

Ultramar

Ultramar Inc.
P.O. Box 466
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Hanford, CA 93232-0466
(209) 582-0241

93 JAN 15 11 10 AM '92

Telecopy: 209-584-6113 Credit & Wholesale
209-583-3330 Administrative
209-583-3302 Information Services
209-583-3358 Accounting

December 23, 1992

Mr. Donald D. Dalke
San Francisco Bay Region
Regional Water Quality Control Board
2101 Webster Street, Suite 500
Oakland, CA 94612

**SUBJECT: BEACON STATION NO. 720, 1088 MARINA BLVD., SAN LEANDRO,
CALIFORNIA**

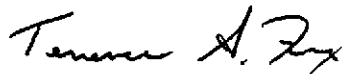
Dear Mr. Dalke:

Enclosed is a copy of the report on quarterly ground-water monitoring for the second quarter 1992 for the above-referenced Ultramar facility. Please excuse the delay in getting it to you. Also included is a copy of the Quarterly Status Report which describes the work completed in this quarter and the anticipated to be completed in the next quarter.

A ground-water sample was collected from MW-6 and analyzed for pH. The results indicate that the pH of the water in the vicinity of MW-6 is 11.85. The origin of the high pH is not known.

Sincerely,

ULTRAMAR INC.



Terrence A. Fox
Senior Project Manager
Marketing Environmental Department

Enclosure: Ground-Water Sampling Report
Quarterly Status Report

cc w/encl: Mr. Rafat Shahid
Division of Hazardous Materials
Alameda County Health Care Services
80 Swan Way, Room 200
Oakland, CA 94621



A Member of the Ultramar Group of Companies

BEACON
#1 Quality and Service

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ENVIRONMENTAL PROJECT QUARTERLY STATUS REPORT

DATE REPORT SUBMITTED: December 23, 1992
QUARTER ENDING: June 30, 1992

SERVICE STATION NO.: 720
ADDRESS: 1088 Marina Blvd., San Leandro, CA
COUNTY: Alameda

ULTRAMAR CONTACT: Terrence A. Fox

TEL. NO: 209-583-5545

BACKGROUND:

In January 1987, three underground gasoline storage tanks and one waste oil tank were excavated and removed from two tank cavities. Samples collected from beneath the former tanks indicated that hydrocarbons were present in the soil. In March 1987, five monitoring wells (MW-1 through MW-5) were installed by Conoco. Hydrocarbons were detected in soil and ground-water samples collected from the wells with the highest concentrations being detected in the area of MW-4. In July 1987, four soil were drilled in the vicinity of MW-4 to further characterize the soil contamination in that area. TPH concentrations above 100 ppm were detected in each boring. The site has been on a monitoring program since June 1987.

In July 1990, the site was purchased by Ultramar Inc. from Conoco. The monitoring program has continued.

In August 1991, perform shallow ground water study as screening tool to locate wells.

In October 1991, installed three additional wells to further define the extent of the dissolved hydrocarbon plume.

SUMMARY OF THIS QUARTER'S ACTIVITIES:

Performed quarterly monitoring on July 1, 1992.



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RESULT OF QUARTERLY MONITORING:

Monitoring data indicates that the benzene concentration increased in MW-1 from 630 ppb to 840 ppb, in MW-2 from 2,300 ppb to 3,500 ppb, and in MW-8 from 1,700 ppb to 1,800 ppb. The benzene concentration decreased in MW-3 from 560 ppb to 150 ppb, in MW-4 from 8,000 ppb to 6,900 ppb, in MW-5 from 2,600 ppb to 2,400 ppb, and in MW-6 from 2.1 ppb to not detected.

A sample from MW-6 was also analyzed by the laboratory for pH and results indicate a pH of 11.85.

PROPOSED ACTIVITY OR WORK FOR NEXT QUARTER:

<u>ACTIVITY</u>	<u>ESTIMATED COMPLETION DATE</u>
Continue quarterly monitoring program	

**QUARTERLY GROUNDWATER MONITORING
SECOND QUARTER 1992
BEACON STATION NO. 720
1088 MARINA BOULEVARD
SAN LEANDRO, CALIFORNIA
FOR
ULTRAMAR, INC.**

**NO. EU-501/E189-01
OCTOBER 22, 1992**

**ENVIRONMENTAL GEOTECHNICAL CONSULTANTS, INC.
CONSULTANTS IN APPLIED EARTH SCIENCE**



ENVIRONMENTAL GEOTECHNICAL CONSULTANTS, INC.

4229 NORTHGATE BOULEVARD, SUITE #3, SACRAMENTO, CALIFORNIA 95834
TELEPHONE (916) 925-4789 • FAX (916) 925-5973

No. EU-501/E189-01
October 22, 1992

Ultramar, Inc.
525 W. Third Street
Hanford, California 93232-0466

Attention: Mr. Terrence A. Fox

SUBJECT: Quarterly Groundwater Monitoring, Second Quarter 1992, Beacon Station No. 720, 1088 Marina Boulevard, San Leandro, California

Dear Mr. Fox:

Environmental Geotechnical Consultants, Inc., (EGC) is pleased to present the results of quarterly groundwater monitoring at the above-referenced site. This work was authorized by Ultramar, Inc., (Ultramar) as your Task Order Number 720-11-0000-C. Sampling and analysis were conducted in accordance with EGC's "Groundwater Sampling and Analysis" Protocols, included as Appendix A.

The location of the subject site is shown in Figure 1. ~~On July 1, 1992, water levels were measured and samples were obtained from each of~~ the eight groundwater monitoring wells at the site. The locations of the wells and other site features are shown on Figure 2. Water purged from the wells before sampling was placed in one labelled 55-gallon drum which is being stored at the site. The samples were transported under chain-of-custody protocol for laboratory analysis. Samples were analyzed for Total Petroleum Hydrocarbons as Gasoline (TPH-G) by standard method GC FID/5030 and Benzene, Toluene, Ethylbenzene and Total Xylenes (BTEX) by Environmental Protection Agency (EPA) method 602. Laboratory analyses were conducted by Applied Analytical Environmental Laboratories of Fremont, California, a laboratory certified by the State of California to conduct the analyses.

Discussion

Groundwater elevations were measured prior to purging the monitoring wells and sampling groundwater. The groundwater levels appeared to be generally about 1.0 foot lower than first quarter 1992. However in monitoring well MW-4 the water level was approximately 2.0 feet lower than first quarter 1992. The groundwater elevation reported for monitoring well MW-4 appears to be anomalous and while Figure 2 has been drawn to reflect the

data, EGC feels that further monitoring over the ensuing quarters will confirm the anomalous nature of the current MW-4 data. The groundwater gradient on July 1, 1992, was generally directed towards the northwest at a magnitude of approximately 0.015-foot per foot (see Figure 2). This direction is different from the southwest direction revealed in the first quarter monitoring. Groundwater elevation data are summarized in Table 1.

