Ultramar

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

Telecopy: 209-585-5685 Credit
209-583-3330 Administrative
209-583-3302 Information Services
209-583-3358 Accounting

August 28, 1996

Mr. Scott Seery
Department of Environmental Health
Alameda County Health Care Agency
1131 Harbor Parkway, Room 250
Alameda, CA 94502-6577

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

Dear Mr. Seery:

Enclosed is a copy of the Second Quarter 1996 Groundwater Monitoring Report for the above-referenced Ultramar facility. Also included is a copy of the Quarterly Status Report.

Please call if you have any questions.

Sincerely,

ULTRAMAR INC.

Terrence A. Fox
Senior Project Manager
Marketing Environmental Department

Enclosure

Ultramar

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ENVIRONMENTAL PROJECT QUARTERLY STATUS REPORT

DATE REPORT SUBMITTED: August 28, 1996
QUARTER ENDING: June 30, 1996

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 borings 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.

In October 1993, performed a ground-water pump test, a vapor extraction test, and a air sparging test.

In May 1994, submitted Problem Assessment Report/Remedial Action Plan.

In December 1994, installed one additional monitoring well, six air sparging points, and one vapor extraction well.

SUMMARY OF THIS QUARTER'S ACTIVITIES:

Performed quarterly monitoring on June 13, 1996.

Began installation of remediation system.

RESULT OF QUARTERLY MONITORING:

Monitoring data indicates that the benzene concentration remained not detected in MW-6 and MW-7. The benzene concentration increased in MW-1 from 42 ppb to 86 ppb, in MW-2 from 930 ppb to 1,800 ppb, in MW-3 from 4.3 ppb to 5.1 ppb, in MW-8 from 180 ppb to 500 ppb, and in MW-9 from 380 ppb to 540 ppb. Benzene concentrations decreased in MW-4 from 9,600 ppb to 64 ppb and in MW-5 from 9,800 ppb to 5,500.

PROPOSED ACTIVITY OR WORK FOR NEXT QUARTER:

ACTIVITY	ESTIMATED COMPLETION DATE
Continue quarterly monitoring program.	
Complete install the remediation system.	September 30, 1996

El Dorado Environmental, Inc.

2221 Goldorado Trail, El Dorado, California 95623 (916) 626-3898
Fax (916) 626-3899

August 23, 1996

Mr. Terrence Fox
Environmental Specialist
Ultramar Inc.
525 West Third Street
Hanford, California 93232-0466

Subject: **Second Quarter 1996 Ground Water Monitoring Report**
Beacon Station #720
1088 Marina Boulevard, San Leandro, California

Dear Mr. Fox:

El Dorado Environmental, Inc. (EDE) has prepared this report to document the results of quarterly ground water monitoring conducted on June 13, 1996 at the subject site (Figure 1). The monitoring, conducted by Doulos Environmental (Doulos), included measurements of depth to ground water, subjective analysis for the presence or absence of free product, ground water purging and collection of ground water samples. Doulos reports that all field activities were conducted in accordance with the Ultramar Field Procedures described in Attachment A.

GROUND WATER ELEVATIONS

Prior to purging, Doulos collected depth to ground water measurements. Copies of Doulos' field data sheets are contained in Attachment B. Ground water elevation data collected since March 1992 are summarized in Table 1. Historical ground water elevation data are presented in Attachment C. On the basis of the current measurements, ground water flows toward the southwest (Figure 2) at a gradient of less than 0.01 foot per foot. Ground water elevations decreased an average of 0.74 feet compared to the last monitoring event.

GROUND WATER SAMPLING AND ANALYSES

Ground water samples were collected from nine monitoring wells. All samples were analyzed for concentrations of:

- TPH, as gasoline, by modified EPA Method 8015.
- BTEX by EPA Method 602.

Analytical results collected since March 1992 are summarized in Table 2. Historical analytical data are presented in Attachment D. Figure 3 illustrates the inferred distribution of benzene in ground water based on the current data. The laboratory report and chain-of-custody form for the current sampling event are contained in Attachment E. Benzene was not present at detectable concentrations in ground water samples collected from monitoring wells MW-6 and MW-7. Concentrations of benzene decreased in the samples collected from monitoring wells MW-4, MW-5, and MW-9 and increased in samples collected from monitoring wells MW-1, MW-2, MW-3 and MW-8 compared to prior sampling.

A copy of this quarterly monitoring report should be forwarded to:

Mr. Rafat Shahid
Division of Hazardous Materials
Alameda County Health Care Services
80 Swan Way, Room 200
Oakland, California 94621

The interpretations and/or conclusions that may be contained within this report represent our professional opinions. These opinions are based on currently available information. Other than this, no warranty is implied or intended. This report has been prepared solely for the use of Ultramar Inc. Any reliance on this report by third parties will be at such parties' sole risk.

If you have any questions or comments, please contact us at (916) 626-3898.

Regards,

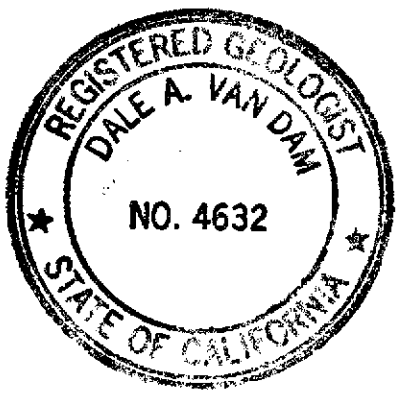
EL DORADO ENVIRONMENTAL, INC.

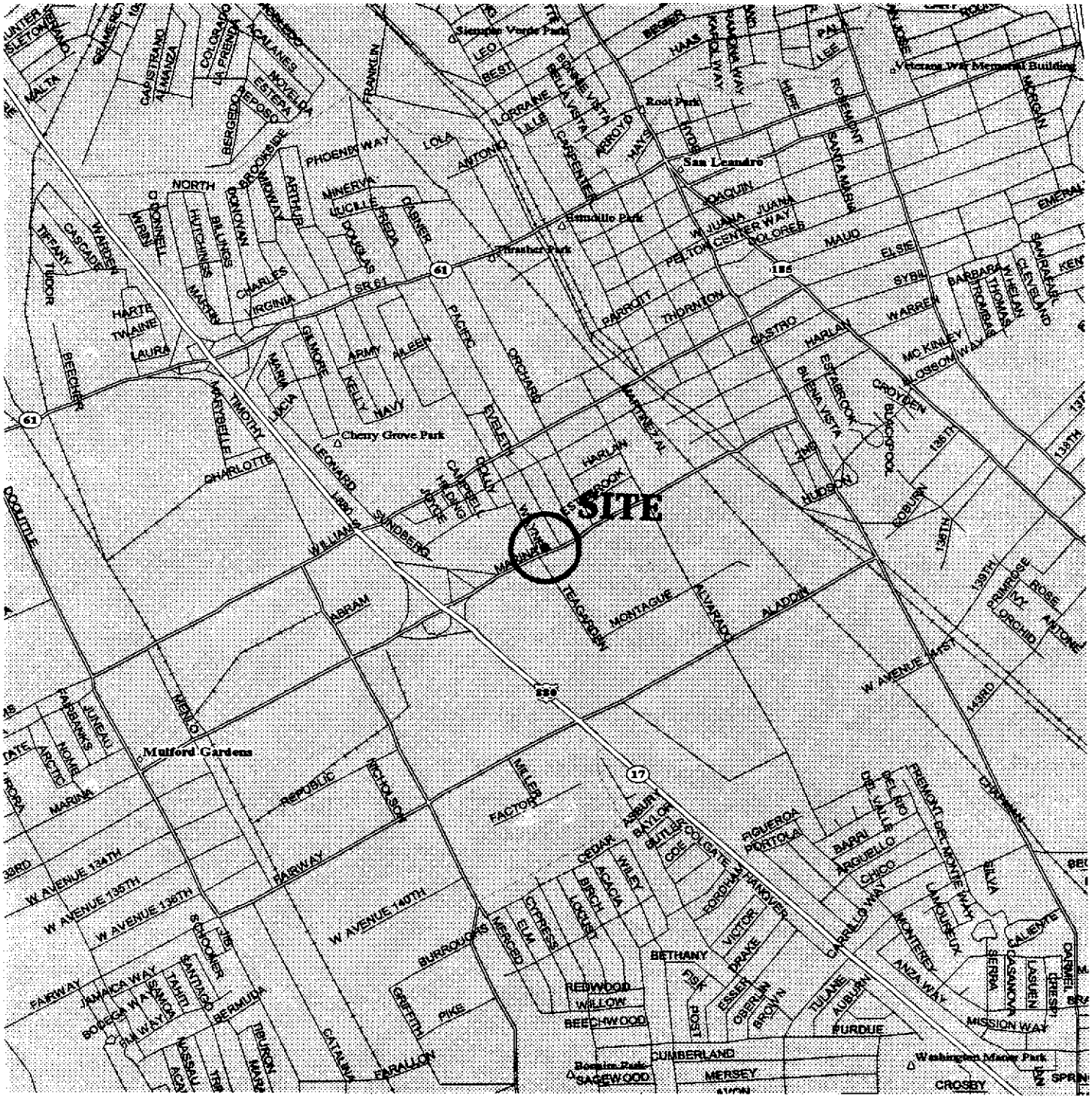
Dale A. van Dam

Dale A. van Dam, R.G.
Hydrogeologist

DavD/davd

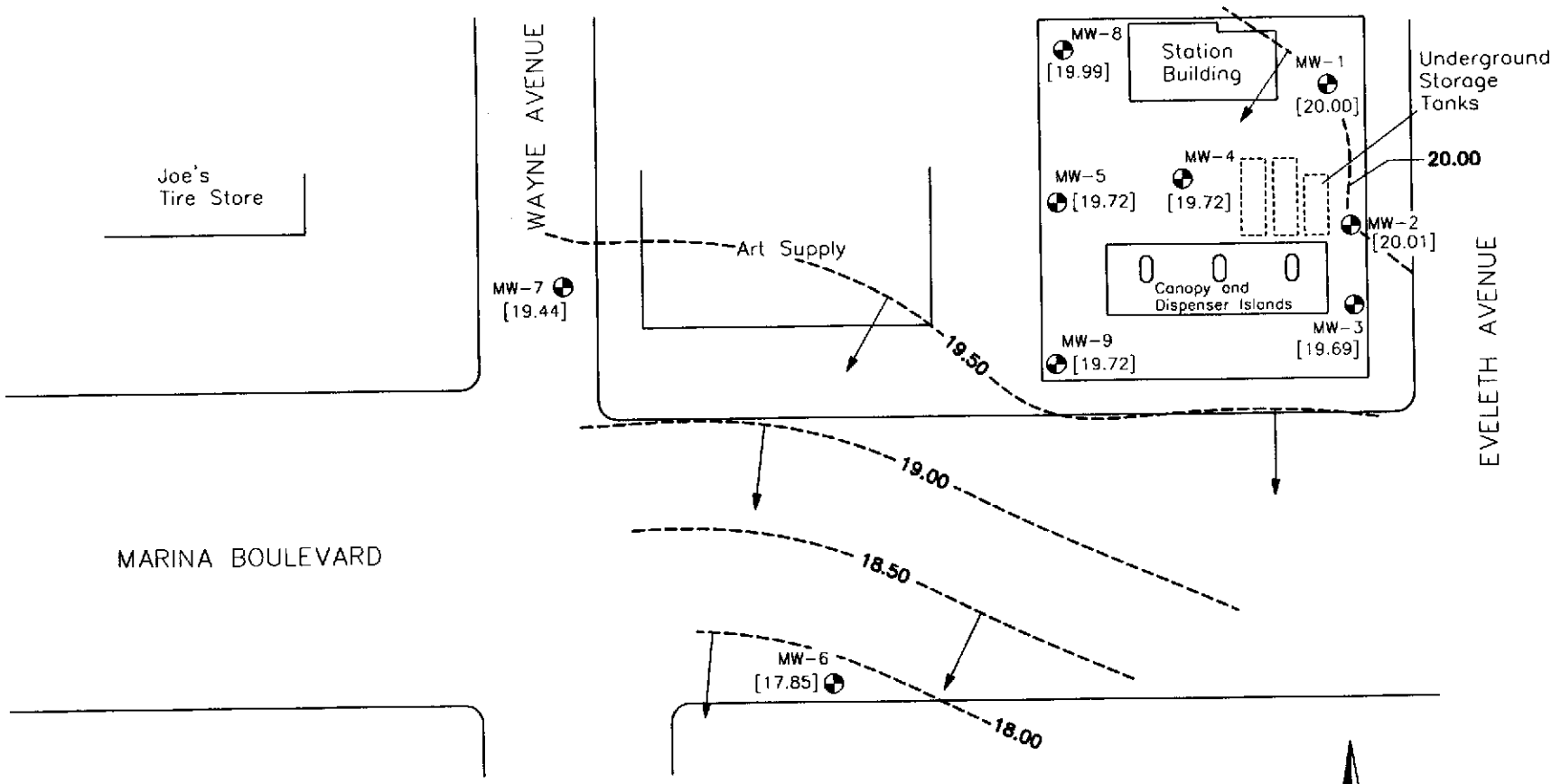
Attachments





SITE LOCATION MAP	FIGURE 1
BEACON STATION #720 1088 MARINA BOULEVARD SAN LEANDRO, CALIFORNIA	PROJECT NUMBER: U061.01 DRAWN BY: D.A.V.D.
EL DORADO ENVIRONMENTAL, INC.	CHECKED BY:

