3.12	Heavy
06/23/88	39.23	–	1.50	Heavy
06/28/88	39.72	–	–	–
07/06/88	40.31	–	None	Slight
07/12/88	Well destroyed due to excavation (old pit)			
MW-3				
04/06/88	37.19	–	None	None
04/08/88	37.14	–	None	None
04/19/88	37.22	–	None	None
06/06/88	39.02	–	None	None
06/23/88	39.58	–	None	None
06/28/88	40.04	–	–	–
07/06/88	40.60	–	None	None
07/13/88	41.09	–	None	None
08/12/88	Well buried under excavated soil			
08/26/88	42.77	–	–	–
08/29/88	Well destroyed due to excavation (new pit)			

See notes on page 11 of 11.

TABLE 2
CUMULATIVE GROUNDWATER MONITORING DATA
Exxon Service Station 7-3399
Pleasanton, California
(Page 3 of 11)

Date	Depth to Water (ft)	Groundwater Elevation (ft)	Product Thickness (ft)	Sheen
MW-4 (Wellhead elevation = 321.56 ft)				
04/08/88	36.41	285.15	None	None
04/19/88	36.51	285.05	None	None
06/06/88	38.26	283.30	None	None
06/23/88	38.83	282.73	None	None
06/28/88	39.28	282.28	–	–
07/06/88	39.85	281.71	None	None
07/13/88	40.31	281.25	None	None
08/12/88		Well buried under excavated soil		
08/26/88	42.01	279.55	–	–
09/07/88		Not accessible due to construction		
12/07/88		Not accessible due to construction		
12/19/88	43.83	277.73	None	None
02/09/89	42.67	278.89	–	–
03/08/89	42.11	279.45	None	None
04/03/89	41.73	279.83	–	–
04/26/89	41.79	279.77	–	–
06/30/89	43.88	277.68	None	None
07/17/89	44.85	276.71	None	None
07/18/89	44.88	276.68	–	–
07/19/89	44.92	276.64	–	–
07/20/89	44.98	276.58	None	None
07/21/89	45.04	276.52	–	–
07/26/89	45.50	276.06	None	None
08/02/89	–	NA	NA	NA
08/03/89	46.28	275.28	–	–
08/17/89	47.22	274.34	–	–
09/13/89	49.19	272.37	None	None
11/28/89	50.34	271.22	None	None
01/09/90	49.47	272.09	None	None
01/26/90	49.36	272.20	None	None
02/23/90	49.18#	272.38	None	None
02/23/90	49.15	272.41	None	None
03/26/90	48.84#	272.72	None	None
03/26/90	48.83	272.73	None	None
04/18/90	48.90	272.66	None	None
05/17/90	50.03	271.53	None	None
06/11/90	50.98	270.58	None	None
07/30/90	53.57	267.99	None	None
08/27/90	53.61	267.95	None	None
09/28/90	53.57	267.99	None	None

See notes on page 11 of 11.

TABLE 2
CUMULATIVE GROUNDWATER MONITORING DATA
Exxon Service Station 7-3399
Pleasanton, California
(Page 4 of 11)

Date	Depth to Water (ft)	Groundwater Elevation (ft)	Product Thickness (ft)	Sheen
MW-4 (continued)				
12/27/90	53.68	267.88	None	None
03/20/91	53.56	268.00	None	None
06/20/91	53.75	267.81	None	None
09/12/91	53.70	267.86	None	None
12/30/91	Dry	NA	NA	NA
01/30/92	Dry	NA	NA	NA
03/02/92	53.83	267.73	None	None
03/24/92	53.73	267.83	None	None
04/14/92	53.76	267.80	None	None
05/21/92	54.73	266.83	None	None
06/08/92	53.80	267.76	None	None
07/14/92	53.60	267.96	None	None
08/10/92	53.71	267.85	None	None
09/16/92	53.89	267.67	None	None
10/07/92	Dry	NA	NA	NA
11/09/92	Dry	NA	NA	NA
12/10/92	53.83	267.73	None	None
MW-5d (Wellhead Elevation = 321.79 ft)				
05/25/88	38.55	283.24	None	None
06/06/88	38.90	282.89	None	None
06/23/88	39.56	282.23	None	None
06/28/88	40.23	281.33	--	--
07/06/88	40.69	281.10	None	None
07/13/88	41.22	280.57	None	None
08/12/88	42.34	279.45	--	--
08/26/88	42.60	279.19	--	--
09/07/88	42.99	278.80	--	--
12/07/88	44.58	277.21	None	None
02/09/89		Casing head damaged by construction		
03/08/89		Casing head cut to lower elevation		
	42.49	279.30	None	None
04/03/89	42.21	279.58	--	--
04/26/89	42.36	279.43	--	--
06/30/89	44.79	277.00	None	None
07/17/89	45.73	276.06	None	None
07/18/89	45.75	276.04	--	--
07/19/89	44.89	276.90	--	--
07/20/89	46.02	275.77	None	None
07/21/89	46.18	275.38	--	--
07/26/89	46.83	274.96	None	None

See notes on page 11 of 11.

TABLE 2
CUMULATIVE GROUNDWATER MONITORING DATA
Exxon Service Station 7-3399
Pleasanton, California
(Page 5 of 11)

Date	Depth to Water (ft)	Groundwater Elevation (ft)	Product Thickness (ft)	Sheen
MW-5d (continued)				
08/02/89	–	NA	NA	NA
08/03/89	47.67	274.12	–	–
08/17/89	48.27	273.52	–	–
09/13/89	50.60	271.19	None	None
11/28/89	51.16	270.63	None	None
01/09/90	50.42	271.37	None	None
01/26/90	50.10	271.66	None	None
02/23/90	50.08	271.77	None	None
03/26/90	49.80#	271.99	None	None
03/26/90	49.77	272.02	None	None
04/18/90	49.80	271.99	None	None
05/17/90	51.32	270.47	None	None
06/11/90	52.10	269.69	None	None
07/30/90	53.47	268.32	None	None
08/27/90	58.24	263.55	None	None
09/28/90	60.70	261.09	None	None
12/27/90	62.52	259.27	None	None
03/20/91	59.18	262.61	None	None
06/20/91	65.02	256.77	None	None
09/12/91	Dry	NA	NA	NA
12/30/91	Dry	NA	NA	NA
01/30/92	Dry	NA	NA	NA
03/02/92	Dry	NA	NA	NA
04/14/92	74.98	246.81	None	None
05/21/92	74.42	247.37	None	None
06/08/92	75.67	246.12	None	None
07/14/92	Dry	NA	NA	NA
08/10/92	Dry	NA	NA	NA
09/16/92	Dry	NA	NA	NA
10/07/92	Dry	NA	NA	NA
11/09/92	Dry	NA	NA	NA
12/10/92	Dry	NA	NA	NA
MW-5s (Wellhead Elevation = 321.64 ft)				
05/25/88	38.46	283.18	None	None
06/06/88	38.86	282.78	None	None
06/23/88	39.52	282.12	None	None
06/28/88	39.84	281.80	–	–
07/06/88	40.45	281.19	None	None
07/13/88	40.90	280.74	None	None
07/22/88	41.30	280.34	None	None

See notes on page 11 of 11.