Figure 3 represents an interpretive isopleth map of benzene concentrations in groundwater beneath the subject site. Laboratory analytical results indicate that the maximum concentration of benzene is highest in monitoring well MW-4. Laboratory analytical result also indicate a pH level of 11.85 in the groundwater sample obtained from off-site well MW-6.

The analytical results for TPH-G and BTEX are summarized in Table 2. Laboratory analytical reports are included as Appendix B.

Reporting Responsibility

Responsibility for the reporting of these results to the regulatory agencies guiding this project lies with Ultramar. EGC therefore recommends that Ultramar provide this report to the following agencies:

Guidance Agencies

Regional Water Quality Control Board
San Francisco Bay Region
Toxics Cleanup Division
2101 Webster Street, Suite 500
Oakland, CA 94612
Attention: Mr. Donald D. Dalke, Chief

Alameda County Department of Environmental Health
Division of Hazards Materials
80 Swan Way, Room 200
Oakland, California 94621
Attention: Mr. Lowell Miller

LIMITATIONS

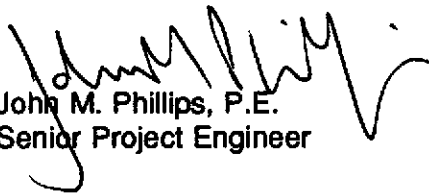
The scope of work for this project was strictly limited to the sampling and analysis of groundwater and the preparation of this report. Our services have been performed in accordance with generally accepted geoenvironmental consulting practice. No other


representation, express or implied, and no warranty or guarantee is included or intended as to professional opinions, the recommendations or the laboratory analytical results provided.

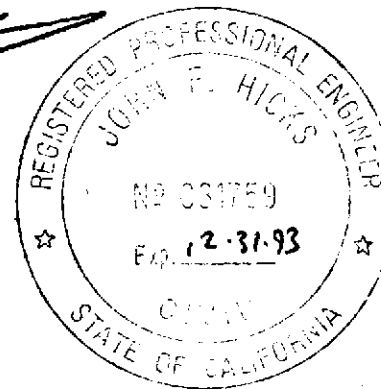
EGC appreciates the opportunity to work with you. Please call us if you have any questions.

Very truly yours,

ENVIRONMENTAL GEOTECHNICAL
CONSULTANTS, INC.

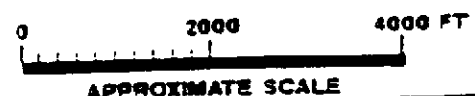

John M. Phillips, P.E.
Senior Project Engineer


John F. Hicks, P.E.
Principal
C-31759, Exp. 12/31/93



vvk

- Attachments: Figure 1--Project Site Location Map
Figure 2--Groundwater Gradient Map
Figure 3--Isopleth Map of Benzene Contamination in Groundwater
- Table 1--Summary of Groundwater Analytical Results
Table 2--Groundwater Elevations
- Appendix A--Groundwater Sampling and Analysis Protocols
Appendix B--Chain of Custody Record and Laboratory Analytical Results



NOTES

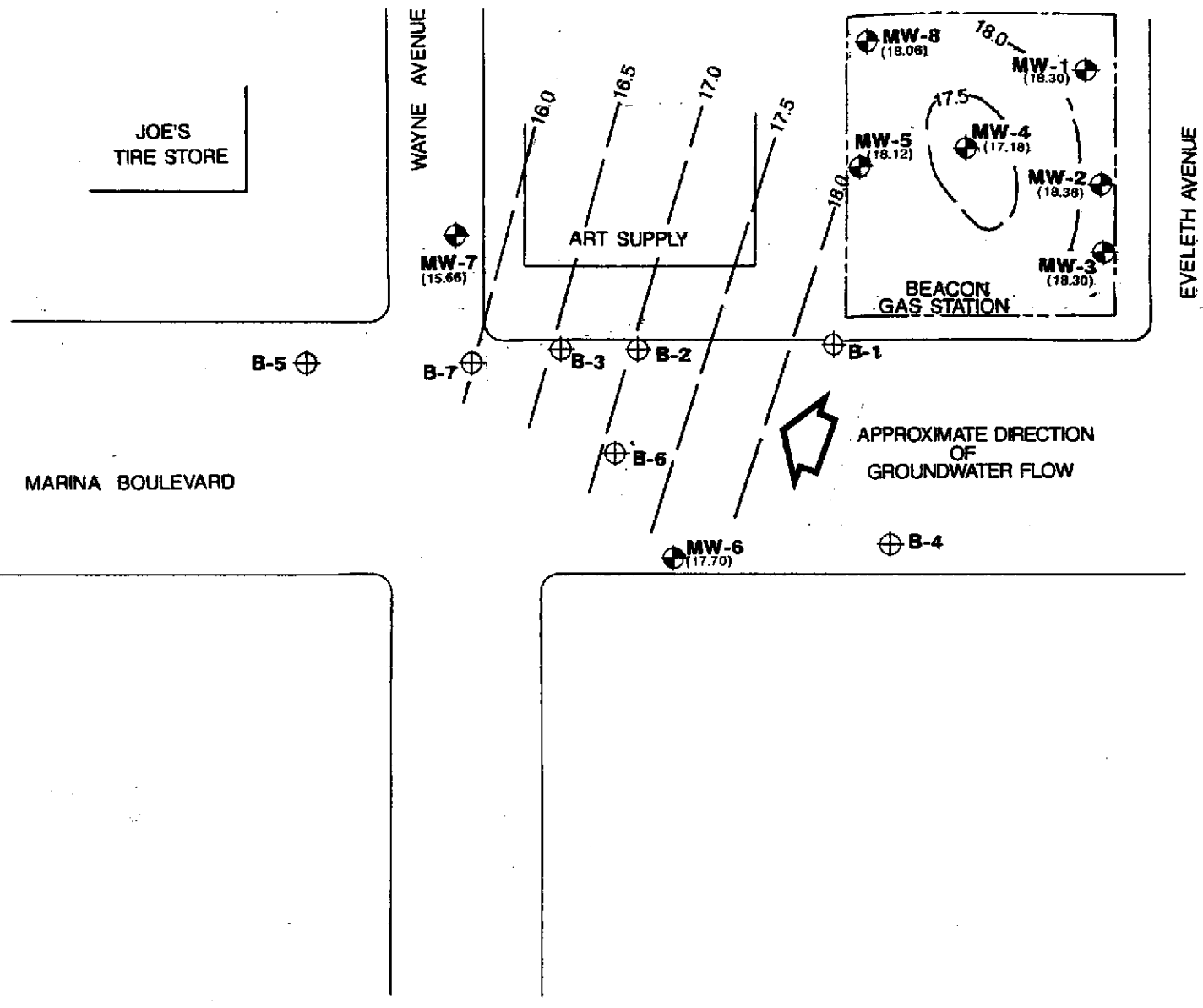
1. BASE MAP TAKEN FROM USGS
 SAN LEANDRO, CALIFORNIA 7.5
 MINUTE TOPOGRAPHIC
 QUADRANGLE (1980)

DATE	08/92
JOB NO.	E189-01
DRAWN BY	E189-01/1
DESIGNED BY	G BENAVIDES
CHECKED BY	J HOLMES
APPROVED BY	O POINDEXTER

EGC ENVIRONMENTAL GEOTECHNICAL CONSULTANTS, INC.
 CONSULTANTS IN APPLIED EARTH SCIENCE

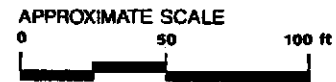
PROJECT SITE LOCATION MAP
 1088 MARINA BLVD., SAN LEANDRO, CALIFORNIA
 ULTRAMAR, INC.