SOURCE: STREET ATLAS U.S.A., DELORME MAPPING, 1994



EXPLANATION

MW-1 — Monitoring Well Location

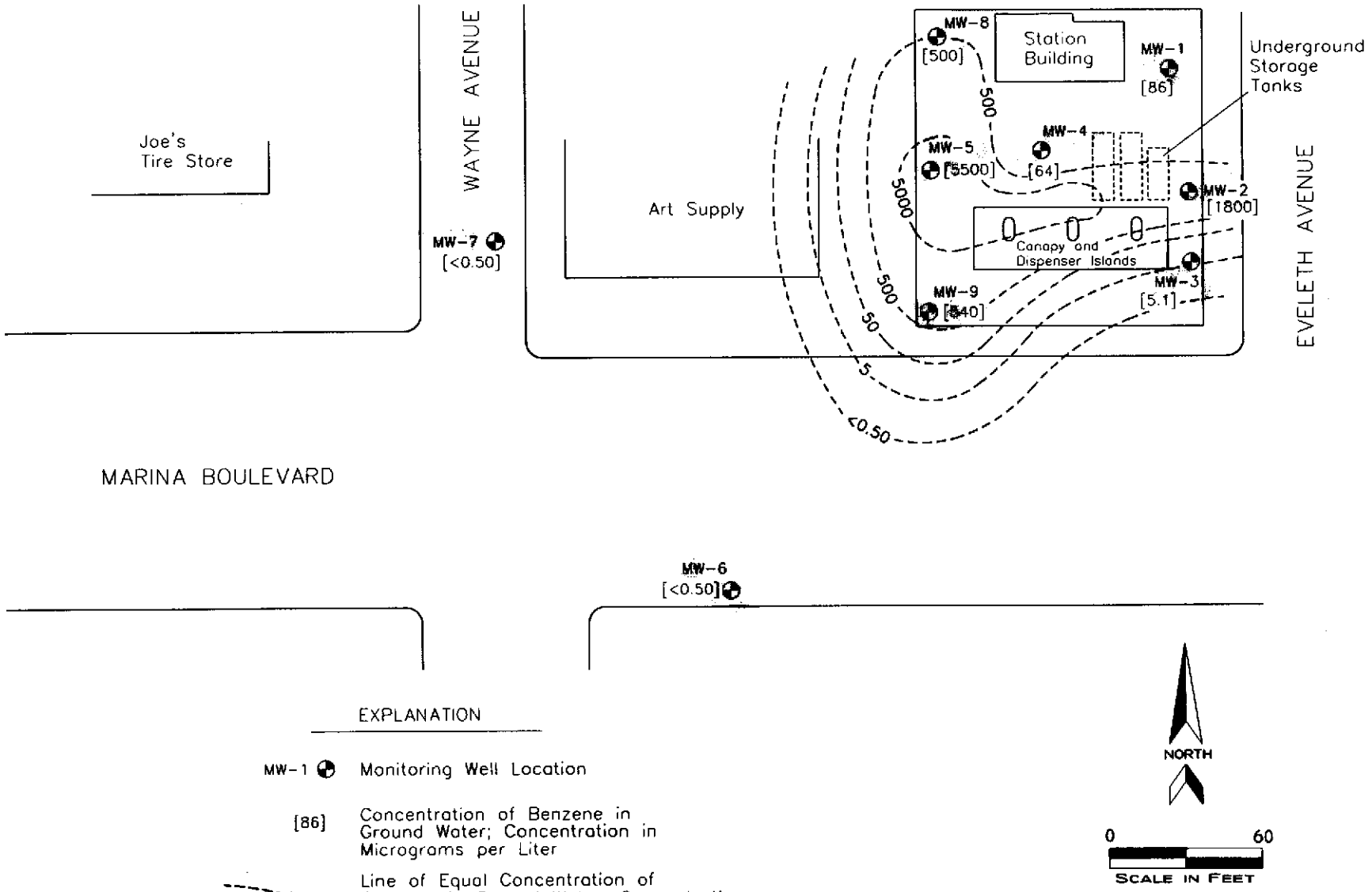
[20.00] — Elevation of Ground Water Measured in Feet; Datum is Mean Sea Level

20.00 — Line of Equal Elevation of Ground Water Measured in Feet; Datum is Mean Sea Level

Inferred Direction of Ground Water Flow

SOURCE: FIGURE MODIFIED FROM DRAWING PROVIDED BY FUGRO WEST, INC.

GROUND WATER CONTOUR MAP, JUNE 13, 1996	FIGURE 2
BEACON STATION #720 1088 MARINA BOULEVARD SAN LEANDRO, CALIFORNIA	PROJECT NUMBER: U061.01 DRAWN BY: D.A.
EL DORADO ENVIRONMENTAL, INC.	CHECKED BY: DVR



SOURCE: FIGURE MODIFIED FROM DRAWING PROVIDED BY FUGRO WEST, INC.

DISSOLVED BENZENE DISTRIBUTION MAP, JUNE 13, 1996	FIGURE 3
BEACON STATION #720 1088 MARINA BOULEVARD SAN LEANDRO, CALIFORNIA	PROJECT NUMBER: U061.01 DRAWN BY: D.A.
EL DORADO ENVIRONMENTAL, INC.	CHECKED BY: DJD

TABLE 1
GROUND WATER ELEVATION DATA
BEACON STATION #720
1088 MARINA BOULEVARD, SAN LEANDRO, CALIFORNIA
(Measurements in feet)

Monitoring Well	Date	Reference Elevation (top of casing)[1]	Depth to Ground Water[1]	Ground Water Elevation[2]	Well Depth	Comments
MW-1	03/30/92	33.10	13.58	19.52	---	
	07/01/92		14.80	18.30	---	
	09/30/92		16.12	16.98	---	
	11/19/92		16.34	16.76	27.76	
	02/03/93		12.61	20.49	27.72	
	05/25/93		13.12	19.98	27.70	
	09/22/93		14.18	18.92	27.73	
	12/21/93		14.36	18.74	27.70	
	03/18/94		13.64	19.46	27.67	
	06/15/94		14.30	18.80	27.69	
	09/14/94		15.18	17.92	27.66	
	12/19/94		13.79	19.31	27.70	
	12/21/95		13.86	19.24	---	
	03/07/95		12.74	20.36	29.51	
	06/08/95		12.95	20.15	29.54	
	09/22/95		13.94	19.16	29.54	
	12/27/95		13.57	19.53	29.92	
	03/26/96		12.13	20.97	29.90	
	06/13/96		13.10	20.00	17.02	
MW-2	03/30/92	32.80	13.32	19.48	---	
	07/01/92		14.42	18.38	---	
	09/30/92		15.78	17.02	---	
	11/19/92		15.99	16.81	24.56	
	02/03/93		12.31	20.49	25.37	
	05/25/93		12.97	19.83	25.31	
	09/22/93		14.32	18.48	25.34	
	12/21/93		14.52	18.28	25.31	
	03/18/94		13.45	19.35	25.49	
	06/15/94		14.07	18.73	25.50	
	09/14/94		14.96	17.84	25.50	
	12/19/94		13.64	19.16	25.52	
	12/21/95		13.71	19.09	---	
	03/07/95		12.54	20.26	25.87	
	06/08/95		12.81	19.99	25.86	
	09/22/95		13.66	19.14	25.80	
	12/27/95		13.42	19.38	25.83	
	03/26/96		12.05	20.75	25.83	
	06/13/96		12.79	20.01	26.39	
MW-3	03/30/92	32.30	12.96	19.34	---	
	07/01/92		14.00	18.30	---	
	09/30/92		15.36	16.94	---	
	11/19/92		15.57	16.73	24.45	
	02/03/93		11.96	20.34	24.54	
	05/25/93		14.12	18.18	24.50	
	09/22/93		13.88	18.42	24.50	
	12/21/93		14.12	18.18	24.50	
	03/18/94		13.04	19.26	24.57	
	06/15/94		13.65	18.65	24.78	
	09/14/94		14.54	17.76	24.59	
	12/19/94		13.28	19.02	24.71	
	12/21/95		13.30	19.00	---	
	03/07/95		12.26	20.04	26.03	
	06/08/95		12.42	19.88	26.02	
	09/22/95		13.25	19.05	26.00	
	12/27/95		13.04	19.26	26.00	
	03/26/96		11.62	20.68	26.01	
	06/13/96		12.61	19.69	28.45	

NOTES:
1 = Measurement and reference elevation taken from notch/mark on top north side of well casing.
2 = Elevation referenced to mean sea level.
Well Depth = Measurement from top of casing to bottom of well.
--- = Not measured.
* = Well paved over.

TABLE 1
GROUND WATER ELEVATION DATA
BEACON STATION #720
1088 MARINA BOULEVARD, SAN LEANDRO, CALIFORNIA
(Measurements in feet)

Monitoring Well	Date	Reference Elevation (top of casing)[1]	Depth to Ground Water[1]	Ground Water Elevation[2]	Well Depth	Comments
MW-4	03/30/92	32.90	13.60	19.30	---	
	07/01/92		15.72	17.18	---	
	09/30/92		16.04	16.86	---	
	11/19/92		16.21	16.69	26.92	
	02/03/93		12.70	20.20	27.00	
	05/25/93		12.97	19.93	26.88	
	09/22/93		14.51	18.39	26.90	
	12/21/93		14.75	18.15	26.90	
	03/18/94		13.68	19.22	27.24	
	06/15/94		14.37	18.53	28.54	
	09/14/94		15.23	17.67	27.25	
	12/19/94		13.93	18.97	28.61	
	12/21/95		13.99	18.91	---	
	03/07/95		12.86	20.04	28.64	
	06/08/95		13.10	19.80	28.68	
	09/22/95		13.98	18.92	28.71	
	12/27/95		13.74	19.16	28.71	
	03/26/96		12.30	20.60	28.70	
	06/13/96		13.18	19.72	27.86	
MW-5	03/30/92	32.70	13.48	19.22	---	
	07/01/92		14.58	18.12	---	
	09/30/92		15.82	16.88	---	
	11/19/92		16.00	16.70	27.56	
	02/03/93		12.40	20.30	27.61	
	05/25/93		13.01	19.69	27.61	
	09/22/93		14.37	18.33	27.64	
	12/21/93		14.58	18.12	27.01	
	03/18/94		13.53	19.17	28.70	
	06/15/94		14.18	18.52	28.74	
	09/14/94		15.07	17.63	28.70	
	12/19/94		13.74	18.96	28.76	
	12/21/95		13.84	18.86	---	
	03/07/95		12.73	19.97	28.88	
	06/08/95		12.99	19.71	28.87	
	09/22/95		13.83	18.87	28.85	
	12/27/95		13.59	19.11	28.85	
	03/26/96		12.20	20.50	28.84	
	06/13/96		12.98	19.72	28.84	
MW-6	03/30/92	30.40	12.62	17.78	---	
	07/01/92		12.70	17.70	---	
	09/30/92		13.40	17.00	---	
	11/19/92		13.59	16.81	15.10	
	02/03/93		12.43	17.97	15.01	
	05/25/93		---	---	---	*
	10/11/93		12.82	17.58	15.10	
	12/21/93		13.06	17.34	15.10	
	03/18/94		12.16	18.24	15.16	
	06/15/94		12.59	17.81	15.17	
	09/14/94		12.86	17.54	14.97	
	12/19/94		12.48	17.92	15.19	
	12/21/95		11.61	18.79	---	
	03/07/95		12.37	18.03	14.98	
	06/08/95		11.14	19.26	15.00	
	09/22/95		12.44	17.96	15.00	
	12/27/95		12.21	18.19	14.98	
	03/26/96		12.26	18.14	14.97	
	06/13/96		12.55	17.85	14.98	

NOTES:
1 = Measurement and reference elevation taken from notch/mark on top north side of well casing.
2 = Elevation referenced to mean sea level.
Well Depth = Measurement from top of casing to bottom of well.
--- = Not measured.
* = Well paved over.