TABLE 2
CUMULATIVE GROUNDWATER MONITORING DATA
Exxon Service Station 7-3399
Pleasanton, California
(Page 6 of 11)

Date	Depth to Water (ft)	Groundwater Elevation (ft)	Product Thickness (ft)	Sheen
MW-5s (continued)				
08/05/88	23.84▾	297.80	None	None
08/12/88	42.21	279.43	–	–
08/26/88	42.55	279.09	–	–
09/07/88	42.94	278.70	None	None
12/07/88	44.67	276.97	None	None
02/09/89	43.19	278.45	–	–
03/08/89		Casing head cut to lower elevation		
	42.11	279.53	None	None
04/26/89	41.84	279.80	–	–
06/30/89	43.95	277.69	None	None
07/17/89	44.91	276.73	None	None
07/18/89	44.93	276.71	–	–
07/19/89	44.98	276.66	–	–
07/20/89	45.02	276.62	None	None
07/21/89	45.10	276.54	–	–
07/26/89	45.57	276.07	None	None
08/02/89	–	–	NA	NA
08/03/89	46.31	275.33	–	–
08/17/89	47.25	274.39	–	–
09/13/89	49.22	272.42	None	None
11/28/89	50.39	271.25	None	None
01/09/90	49.51	272.13	None	None
01/26/90	49.40	272.24	None	None
02/23/90	49.20#	272.44	None	None
02/23/90	49.20	272.44	None	None
03/26/90	48.89#	272.75	None	None
03/26/90	48.88	272.76	None	None
04/18/90	48.95	272.69	None	None
05/17/90	50.06	271.58	None	None
06/11/90	50.98	270.66	None	None
07/30/90	53.40	268.24	None	None
08/27/90	53.60	268.04	None	None
09/28/90	53.55	268.09	None	None
12/27/90	53.61	268.03	None	None
03/20/91	53.56	268.08	None	None
06/20/91	53.73	267.91	None	None
09/12/91	53.78	267.86	None	None
12/30/91	53.80	267.84	None	None
01/24/92	53.82	267.82	None	None
03/02/92	53.82	267.82	None	None
04/14/92	53.74	267.90	None	None

See notes on page 11 of 11.

TABLE 2
CUMULATIVE GROUNDWATER MONITORING DATA
Exxon Service Station 7-3399
Pleasanton, California
(Page 7 of 11)

Date	Depth to Water (ft)	Groundwater Elevation (ft)	Product Thickness (ft)	Sheen
MW-5s (cont)				
05/21/92	53.77	267.87	None	None
06/08/92	53.81	267.83	None	None
07/14/92	53.74	267.90	None	None
08/10/92	53.78	267.86	None	None
09/16/92	53.90	267.74	None	None
10/07/92	DRY	NA	NA	NA
11/09/92	53.87	267.77	None	None
12/10/92	53.78	267.86	None	None
MW-6				
05/11/88	37.71	--	None	None
06/06/88	38.70	--	None	None
06/23/88	39.23	--	None	None
06/28/88	39.74	--	None	None
07/13/88	40.78	--	None	None
08/05/88	41.72	--	None	None
08/12/88	42.14		--	--
08/17/88		Well buried under excavated soil		
08/26/88	42.51	--	--	--
09/07/88	42.85	--	None	None
10/24/88		Well destroyed for station construction		
MW-7 (Wellhead Elevation = 321.27 ft)				
07/13/88	40.50	280.77	None	None
07/22/88	41.85#	279.42	None##	None##
08/05/88	41.45#	279.82	None##	None##
08/12/88	42.69	278.58	--	--
09/07/88	42.60	278.67	--	--
12/07/88		Not accessible		
01/17/89	43.20	278.07	--	--
02/09/89		Not accessible, pump equipment in well		
10/12/89	49.93	271.34	None	None
11/28/89	57.61#	264.03	--	--
01/09/90	57.57#	263.70	--	--
01/26/90	57.54#	263.73	None	None
01/26/90	49.08	272.19	None	None
02/23/90	55.26#	266.01	None	None
02/23/90	48.93	272.34	None	None
03/26/90	57.52#	263.73	None	None
03/26/90	48.60	272.67	None	None
04/18/90	57.55#	263.72	None	None
05/17/90	57.40#	263.87	None	None

See notes on page 11 of 11.

TABLE 2
CUMULATIVE GROUNDWATER MONITORING DATA
Exxon Service Station 7-3399
Pleasanton, California
(Page 8 of 11)

Date	Depth to Water (ft)	Groundwater Elevation (ft)	Product Thickness (ft)	Sheen
MW-7 (continued)				
06/11/90	50.68	270.59	None	None
07/30/90	--	NA	None	None
08/27/90	53.05	268.22	None	None
09/28/90	--	NA	NA	NA
12/27/90	--	NA	NA	NA
03/20/91	54.11	267.16	--	--
06/20/91	55.14	266.13	None	None
09/12/91	55.84	265.43	None	None
12/30/91	55.21	266.06	None	None
01/30/92	54.88	266.39	None	None
03/02/92	NA	--	--	--
03/24/92	NA	--	--	--
04/14/92	NA	--	--	--
05/21/92	53.36	267.91	None	None
06/08/92	54.20	267.07	None	None
07/14/92	53.31	268.60	None	None
08/10/92	54.01	267.26	None	None
09/16/92	55.97	268.60	None	None
10/07/92	56.09	265.18	None	None
11/09/92	54.19	267.08	None	None
12/10/92	56.02	265.25	None	None
MW-8 (Wellhead Elevation = 321.86 ft)				
10/01/89	53.88	267.98	None	None
11/28/89	53.74	268.12	None	None
01/09/90	57.90	263.96	None	None
01/26/90	53.57	268.29	None	None
02/23/90	52.16	269.70	None	None
03/26/90	52.80#	269.06	None	None
04/18/90	51.60	270.26	None	None
05/17/90	58.21	263.65	None	None
06/11/90	58.65	263.21	None	None
07/30/90	64.33	257.53	None	None
08/27/90	70.41	251.45	None	None
09/28/90	71.93	249.93	None	None
12/27/90	66.60	255.26	None	None
03/20/91	60.75	261.11	None	None
06/20/91	88.77	233.09	None	None
09/12/91	103.17	218.69	None	None
12/30/91	81.15	240.71	None	None
01/30/92	81.69	240.17	None	None

See notes on page 11 of 11.

TABLE 2
CUMULATIVE GROUNDWATER MONITORING DATA
Exxon Service Station 7-3399
Pleasanton, California
(Page 9 of 11)

Date	Depth to Water (ft)	Groundwater Elevation (ft)	Product Thickness (ft)	Sheen
MW-8 (continued)				
03/02/92	78.45	243.41	None	None
03/24/92	76.55	245.31	None	None
04/14/92	75.56	246.30	None	None
05/21/92	86.99	234.87	None	None
06/08/92	91.69	230.17	None	None
07/14/92	94.65	227.48	None	None
08/10/92	95.02	226.84	None	None
09/16/92	91.90	229.96	None	None
10/07/92	Dry	NA	NA	NA
11/09/92	84.35	237.51	None	None
12/10/92	82.20	239.66	None	None
MW-9 (Wellhead elevation = 321.44 ft)				
10/12/89	50.24	271.20	None	None
11/28/89	50.59	270.85	1.0	Heavy
12/01/89	50.32	271.12	0.25	Heavy
12/07/89	50.13	271.31	1.92	Heavy
12/13/89	49.91	271.53	None	Slight
12/20/89	49.78	271.66	None	Slight
01/02/90	–	NA	None	Slight
01/09/90	49.39	272.05	None	Slight
01/26/90	49.30	272.14	None	None
02/23/90	49.06#	272.38	None	None
02/23/90	49.05	272.39	None	None
03/26/90	48.75#	272.69	None	None
03/26/90	48.73	272.71	None	Very Slight
04/18/90	48.81	272.63	None	Slight
05/17/90	49.96	271.48	None	Slight
06/11/90	51.58	269.86	4.5	NA
07/30/90	Dry	NA	NA	NA
08/27/90	Dry	NA	NA	NA
09/28/90	Dry	NA	NA	NA
12/27/90	–	NA	NA	NA
03/20/91	Dry	NA	None	Very Slight
06/20/91	49.63	271.81	None	None
09/12/91	–	NA	NA	NA
12/30/91	–	NA	NA	NA
01/30/92	–	NA	NA	NA
03/02/92	–	NA	NA	NA
03/24/92	–	NA	NA	NA
04/14/92	–	NA	NA	NA

See notes on page 11 of 11.