FIGURE NO.
1
 SHEET NO.



LEGEND

- MW-8 (18.38) MONITORING WELL WITH GROUNDWATER ELEVATION IN FEET
- B-7 EXPLORATORY BORING
- 18.0 GROUNDWATER SURFACE CONTOUR
- APPROXIMATE DIRECTION OF GROUNDWATER FLOW ON 07/01/92



NO.	DATE	ZONE	DESCRIPTION	DRAWN	APPROVED
REVISIONS					

NOTES

PROFESSIONAL SEAL

DATE	08/92
JOB NO.	E 189-01
DRAWN	M KROPP
CHECKED	J PHILLIPS
APPROVED	J HICKS

EGC ENVIRONMENTAL GEOTECHNICAL CONSULTANTS, INC.
CONSULTANTS IN APPLIED EARTH SCIENCE

GROUNDWATER GRADIENT MAP

1088 MARINA BLVD., SAN LEANDRO, CALIFORNIA

ULTRAMAR, INC.

FIGURE NO. **2**



JOE'S TIRE STORE

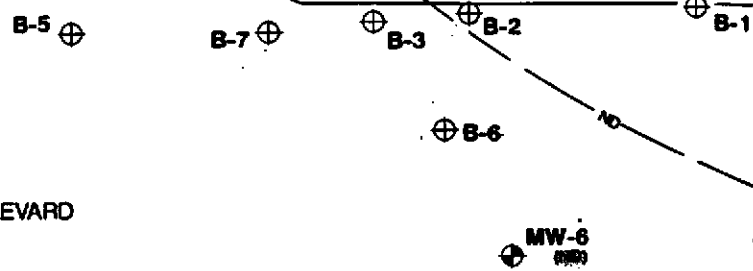
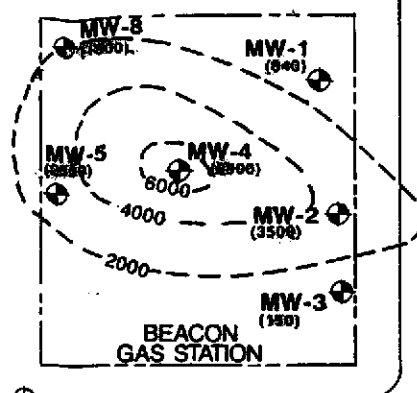
WAYNE AVENUE

ART SUPPLY

BEACON GAS STATION

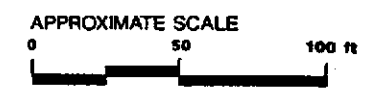
EVELETH AVENUE

MARINA BOULEVARD



LEGEND

- MW-8 (1800) MONITORING WELL WITH BENZENE CONCENTRATION (ppb)
- B-7 EXPLORATORY BORING
- 8000 ISOPLETH OF BENZENE CONTAMINATION IN PARTS PER BILLION
- (ND) NON DETECT



NO.	DATE	ZONE	DESCRIPTION	DRAWN	APPROVED
REVISIONS					

NOTES

PROFESSIONAL SEAL

DATE 06/92
 JOB NO. E189-01
 DRAW NO. E189-01/03
 DRAWN M KROPF
 CHECKED J PHILLIPS
 APPROVED J HICKS

EGC ENVIRONMENTAL GEOTECHNICAL CONSULTANTS, INC.
 CONSULTANTS IN APPLIED EARTH SCIENCE

ISOPLETH MAP OF BENZENE CONCENTRATIONS IN GROUNDWATER
 1088 MARINA BLVD., SAN LEANDRO, CALIFORNIA
 ULTRAMAR, INC.

FIGURE NO. **3**
 REV. NO.

TABLE 1
GROUNDWATER ELEVATIONS
Page 1 of 5

Date Sampled	Depth to Groundwater (Feet)	Groundwater Elevation (Feet)
Groundwater Monitoring Well MW-1:		Elevation of Top of Casing = 29.89 feet
June 23, 1987	14.79	15.10
July 06, 1987	14.93	14.96
August 06, 1987	14.22	15.67
November 04, 1987	15.74	14.15
February 02, 1988	13.99	15.90
May 02, 1988	14.99	14.90
November 21, 1988	13.03	16.86
February 14, 1989	15.86	14.03
May 02, 1989	14.77	15.12
August 10, 1989	16.35	13.54
November 08, 1989	16.46	13.43
February 20, 1990	15.58	14.31
May 18, 1990	16.40	13.49
September 15, 1990	16.83	13.06
November 26, 1990	17.16	12.73
February 07, 1991	16.43	13.46
May 14, 1991	14.93	14.96
August 16, 1991	16.35	13.54
Groundwater Monitoring Well MW-1:		New Elevation of Top of Casing = 33.10 feet
December 24, 1991	17.20	15.90
March 30, 1992	13.58	19.52
July 1, 1992	14.80	18.3
Groundwater Monitoring Well MW-2:		Elevation of Top of Casing = 29.57 feet
June 23, 1987	14.51	15.06

TABLE 1
GROUNDWATER ELEVATIONS
 Page 2 of 5

Date Sampled	Depth to Groundwater (Feet)	Groundwater Elevation (Feet)
July 06, 1987	14.63	14.94
August 06, 1987	14.95	14.62
November 04, 1987	15.45	14.12
February 02, 1988	13.74	15.83
May 02, 1988	14.63	14.94
November 21, 1988	12.99	16.58
February 14, 1989	15.66	13.91
May 02, 1989	14.56	15.01
August 10, 1989	16.22	13.35
November 08, 1989	16.19	13.38
February 20, 1990	15.34	14.23
May 18, 1990	16.20	13.37
September 15, 1990	16.42	13.05
November 26, 1990	16.83	12.74
February 07, 1991	16.13	13.44
May 14, 1991	14.62	14.95
August 16, 1991	16.00	13.57
Groundwater Monitoring Well MW-2:	New Elevation of Top of Casing = 32.80 feet	
December 24, 1991	16.90	15.90
March 30, 1992	13.32	19.48
July 1, 1992	14.42	18.38
Groundwater Monitoring Well MW-3:	Elevation of Top of Casing = 29.13 feet	
June 23, 1987	14.13	15.00
July 06, 1987	14.24	14.89
August 06, 1987	14.52	14.61
November 04, 19887	15.09	14.04
February 02, 1988	13.37	15.76