TABLE 1
GROUND WATER ELEVATION DATA
BEACON STATION #720
1088 MARINA BOULEVARD, SAN LEANDRO, CALIFORNIA
(Measurements in feet)

Monitoring Well	Date	Reference Elevation (top of casing)[1]	Depth to Ground Water[1]	Ground Water Elevation[2]	Well Depth	Comments
MW-7	03/30/92	31.20	12.34	18.86	---	
	07/01/92		15.54	15.66	---	
	09/30/92		14.64	16.56	---	
	11/19/92		14.80	16.40	25.10	
	02/03/93		11.36	19.84	25.02	
	05/25/93		---	---	---	*
	09/22/93		13.18	18.02	25.01	
	12/21/93		13.42	17.78	25.02	
	03/18/94		12.36	18.84	25.13	
	06/15/94		13.01	18.19	25.21	
	09/14/94		13.88	17.32	25.13	
	12/19/94		12.61	18.59	25.23	
	12/21/95		12.38	18.82	---	
	03/07/95		11.56	19.64	25.22	
	06/08/95		11.82	19.38	25.20	
	09/22/95		12.67	18.53	25.23	
	12/27/95		12.34	18.86	25.23	
	03/26/96		11.03	20.17	25.21	
	06/13/96		11.76	19.44	25.20	
MW-8	03/30/92	33.80	14.66	19.14	---	
	07/01/92		15.74	18.06	---	
	09/30/92		17.00	16.80	---	
	11/19/92		17.01	16.79	29.75	
	02/03/93		13.83	19.97	29.88	
	05/25/93		13.01	20.79	29.86	
	09/22/93		15.81	17.99	24.52	
	12/21/93		16.05	17.75	29.86	
	03/18/94		14.62	19.18	29.87	
	06/15/94		15.29	18.51	30.07	
	09/14/94		16.22	17.58	29.87	
	12/19/94		14.81	18.99	30.05	
	12/21/95		14.89	18.91	---	
	03/07/95		13.75	20.05	29.94	
	06/08/95		13.98	19.82	29.93	
	09/22/95		14.92	18.88	29.95	
	12/27/95		14.61	19.19	29.92	
	03/26/96		13.09	20.71	29.73	
	06/13/96		13.81	19.99	27.92	
MW-9	12/21/95	32.56	13.76	18.80	---	
	03/07/95		12.79	19.77	24.71	
	06/08/95		12.96	19.60	24.70	
	09/22/95		13.73	18.83	24.72	
	12/27/95		13.53	19.03	24.71	
	03/26/96		12.27	20.29	24.70	
	06/13/96		12.84	19.72	24.53	

NOTES:
1 = Measurement and reference elevation taken from notch/mark on top north side of well casing.
2 = Elevation referenced to mean sea level.
Well Depth = Measurement from top of casing to bottom of well.
--- = Not measured.
* = Well paved over.

TABLE 2
GROUND WATER ANALYTICAL RESULTS
BEACON STATION #720
1088 MARINA BOULEVARD, SAN LEANDRO, CALIFORNIA
(All results in micrograms per Liter)

Monitoring Well	Date Collected	Total Petroleum Hydrocarbons	Aromatic Volatile Organics			
		Gasoline	Benzene	Toluene	Ethyl-benzene	Total Xylenes
MW-1	03/30/92	27,000	630	550	540	1,900
	07/01/92	55,000	840	1,000	830	3,600
	09/30/92	6,400	150	95	120	470
	11/19/92	1,300	90	11	50	87
	02/03/93	53,000	750	560	950	5,700
	05/25/93	9,400	200	86	470	1,500
	09/22/93	41,000	1,000	510	850	1,100
	12/21/93	41,000	1,000	490	2,700	13,000
	03/18/94	9,500	320	160	830	2,900
	06/15/94	8,000	310	80	990	2,300
	09/14/94	3,600	130	31	390	630
	12/19/94	17,000	350	150	1,500	5,200
	03/07/95	12,000	180	62	1,200	3,200
	06/08/95	6,300	76	8.0	560	860
	09/22/95	12,000	140	55	1,500	2,500
	12/27/95	3,900	60	13	480	870
	03/26/96	6,400	42	4.9	560	600
	06/13/96	9,600	86	39	1,100	1,700
MW-2	03/30/92	52,000	2,300	1,700	940	3,300
	07/01/92	130,000	3,500	2,900	1,900	7,900
	09/30/92	24,000	890	350	500	1,700
	11/19/92	32,000	1,900	1,700	870	3,400
	02/03/93	64,000	1,900	2,200	860	4,100
	05/25/93	34,000	3,300	1,500	1,300	5,900
	09/22/93	8,000	640	150	270	2,000
	12/21/93	18,000	1,500	410	1,300	5,000
	03/18/94	14,000	1,600	790	1,100	3,700
	06/15/94	13,000	1,600	580	1,200	4,100
	09/14/94	20,000	1,600	560	1,800	6,400
	12/19/94	19,000	1,700	750	1,600	5,800
	03/07/95	17,000	1,900	980	1,300	5,100
	06/08/95	19,000	2,100	740	1,500	4,900
	09/22/95	12,000	840	170	1,100	3,400
	12/27/95	16,000	1,100	540	1,400	5,100
	03/26/96	11,000	930	520	970	3,000
	06/13/96	11,000	1,800	1,400	1,500	4,500
MW-3	03/30/92	21,000	560	50	630	980
	07/01/92	13,000	150	20	22	300
	09/30/92	4,500	53	2.6	84	96
	11/19/92	4,700	73	6.2	140	120
	02/03/93	23,000	220	40	430	740
	05/25/93	9,900	120	26	370	520
	09/22/93	10,000	370	71	320	640
	12/21/93	7,800	130	8.5	430	380
	03/18/94	3,100	22	1.3	78	41
	06/15/94	1,700	8.6	1.4	22	15
	09/14/94	1,400	3.8	<1.3	13	18
	12/19/94	3,800	70	1.7	140	110
	03/07/95	2,200	9.4	<1.3	30	21
	06/08/95	1,700	5.8	<1.3	2.3	14
	09/22/95	1,200	<1.3	<1.3	1.3	<1.3
	12/27/95	1,300	2.4	<1.3	3.3	3.6
	03/26/96	1,200	4.3	<1.3	4.2	2.0
	06/13/96	1,300	5.1	<0.50	21	6.5

NOTES: < = Below indicated detection limit.
ND = Reported as "nondetect" by previous consultant.
NS = Not sampled.

TABLE 2
GROUND WATER ANALYTICAL RESULTS
BEACON STATION #720
1088 MARINA BOULEVARD, SAN LEANDRO, CALIFORNIA
(All results in micrograms per Liter)

Monitoring Well	Date Collected	Total Petroleum Hydrocarbons	Aromatic Volatile Organics			
		Gasoline	Benzene	Toluene	Ethyl-benzene	Total Xylenes
MW-4	03/30/92	76,000	8,000	4,400	730	2,500
	07/01/92	95,000	6,900	2,200	70	880
	09/30/92	58,000	7,100	1,500	650	2,700
	11/19/92	33,000	5,500	840	400	1,400
	02/03/93	130,000	8,200	6,700	940	4,400
	05/25/93	63,000	16,000	6,600	1,700	8,100
	09/22/93	23,000	6,900	940	150	3,000
	12/21/93	28,000	6,900	1,900	1,100	5,500
	03/18/94	58,000	17,000	6,300	2,500	10,000
	06/15/94	59,000	20,000	4,900	2,500	9,100
	09/14/94	73,000	22,000	6,800	2,700	10,000
	12/19/94	67,000	20,000	8,300	2,300	9,100
	03/07/95	57,000	19,000	7,900	2,200	8,700
	06/08/95	61,000	17,000	6,300	2,700	9,000
	09/22/95	37,000	12,000	2,200	1,400	3,500
	12/27/95	39,000	12,000	6,000	1,800	5,800
	03/26/96	31,000	9,600	3,700	2,300	6,200
	06/13/96	240	64	0.93	1.8	2.7
MW-5	03/30/92	29,000	2,600	980	390	1,100
	07/01/92	52,000	2,400	1,000	5,200	2,000
	09/30/92	32,000	1,800	780	370	1,700
	11/19/92	7,800	1,000	280	120	370
	02/03/93	74,000	3,500	3,000	780	3,200
	05/25/93	57,000	7,900	4,700	1,900	7,800
	09/22/93	52,000	7,600	2,400	1,200	8,800
	12/21/93	23,000	3,600	1,200	970	3,600
	03/18/94	47,000	8,200	5,000	1,400	6,100
	06/15/94	28,000	7,900	4,000	1,200	5,200
	09/14/94	32,000	8,000	5,100	1,400	5,600
	12/19/94	29,000	7,000	3,400	1,200	5,200
	03/07/95	36,000	9,800	5,800	1,800	7,800
	06/08/95	33,000	7,700	3,800	1,500	6,200
	09/22/95	39,000	9,500	3,800	1,900	7,000
	12/27/95	42,000	9,700	5,000	2,200	8,800
	03/26/96	37,000	9,800	4,900	2,300	8,800
	06/13/96	18,000	3,500	2,200	1,500	5,300
MW-6	03/30/92	73	2.1	1.1	ND	0.6
	07/01/92	ND	ND	ND	ND	ND
	09/30/92	ND	0.73	ND	ND	0.58
	11/19/92	96	1.5	<0.5	<0.5	0.9
	02/03/93	73	0.6	<0.5	<0.5	<0.5
	05/25/93	NS	NS	NS	NS	NS
	10/11/93	<50	<0.5	<0.5	<0.5	<0.5
	12/21/93	<50	<0.5	<0.5	<0.5	<0.5
	03/18/94	<50	<0.5	<0.5	<0.5	<0.5
	06/15/94	<50	<0.5	<0.5	<0.5	<0.5
	09/14/94	<50	<0.5	<0.5	<0.5	<0.5
	12/19/94	<50	<0.5	<0.5	<0.5	<0.5
	03/07/95	<50	<0.5	<0.5	<0.5	<0.5
	06/08/95	<50	<0.5	<0.5	<0.5	<0.5
	09/22/95	<50	<0.50	<0.50	<0.50	<0.50
	12/27/95	<50	<0.50	<0.50	<0.50	<0.50
	03/26/96	<50	<0.50	<0.50	<0.50	<0.50
	06/13/96	<50	<0.50	<0.50	<0.50	<0.50

NOTES: < = Below indicated detection limit.
ND = Reported as "nondetect" by previous consultant.
NS = Not sampled.

TABLE 2
GROUND WATER ANALYTICAL RESULTS
BEACON STATION #720
1088 MARINA BOULEVARD, SAN LEANDRO, CALIFORNIA
(All results in micrograms per Liter)

Monitoring Well	Date Collected	Total Petroleum Hydrocarbons	Aromatic Volatile Organics			
		Gasoline	Benzene	Toluene	Ethyl-benzene	Total Xylenes
MW-7	03/30/92	ND	ND	ND	ND	ND
	07/01/92	ND	ND	ND	ND	ND
	09/30/92	ND	ND	ND	ND	ND
	11/19/92	<50	<0.5	<0.5	<0.5	<0.5
	02/03/93	<50	<0.5	<0.5	<0.5	<0.5
	05/25/93	NS	NS	NS	NS	NS
	09/22/93	<50	0.51	0.82	<0.5	0.81
	12/21/93	<50	<0.5	<0.5	<0.5	<0.5
	03/18/94	<50	<0.5	<0.5	<0.5	<0.5
	06/15/94	<50	<0.5	<0.5	<0.5	<0.5
	09/14/94	<50	<0.5	<0.5	<0.5	<0.5
	12/19/94	<50	<0.5	<0.5	<0.5	<0.5
	03/07/95	<50	<0.5	<0.5	<0.5	<0.5
	06/08/95	<50	<0.5	<0.5	<0.5	<0.5
	09/22/95	<50	<0.50	<0.50	<0.50	<0.50
	12/27/95	<50	<0.50	<0.50	<0.50	<0.50
	03/26/96	<50	<0.50	<0.50	<0.50	<0.50
	06/13/96	<50	<0.50	<0.50	<0.50	<0.50
MW-8	03/30/92	3,000	1,700	880	970	1,900
	07/01/92	72,000	1,800	550	520	2,200
	09/30/92	12,000	680	140	140	560
	11/19/92	9,600	530	310	130	560
	02/03/93	44,000	1,500	1,300	490	2,300
	05/25/93	7,400	580	160	170	480
	09/22/93	2,400	490	45	37	140
	12/21/93	1,400	240	7.5	<2.5	82
	03/18/94	8,600	1,600	680	470	1,900
	06/15/94	4,800	980	380	260	1,200
	09/14/94	6,600	1,200	280	330	1,100
	12/19/94	8,400	1,800	390	500	2,000
	03/07/95	7,400	1,400	370	440	2,000
	06/08/95	6,000	790	220	290	1,400
	09/22/95	4,100	750	93	230	860
	12/27/95	5,400	860	140	350	1,400
	03/26/96	1,700	180	27	100	370
	06/13/96	2,400	300	67	220	850
MW-9	12/20/94	16,000	2,500	1,400	690	2,800
	03/07/95	5,200	1,600	250	320	520
	06/08/95	4,900	1,000	98	300	200
	09/22/95	4,000	1,100	82	190	200
	12/27/95	2,800	960	100	200	250
	03/26/96	1,600	380	44	96	110
	06/13/96	1,800	340	71	140	180

NOTES: < = Below indicated detection limit.
ND = Reported as "nondetect" by previous consultant.
NS = Not sampled.