TABLE 2
CUMULATIVE GROUNDWATER MONITORING DATA
Exxon Service Station 7-3399
Pleasanton, California
(Page 10 of 11)

Date	Depth to Water (ft)	Groundwater Elevation (ft)	Product Thickness (ft)	Sheen
MW-9 (continued)				
05/21/92	--	NA	NA	NA
06/08/92	--	NA	NA	NA
07/14/92	--	NA	NA	NA
08/10/92	--	NA	NA	NA
09/16/92	--	NA	NA	NA
10/07/92	Dry	NA	NA	NA
11/09/92	Dry	NA	NA	NA
12/10/92	NA	NA	NA	NA
MW-10 (Wellhead Elevation = 322.99 ft)				
10/12/89	51.93	271.06	None	None
11/28/89	51.88	271.11	None	None
12/20/89	51.47	271.52	None	None
01/09/90	50.98	272.01	None	None
01/26/90	50.87	272.12	None	None
02/23/90	50.67#	272.32	None	None
02/23/90	50.65	272.34	None	None
03/26/90	50.36#	272.63	None	None
03/26/90	50.35	272.64	None	None
04/18/90	50.45	272.54	None	None
06/11/90	51.16	271.83	None	None
07/30/90	55.72	267.27	None	None
08/27/90	57.75	265.24	None	None
09/28/90	--	NA	NA	NA
12/27/90	58.08	264.91	None	None
03/20/91	57.80	265.19	None	None
06/20/91	58.00	264.99	None	None
09/12/91	DRY	NA	NA	NA
12/30/91	--	NA	NA	NA
01/30/92	DRY	NA	NA	NA
03/02/92	DRY	NA	NA	NA
03/24/92	58.53	264.46	None	None
04/14/92	DRY	NA	NA	NA
05/21/92	DRY	NA	NA	NA
06/08/92	DRY	NA	NA	NA
07/14/92	DRY	NA	NA	NA
08/10/92	DRY	NA	NA	NA
09/16/92	DRY	NA	NA	NA
10/07/92	DRY	NA	NA	NA
11/09/92	Dry	NA	NA	NA
12/10/92	Dry	NA	NA	NA

See notes on page 11 of 11.

Quarterly Groundwater Monitoring
Exxon Station 7-3399, Pleasanton, California

February 1, 1993
18034.15

TABLE 2
CUMULATIVE GROUNDWATER MONITORING DATA
Exxon Service Station 7-3399
Pleasanton, California
(Page 11 of 11)

Date	Depth to Water (ft)	Groundwater Elevation (ft)	Product Thickness (ft)	Sheen
MW-11 (Wellhead Elevation = 321.77 ft)				
11/10/89	50.64	271.13	None	None
11/28/89	50.51	271.26	None	Very Slight
12/20/89	51.47	270.30	None	None
01/09/90	49.68	272.09	None	None
01/26/90	49.55	272.22	None	None
02/23/90	49.37#	272.40	None	None
02/23/90	49.35	272.42	None	None
03/26/90	49.03#	272.74	None	None
04/18/90	49.12	272.65	None	None
05/17/90	50.30	271.47	None	None
06/11/90	51.16	270.61	None	None
07/30/90	53.50	268.27	None	None
08/27/90	53.65	268.12	None	None
09/28/90	53.62	268.15	None	None
12/27/90	53.63	268.14	None	None
03/20/91	53.26	268.51	None	None
06/20/91	53.60	268.17	None	None
09/12/91	53.60	268.17	None	None
12/30/91	53.95	267.82	None	None
01/30/92	53.65	268.13	None	None
03/02/92	53.68	268.09	None	None
03/24/92	53.70	268.07	None	None
04/14/92	53.66	268.11	None	None
05/21/92	53.62	268.15	None	None
06/08/92	53.61	268.16	None	None
07/14/92	53.53	268.24	None	None
08/10/92	53.58	268.19	None	None
09/16/92	53.60	268.17	None	None
10/07/92	DRY	NA	NA	NA
11/09/92	Dry	NA	NA	NA
12/10/92	53.59	268.18	None	None
VR-1				
03/24/92	24.77	--	None	None

Depth to groundwater is in feet below top of casing.
Elevation is in feet above mean sea level.

-- : Not measured
NA : Not applicable
* : Not measured because of installed product-skimmer pump.
** : Thickness of floating product after the well was allowed to recharge for approximately 3 hours.
▼ : Anomalous water level possibly due to recharge from a perched water zone.
: Water level during pumping of MW-7.
: Water inspected in oil-water separator tank.

TABLE 3
CUMULATIVE RESULTS OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES
Exxon Station 7-3399
Pleasanton, California
(page 1 of 5)

Date	Sample No.	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Total Xylenes (ppb)	TPHg (ppb)	EPA 502.2 (ppb)	EPA 524.2 (ppb)
MW-1								
0 4/02/88	W-38-MW1	<0.5	1.7	<0.5	<0.5	<20	–	–
0 7/06/88	W-40-MW1	<0.5	<0.5	<0.5	<0.5	<20	–	–
0 7/13/88	W-42-MW1	<0.5	<0.5	<0.5	<0.5	<20	–	–
0 9/07/88	W-43-MW1	<0.5	<0.5	<0.5	<0.5	<20	–	–
0 3/08/89	W-43-MW1	1.6	<0.5	<0.5	<0.5	<20	–	–
0 6/30/89	W-44-MW1	<0.5	<0.5	<0.5	<0.5	<20	–	–
0 7/17/89	W-45-MW1	<0.5	<0.5	<0.5	<0.5	23	–	–
0 7/20/89	W-45-MW1	<0.5	<0.5	<0.5	<0.5	<20	–	–
0 7/26/89	W-46-MW1	<0.5	<0.5	<0.5	<0.5	<20	–	–
0 8/02/89	W-46-MW1	<0.5	<0.5	<0.5	<0.5	<20	–	–
0 9/13/89	W-50-MW1	39	0.60	<0.50	5.1	220	–	–
12/20/89	W-50-MW1	56	0.72	<0.50	0.71	220	–	–
0 1/25/90	W-50-MW1	18	1.6	<0.50	1.8	57	–	–
0 2/27/90	W-50-MW1	3.2	2.3	<0.50	3.2	55	–	–
0 3/26/90	W-49-MW1	<0.5	<0.5	<0.5	<0.5	<20	–	–
0 4/18/90	W-49-MW1	1.1	1.6	<0.50	3.1	25	–	–
0 5/17/90	W-49-MW1	<0.5	<0.5	<0.5	<0.5	<20	–	–
0 6/11/90	W-52-MW1	<0.5	<0.5	<0.5	<0.5	<20	–	–
0 7/30/90	W-53-MW1	<0.5	<0.5	<0.5	<0.5	<20	–	–
0 8/27/90	W-53-MW1	<0.5	<0.5	<0.5	<0.5	<20	–	–
0 9/28/90	W-53-MW1	<0.5	<0.5	<0.5	<0.5	<50	–	–
12/10/92			Not Accessible					
MW-2								
7/06/88	W-41-MW	25,700	18,500	2,900	21,400	62,000	–	–
7/12/88				Well destroyed				
MW-3								
4/06/88	W-39-MW3	<0.5	<0.5	<0.5	<0.5	20	–	–
7/06/88	W-41-MW3	<0.5	<0.5	<0.5	<0.5	<20	–	–
7/13/88	W-43-MW3	<0.5	<0.5	<0.5	<0.5	<20	–	–
8/26/88	W-44-MW3	<0.5	<0.5	<0.5	<0.5	<20	–	–
8/29/88				Well destroyed				

See notes on page 5 of 5.