TABLE 1
GROUNDWATER ELEVATIONS
Page 3 of 5

Date Sampled	Depth to Groundwater (Feet)	Groundwater Elevation (Feet)
May 02, 1988	14.22	14.91
November 21, 1988	13.01	16.12
February 14, 1989	15.22	13.91
May 02, 1989	14.16	14.97
August 10, 1989	15.61	13.52
November 08, 1989	15.75	13.38
February 20, 1990	14.95	14.18
May 18, 1990	15.79	13.34
September 15, 1990	16.07	13.06
November 26, 1990	16.36	12.77
February 07, 1991	15.74	13.39
May 14, 1991	14.19	14.94
August 16, 1991	15.55	13.58
Groundwater Monitoring Well MW-3:		New Elevation of Top of Casing = 32.30 feet
December 24, 1991	16.40	15.90
March 30, 1992	12.96	19.34
July 1, 1992	14.00	18.30
Groundwater Monitoring Well MW-4:		Elevation of Top of Casing = 29.72 feet
June 23, 1987	14.77	14.95
July 06, 1987	14.91	14.81
August 06, 1987	15.19	14.53
November 04, 1987	15.72	14.00
February 02, 1988	14.03	15.69
May 02, 1988	14.89	14.83
November 21, 1988	12.88	16.84
February 14, 1989	15.83	13.89
May 02, 1989	14.75	14.97

TABLE 1

GROUNDWATER ELEVATIONS

Page 5 of 5

Date Sampled	Depth to Groundwater (Feet)	Groundwater Elevation (Feet)
May 18, 1990	16.22	13.33
September 15, 1990	16.65	12.90
November 26, 1990	16.95	12.60
February 07, 1991	16.20	13.35
May 14, 1991	14.72	14.38
August 16, 1991	16.10	13.45
Groundwater Monitoring Well MW-5:		New Elevation of Top of Casing = 32.70 feet
December 24, 1991	16.92	15.78
March 30, 1992	13.48	19.22
July 01, 1992	14.58	18.12
Groundwater Monitoring Well MW-6:		Elevation of Top of Casing = 30.40 feet
December 24, 1991	14.12	16.28
March 30, 1992	12.62	17.78
July 01, 1992	12.70	17.70
Groundwater Monitoring Well MW-7:		Elevation of Top of Casing = 31.20 feet
December 24, 1991	15.70	15.50
March 30, 1992	12.34	18.86
July 01, 1992	15.54	15.66
Groundwater Monitoring Well MW-8:		Elevation of Top of Casing = 33.80 feet
December 24, 1991	18.00	15.80
March 30, 1992	14.66	19.14
July 01, 1992	15.74	18.06
Notes:	1) All elevations surveyed to an arbitrary datum 2) Elevations and depths are given in feet 3) Groundwater Technology, Inc., made measurements until February 1989 4) Du Pont Environmental Services collected samples from February 1989 through February 1991 5) Environmental Geotechnical Consultants, Inc., made measurements beginning in May 1991	

TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Page 1 of 5

Well No.	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TPH-G (µg/L)	Comments
	Apr. 16, 1987	2,313	3,770	664.1	3,331	17,276	
	June 23, 1987	1,887	2,141	466.7	1,652	26,027	
	July 06, 1987	778.2	943.7	133.2	422.1	3,938	
	Aug. 06, 1987	1,270	1,576	288.7	873.7	6,079	
	Nov. 04, 1987	1,700	4,000	720	2,200	15,000	
	Feb. 02, 1988	1,500	1,700	230	740	14,000	
	May 02, 1988	3,500	700	4,900	2,700	33,000	
	Nov. 21, 1988	2,200	560	2,800	2,200	15,000	
	Feb. 14, 1989	1,700	1,700	340	1,500	12,000	Odor
	May 02, 1989	1,500	2,400	510	2,400	18,000	Odor, Slight Sheen
	Aug. 10, 1989	1,400	1,500	360	1,600	10,000	Odor
	Nov. 08, 1989	920	470	190	360	7,200	Odor
	Feb. 20, 1990	810	540	270	800	3,300	
	May 18, 1990	1,900	500	560	1,600	5,600	
	Sep. 15, 1990	320	110	150	520	5,200	Odor
	Nov. 26, 1990	370	59	150	370	3,000	Odor
	Feb. 07, 1991	750	570	480	1,800	14,000	
	May 14, 1991	1,000	1,400	600	2,500	41,000	
	Aug. 16, 1991	310	210	150	480	4,000	Odor
	Dec. 24, 1991	530	95	310	680	11,000	Moderate Odor
	Mar. 30, 1992	630	550	540	1,900	27,000	Odor
		840	1,000	830	3,600	55,000	
MW-2	Apr. 16, 1987	3,131	4,239	1,067	4,608	17,920	
	June 23, 1987	2,188	2,622	1,047	4,699	49,354	
	July 06, 1987	1,575	1,729	457	1,702	8,676	
	Aug. 06, 1987	2,623	3,722	702	2,882	14,376	
	Nov. 04, 1987	2,200	4,100	900	3,500	19,000	

TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
Page 2 of 5

Well No.	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TPH-G (µg/L)	Comments
MW-2	Feb. 02, 1988	6,200	6,500	1,000	4,000	54,000	
	May 02, 1988	6,800	1,300	7,100	5,400	53,000	
	Nov. 21, 1988	--	--	--	--	--	Free product
	Feb. 14, 1989	6,900	4,300	1,100	5,200	48,000	Film of free product
	May 02, 1989	6,100	8,800	2,100	16,000	111,000	Odor, sheen
	Aug. 10, 1989	4,200	2,900	1,000	5,800	39,000	Odor, sheen
	Nov. 08, 1989	3,700	1,500	740	2,200	45,000	Odor, heavy sheen
	Feb. 20, 1990	5,000	8,200	1,600	11,000	60,000	
	May 18, 1990	6,200	1,900	1,300	610	19,000	
	Sep. 15, 1990	1,400	820	660	3,000	27,000	Odor, sheen
	Nov. 26, 1990	1,100	880	700	3,800	28,000	Odor, sheen
	Feb. 07, 1991	2,100	1,900	1,300	6,200	63,000	Odor, sheen
	May 14, 1991	2,200	2,700	1,100	5,900	100,000	Moderate odor Slight sheen
	Aug. 16, 1991	1800	950	990	3900	32,000	Slight odor, sheen
	Dec. 24, 1991	1,100	550	750	2,700	30,000	Odor, sheen
	Mar. 30, 1992	2,300	1,700	940	3,300	52,000	Odor, sheen
	July 01, 1992	3,500	2,900	1,900	7,900	130,000	
MW-3	Apr. 16, 1987	1,371	2,438	472.3	2,617	9,967	
	June 23, 1987	646.2	822.9	320.9	1,280	16,824	
	July 06, 1987	340.3	384.2	116.5	420.2	3,395	
	Aug. 06, 1987	441.9	436.3	118.2	417.3	3,107	
	Nov. 04, 1987	320	280	74	250	2,600	
	Feb. 02, 1988	2,200	2,300	500	2,300	44,000	
	May 02, 1988	1,600	450	840	1,700	14,000	
	Nov. 21, 1988	1,200	220	560	810	8,100	
Feb. 14, 1989	1,500	220	220	500	5,500	Odor	

TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Page 3 of 5

Well No.	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TPH-G (µg/L)	Comments
	Aug. 10, 1989	750	10	190	210	2,700	Odor
	Nov. 08, 1989	370	90	ND	58	2,400	Odor
	Feb. 20, 1990	1,200	810	77	460	3,700	
	May 18, 1990	980	ND	330	250	2,300	
	Sep. 15, 1990	240	36	150	230	4,700	Odor
	Nov. 26, 1990	170	8.4	86	120	1,400	Odor
	Feb. 07, 1991	220	20	120	230	2,900	
	May 14, 1991	370	39	220	820	15,000	
	Aug. 16, 1991	480	50	360	680	7,200	Slight Odor
	Dec. 24, 1991	150	20	100	140	4,900	Slight Odor
	Mar. 30, 1992	560	50	630	980	21,000	Odor
	July 01, 1992	150	20	22	300	13,000	
	Apr. 16, 1987	5,896	3,797	893.9	4,106	19,309	
	June 23, 1987	4,030	1,842	850.0	3,254	31,429	
	July 06, 1987	2,710	1,247	308.2	1,312	8,117	
	Aug. 06, 1987	3,992	1,589	447.9	1,611	10,464	
	Nov. 04, 1987	9,500	17,000	2,800	11,000	55,000	
	Feb. 02, 1988	11,000	7,400	1,400	6,200	47,000	
	May 02, 1988	9,200	1,300	6,100	6,400	58,000	
	Nov. 21, 1988	5,700	1,600	3,100	7,600	48,000	
	Feb. 14, 1989	8,700	2,500	900	3,800	29,000	Odor & sheen
	May 02, 1989	4,800	5,600	1,800	8,800	69,000	Odor, slight sheen
	Aug. 10, 1989	15,000	6,600	1,800	12,000	67,000	Odor, slight sheen
	Nov. 08, 1989	11,000	3,200	1,100	4,400	71,000	Odor, slight sheen
	Feb. 20, 1990	8,100	4,500	930	3,500	19,000	
	May 18, 1990	45,000	12,000	5,000	27,000	100,000	
	Sep. 15, 1990	4,200	1,200	740	3,000	38,000	

TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Page 4 of 5

Well No.	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TPH-G (µg/L)	Comments
MW-4	Nov. 26, 1990	2,800	650	810	2,600	19,000	Odor
	Feb. 07, 1991	4,600	1,100	1,600	4,600	41,000	Odor, sheen
	May 14, 1991	7,300	830	3,900	3,600	100,000	Slight odor, sheen
	Aug. 16, 1991	8,000	2,500	1,100	4,000	45,000	Strong odor, sheen
	Dec. 24, 1991	6,000	1,200	1,100	3,700	79,000	Odor, sheen
	Mar. 30, 1992	8,000	4,400	730	2,500	76,000	Odor, sheen
	July 01, 1992	6,900	2,200	70	880	95,000	
MW-5	Apr. 16 1987	2,267	921.2	3,277	4,536	17,733	
	June 23, 1987	2,239	516.8	953.9	1,587	19,555	
	July 06, 1987	1,335	313.7	799.2	923.9	5,631	
	Aug. 06, 1987	1,890	881.2	576.8	93.4	6,450	
	Nov. 04, 1987	1,300	500	270	640	4,600	
	Feb. 02, 1988	3,100	1,500	550	1,400	24,000	
	May 02, 1988	4,400	490	1,200	1,500	17,000	
	Nov. 21, 1988	5,600	590	870	2,200	19,000	
	Feb. 14, 1989	4,300	810	410	1,300	13,000	Odor
	May 02, 1989	2,900	1,500	690	3,200	24,000	Odor, slight sheen
	Aug. 10, 1989	6,700	2,300	860	4,700	36,000	Odor, slight sheen
	Nov. 08, 1989	5,300	860	460	600	30,000	Odor
	Feb. 20, 1990	1,700	220	120	370	3,400	
	May 18, 1990	18,000	2,000	1,500	5,600	24,000	
	Sep. 15, 1990	2,600	2,200	1,000	4,900	42,000	Odor, sheen
	Nov. 26, 1990	1,900	280	260	800	8,500	Odor, sheen

TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Page 5 of 5

Well No.	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TPH-G (µg/L)	Comments
	Feb. 07, 1991	1,500	1,200	610	2,700	24,000	Odor
	May 14, 1991	3,800	4,400	1,400	6,400	120,000	Odor, sheen
	Aug. 16, 1991	4,200	1,900	760	2,900	29,000	Moderate odor, sheen
	Dec. 24, 1991	3,900	1,500	880	3,200	63,000	Odor, sheen
	Mar. 30, 1992	2,600	980	390	1,100	29,000	Odor, sheen
	July 01, 1992	2,400	1,000	5,200	2,000	52,000	
W-5	Dec. 24, 1991	ND	ND	ND	ND	79	
	Mar. 30, 1992	2.1	1.1	ND	0.6	73	
	July 01, 1992	ND	ND	ND	ND	ND	
W-7	Dec. 24, 1991	ND	ND	ND	ND	ND	
	Mar. 30, 1992	ND	ND	ND	ND	ND	
	July 01, 1992	ND	ND	ND	ND	ND	
W-8	Dec. 24, 1991	1,700	2,400	1,200	6,100	81,000	Odor, sheen
	Mar. 30, 1992	1,700	880	970	1,900	3,000	Odor, sheen
	July 01, 1992	1,800	550	520	2,200	72,000	

- Notes:**
- 1) TPH-G = Total Petroleum Hydrocarbons as gasoline
 - 2) Odor refers to petroleum hydrocarbon odor
 - 3) All results are presented in parts per billion
 - 4) Groundwater Technology, Inc., collected samples prior to February 1989
 - 5) Du Pont Environmental Services collected samples from February 1989 through February 1991
 - 6) Environmental Geotechnical Consultants, Inc. collected samples beginning in May 1991
 - 7) ND = Non Detect
 - 8) See analytical results for detection limits (Appendix B)

APPENDIX A

GROUNDWATER SAMPLING AND ANALYSIS PROTOCOLS

GROUNDWATER SAMPLING AND ANALYSIS

Quality Assurance/Quality Control Objectives

The sampling and analysis procedures employed by EGC for groundwater sampling and monitoring follow specific Quality Assurance/Quality Control (QA/QC) guidelines. Quality Assurance objectives have been established by EGC to develop and implement procedures for obtaining and evaluating water quality and field data in an accurate, precise and complete manner so that sampling procedures and field measurements provide information that is comparable and representative of actual field conditions. Quality Control (QC) is maintained by EGC by using specific field protocols and requiring the analytical laboratory to perform internal and external QC checks. It is the goal of EGC to provide data that are accurate, precise, complete, comparable, and representative. The definitions for accuracy, precision, completeness, comparability, and representativeness are as follows:

1. Accuracy - the degree of agreement of a measurement with an accepted reference or true value.
2. Precision - a measure of agreement among individual measurements under similar conditions. Usually expressed in terms of the standard deviation.
3. Completeness - the amount of valid data obtained from a measurement system compared to the amount that was expected to meet the project data goals.
4. Comparability - expresses the confidence with which one data set can be compared to another.
5. Representativeness - a sample or group of samples that reflects the characteristics of the media at the sampling point. It also includes how well the sampling point represents the actual parameter variations which are under study.