ATTACHMENT A

ULTRAMAR FIELD PROCEDURES

ATTACHMENT A - ULTRAMAR FIELD PROCEDURES

The following section describes procedures used by field personnel in the performance of ground water sampling at Ultramar Inc. sites.

Ground Water Level and Total Depth Determination

A water level indicator is lowered down the well and a measurement of the depth to water from an established reference point on the casing is taken. The indicator probe is used to sound the bottom of the well and a measurement of the total depth of the well is taken. Both the water level and total depth measurements are taken to the nearest 0.01-foot.

Visual Analysis of Ground Water

Prior to purging and sampling ground water monitoring wells, a water sample is collected from each well for subjective analysis. The visual analysis involves gently lowering a clean, disposable, polyethylene bailer to approximately one-half the bailer length past the water table interface. The bailer is then retrieved, and the sample contained within the bailer is examined for floating product or the appearance of a petroleum product sheen. If measurable free product is noted in the bailer, a water/product interface probe is used to determine the thickness of the free product to the nearest 0.01-foot. The thickness of free product is determined by subtracting the depth to product from the depth to water.

Monitoring Well Purging and Sampling

Monitoring wells are purged by removing approximately four casing volumes of water from the well using a clean disposable bailer or electrical submersible purge pump. Purge volumes are calculated prior to purging. During purging, the temperature, pH, and electric conductivity of the purge water are monitored. The well is considered to be sufficiently purged when: The four casing volumes have been removed; the temperature, pH, and conductivity values have stabilized to within 10% of the initial readings; and the ground water being removed is relatively free of suspended solids. After purging, ground water levels are allowed to stabilize to within 80% of the initial water level reading. A water sample is then collected from each well with a clean, disposable polyethylene bailer. If the well is bailed or pumped dry prior to removing the minimum volume of water, the ground water is allowed to recharge. If the well has recharged to within 80% of the initial depth to water reading within two hours, the well will continue to be purged until the minimum volume of water has been removed. If the well has not recharged to at least 80% of the initial depth to water reading within two hours, the well is considered to contain formational water and a ground water sample is collected. Ground water removed from the well is stored in 55-gallon drums at the site and labeled pending disposal.

In wells where free product is detected, the wells will be bailed to remove the free product. An estimate of the volume of product and water well be recorded. If the free product thickness is reduced to the point where a measurable thickness is no longer present in the well, a ground water sample will be collected. If free product persists throughout the purging process, a final free product thickness measurement will be taken and a ground water sample will not be collected.

Ground water samples are stored in 40-milliliter vials so that air passage through the sample is minimized (to prevent volatilization of the sample). The vial is tilted and filled slowly until an upward convex meniscus forms over the mouth of the vial. The Teflon™ side of the septum (in cap) is then placed against the meniscus, and the cap is screwed on tightly. The sample is then inverted and the bottle is tapped lightly to check for air bubbles. If an air bubble is present in the vial, the cap is removed and more sample is transferred from the bailer. The vial is then resealed and rechecked for air bubbles. The sample is then appropriately labeled and stored on ice from the time of collection through the time of delivery to the laboratory. The Chain-of-Custody form is completed to ensure sample integrity. Ground water samples are transported to a state-certified laboratory and analyzed within the U.S. Environmental Protection Agency-specified hold times for the specified analytes.

ATTACHMENT B

DOULOS ENVIRONMENTAL FIELD DATA SHEETS

DOULOS ENVIRONMENTAL COMPANY
GROUNDWATER/LIQUID LEVEL DATA
(measurements in feet)

Project Address: Beacon #720, 1088 Marina Blvd. Date: 6-13-96

San Leandro, CA Project No.: 94-720-01

Recorded by: Hal Hansen

Well No	Time	Well Elev. TOC	Depth to Gr. Water	Measured Total Depth	Gr. Water Elevation	Depth to Product	Product Thickness	Comments
MW-1	2:56		13.10	17.09				Slight odor no sheen
MW-2	3:06		12.79	26.39				slight odor no sheen
MW-3	2:51		12.61	28.45				no odor no sheen
MW-4	3:16		13.18	27.86				slight odor no sheen
MW-5	3:11		12.98	28.84				slight odor no sheen
MW-6	2:45		12.55	14.98				no odor no sheen
MW-7	2:40		11.76	25.90				no odor no sheen
MW-8	2:59		13.81	27.92				slight odor no sheen
MW-9	3:23		12.84	24.53				slight odor no sheen

Notes:

DOULOS ENVIRONMENTAL COMPANY SAMPLING INFORMATION SHEET

Client: Ultramar Sampling Date: 6-13-96

Site: Beacon #720 Project No.: 94-720-01

1088 Marina Boulevard Well Designation: MW-1

San Leandro, CA

Is setup of traffic control devices required? (NO) YES time:_____ hours
Is there standing water in well box? (NO) YES Above TOC Below TOC
Is top of casing cut level? NO (YES) If no, see remarks
Is well cap sealed and locked? NO (YES) If no, see remarks
Height of well casing riser (in inches): 6
Well cover type: 8" UV_____ 12" UV_____ 12" EMCO_____ 8" BK_____
12" BK_____ 12" DWP_____ 12" CNI X 36" CNI_____ Other_____
General condition of wellhead assembly: Excellent (Good) Fair Poor

Purging Equipment: _____2" disposable bailer _____Submersible pump
_____2" PVC bailer _____Dedicated bailer
_____4" PVC bailer X Centrifugal pump

Sampled with: Disposable bailer: X Teflon bailer:_____

Well Diameter: 2" X 4"____ 6"____ 8"____

Purge Vol. Multiplier: 0.16 0.65 1.47 2.61 gal/ft.

Initial Measurement
Time: 2:56
Depth of well: 17.02
Depth to water: 13.10

Recharge Measurement
Time: 4:27
Depth to water: 13.17

Calculated purge: 2.5 gal
Actual purge: 2.5 gal

Start purge: 4:17 Sampling time: 4:24

Time	Temp.	E.C.	pH	Turbidity	Volume
4:17	67.9	723	7.08	—	1
4:18	67.8	637	6.90	—	2
4:18	67.4	629	6.68	—	3
4:19	67.1	626	665	—	4

Sample appearance: Clear Lock: Dolphin

Equipment replaced: (Check all that apply) Note condition of replaced item
2" Locking Cap:_____ Lock #3753:_____ 7/32 Allenhead:_____
4" Locking Cap:_____ Lock-Dolphin:_____ 9/16 Bolt:_____
6" Locking Cap:_____ Pinned Allenhead (DWP):_____

Remarks: 8 PPM

NOT SURVEY NEW BOX

Signature: Kurt Kramer

DOULOS ENVIRONMENTAL COMPANY SAMPLING INFORMATION SHEET

Client: Ultramar Sampling Date: 6-13-96

Site: Beacon #720 Project No.: 94-720-01

1088 Marina Boulevard Well Designation: MW-2

San Leandro, CA

Is setup of traffic control devices required? (NO) YES time:_____ hours
Is there standing water in well box? (NO) YES Above TOC Below TOC
Is top of casing cut level? NO (YES) If no, see remarks
Is well cap sealed and locked? NO (YES) If no, see remarks
Height of well casing riser (in inches): 2
Well cover type: 8" UV_____ 12" UV_____ 12" EMCO_____ 8" BK_____
12" BK_____ 12" DWP_____ 12" CNI_____ 36" CNI_____ Other 12" POMECO
General condition of wellhead assembly: Excellent (Good) Fair Poor

Purging Equipment:
_____2" disposable bailer
_____2" PVC bailer
_____4" PVC bailer
_____Submersible pump
_____Dedicated bailer
X Centrifugal pump

Sampled with: Disposable bailer: X Teflon bailer:_____

Well Diameter: 2" X 4"____ 6"____ 8"____

Purge Vol. Multiplier: 0.16 0.65 1.47 2.61 gal/ft.

Initial Measurement
Time: 3:06
Depth of well: 26.39
Depth to water: 12.79

Recharge Measurement
Time: 5:04
Depth to water: 13.17

Calculated purge: 8.7 gal
Actual purge: 8.7 gal

Start purge: 4:51 Sampling time: 5:08

Time	Temp.	E.C.	pH	Turbidity	Volume
4:52	72.9	9.80	6.91	—	1
4:54	73.8	9.71	6.71	—	2
4:55	73.6	9.49	6.50	—	3
4:56	73.4	9:38	6.48	—	4

Sample appearance: Clear Lock: Dolphin

Equipment replaced: (Check all that apply) Note condition of replaced item
2" Locking Cap:_____ Lock #3753:_____ 7/32 Allenhead:_____
4" Locking Cap:_____ Lock-Dolphin: X 9/16 Bolt:_____
6" Locking Cap:_____ Pinned Allenhead (DWP):_____

Remarks: 1 PPM

NOT SURVEY NEW BOX

Signature: [signature]

DOULOS ENVIRONMENTAL COMPANY SAMPLING INFORMATION SHEET

Client: Ultramar Sampling Date: 6-13-96

Site: Beacon #720 Project No.: 94-720-01

1088 Marina Boulevard Well Designation: MW-3

San Leandro, CA

Is setup of traffic control devices required? (NO) YES time:_____ hours
Is there standing water in well box? (NO) YES Above TOC Below TOC
Is top of casing cut level? NO (YES) If no, see remarks
Is well cap sealed and locked? NO (YES) If no, see remarks
Height of well casing riser (in inches): 2
Well cover type: 8" UV_____ 12" UV_____ 12" EMCO_____ 8" BK_____
12" BK_____ 12" DWP_____ 12" CNI X 36" CNI_____ Other_____
General condition of wellhead assembly: Excellent (Good) Fair Poor

Purging Equipment:
_____2" disposable bailer
_____2" PVC bailer
_____4" PVC bailer
_____Submersible pump
_____Dedicated bailer
X Centrifugal pump

Sampled with: Disposable bailer: X Teflon bailer:_____

Well Diameter: 2" X 4"____ 6"____ 8"____

Purge Vol. Multiplier: 0.16 0.65 1.47 2.61 gal/ft.

Initial Measurement
Time: 2:51
Depth of well: 28.45
Depth to water: 12.61

Recharge Measurement
Time: 4:09
Depth to water: 12.73

Calculated purge: 10.5 gal
Actual purge: 10.5 gal

Start purge: 3:58 Sampling time: 4:12

Time	Temp.	E.C.	pH	Turbidity	Volume
3:59	68.3	691	7.24	———	1
4:02	68.4	678	6.91	———	2
4:03	68.1	670	6.84	———	3
4:04	68.7	668	6.80	———	4

Sample appearance: clear Lock: Dolphin

Equipment replaced: (Check all that apply) Note condition of replaced item
2" Locking Cap:_____ Lock #3753:_____ 7/32 Allenhead:_____
4" Locking Cap:_____ Lock-Dolphin:_____ 9/16 Bolt:_____
6" Locking Cap:_____ Pinned Allenhead (DWP):_____

Remarks: 1 PPM

NOT SURVEY CASING EXTENTION NEW BOX

Signature: Karl Kumar

DOULOS ENVIRONMENTAL COMPANY SAMPLING INFORMATION SHEET

Client: Ultramar Sampling Date: 6-13-96

Site: Beacon #720 Project No.: 94-720-01

1088 Marina Boulevard Well Designation: MW- 4

San Leandro, CA

Is setup of traffic control devices required? (NO) YES time:_____ hours
Is there standing water in well box? (NO) YES Above TOC Below TOC
Is top of casing cut level? NO (YES) If no, see remarks
Is well cap sealed and locked? NO (YES) If no, see remarks
Height of well casing riser (in inches): 3
Well cover type: 8" UV_____ 12" UV_____ 12" EMCO_____ 8" BK_____
12" BK_____ 12" DWP_____ 12" CNI X 36" CNI_____ Other_____
General condition of wellhead assembly: Excellent (Good) Fair Poor

Purging Equipment:
_____2" disposable bailer
_____2" PVC bailer
_____4" PVC bailer
_____Submersible pump
_____Dedicated bailer
X Centrifugal pump

Sampled with: Disposable bailer: X Teflon bailer:_____

Well Diameter: 2" X 4"____ 6"____ 8"____

Purge Vol. Multiplier: 0.16 0.65 1.47 2.61 gal/ft.