TABLE 3
CUMULATIVE RESULTS OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES
Exxon Station 7-3399
Pleasanton, California
(page 2 of 5)

Date	Sample No.	Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	Total Xylenes (ppm)	TPHg (ppm)	EPA 502.2 (ppm)	EPA 524.2 (ppm)
MW-4								
04/11/88	W-37-MW4	1.8	16.3	0.6	7.1	80	–	–
07/06/88	W-41-MW4	<0.5	<0.5	<0.5	<0.5	<20	–	–
07/13/88	W-42-MW4	<0.5	0.9	<0.5	<0.5	<20	–	–
03/08/89	W-43-MW4	3.8	1.0	<0.5	<0.5	440	–	–
06/30/89	W-44-MW4	<0.5	<0.5	<0.5	<0.5	100	–	–
07/17/89	W-45-MW4	<0.5	<0.5	<0.5	<0.5	390	–	–
07/20/89	W-45-MW4	<0.5	<0.5	<0.5	<0.5	200	ND*	–
07/26/89	W-46-MW4	<0.5	<0.5	<0.5	<0.5	66	–	–
08/02/89	W-46-MW4	–	–	–	–	–	–	ND*
09/13/89	W-50-MW4	<0.5	<0.5	<0.5	<0.5	<20	–	–
12/20/89	W-50-MW-4	<0.5	<0.5	<0.5	<0.5	<20	–	–
03/26/90	W-49-MW-4	<0.5	<0.5	<0.5	<0.5	<20	–	–
08/01/90	W-54-MW-4	<0.5	<0.5	<0.5	<0.5	<20	–	–
12/27/90	W-54-MW-4	<0.5	<0.5	<0.5	<0.5	<50	–	–
03/20/91	W-53-MW-4	<0.5	<0.5	<0.5	<0.5	<50	–	–
03/24/92	W-55-MW-4	<0.5	<0.5	<0.5	<0.5	<50	–	–
12/10/92			Not Accessible					
MW-5d								
05/25/88	W-9-MW5a	<0.5	3.1	<0.5	<0.5	<20	–	–
07/06/88	W-41-MW5d	<0.5	<0.5	<0.5	<0.5	<20	–	–
07/13/88	W-43-MW5d	<0.5	<0.5	<0.5	<0.5	40	–	–
03/08/89	W-43-MW5d	<0.5	<0.5	<0.5	<0.5	<20	–	–
06/30/80	W-45-MW5d	<0.5	<0.5	<0.5	<0.5	<20	–	–
07/17/89	W-46-MW5d	<0.5	<0.5	<0.5	<0.5	<20	–	–
07/20/89	W-47-MW5d	<0.5	<0.5	<0.5	<0.5	<20	–	–
07/26/89	W-47-MW5d	<0.5	<0.5	<0.5	<0.5	<20	–	–
08/02/89	W-48-MW5d	<0.5	<0.5	<0.5	<0.5	<20	–	–
09/13/89	W-51-MW5d	<0.5	<0.5	<0.5	<0.5	<20	–	–
12/20/89	W-51-MW5d	<0.5	<0.5	<0.5	<0.5	<20	–	–
03/26/90	W-50-MW5d	<0.5	<0.5	<0.5	<0.5	<20	–	–
08/01/90	W-56-MW5d	<0.5	<0.5	<0.5	<0.5	<20	–	–
12/27/90	W-63-MW5d	<0.5	<0.5	<0.5	<0.5	<50	–	–
03/20/91	W-59-MW5d	<0.5	<0.5	<0.5	<0.5	<50	–	–
06/20/91	W-65-MW5d	<0.5	<0.5	<0.5	<0.5	<50	–	–
12/10/92			Dry					

See notes on page 5 of 5.

TABLE 3
CUMULATIVE RESULTS OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES
Exxon Station 7-3399
Pleasanton, California
(page 3 of 5)

Date	Sample No.	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Total Xylenes (ppb)	TPHg (ppb)	EPA 502.2 (ppb)	EPA 524.2 (ppb)
MW-5s								
05/25/88	W-41-MW5b	<0.5	0.9	<0.5	<0.5	<20	–	–
07/06/88	W-41-MW5s	<0.5	<0.5	<0.5	<0.5	<20	–	–
07/13/88	W-44-MW5s	<0.5	<0.5	<0.5	<0.5	<20	–	–
07/22/88	W-42-MW5s	0.9	4.1	1.3	8.7	50	–	–
08/05/88	W-25-MW5s	<0.5	<0.5	<0.5	<0.5	<20	–	–
09/07/88	W-43-MW5s	<0.5	<0.5	<0.5	<0.5	<20	–	–
03/08/89	W-43-MW5s	<0.5	<0.5	<0.5	<1.0	<20	–	–
06/30/89	W-45-MW5s	<0.5	<0.5	<0.5	<0.5	<20	–	–
07/17/89	W-46-MW5s	<0.5	<0.5	<0.5	<0.5	<20	–	–
07/20/89	W-46-MW5s	<0.5	<0.5	<0.5	<0.5	<20	–	–
07/26/89	W-46-MW5s	<0.5	<0.5	<0.5	<0.5	<20	–	–
08/02/89	W-47-MW5s	<0.5	<0.5	<0.5	<0.5	<20	–	–
09/13/89	W-50-MW5s	<0.5	<0.5	<0.5	<0.5	<20	–	–
12/20/89	W-50-MW5s	<0.5	<0.5	<0.5	<0.5	<20	–	–
03/26/90	W-49-MW5s	<0.5	<0.5	<0.5	<0.5	<20	–	–
08/01/90	W-55-MW5s	<0.5	<0.5	<0.5	<0.5	<50	–	–
12/27/90	W-54-MW5s	<0.5	<0.5	<0.5	<0.5	<50	–	–
12/10/92			Not Sampled					
MW-6								
05/17/88	W-40-MW6	<0.5	<0.5	<0.5	<0.5	<20	–	–
06/28/88	W-38-MW6	31.8	7.5	5.4	6.7	440	–	–
07/13/88	W-42-MW6	162.3	7.7	22.5	14.1	290	–	–
08/05/88	W-42-MW6	245	5.2	47.1	23.7	1,180	–	–
09/07/88	W-43-MW6	474	16	262	136	2,920	–	–
10/24/88				Well destroyed				
MW-7 (recovery well)								
07/13/88	W-34-MW7	860	1,910	710	4,420	16,700	–	–
07/22/88	W-50-MW7	136	85	5	58	460	–	–
08/05/88	W-45-MW7	73.3	52.8	2.3	28.1	270	–	–
02/09/89	W-50-MW7	600	688	10	448	6,700	–	–
06/30/89	W-Pump-MW7	180	50	13	40	1,100	–	–
08/02/89	W-TAP-MW7	1.6	<0.5	<0.5	0.60	31	–	–
09/13/89	W-Influent	<0.5	2.6	<0.5	12	87	–	–
12/20/89	W-TAP-MW7	<0.5	<0.5	<0.5	<0.5	<20	–	–
06/20/91	W-55-MW7	<0.5	1.8	0.6	4.1	74	–	–
09/12/91	W-56-MW7	3.5	<0.5	1.7	6.8	<50	–	–
12/30/91	W-55-MW7	<0.5	<0.5	<0.5	<0.5	<50	–	–
06/08/92	W-54-MW7	<0.5	<0.5	<0.5	<0.5	<50	–	–
12/10/92			Not Sampled					

See notes on page 5 of 5.