As part of the EGC QA/QC program, applicable federal, state and local reference guidance documents are to be followed. The procedures outlined in these regulations, manuals, handbooks, guidance documents and journals are incorporated into the EGC sampling procedures to assure that: (1) groundwater samples are properly collected, (2) groundwater samples are identified, preserved, and transported in a manner such that they are representative of field conditions, and (3) chemical analyses of samples are accurate and reproducible.

**GUIDANCE AND REFERENCE DOCUMENTS USED
TO COLLECT GROUNDWATER SAMPLES**

U.S.E.P.A. - 339/9-51-002	NEIC Manual for Groundwater/ Subsurface Investigation at Hazardous Waste Sites
U.S.E.P.A. - 503/SW611	Procedures Manual for Groundwater Monitoring at Solid Waste Disposal Facilities (August, 1977)
U.S.E.P.A. - 600/4-79-020	Methods for Chemical Analysis of Water and Wastes (1983)
U.S.E.P.A. - 600/4-82-029	Handbook for Sampling and Sample Preservation of Water and Wastewater (1982)
U.S.E.P.A. - SW-846#, 3rd Edition	Test Methods for Evaluating Solid Waste - Physical/Chemical Methods (November, 1986)
40 CFR 136.3e. Table II (Code of Federal Regulations)	Required Containers, Preservation Techniques, and Holding Times
Resources Conservation and Recovery Act (OSWER 9950.1)	Groundwater Monitoring Technical Enforcement Guidance Document (September, 1986)
California Regional Water Quality Control Board (Central Valley Region)	A Compilation of Water Quality Goals (September, 1988); Updates (October, 1988)
California Regional Water Quality Control Board (North Coast, San Francisco Bay, and Central Valley)	Regional Board Staff Recommendations for Initial Evaluations and Investigation of Underground Tanks: Tri-Regional Recommendations (June, 1988)
Regional Water Quality Control Board (Central Valley Region)	Memorandum: Disposal, Treatment, and Refuse of Soils Contaminated with Petroleum Fractions (August, 1986)
State of California Department of Health Services	Hazardous Waste Testing Laboratory Certification List (March, 1987)
State of California Water Resources Control Board	Leaking Underground Fuel Tank (LUFT) Field Manual (May, 1988), and LUFT Field Manual Revision (April, 1989)

**State of California Water
Resources Control Board**

Title 23, (Register #85.#33-8-17-85), Subchapter 16: Underground Tank Regulations; Article 3, Sections 2632 and 2634; Article 4, Section 2647 (October, 1986)

Alameda County Water District

Groundwater Protection Program: Guidelines for Groundwater and Soil Investigations at Leaking Underground Fuel Tank Sites (November, 1988)

American Public Health Association

Standard Methods for the Examination of Water and Wastewaters, 16th Edition

Analytical Chemistry (journal)

Principles of Environmental Analysis. Volume 55, Pages 2212-2218 (December, 1983)

Santa Clara Valley Water District

Guidelines for Preparing or Reviewing Sampling Plans for Soil and Groundwater Investigation of Fuel Contamination Sites (January, 1989)

American Petroleum Institute

Groundwater Monitoring & Sample Bias; API Publication 4367, Environmental Affairs Department, June 1983

Because groundwater samples collected by EGC are analyzed in the parts per billion (ppb) range for many compounds, care is exercised to prevent contamination of samples. When volatile or semi-volatile organic compounds are included for analysis, EGC sampling crew members will adhere to the following precautions in the field:

- 1. A clean pair of new, disposable gloves are worn for each well being sampled.**
- 2. When possible, samples are collected from known or suspected wells that are least contaminated (i.e., background) followed by wells in increasing order of contamination.**
- 3. All sample bottles and equipment are kept away from fuels and solvents. When possible, gasoline (used in generators) is stored away from bailers, sample bottles, purging pumps, etc.**
- 4. Bailers are made of Teflon or Stainless Steel. Other materials such as plastic may contaminate samples with phthalate esters which interfere with many Gas Chromatography (GC) analyses.**
- 5. Volatile organic groundwater samples are collected so that air passage through the sample does not occur or is minimal (to prevent volatiles from being stripped from the samples); sample bottles are filled by slowly running the sample down the side**

of the bottle until there is a positive convex meniscus over the neck of the bottle; the Teflon side of the septum (in cap) is positioned against the meniscus, and the cap screwed on tightly; the sample is inverted and the bottle lightly tapped. The absence of an air bubble indicates a successful seal; if a bubble is evident, the cap is removed, more sample is added, and the bottle is resealed.

6. Extra Teflon seals are brought into the field in case seals are difficult to handle and/or are dropped. Dropped seals are considered contaminated and are not used. When replacing seals or if seals become flipped, care is taken to assure that the Teflon seal faces down.

Laboratory and field handling procedures of samples are monitored by including QC samples for analysis with every submitted sample lot from a project site. QC samples may include any combination of the following:

1. Trip Blank. Used for purgeable organic compounds only; QC samples are collected in 40 milliliter (ml) sample vials filled in the analytical laboratory with organic-free water. Trip blanks are sent to the project site, and travel with project site samples. Trip blanks are not opened, and are returned from a project site with the project site samples for analysis.
2. Field Blank. Prepared in the field using organic-free water. These QC samples accompany project site samples to the laboratory and are analyzed for specific chemical parameters unique to the project site where they were prepared.
3. Duplicates. Duplicate samples are collected "second samples" from a selected well and project site. They are collected as either split samples or second-run samples collected from the same well.
4. Equipment Blank. Period QC sample collected from field equipment rinsate to verify decontamination procedures.

The number and types of QC samples are determined on a site-specific basis.

SAMPLE COLLECTION

This section describes the routine procedures followed by EGC while collecting groundwater samples for chemical analysis. These procedures include decontamination, water-level measurements, well purging, physical parameter measurements, sample collection, sample preservation, sample handling, and sample documentation. Critical sampling objectives for EGC are to:

1. Collect groundwater samples that are representative of the sampled matrix.
2. Maintain sample integrity from the time of sample collection to receipt by the analytical laboratory.