Initial Measurement
Time: 3:16
Depth of well: 27.86
Depth to water: 13.18

Recharge Measurement
Time: 5:19
Depth to water: 14.10

Calculated purge: 9.3 gal
Actual purge: 9.3 gal

Start purge: 5:12 Sampling time: 5:25

Time	Temp.	E.C.	pH	Turbidity	Volume
5:13	75.7	870	7.08	—	1
5:13	75.3	861	6.91	—	2
5:14	75.2	850	6.71	—	3
5:15	75.1	848	6.68	—	4

Sample appearance: clear Lock: Dolphin

Equipment replaced: (Check all that apply) Note condition of replaced item
2" Locking Cap:_____ Lock #3753:_____ 7/32 Allenhead:_____
4" Locking Cap:_____ Lock-Dolphin: X 9/16 Bolt:_____
6" Locking Cap:_____ Pinned Allenhead (DWP):_____

Remarks: 1 PPM

NOT SURVEY NEW BOX

Signature: Karl Kranen

DOULOS ENVIRONMENTAL COMPANY SAMPLING INFORMATION SHEET

Client: Ultramar Sampling Date: 6-13-96

Site: Beacon #720 Project No.: 94-720-01

1088 Marina Boulevard Well Designation: MW- 5

San Leandro, CA

Is setup of traffic control devices required? (NO) YES time:_____ hours
Is there standing water in well box? (NO) YES Above TOC Below TOC
Is top of casing cut level? NO (YES) If no, see remarks
Is well cap sealed and locked? NO (YES) If no, see remarks
Height of well casing riser (in inches): 2
Well cover type: 8" UV_____ 12" UV_____ 12" EMCO_____ 8" BK_____
12" BK_____ 12" DWP_____ 12" CNI_____ 36" CNI X Other_____
General condition of wellhead assembly: Excellent Good Fair Poor

Purging Equipment: _____2" disposable bailer _____Submersible pump
_____2" PVC bailer _____Dedicated bailer
_____4" PVC bailer X Centrifugal pump

Sampled with: Disposable bailer: X Teflon bailer:_____

Well Diameter: 2" X 4"____ 6"____ 8"____

Purge Vol. Multiplier: 0.16 0.65 1.47 2.61 gal/ft.

Initial Measurement
Time: 3:11
Depth of well: 28.84
Depth to water: 12.98

Recharge Measurement
Time: 5:41
Depth to water: 13.31

Calculated purge: 10.1 gal
Actual purge: 10.1 gal

Start purge: 5:31 Sampling time: 5:45

Time	Temp.	E.C.	pH	Turbidity	Volume
5:32	70.6	1067	7.10	—	1
5:34	70.3	1051	6.61	—	2
5:36	70.0	1047	6.45	—	3
5:37	70.1	1043	6.43	—	4

Sample appearance: Clear Lock: Dolphin

Equipment replaced: (Check all that apply) Note condition of replaced item
2" Locking Cap: X Lock #3753:_____ 7/32 Allenhead:_____
4" Locking Cap:_____ Lock-Dolphin: X 9/16 Bolt:_____
6" Locking Cap:_____ Pinned Allenhead (DWP):_____

Remarks: 1 PPM
NOT SURVEY NEW BOX

Signature: Robert Kaner

DOULOS ENVIRONMENTAL COMPANY SAMPLING INFORMATION SHEET

Client: Ultramar Sampling Date: 6-13-96

Site: Beacon #720 Project No.: 94-720-01

1088 Marina Boulevard Well Designation: MW- 6

San Leandro, CA

Is setup of traffic control devices required? (NO) YES time:_____ hours
Is there standing water in well box? (NO) YES Above TOC Below TOC
Is top of casing cut level? NO (YES) If no, see remarks
Is well cap sealed and locked? NO (YES) If no, see remarks
Height of well casing riser (in inches): 8
Well cover type: 8" UV_____ 12" UV_____ 12" EMCO_____ 8" BK_____
12" BK X 12" DWP_____ 12" CNI_____ 36" CNI_____ Other_____
General condition of wellhead assembly: Excellent (Good) Fair Poor

Purging Equipment:
_____2" disposable bailer
_____2" PVC bailer
_____4" PVC bailer
_____Submersible pump
_____Dedicated bailer
X Centrifugal pump

Sampled with: Disposable bailer: X Teflon bailer:_____

Well Diameter: 2" X 4"____ 6"____ 8"____

Purge Vol. Multiplier: 0.16 0.65 1.47 2.61 gal/ft.

Initial Measurement
Time: 2:45
Depth of well: 14.98
Depth to water: 12.55

Recharge Measurement
Time: 3:52
Depth to water: 12.57

Calculated purge: 1.6 gal
Actual purge: 1.6 gal

Start purge: 3:40 Sampling time: 3:55

Time	Temp.	E.C.	pH	Turbidity	Volume
3:41	75.7	1460	7.91	———	1
3:42	75.9	1331	7.83	———	2
3:43	75.8	1324	7.76	———	3
3:45	75.6	1321	7.72	———	4

Sample appearance: clear Lock: Dolphin

Equipment replaced: (Check all that apply) Note condition of replaced item
2" Locking Cap:_____ Lock #3753:_____ 7/32 Allenhead:_____
4" Locking Cap:_____ Lock-Dolphin:_____ 9/16 Bolt:_____
6" Locking Cap:_____ Pinned Allenhead (DWP):_____

Remarks: 8 PPM

Signature: [signature]

DOULOS ENVIRONMENTAL COMPANY SAMPLING INFORMATION SHEET

Client: Ultramar Sampling Date: 6-13-96

Site: Beacon #720 Project No.: 94-720-01

1088 Marina Boulevard Well Designation: MW- 7

San Leandro, CA

Is setup of traffic control devices required? (NO) YES time:_____ hours
Is there standing water in well box? (NO) YES Above TOC Below TOC
Is top of casing cut level? NO (YES) If no, see remarks
Is well cap sealed and locked? NO (YES) If no, see remarks
Height of well casing riser (in inches): 4
Well cover type: 8" UV_____ 12" UV_____ 12" EMCO_____ 8" BK_____
12" BK X 12" DWP_____ 12" CNI_____ 36" CNI_____ Other_____
General condition of wellhead assembly: Excellent (Good) Fair Poor

Purging Equipment: _____2" disposable bailer _____Submersible pump
_____2" PVC bailer _____Dedicated bailer
_____4" PVC bailer X Centrifugal pump

Sampled with: Disposable bailer: X Teflon bailer:_____

Well Diameter: 2" X 4"____ 6"____ 8"____

Purge Vol. Multiplier: 0.16 0.65 1.47 2.61 gal/ft.

Initial Measurement
Time: 2:40
Depth of well: 25.20
Depth to water: 11.76

Recharge Measurement
Time: 3:34
Depth to water: 11.90

Calculated purge: 8.6 gal
Actual purge: 8.6 gal

Start purge: 3:27 Sampling time: 3:36

Time	Temp.	E.C.	pH	Turbidity	Volume
3:28	80.3	1391	7.67	———	1
3:29	80.0	1361	7.51	———	2
3:30	80.4	1274	7.40	———	3
3:30	80.6	1260	7.33	———	4

Sample appearance: clear Lock: Dolphin

Equipment replaced: (Check all that apply) Note condition of replaced item
2" Locking Cap:_____ Lock #3753:_____ 7/32 Allenhead:_____
4" Locking Cap:_____ Lock-Dolphin:_____ 9/16 Bolt:_____
6" Locking Cap:_____ Pinned Allenhead (DWP):_____

Remarks: 4 PPM

Signature: Neil Hansen

DOULOS ENVIRONMENTAL COMPANY SAMPLING INFORMATION SHEET

Client: Ultramar Sampling Date: 6-13-96

Site: Beacon #720 Project No.: 94-720-01

1088 Marina Boulevard Well Designation: MW- 8

San Leandro, CA

Is setup of traffic control devices required? (NO) YES time:______ hours
Is there standing water in well box? (NO) YES Above TOC Below TOC
Is top of casing cut level? NO (YES) If no, see remarks
Is well cap sealed and locked? NO (YES) If no, see remarks
Height of well casing riser (in inches): 6
Well cover type: 8" UV_____ 12" UV_____ 12" EMCO_____ 8" BK_____
12" BK_____ 12" DWP_____ 12" CNI X 36" CNI_____ Other_____
General condition of wellhead assembly: Excellent (Good) Fair Poor

Purging Equipment: ____2" disposable bailer ____Submersible pump
____2" PVC bailer ____Dedicated bailer
____4" PVC bailer X Centrifugal pump

Sampled with: Disposable bailer: X Teflon bailer:_____

Well Diameter: 2" X 4"____ 6"____ 8"____

Purge Vol. Multiplier: 0.16 0.65 1.47 2.61 gal/ft.

Initial Measurement
Time: 2:59
Depth of well: 27.92
Depth to water: 13.81

Recharge Measurement
Time: 4:45
Depth to water: 14.07

Calculated purge: 9.0 ga
Actual purge: 9.0 ga

Start purge: 4:36 Sampling time: 4:48

Time	Temp.	E.C.	pH	Turbidity	Volume
4:37	71.4	789	6.93	—	1
4:38	71.6	771	6.81	—	2
4:39	71.9	760	6.75	—	3
4:40	71.4	761	6.73	—	4

Sample appearance: Clear Lock: Dolphin

Equipment replaced: (Check all that apply) Note condition of replaced item
2" Locking Cap:_____ Lock #3753:_____ 7/32 Allenhead:_____
4" Locking Cap:_____ Lock-Dolphin: X 9/16 Bolt:_____
6" Locking Cap:_____ Pinned Allenhead (DWP):_____

Remarks: 2 PPM
NOT SURVEY NEW BOX

Signature: [signature]

DOULOS ENVIRONMENTAL COMPANY SAMPLING INFORMATION SHEET

Client: Ultramar Sampling Date: 6-13-96

Site: Beacon #720 Project No.: 94-720-01

1088 Marina Boulevard Well Designation: MW- 9

San Leandro, CA

Is setup of traffic control devices required? (NO) YES time:_____ hours
Is there standing water in well box? (NO) YES Above TOC Below TOC
Is top of casing cut level? NO (YES) If no, see remarks
Is well cap sealed and locked? NO (YES) If no, see remarks
Height of well casing riser (in inches): 4
Well cover type: 8" UV_____ 12" UV_____ 12" EMCO_____ 8" BK_____
12" BK_____ 12" DWP_____ 12" CNI_____ 36" CNI X Other_____
General condition of wellhead assembly: Excellent Good Fair Poor

Purging Equipment: _____2" disposable bailer _____Submersible pump
_____2" PVC bailer _____Dedicated bailer
_____4" PVC bailer X Centrifugal pump

Sampled with: Disposable bailer: X Teflon bailer:_____

Well Diameter: 2"____ 4" X 6"____ 8"____

Purge Vol. Multiplier: 0.16 0.65 1.47 2.61 gal/ft.

Initial Measurement
Time: 3:43
Depth of well: 24.53
Depth to water: 12.84

Recharge Measurement
Time: 6:10
Depth to water: 13.00

Calculated purge: 30.3 gal
Actual purge: 30.3 gal

Start purge: 5:50 Sampling time: 6:15

Time	Temp.	E.C.	pH	Turbidity	Volume
5:54	73.0	989	7.66	———	1
5:56	72.0	961	7.38	———	2
5:59	72.3	9.20	7.24	———	3
6:05	72.2	915	7.21	———	4

Sample appearance: Clear Lock: Dolphin

Equipment replaced: (Check all that apply) Note condition of replaced item
2" Locking Cap:_____ Lock #3753:_____ 7/32 Allenhead:_____
4" Locking Cap:_____ Lock-Dolphin:_____ 9/16 Bolt:_____
6" Locking Cap:_____ Pinned Allenhead (DWP):_____

Remarks: 0 PPM
NOT SURVEY NEW BOX

Signature: Karl Kanzer

ATTACHMENT C

HISTORICAL GROUND WATER ELEVATION DATA

TABLE 1

GROUNDWATER ELEVATIONS

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
Groundwater Monitoring Well MW-2:		**Elevation of Top of Casing = 29.57 feet**
June 23, 1987	14.51	15.06

TABLE 1

GROUNDWATER ELEVATIONS

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
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
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, 1088	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

Date Sampled	Depth to Groundwater (Feet)	Groundwater Elevation (Feet)
August 10, 1989	16.30	13.42
November 08, 1989	16.29	13.43
February 20, 1990	15.62	14.10
May 18, 1990	16.34	13.38
September 15, 1990	16.79	12.93
November 26, 1990	17.08	12.64
February 07, 1991	16.37	13.35
May 14, 1991	14.87	14.85
August 16, 1991	16.25	13.47
Groundwater Monitoring Well MW-4:		**New Elevation of Top of Casing = 32.90 feet**
December 24, 1991	17.10	15.80
March 30, 1992	13.60	19.30
Groundwater Monitoring Well MW-5:		**Elevation of Top of Casing = 29.55 feet**
June 23, 1987	14.63	14.92
July 06, 1987	14.79	14.76
August 06, 1987	15.07	14.48
November 04, 1987	15.61	13.94
February 02, 1988	13.84	15.71
May 02, 1988	14.77	14.78
November 21, 1988	12.84	16.71
February 14, 1989	15.72	13.83
May 02, 1989	14.68	14.87
August 10, 1989	16.03	13.52
November 08, 1989	16.33	13.22
February 20, 1990	15.44	14.11

TABLE 1

GROUNDWATER ELEVATIONS

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
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
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
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

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

ATTACHMENT D

HISTORICAL GROUND WATER ANALYTICAL DATA

TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well No.	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	TPH-G (µg/L)	Comments
MW-1	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
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

Well No.	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (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
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

Well No.	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (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
MW-4	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

Well No.	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (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
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)	Ethyl-benzene (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
MW-6	Dec. 24, 1991	ND	ND	ND	ND	79	
	Mar. 30, 1992	2.1	1.1	ND	0.6	73	
MW-7	Dec. 24, 1991	ND	ND	ND	ND	ND	
	Mar. 30, 1992	ND	ND	ND	ND	ND	
MW-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

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)

ATTACHMENT E

LABORATORY REPORT AND CHAIN-OF-CUSTODY FORM

WEST LABORATORY

Sample Log 14906
July 12, 1996

Dale van Dam
El Dorado Environmental
2221 Goldorado Trail
El Dorado, CA 95623

Subject : 9 water samples
Project Name : Beacon 720
Project Number : 94-720-01

Location : San Leandro

Dear Mr. van Dam,

Chemical analysis on the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. USEPA protocols for sample storage and preservation were followed.