TABLE 3
CUMULATIVE RESULTS OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES
Exxon Station 7-3399
Pleasanton, California
(page 4 of 5)

Date	Sample No.	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Total Xylenes (ppb)	TPHg (ppb)	EPA 502.2 (ppb)	EPA 524.2 (ppb)
Well No. 7 (City of Pleasanton)								
7/20/89	Well 7	–	–	–	–	–	ND*	–
8/02/89	W-TAP-CW7	–	–	–	–	–	–	ND*
3/26/90	W-TAP-MW7	<0.50	<0.50	<0.50	<0.50	<20	–	–
MW-8								
10/03/89	W-53-MW8	<0.5	<0.5	<0.5	<0.5	<20	–	–
12/20/89	W-52-MW8	<0.50	<0.50	<0.50	0.61	<20	–	–
01/31/90	W-55-MW8	<0.50	<0.50	<0.50	0.87	<20	–	–
02/09/90	W-52-MW8	<0.5	<0.5	<0.5	1.1	<20	–	–
	(Blank)	<0.5	<0.5	<0.5	<0.5	<20	–	–
03/26/90	W-55-MW8	<0.5	<0.5	<0.5	<0.5	<20	–	–
	(Blank)	<0.5	<0.5	<0.5	<0.5	<20	–	–
04/18/90	W-52-MW8	<0.50	0.58	<0.50	1.1	<20	–	–
05/17/90	W-60-MW8	<0.5	<0.5	<0.5	<0.5	<20	–	–
06/11/90	W-62-MW8	<0.5	<0.5	<0.5	<0.5	<20	–	–
08/01/90	W-61-MW8	<0.5	<0.5	<0.5	<0.5	<20	–	–
08/27/90	W-70-MW8	<0.5	<0.5	0.5	0.5	<20	–	–
09/28/90	W-71-MW8	<0.5	<0.5	<0.5	0.5	<50	–	–
12/27/90	W-67-MW8	<0.5	<0.5	<0.5	0.6	<50	–	–
03/20/91	W-60-MW8	<0.5	<0.5	<0.5	<0.5	<50	–	–
06/20/91	W-88-MW8	<0.5	<0.5	<0.5	0.6	<50	–	–
10/14/91	W-99-MW8	<0.5	<0.5	<0.5	<0.5	<50	–	–
12/30/91	W-81-MW8	<0.5	<0.5	<0.5	<0.5	<50	–	–
03/24/92	W-76-MW8	<0.5	<0.5	<0.5	<0.5	<50	–	–
06/08/92	W-92-MW8	<0.5	<0.5	<0.5	<0.5	<50	–	–
09/16/92	W-91-MW8	<0.5	0.9	<0.5	<0.5	<50	–	–
12/10/92	W-82.0-MW8	<0.5	0.6	<0.5	<0.5	<50	–	–
MW-9								
10/13/89	W-50-MW9	1,000	9,200	3,000	13,000	89,000	–	–
12/20/89	W-50-MW9	6,300	31,000	9,500	55,000	190,000	–	–
01/25/90	W-50-MW9	2,400	9,400	2,700	15,000	77,000	–	–
02/27/90	W-50-MW9	1,200	7,100	2,300	14,000	97,000	–	–
03/26/90	W-49-MW9	1,800	7,700	2,000	11,000	89,000	–	–
04/18/90	W-49-MW9	2,000	7,500	2,500	16,000	110,000	–	–
05/17/90	W-50-MW9	1,500	5,700	2,300	14,000	81,000	–	–
06/20/91	W-19-MW9	<0.5	<0.5	<0.5	<0.5	430	–	–
12/10/92			Not Accessible					

See notes on page 5 of 5.

TABLE 3
CUMULATIVE RESULTS OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES
Exxon Station 7-3399
Pleasanton, California
(page 5 of 5)

Date	Sample No.	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Total Xylenes (ppb)	TPHg (ppb)	EPA 502.2 (ppb)	EPA 524.2 (ppb)
MW-10								
10/12/89	W-52-MW10	<0.5	<0.5	<0.5	1.5	20	–	–
12/20/89	W-52-MW10	<0.5	<0.5	<0.5	1.8	<20	–	–
3/26/90	W-51-MW10	<0.5	<0.5	<0.5	<0.5	<20	–	–
8/01/90	W-57-MW10	<0.5	<0.5	<0.5	<0.5	<20	–	–
12/10/92			Dry					
VR-1								
03/24/92	W-25-VR1	1.7	<0.5	<0.5	<0.5	<50	–	–
12/10/92			Not Sampled					
MW-11								
11/16/89	W-51-MW11	4.1	9.4	0.74	20	150	–	–
12/20/89	W-50-MW11	7.2	7.5	2.9	13	150	–	–
3/26/90	W-50-MW11	<0.5	<0.5	<0.5	2.7	32	–	–
7/30/90	W-54-MW11	<0.5	<0.5	<0.5	3.8	26	–	–
12/10/92			Not Sampled					
Jan. 1990								
MCLs	—	1.0	-.-	680	1,750	–	–	–
DWALs	—	-.-	100	—	—	–	–	–

TPHg	:	total petroleum hydrocarbons as gasoline by EPA modified Method 8015
EPA 502.2	:	EPA Method 502.2 (volatile organic compounds)
EPA 524.2	:	EPA Method 524.2 (volatile organic compound)
<	:	Less than the method detection limits of the laboratory
–	:	Not analyzed or not applicable
ND	:	Nondetectable or below the method detection limit(s) of the laboratory
*	:	Nondetectable concentrations for 58 volatile organic compounds
MCLs	:	Adopted Maximum Contaminant Levels in Drinking Water, DHS (July 1989)
DWALs	:	Recommended Drinking Water Action Levels, DHS (January 1990)

Sample designation: W-54-MW11
- W — water
- 54 — depth of sample to the nearest foot
- MW11 — monitoring well number

TABLE 4
CUMULATIVE RESULTS OF FIELD ORGANIC VAPOR MEASUREMENTS
Exxon Station 7-3399
Pleasanton, California
(page 1 of 2)

Date	Influent	between canister 1 & 2	between canister 2 & 3	Effluent
10/22/92	280	NM	0	0
10/23/92	90	NM	0	0
10/26/92	145	NM	10	0
10/27/92	190	NM	10	0
10/28/92	270	NM	30	10
11/02/92	120	NM	40	0
11/03/92	210	10	20	0
11/04/92	**129.5**	**6.8**	**0**	**0**
11/05/92	20	0	0	0
11/09/92	**76.4**	**4.1**	**0**	**0**
11/10/92	100	20	10	0
11/13/92	**49.5**	**3.1**	**0**	**0**
11/16/92	**45.9**	**5.2**	**2.4**	**0**
11/17/92	110	30	0	0
11/18/92	100	30	5	0
11/19/92	**83.4**	**4.5**	**2.4**	**0**
11/20/92	90	20	20	15
11/23/92	**93**	**10.1**	**1.4**	**0**
11/24/92	**115.4**	**5.6**	**1.4**	**0**
11/25/92	**105.3**	**16.2**	**4.9**	**0**
11/30/92	**161.2**	**4.2**	**2.7**	**0**
12/01/92	**14.7**	**6.9**	**3.3**	**0**
12/02/92	20	20	10	0
12/03/92	70	20	10	0

See notes on page 2 of 2.