Decontamination Procedures

All physical parameter measuring and sampling equipment are decontaminated prior to sample collection using Alconox or equivalent detergent followed by steam cleaning with deionized water. Any sampling equipment surfaces or parts that might absorb specific contaminants, such as plastic pump valves, impellers, etc., are cleaned in the same manner.

Sample bottles, bottle caps and septa used for sampling volatile organics are thoroughly cleaned and prepared in the laboratory. Sample bottles, bottle caps and septa are protected from all potential chemical contact before actual usage at a sample location.

During field sampling, equipment which has been placed in a well shall be decontaminated by cleaning with Alconox or equivalent detergent followed by steam cleaning with deionized water before purging or sampling the next well.

Water-Level Measurements

Prior to purging and sampling a well, the static-water levels are measured in all wells at a project site using an electric sounder and/or calibrated portable oil-water interface probe. Both static water-level and separate-phase product thickness are measured to the nearest ± 0.01 foot. The presence of separate-phase product is confirmed using a clean, acrylic or polyvinylchloride (PVC) bailer, measured to the nearest ± 0.01 foot with an engineer's scale tape.

The monofilament line used to lower the bailer is replaced between wells with new line to preclude the possibility of cross-contamination. Field observations (e.g., well integrity, product color, turbidity, water color, odors, etc) are noted on the EGC Well Sampling Field Data Sheet. Before and after each use, the electric sounder, interface probe and bailer are decontaminated by washing with Alconox or equivalent detergent followed by rinsing with deionized water to prevent cross-contamination.

Well Purging

Before sampling occurs, well casing storage water and interstitial water in the artificial sand pack will be purged using: (1) a positive displacement bladder pump constructed of inert, non-wetting, Teflon and stainless steel; (2) a pneumatic-airlift pumping system; (3) a centrifugal pumping system; or (4) a Teflon or Stainless Steel bailer. Methods of purging will be assessed based on well size, location, accessibility, and known chemical conditions. Individual well purge volumes are calculated from casing volumes. As a general rule, a minimum of 3 to 5 casing volumes will be purged. Wells which dewater or demonstrate slow recharge periods (i.e., low-yield wells) during purging activities may be sampled after fewer purging cycles. If a low-yield (low recovery) well is to be sampled, sampling will not take place until at least 70 percent of the previously measured water column has been replaced by recharge. Removal of stagnant water will either be disposed of or stored in 55-gallon drums for future disposal as outlined for contaminated soil cuttings in the section on soil sampling protocol. Physical parameter measurements (temperature, pH, and specific conductance) are closely monitored throughout the well purging process and are used by the EGC sampling crew as indicators for assessing

sufficient purging. Purging is continued until all three physical parameters have stabilized. Specific conductance (conductivity) meters are read to the nearest ± 10 umhos/cm, and are calibrated daily. pH meters are read to the nearest ± 0.1 pH units and are calibrated daily. Temperature is read to the nearest 0.1 degree F. Calibration of physical parameter meters will follow manufacturers specifications. Collected field data during purging activities will be entered on the EGC Well Sampling Field Data Sheet. Copies of the EGC Field Data Sheets will be reviewed by the EGC Sampling Manager for accuracy and completeness.

DOCUMENTATION

Sample Container Labels

Each sample container will be labeled immediately after the sample is collected. Label information will include:

- Sample point designation (i.e., well number or code)
- Sampler's identification
- Project number
- Date and time of collection
- Type of preservation used

Well Sampling Data Forms

In the field, the EGC sampling crew will record the following information on the Well Sampling Data Sheet for each sample collected:

- Project number
- Client
- Location
- Source (i.e., well number)
- Time and date
- Well accessibility and integrity
- Pertinent well data (e.g., depth, product thickness, static water-level, pH, specific conductance, temperature)
- Calculated and actual purge volumes

Chain-of-Custody

A Chain-of-Custody record shall be completed and accompany every shipment of samples to the analytical laboratory in order to establish the documentation necessary to trace sample possession from time of collection. The record will contain the following information:

- Sample or station number or sample identification (ID)
- Signature of collector, sampler, or recorder
- Date and time of collection
- Place of collection

Sample type
Signatures of persons involved in chain of possession
Inclusive dates of possession

Samples shall always be accompanied by a Chain-of-Custody record. When transferring the samples, the individual relinquishing and receiving the samples will sign, date, and note the time on the Chain-of-Custody record. EGC will be responsible for notifying the laboratory coordinator when and how many samples will be sent to the laboratory for analysis, and what types of analyses shall be performed.

Sample Handling Storage and Transport

All chemical sampling, handling and storage will be conducted under the direction of our consulting Analytical Chemist. All laboratory chemical testing will be accomplished by a State approved laboratory.

All equipment that contacts samples will be thoroughly cleaned prior to arrival to a site and between samplings. New or used samplers will be steam-cleaned or washed with an anionic detergent solution (i.e., Liquinox or Alconox), rinsed well with tap water, rinsed with distilled water, drained of excess water and air-dried or wiped dry with a clean towel.

Equipment blanks will be taken during the final stage of decontamination at the rate of no more than one per groundwater monitoring well. Selected method blanks will be subjected to chemical analysis for quality control.

All samples will be collected in an order such that those parameters most sensitive to volatilization will be sampled first. A general order of collection for some common groundwater parameters follows:

- Volatile Organic Compounds (VOC's)
- Total Organic Halogens (TOX)
- Total Organic Carbon (TOC)
- Extractable Organics
- Total Metals
- Dissolved Metals
- Phenols
- Sulfate and Chloride
- Turbidity
- Nitrate and Ammonia

All samples will be held at 4°C by packing in ice in a covered ice chest specifically designated for that purpose. At no time will the elapsed time between sample collection and delivery at the outside laboratory be greater than 72 hours. Preservatives will not be added to any sample unless instructed, and preservatives will be supplied and requested by the outside laboratory. Under no circumstances will sample containers be opened by anyone other than laboratory personnel who will perform the specified chemical analysis.

If it is necessary for samples or sample chests to leave the immediate control of the sampler prior to delivery to the laboratory, such as shipment by a common carrier (e.g., Federal Express), a custody seal will be placed on each sample container and/or sample chest to ensure that the samples have not been tampered with during transportation. The custody seal will contain the sampler's signature, the date and time the seal was emplaced.