WEST Laboratory is certified by the State of California (# 1346). If you have any questions regarding procedures or results, please call me at 916-753-9500.

Sincerely,

Joel L. Kiff

WEST LABORATORY

Sample Log 14906
July 12, 1996

Project Name : Beacon 720
Project Number : 94-720-01

Date Received : 06/14/96

Sample : MW-1 **Matrix : Water** **Sampled : 06/13/96**

Parameter	Date Prep.	Date Analyzed	Prep. Method	Analysis Method	MRL	Result	Units
Alkalinity		06/28/96		EPA 310.1	10	360	mg CaCO3/L
Dissolved Iron	06/21/96	07/03/96	EPA 3020	EPA 6010	0.10	0.41	mg/L
Nitrate		06/15/96		EPA 353.3	0.050	<0.050	mg/L
Nitrite		06/14/96		EPA 353.3	0.050	<0.050	mg/L
Sulfate		07/11/96		EPA 375.4	10	<10	mg/L
Total Dissolved Solids		06/19/96		EPA 160.1	15	420	mg/L

Sample : MW-2 **Matrix : Water** **Sampled : 06/13/96**

Parameter	Date Prep.	Date Analyzed	Prep. Method	Analysis Method	MRL	Result	Units
Alkalinity		06/28/96		EPA 310.1	10	540	mg CaCO3/L
Dissolved Iron	06/21/96	07/03/96	EPA 3020	EPA 6010	0.10	1.1	mg/L
Nitrate		06/15/96		EPA 353.3	0.050	<0.050	mg/L
Nitrite		06/14/96		EPA 353.3	0.050	<0.050	mg/L
Sulfate		07/11/96		EPA 375.4	10	<10	mg/L
Total Dissolved Solids		06/19/96		EPA 160.1	15	550	mg/L

Sample : MW-3 **Matrix : Water** **Sampled : 06/13/96**

Parameter	Date Prep.	Date Analyzed	Prep. Method	Analysis Method	MRL	Result	Units
Alkalinity		06/28/96		EPA 310.1	10	430	mg CaCO3/L
Dissolved Iron	06/21/96	07/03/96	EPA 3020	EPA 6010	0.10	<0.10	mg/L
Nitrate		06/15/96		EPA 353.3	0.050	<0.050	mg/L
Nitrite		06/14/96		EPA 353.3	0.050	<0.050	mg/L
Sulfate		07/11/96		EPA 375.4	10	<10	mg/L
Total Dissolved Solids		06/19/96		EPA 160.1	15	460	mg/L

MRL = Method Reporting Limit

Approved By : Joel L. Kiff

WEST LABORATORY

Sample Log 14906
July 12, 1996

Project Name : Beacon 720
Project Number : 94-720-01

Date Received : 06/14/96

Sample : MW-4 **Matrix : Water** **Sampled : 06/13/96**

Parameter	Date Prep.	Date Analyzed	Prep. Method	Analysis Method	MRL	Result	Units
Alkalinity		06/28/96		EPA 310.1	10	430	mg CaCO3/L
Dissolved Iron	06/21/96	07/03/96	EPA 3020	EPA 6010	0.10	<0.10	mg/L
Nitrate		06/15/96		EPA 353.3	0.050	<0.050	mg/L
Nitrite		06/14/96		EPA 353.3	0.050	<0.050	mg/L
Sulfate		07/11/96		EPA 375.4	10	26	mg/L
Total Dissolved Solids		06/19/96		EPA 160.1	15	500	mg/L

Sample : MW-5 **Matrix : Water** **Sampled : 06/13/96**

Parameter	Date Prep.	Date Analyzed	Prep. Method	Analysis Method	MRL	Result	Units
Alkalinity		06/28/96		EPA 310.1	10	630	mg CaCO3/L
Dissolved Iron	06/21/96	07/03/96	EPA 3020	EPA 6010	0.10	0.77	mg/L
Nitrate		06/15/96		EPA 353.3	0.050	<0.050	mg/L
Nitrite		06/14/96		EPA 353.3	0.050	<0.050	mg/L
Sulfate		07/11/96		EPA 375.4	10	<10	mg/L
Total Dissolved Solids		06/19/96		EPA 160.1	15	660	mg/L

Sample : MW-6 **Matrix : Water** **Sampled : 06/13/96**

Parameter	Date Prep.	Date Analyzed	Prep. Method	Analysis Method	MRL	Result	Units
Alkalinity		06/28/96		EPA 310.1	10	400	mg CaCO3/L
Dissolved Iron	06/21/96	07/03/96	EPA 3020	EPA 6010	0.10	<0.10	mg/L
Nitrate		06/15/96		EPA 353.3	0.050	0.32	mg/L
Nitrite		06/14/96		EPA 353.3	0.050	<0.050	mg/L
Sulfate		07/11/96		EPA 375.4	40	79	mg/L
Total Dissolved Solids		06/19/96		EPA 160.1	15	580	mg/L

MRL = Method Reporting Limit

Approved By : Joel L. Kiff

WEST LABORATORY

Sample Log 14906
July 12, 1996

Project Name : Beacon 720
Project Number : 94-720-01

Date Received : 06/14/96

Sample : MW-7 **Matrix : Water** **Sampled : 06/13/96**

Parameter	Date Prep.	Date Analyzed	Prep. Method	Analysis Method	MRL	Result	Units
Alkalinity		06/28/96		EPA 310.1	10	340	mg CaCO3/L
Dissolved Iron	06/21/96	07/03/96	EPA 3020	EPA 6010	0.10	<0.10	mg/L
Nitrate		06/15/96		EPA 353.3	2.5	16	mg/L
Nitrite		06/14/96		EPA 353.3	0.050	<0.050	mg/L
Sulfate		07/11/96		EPA 375.4	20	42	mg/L
Total Dissolved Solids		06/19/96		EPA 160.1	15	530	mg/L

Sample : MW-8 **Matrix : Water** **Sampled : 06/13/96**

Parameter	Date Prep.	Date Analyzed	Prep. Method	Analysis Method	MRL	Result	Units
Alkalinity		06/28/96		EPA 310.1	10	500	mg CaCO3/L
Dissolved Iron	06/21/96	07/03/96	EPA 3020	EPA 6010	0.10	0.64	mg/L
Nitrate		06/15/96		EPA 353.3	0.050	<0.050	mg/L
Nitrite		06/14/96		EPA 353.3	0.050	<0.050	mg/L
Sulfate		07/11/96		EPA 375.4	10	<10	mg/L
Total Dissolved Solids		06/19/96		EPA 160.1	15	530	mg/L

Sample : MW-9 **Matrix : Water** **Sampled : 06/13/96**

Parameter	Date Prep.	Date Analyzed	Prep. Method	Analysis Method	MRL	Result	Units
Alkalinity		06/28/96		EPA 310.1	10	520	mg CaCO3/L
Dissolved Iron	06/21/96	07/03/96	EPA 3020	EPA 6010	0.10	0.30	mg/L
Nitrate		06/15/96		EPA 353.3	0.050	<0.050	mg/L
Nitrite		06/14/96		EPA 353.3	0.050	<0.050	mg/L
Sulfate		07/11/96		EPA 375.4	10	14	mg/L
Total Dissolved Solids		06/19/96		EPA 160.1	15	560	mg/L

MRL = Method Reporting Limit

Approved By : Joel L. Kiff

WEST LABORATORY

Sample Log 14906

MTBE (Methyl-t-butyl ether) By EPA Method 8020/602

From : Beacon 720 (Proj. # 94-720-01)
Sampled : 06/13/96
Received : 06/14/96
Matrix : Water

MTBE	(MRL) ug/L	Measured Value ug/L
MW-1	(50)	<50
MW-2	(50)	1200
MW-3	(5.0)	28
MW-4	(5.0)	89
MW-5	(130)	1400
MW-6	(5.0)	<5.0
MW-7	(5.0)	<5.0
MW-8	(13)	42
MW-9	(13)	750

Approved By:

Joel Kiff
Senior Chemist

WEST LABORATORY

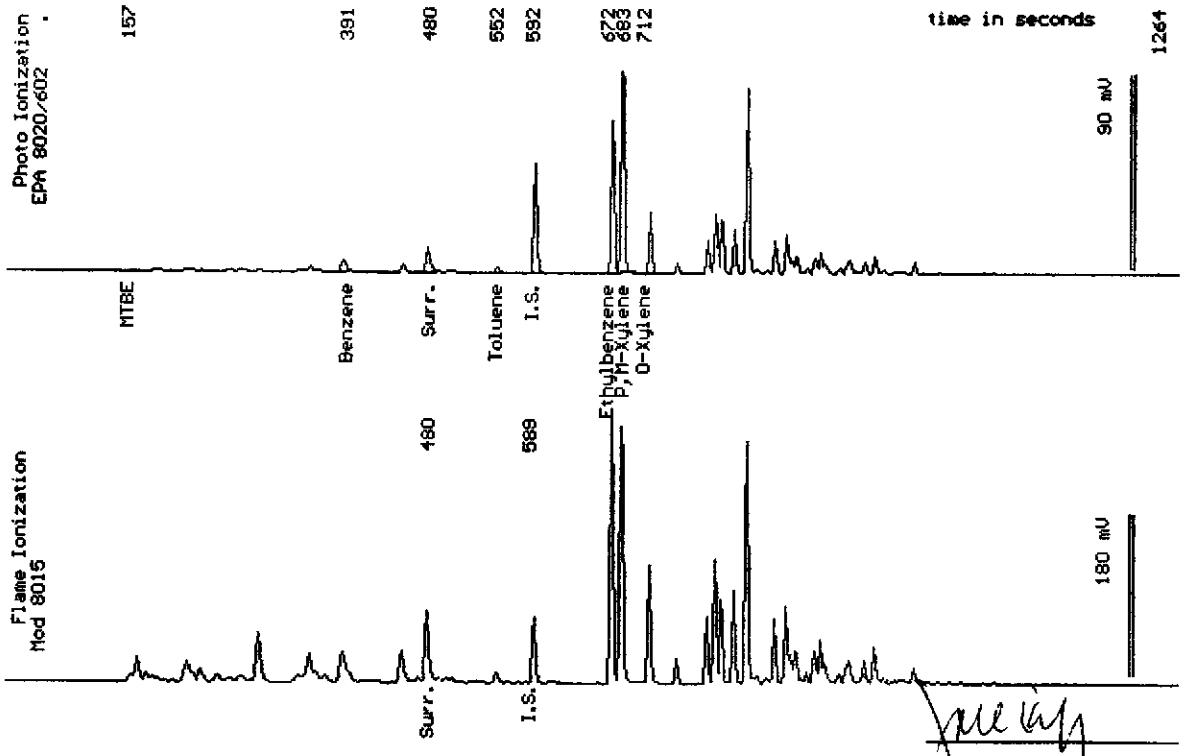
Sample Log 14906

14906-01

Sample: **MW-1**

From : Beacon 720 (Proj. # 94-720-01)
Sampled : 06/13/96
Dilution : 1:10 QC Batch : 2145N
Matrix : Water