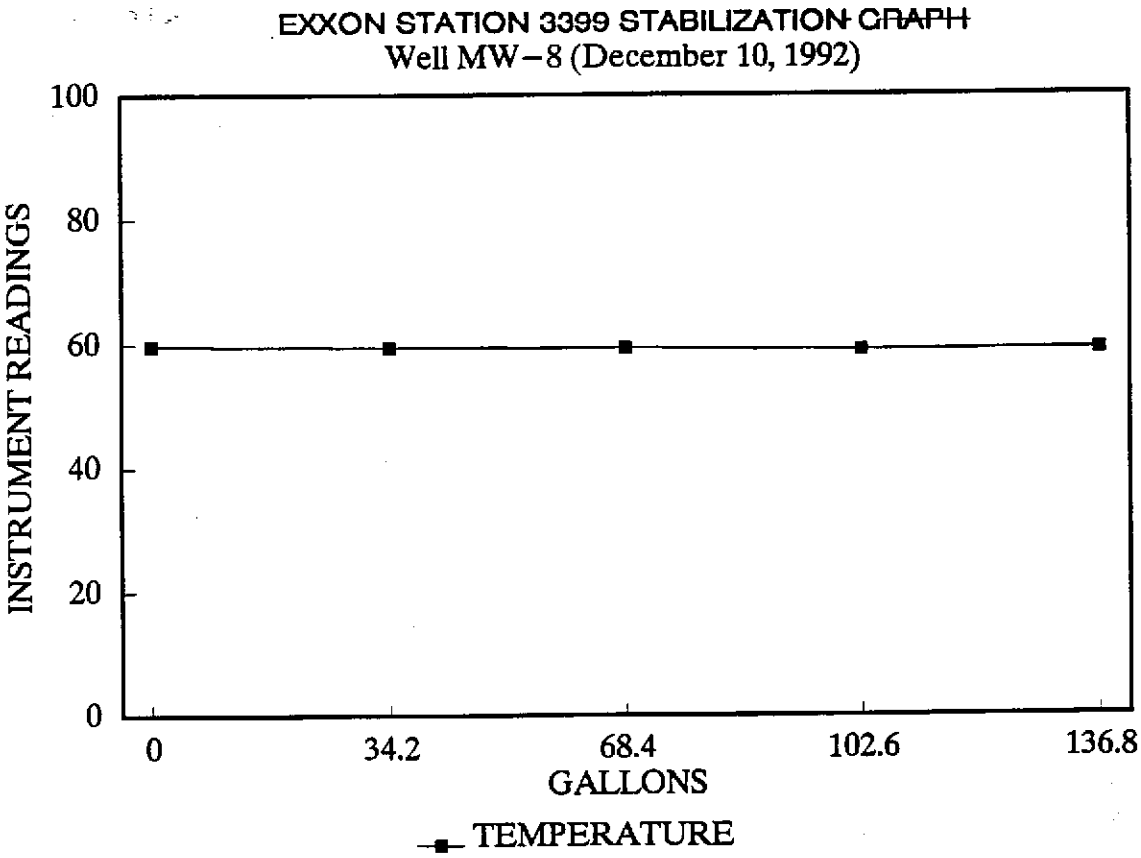
TABLE 4
CUMULATIVE RESULTS OF FIELD ORGANIC VAPOR MEASUREMENTS
Exxon Station 7-3399
Pleasanton, California
(page 2 of 2)

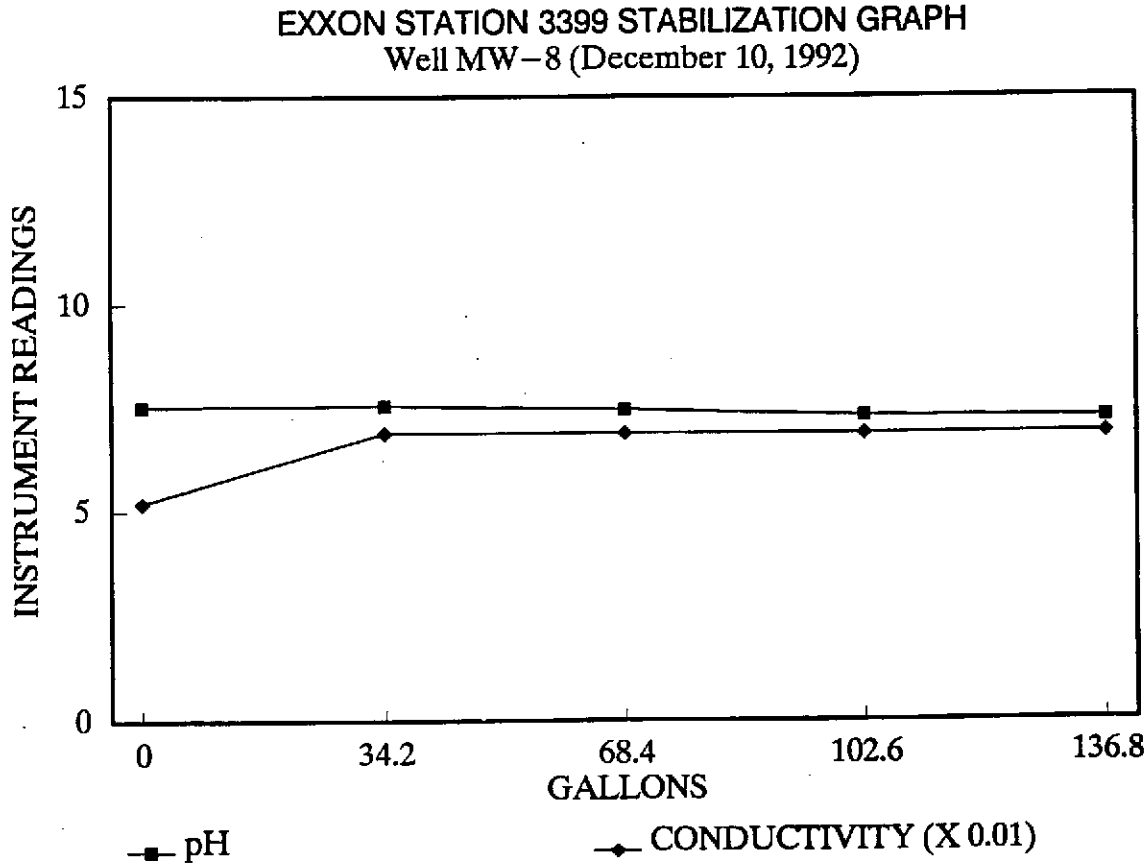
Date	Influent	between canister 1 & 2	between canister 2 & 3	Effluent
12/11/92	**7.8**	**9.0**	**4.8**	**0**
12/16/92	**2.5**	**3.2**	**1.6**	**0**
12/21/92	**74.8**	**5.7**	**2.8**	**0**
12/31/92	**2.4**	**6.6**	**10.8**	**0**
01/05/93	**0.2**	**0.2**	**1.6**	**0**
01/11/93	**30.8**	**7.4**	**24.4**	**0**
01/21/93	**0.8**	**4.4**	**0**	**0**

Field Measurements in parts per million on Flame Ionization Meter (FID) or Photoionization Meter (PID). FID readings are non-methane measurements.

Measurements in bold were taken with the PID.