APPENDIX B
ANALYTICAL RESULTS

RECEIVED JUL 15 1992

ANALYSIS REPORT

1020lab.frm

Attention: Mr. John Phillips
EGC
4229 Northgate Blvd., Ste 3
Sacramento, CA 95834
Project: AGS 19505-L, Project #E189-01
Station #720, San Leandro

Date Sampled: 06-30,07-01-92
Date Received: 07-02-92
BTEX Analyzed: 07-09-92
TPHg Analyzed: 07-09-92
TPHd Analyzed: NR
Matrix: Water

	Benzene ppb	Toluene ppb	Ethyl- benzene ppb	Total Xylenes ppb	TPHg ppb	TPHd ppb
Detection Limit:	0.5	0.5	0.5	0.5	50	50

SAMPLE

Laboratory Identification

MW-1 W1207036	840	1000	830	3600	55000	NR
MW-2 W1207037	3500	2900	1900	7900	130000	NR
MW-3 W1207038	150	20	22	300	13000	NR
MW-4 W1207039	6900	2200	70	880	95000	NR
MW-5 W1207040	2400	1000	5200	2000	52000	NR

ppb = parts per billion = $\mu\text{g/L}$ = micrograms per liter.

ND = Not detected. Compound(s) may be present at concentrations below the detection limit.

NR = Analysis not requested.

ANALYTICAL PROCEDURES

BTEX-- Benzene, toluene, ethylbenzene, and total xylene isomers (BTEX) are measured by extraction using EPA Method 5030 followed by analysis using EPA Method 8020/602, which utilizes a gas chromatograph (GC) equipped with a photoionization detector (PID) and a flame-ionization detector (FID) in series.

TPHg--Total petroleum hydrocarbons as gasoline (low-to-medium boiling points) are measured by extraction using EPA Method 5030, followed by analysis using modified EPA Method 8015, which utilizes a GC equipped with an FID.

TPHd--Total petroleum hydrocarbons as diesel (high boiling points) are measured by extraction using EPA Method 3550 for soils and EPA Method 3510 for water, followed by modified EPA Method 8015 with direct sample injection into a GC equipped with an FID.

M. Tagay

Laboratory Representative

July 13, 1992
Date Reported

RESNA ENVIRONMENTAL LABORATORY IS CERTIFIED BY THE STATE OF CALIFORNIA
DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
(Certification No. 1211)

42501 Albrae Street • Fremont, CA 94538 • Phone: (510) 623-0775 • (800) 247-5223 • FAX: (510) 651-8754

ANALYSIS REPORT

Attention: Mr. John Phillips
EGC
4229 Northgate Blvd., Ste 3
Sacramento, CA 95834
Project: AGS 19505-L, Project #E189-01
Station #720, San Leandro

Date Sampled: 06-30, 07-01-92
Date Received: 07-02-92
BTEX Analyzed: 07-09-92
TPHg Analyzed: 07-09-92
TPHd Analyzed: NR
Matrix: Water

1020lab.frm

	Benzene	Toluene	Ethyl- benzene	Total Xylenes	TPHg	TPHd
	<u>ppb</u>	<u>ppb</u>	<u>ppb</u>	<u>ppb</u>	<u>ppb</u>	<u>ppb</u>
Detection Limit:	0.5	0.5	0.5	0.5	50	50

SAMPLE
Laboratory Identification

MW-6 W1207041	ND	ND	ND	ND	ND	NR
MW-7 W1207042	ND	ND	ND	ND	ND	NR
MW-8 W1207043	1800	550	520	2200	72000	NR

ppb = parts per billion = $\mu\text{g/L}$ = micrograms per liter.
ND = Not detected. Compound(s) may be present at concentrations below the detection limit.
NR = Analysis not requested.

ANALYTICAL PROCEDURES

BTEX— Benzene, toluene, ethylbenzene, and total xylene isomers (BTEX) are measured by extraction using EPA Method 5030 followed by analysis using EPA Method 8020/602, which utilizes a gas chromatograph (GC) equipped with a photoionization detector (PID) and a flame-ionization detector (FID) in series.
TPHg—Total petroleum hydrocarbons as gasoline (low-to-medium boiling points) are measured by extraction using EPA Method 5030, followed by analysis using modified EPA Method 8015, which utilizes a GC equipped with an FID.
TPHd—Total petroleum hydrocarbons as diesel (high boiling points) are measured by extraction using EPA Method 3550 for soils and EPA Method 3510 for water, followed by modified EPA Method 8015 with direct sample injection into a GC equipped with an FID.

M. Tague

Laboratory Representative

July 13, 1992
Date Reported

RESNA ENVIRONMENTAL LABORATORY IS CERTIFIED BY THE STATE OF CALIFORNIA
DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY
(Certification No. 1211)

42501 Albrae Street • Fremont, CA 94538 • Phone: (510) 623-0775 • (800) 247-5223 • FAX: (510) 651-8754

ANALYSIS REPORT

Attention: Mr. John Phillips
EGC
4229 Northgate Blvd., Ste 3
Sacramento, CA 95834
Project: AGS 19505-L, Project #E189-01
Station # 720, San Leandro

Date Sampled: 07-01-92
Date Received: 07-02-92
pH Analyzed: 07-02-92

1020lab.frm

pH

SAMPLE
Laboratory Identification

MW 6 11.85
W1207041

ANALYTICAL PROCEDURES

pH is measured according to Standard Method 9045.

MM Tasque
Laboratory Representative

July 13, 1992
Date Reported



Ultramar Inc.
CHAIN OF CUSTODY REPORT

RECEIVED JUL 15 1992

BEACON

095229

Beacon Station No. 720	Sampler (Print Name) BART BRITTON			ANALYSES				Date 7/2/92	Form No. 1 of 1
Project No. E189-01	Sampler (Signature) <i>Bart Britton</i>			BTEX	TPH (gasoline)	TPH (diesel)	Ph	No. of Containers	REMARKS
Project Location SAN LEANDRO	Affiliation EGC								
Sample No./Identification	Date	Time	Lab No.	BTEX	TPH (gasoline)	TPH (diesel)	Ph	No. of Containers	REMARKS
MW-1	7/1/92	1230	W120702	X	X			3	
MW-2	7/1/92	1300	037	X	X			3	
MW-3	7/1/92	1330	038	X	X			3	
MW-4	7/1/92	1400	039	X	X			3	
MW-5	7/1/92	1445	040	X	X			3	
MW-6	7/1/92	1545	041	X	X	X		4	3 VOA PRESERVED W/HCL AVOA UNPRESERVED
MW-7	6/30/92	0930	042	X	X			3	
MW-8	7/1/92	1515	043	X	X			3	
Relinquished by: (Signature/Affiliation) <i>Dan B. EGC</i>	Date 7/2/92	Time 11:30	Received by: (Signature/Affiliation) <i>P. Harris 462 Prime Corner</i>				Date 7-2	Time 11:30	
Relinquished by: (Signature/Affiliation) <i>P. Harris 462</i>	Date 7/2/92	Time 1:30	Received by: (Signature/Affiliation) <i>Clifford Green PESNA Lab</i>				Date 7/2/92	Time 1:30	
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)				Date	Time	
Report To: JOHN PHILLIPS PH. (916) 925-4789 FAX (916) 925-5973	Bill to: ULTRAMAR INC. 525 West Third Street Hanford, CA 93230 Attention: TERRY FOX								