Parameter	(MRL) ug/L	Measured Value ug/L
Benzene	(5.0)	86
Toluene	(5.0)	39
Ethylbenzene	(5.0)	1100
Total Xylenes	(5.0)	1700
TPH as Gasoline	(500)	9600
Surrogate Recovery		100 %



Date Analyzed: 06-27-96
Column : 0.53mm X 60m Restek Rtx-1301

Joel Kiff
Senior Chemist

WEST LABORATORY

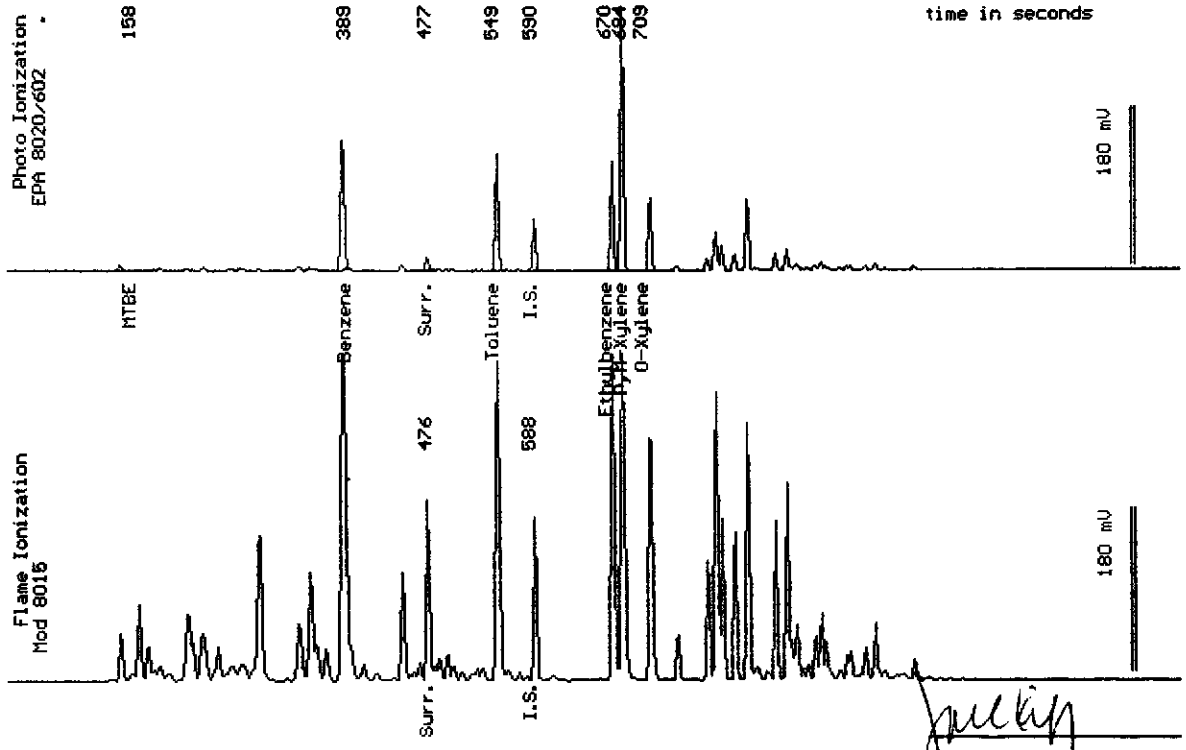
Sample Log 14906

14906-02

Sample: **MW-2**

From : Beacon 720 (Proj. # 94-720-01)
Sampled : 06/13/96
Dilution : 1:10 QC Batch : 2145E
Matrix : Water

Parameter	(MRL) ug/L	Measured Value ug/L
Benzene	(5.0)	1800
Toluene	(5.0)	1400
Ethylbenzene	(5.0)	1500
Total Xylenes	(5.0)	4500
TPH as Gasoline	(500)	11000
Surrogate Recovery		95 %



Date Analyzed: 06-21-96
Column : 0.53mm X 60m Restek Rtx-1301

Joel Kiff
Senior Chemist

WEST LABORATORY

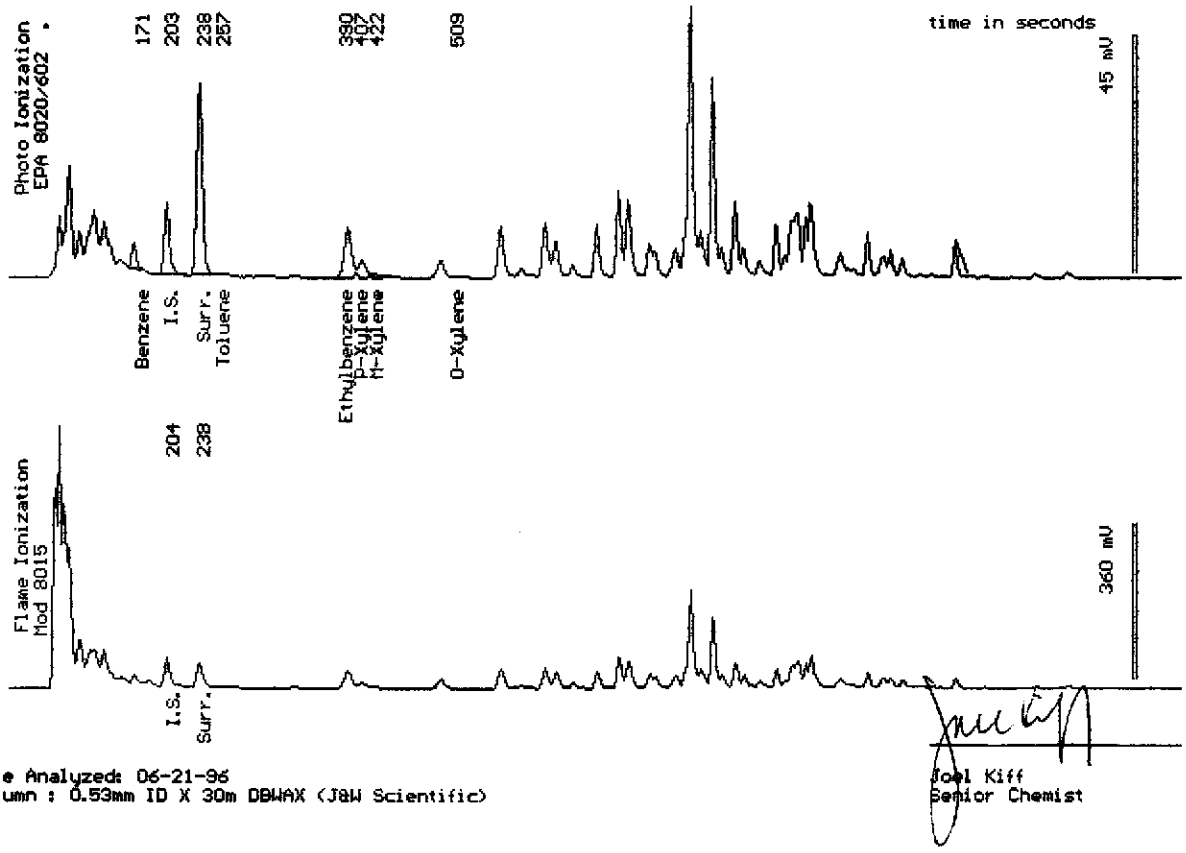
Sample Log 14906

14906-03

Sample: **MW-3**

From : Beacon 720 (Proj. # 94-720-01)
Sampled : 06/13/96
Dilution : 1:1 QC Batch : 4148G
Matrix : Water

Parameter	(MRL) ug/L	Measured Value ug/L	
Benzene	(.50)	5.1	
Toluene	(.50)	<.50	
Ethylbenzene	(.50)	21	
Total Xylenes	(.50)	6.5	
TPH as Gasoline	(50)	1300	
Surrogate Recovery		81	%



Date Analyzed: 06-21-96
Column : 0.53mm ID X 30m DBWAX (J&W Scientific)

Joel Kiff
Senior Chemist

WEST LABORATORY

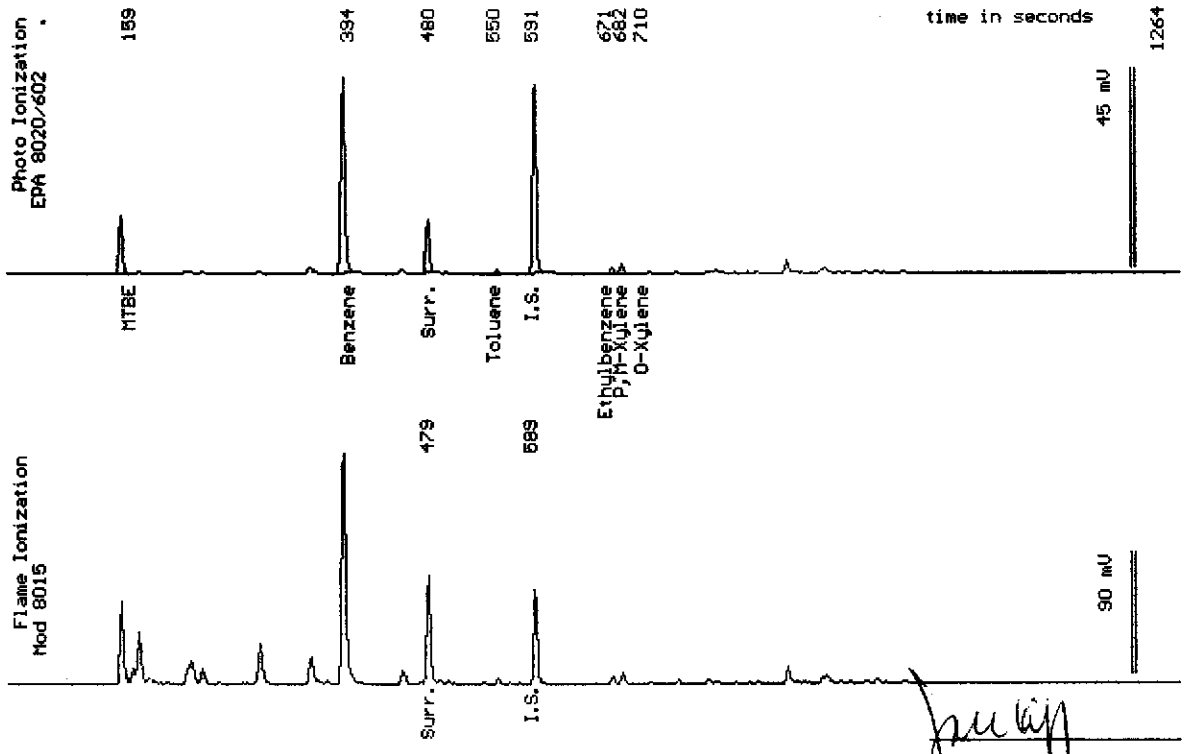
Sample Log 14906

14906-04

Sample: **MW-4**

From : Beacon 720 (Proj. # 94-720-01)
Sampled : 06/13/96
Dilution : 1:1 QC Batch : 2145N
Matrix : Water

Parameter	(MRL) ug/L	Measured Value ug/L	
Benzene	(.50)	64	
Toluene	(.50)	.93	
Ethylbenzene	(.50)	1.8	
Total Xylenes	(.50)	2.7	
TPH as Gasoline	(50)	240	
Surrogate Recovery		94	%