NM : No Measurement. Only two carbon canisters on-series


EXXON STATION 3399 STABILIZATION GRAPH
Well MW-8 (December 10, 1992)
INSTRUMENT READINGS
100
80
60
40
20
0
0
34.2
68.4
102.6
136.8
GALLONS
TEMPERATURE

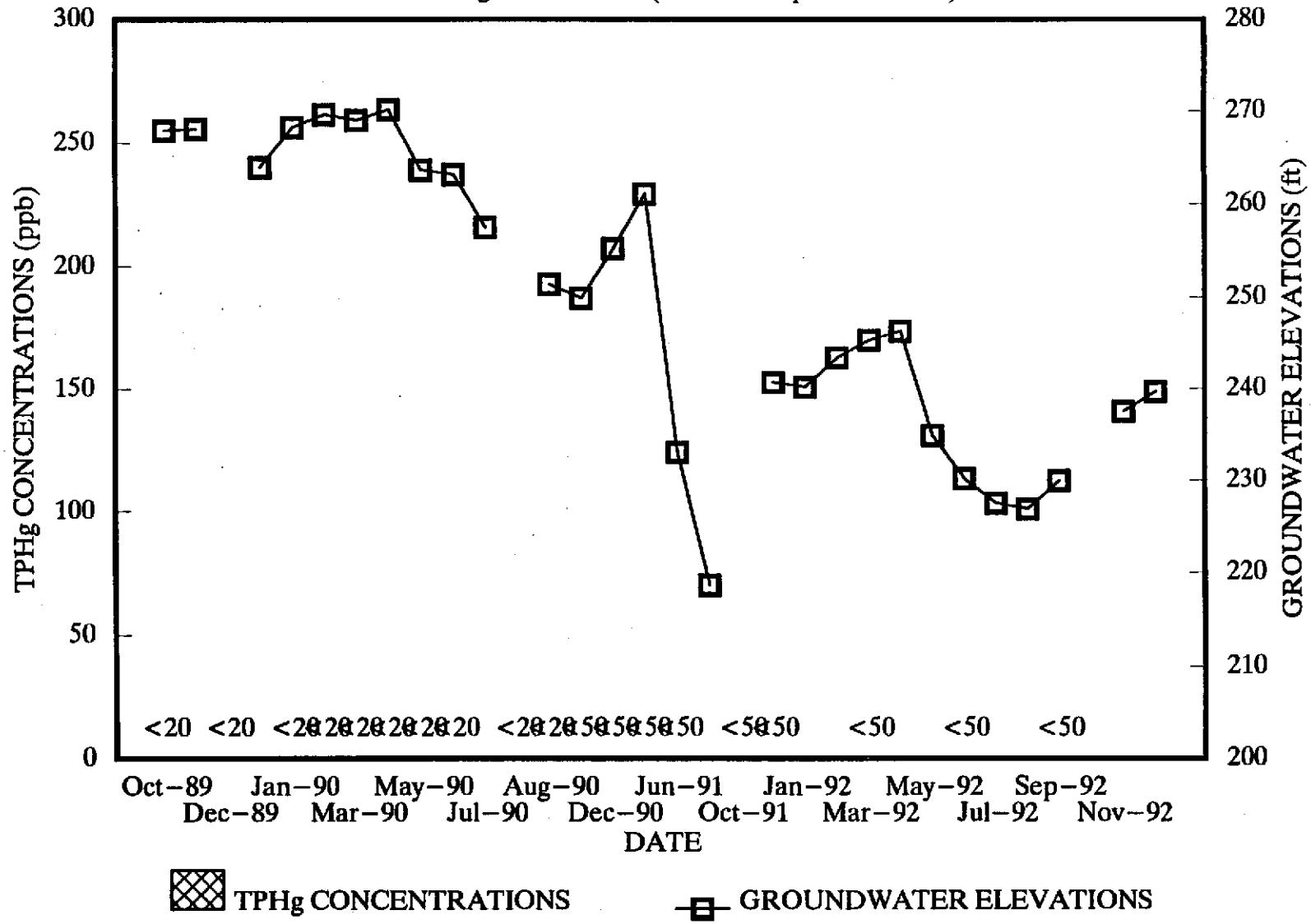

EXXON STATION 3399 STABILIZATION GRAPH
Well MW-8 (December 10, 1992)
INSTRUMENT READINGS
15
10
5
0
0
34.2
68.4
102.6
136.8
GALLONS
pH
CONDUCTIVITY (X 0.01)

APPENDIX B

HYDROGRAPH AND TPHg CONCENTRATION GRAPHS

EXXON 7-3399 HYDROGRAPH AND TPHg CONCENTRATION GRAPH 1989-92

Monitoring Well MW-8 (Installed September 1989)



APPENDIX C

CHAIN OF CUSTODY RECORDS AND LABORATORY ANALYSIS REPORTS

pace
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THE ASSURANCE OF QUALITY

REPORT OF LABORATORY ANALYSIS

December 21, 1992

Mr. Marc Briggs
Resna/Applied Geosystems
3315 Almaden Expressway Suite 34
San Jose, CA 95118

RE: PACE Project No. 421214.502
Client Reference: Exxon 7-3399 (EE)

Dear Mr. Briggs:

Enclosed is the report of laboratory analyses for samples received December 14, 1992.

Footnotes are given at the end of the report.

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

Sincerely,

Stephanie Matzo

Stephanie Matzo
Project Manager

Enclosures

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

pace INCORPORATED
THE ASSURANCE OF QUALITY

REPORT OF LABORATORY ANALYSIS

Resna/Applied Geosystems
3315 Almaden Expressway Suite 34
San Jose, CA 95118

December 21, 1992
PACE Project Number: 421214502

Attn: Mr. Marc Briggs

Client Reference: Exxon 7-3399 (EE)

PACE Sample Number:			70 0264162	
Date Collected:			12/10/92	
Date Received:			12/14/92	
			BB1	
Parameter	Units	MDL		DATE ANALYZED
ORGANIC ANALYSIS				
PURGEABLE FUELS AND AROMATICS				
TOTAL FUEL HYDROCARBONS, (LIGHT):			-	12/17/92
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND	12/17/92
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	12/17/92
Benzene	ug/L	0.5	ND	12/17/92
Toluene	ug/L	0.5	1.0	12/17/92
Ethylbenzene	ug/L	0.5	ND	12/17/92
Xylenes, Total	ug/L	0.5	ND	12/17/92

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

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REPORT OF LABORATORY ANALYSIS

December 21, 1992
PACE Project Number: 421214502

Client Reference: Exxon 7-3399 (EE)

PACE Sample Number:			70 0264170	
Date Collected:			12/10/92	
Date Received:			12/14/92	
Client Sample ID:			W-82.0-MW8	
Parameter	Units	MDL		DATE ANALYZED
ORGANIC ANALYSIS				
PURGEABLE FUELS AND AROMATICS				
TOTAL FUEL HYDROCARBONS, (LIGHT):			-	12/17/92
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND	12/17/92
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	12/17/92
Benzene	ug/L	0.5	ND	12/17/92
Toluene	ug/L	0.5	0.6	12/17/92
Ethylbenzene	ug/L	0.5	ND	12/17/92
Xylenes, Total	ug/L	0.5	ND	12/17/92

These data have been reviewed and are approved for release.

Darrell C. Cain
Regional Director

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

Mr. Marc Briggs
Page 3

FOOTNOTES
for pages 1 through 2

December 21, 1992
PACE Project Number: 421214502

Client Reference: Exxon 7-3399 (EE)

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

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

Client Reference: Exxon 7-3399 (EE)

PURGEABLE FUELS AND AROMATICS
Batch: 70 17650
Samples: 70 0264162, 70 0264170

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	408	102%	105%	2%
Benzene	ug/L	0.5	40.0	104%	106%	1%
Toluene	ug/L	0.5	40.0	108%	108%	0%
Ethylbenzene	ug/L	0.5	40.0	113%	113%	0%
Xylenes, Total	ug/L	0.5	80.0	113%	112%	0%

Mr. Marc Briggs
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FOOTNOTES
for page 4

December 21, 1992
PACE Project Number: 421214502

Client Reference: Exxon 7-3399 (EE)

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

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

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THE ASSURANCE OF QUALITY

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

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

EXXON COMPANY, U.S.A.

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

CHAIN OF CUSTODY

Consultant Name: Resna
Address: 42501 Albrae St Fremont CA.
Project Contact: Marc Briggs Project #: 18034-15
Phone #: 1-800-926-0815 Fax #:
Consultant Work Release #: 92049223

Exxon Contact: Marla Guenster Phone #:
Site RAS #: 7-3399
Site Location: 2291 Hopyard, Pleasanton.
Laboratory Work Release #:

Sampled by (please print): Robin A. Adair 12-10-92
Sampler Signature: Robin A. Adair Date Sampled

Sample Description	Collection Date/Time	Matrix	Prsv.	# of Cont.	SOIL: TPH/GAS/BTEX EPA 8015/8020	SOIL: TPH/Diesel EPA 8015	SOIL: Organic Lead DHS Method	WATER: TPH/GAS/BTEX EPA 8015/602	WATER: TPH/Diesel EPA 8015	WATER: Organic Lead DHS Method	TRPH EPA 418.1	Total Oil & Grease SM 5520					Remarks
BB1	12-10-92 1:25	1	HCl	3				[redacted]					264	16.2			[redacted]
		1												17.0			NOTE: Please run these bailer blanks along with MW 8. Thank You
W-820-MW8	1:30	W	HCl	3				[redacted]						"			
		1															

Cooler No.	Relinquished by/Affiliation	Accepted by/Affiliation	Date	Time
Cooler Seal Intact ☐ Yes ☐ No	Robin A. Adair, Resna	Sheryl Garrett RESNA	12-11-92	7:00 AM
	Sheryl Garrett	Ed Batty/Pace	12-14-92	12:20 P
	Ed Batty/Pace	Jim Cap/Pace	12/14	1330

Turnaround Time (circle choice): 24 hr. 48 hr. 72 hr. 96 hr. (5 workday) (standard)

Shipment Method:

Shipment Date:

Additional Comments:

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

205.4121/4

pace INCORPORATED
THE ASSURANCE OF QUALITY

REPORT OF LABORATORY ANALYSIS

Resna/Applied Geosystems
3315 Almaden Expressway Suite 34
San Jose, CA 95118

October 19, 1992
PACE Project Number: 421012503

Attn: Mr. Marc Briggs

Client Reference: Exxon 7-3399 (EE)

PACE Sample Number:			70 0223571	
Date Collect:			10/12/92	
Date Received:			10/12/92	
Client Sample ID:			A-S1-Inf	
Parameter	Units	MDL		DATE ANALYZED
ORGANIC ANALYSIS				
GASOLINE AND AROMATICS IN AIR				
Purgeable Fuels, as Gasoline (EPA 8015M)	mg/m3	50	97	10/14/92
Volatile Aromatic Compounds (EPA 8020M):			-	10/14/92
- Benzene	mg/m3	0.5	ND	10/14/92
- Toluene	mg/m3	0.5	0.7	10/14/92
- Ethylbenzene	mg/m3	0.5	ND	10/14/92
- Xylenes, Total	mg/m3	0.5	0.7	10/14/92

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

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

REPORT OF LABORATORY ANALYSIS

Mr. Marc Briggs
Page 2

October 19, 1992
PACE Project Number: 421012503

Client Reference: Exxon 7-3399 (EE)

Parameter	Units	MDL	70 0223580 10/12/92 10/12/92 A-S2- Carbon	DATE ANALYZED
PACE Sample Number:				
Date Collected:				
Date Received:				
Client Sample ID:				
ORGANIC ANALYSIS				
GASOLINE AND AROMATICS IN AIR				
Purgeable Fuels, as Gasoline (EPA 8015M)	mg/m3	50	ND	10/14/92
Volatile Aromatic Compounds (EPA 8020M):			-	10/14/92
- Benzene	mg/m3	0.5	ND	10/14/92
- Toluene	mg/m3	0.5	ND	10/14/92
- Ethylbenzene	mg/m3	0.5	ND	10/14/92
- Xylenes, Total	mg/m3	0.5	1.0	10/14/92

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

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

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REPORT OF LABORATORY ANALYSIS

October 19, 1992
PACE Project Number: 421012503

Client Reference: Exxon 7-3399 (EE)

PACE Sample Number:			70 0223598	
Date Collected:			10/12/92	
Date Received:			10/12/92	
Client Sample ID:			A-S3-Eff	
Parameter	Units	MDL		DATE ANALYZED
ORGANIC ANALYSIS				
GASOLINE AND AROMATICS IN AIR				
Purgeable Fuels, as Gasoline (EPA 8015M)	mg/m3	50	ND	10/14/92
Volatile Aromatic Compounds (EPA 8020M):			-	10/14/92
- Benzene	mg/m3	0.5	ND	10/14/92
- Toluene	mg/m3	0.5	ND	10/14/92
- Ethylbenzene	mg/m3	0.5	ND	10/14/92
- Xylenes, Total	mg/m3	0.5	0.7	10/14/92

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

These data have been reviewed and are approved for release.

Darrell Cerifor

Mark A. Valentini, Ph.D.
Regional Director

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

REPORT OF LABORATORY ANALYSIS

QUALITY CONTROL DATA

Client Reference: Exxon 7-3399 (EE)

GASOLINE AND AROMATICS IN AIR
Batch: 70 16283
Samples: 70 0223571, 70 0223580, 70 0223598

METHOD BLANK:

Parameter	Units	MDL	Method Blank
Purgeable Fuels, as Gasoline (EPA 8015M	mg/m3	50	ND
Volatile Aromatic Compounds (EPA 8020M)			-
- Benzene	mg/m3	0.5	ND
- Toluene	mg/m3	0.5	ND
- Ethylbenzene	mg/m3	0.5	ND
- Xylenes, Total	mg/m3	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	mg/m3	50	486	90%	94%	4%
- Benzene	mg/m3	0.5	64.6	95%	84%	12%
- Toluene	mg/m3	0.5	74.6	93%	84%	10%
- Ethylbenzene	mg/m3	0.5	85.8	93%	87%	6%
- Xylenes, Total	mg/m3	0.5	260	92%	81%	12%

MDL Method Detection Limit
RPD Relative Percent Difference

pace INCORPORATED THE ASSURANCE OF QUALITY

EXXON COMPANY, U.S.A.

4L1012.505

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

CHAIN OF CUSTODY

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

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

Consultant's Name: RESNA

Page 1 of 1

Address: 3315 ALMADEN EXPRESSWAY #34 SAN JOSE, CA. 95118

Site Location: 2991 HUMANS RD, PLEASANTON CA.

Project #: 62035.01

Consultant Project #:

Consultant Work Release #: 9264/9223 Co#1

Project Contact: ~~MARIA GUENSLER~~ MARC BARES

Phone #: (408) 264-7727 Fax #: 264-2435

Laboratory Work Release #:

EXXON Contact: MARIA GUENSLER ☑ EE ☐ C&M

Phone #: Fax #:

EXXON RAS #: 7-7399

Sampled by (print): PATRICK CAMP

Sampler's Signature:

Shipment Method: PACE COURIER

Air Bill #:

Shipment Date: 10/12/92

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										COMMENTS
A-S1-INF	10/12/92 10:20	AIR		1	22357.1	✓												
A-S2 CARBON	10/12 10:15			1	58.0	✓												PLEASE REPORT RESULTS IN MG/M³
A-S3-EFF	10/12 10:20			1	59.8	✓												72 HR. HOLDING TIME
GCMS/L																		

Relinquished by/Affiliation	Date	Time	Accepted by/Affiliation	Date	Time
RESNA	10/12/92	1115	[signature] PACE	10/12	1115
[signature] PACE	10/12	1420	[signature] COURIER/PACE	10/12	1420

Additional Comments:

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