Date Analyzed: 06-26-96
Column : 0.53mm X 60m Restek Rtx-1301

Joel Kiff
Senior Chemist

WEST LABORATORY

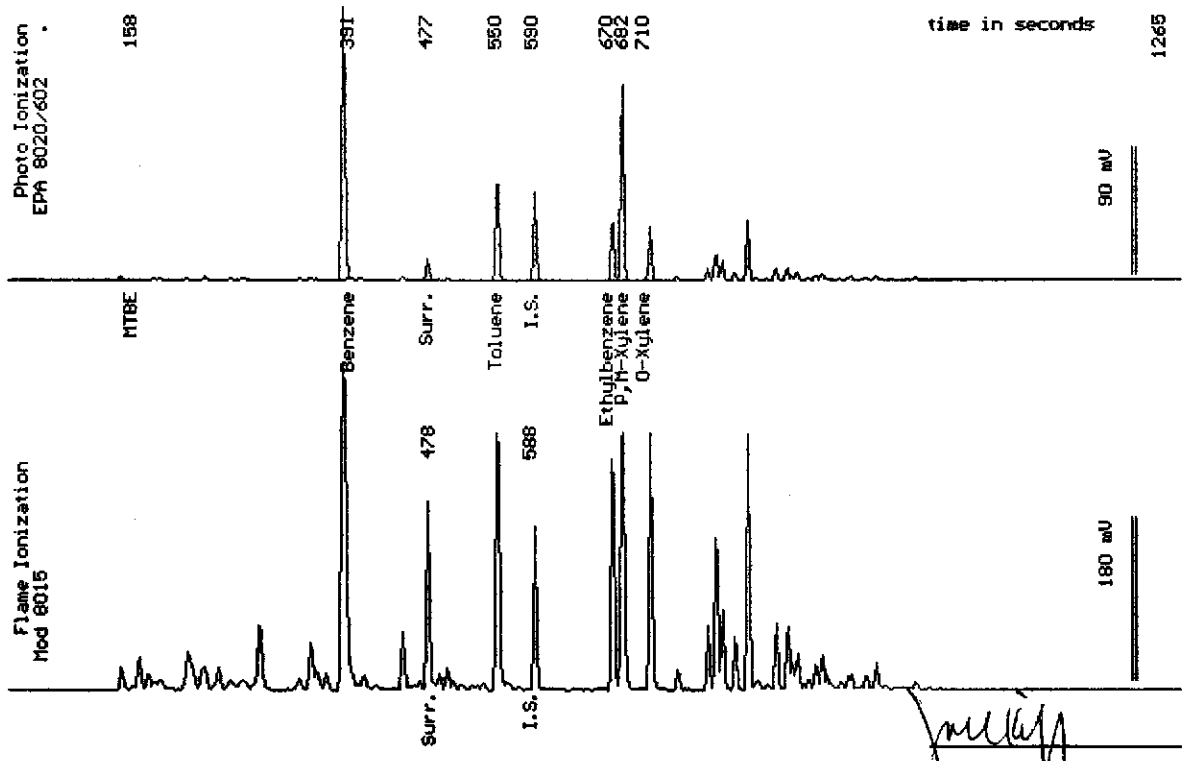
Sample Log 14906

14906-05

Sample: **MW-5**

From : Beacon 720 (Proj. # 94-720-01)
Sampled : 06/13/96
Dilution : 1:25 QC Batch : 2145E
Matrix : Water

Parameter	(MRL) ug/L	Measured Value ug/L
Benzene	(13)	5500
Toluene	(13)	2200
Ethylbenzene	(13)	1500
Total Xylenes	(13)	5300
TPH as Gasoline	(1300)	18000
Surrogate Recovery		97 %



Date Analyzed: 06-21-96
Column : 0.53mm X 60m Restek Rtx-1301

Joel Kiff
Senior Chemist

WEST LABORATORY

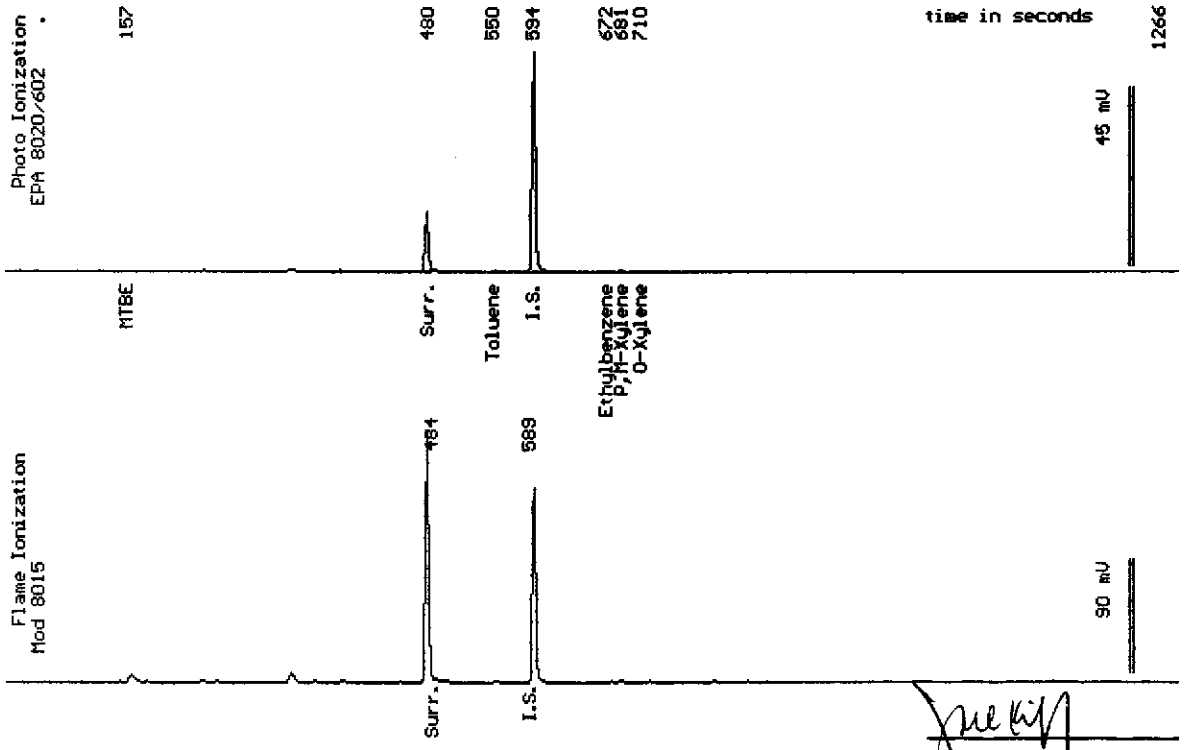
Sample Log 14906

14906-06

Sample: **MW-6**

From : Beacon 720 (Proj. # 94-720-01)
Sampled : 06/13/96
Dilution : 1:1 QC Batch : 2145D
Matrix : Water

Parameter	(MRL) ug/L	Measured Value ug/L
Benzene	(.50)	<.50
Toluene	(.50)	<.50
Ethylbenzene	(.50)	<.50
Total Xylenes	(.50)	<.50
TPH as Gasoline	(50)	<50
Surrogate Recovery		98 %



Date Analyzed: 06-21-96
Column : 0.53mm X 60m Restek Rtx-1301

Joel Kiff
Senior Chemist

WEST LABORATORY

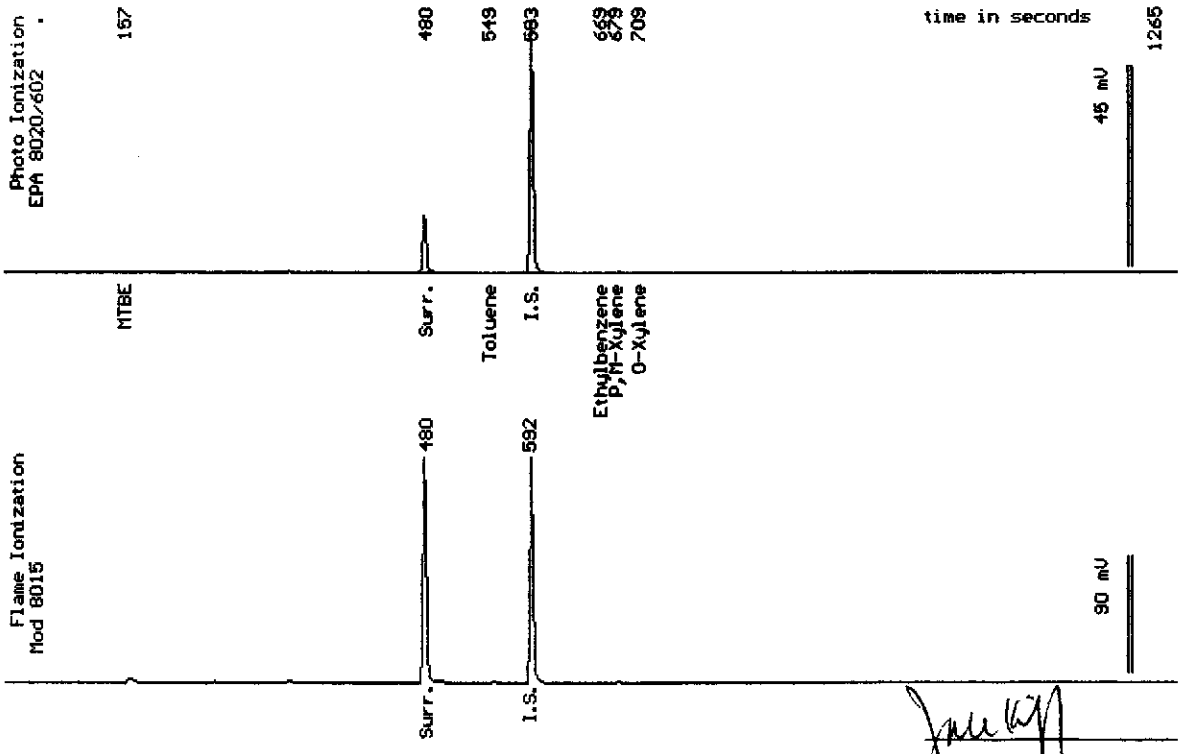
Sample Log 14906

14906-07

Sample: **MW-7**

From : Beacon 720 (Proj. # 94-720-01)
Sampled : 06/13/96
Dilution : 1:1 QC Batch : 2145D
Matrix : Water

Parameter	(MRL) ug/L	Measured Value ug/L
Benzene	(.50)	<.50
Toluene	(.50)	<.50
Ethylbenzene	(.50)	<.50
Total Xylenes	(.50)	<.50
TPH as Gasoline	(50)	<50
Surrogate Recovery		98 %



Date Analyzed: 06-21-96
Column : 0.53mm X 60m Restek Rtx-1301

Joel Kiff
Senior Chemist

WEST LABORATORY

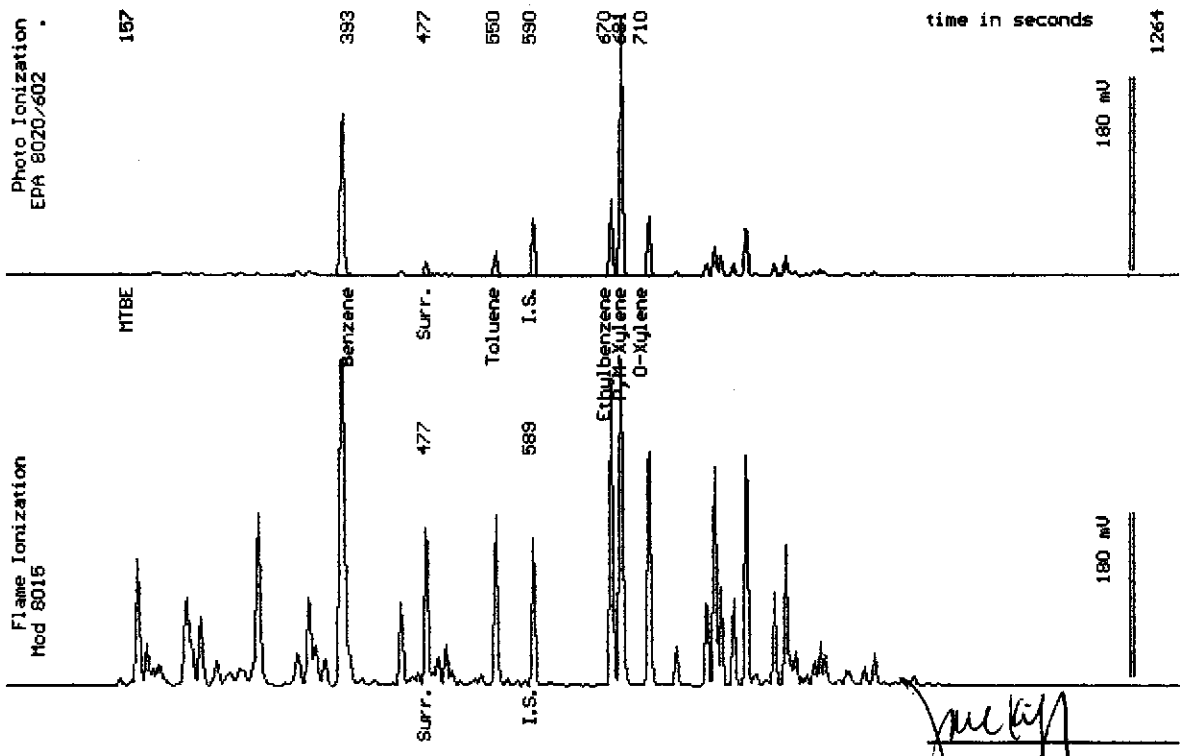
Sample Log 14906

14906-08

Sample: **MW-8**

From : Beacon 720 (Proj. # 94-720-01)
Sampled : 06/13/96
Dilution : 1:3 QC Batch : 2145E
Matrix : Water

Parameter	(MRL) ug/L	Measured Value ug/L
Benzene	(1.3)	500
Toluene	(1.3)	67
Ethylbenzene	(1.3)	220
Total Xylenes	(1.3)	850
TPH as Gasoline	(130)	2400
Surrogate Recovery		96 %



Date Analyzed: 06-21-96
Column : 0.53mm X 60m Restek Rtx-1301

Joel Kiff
Senior Chemist

WEST LABORATORY

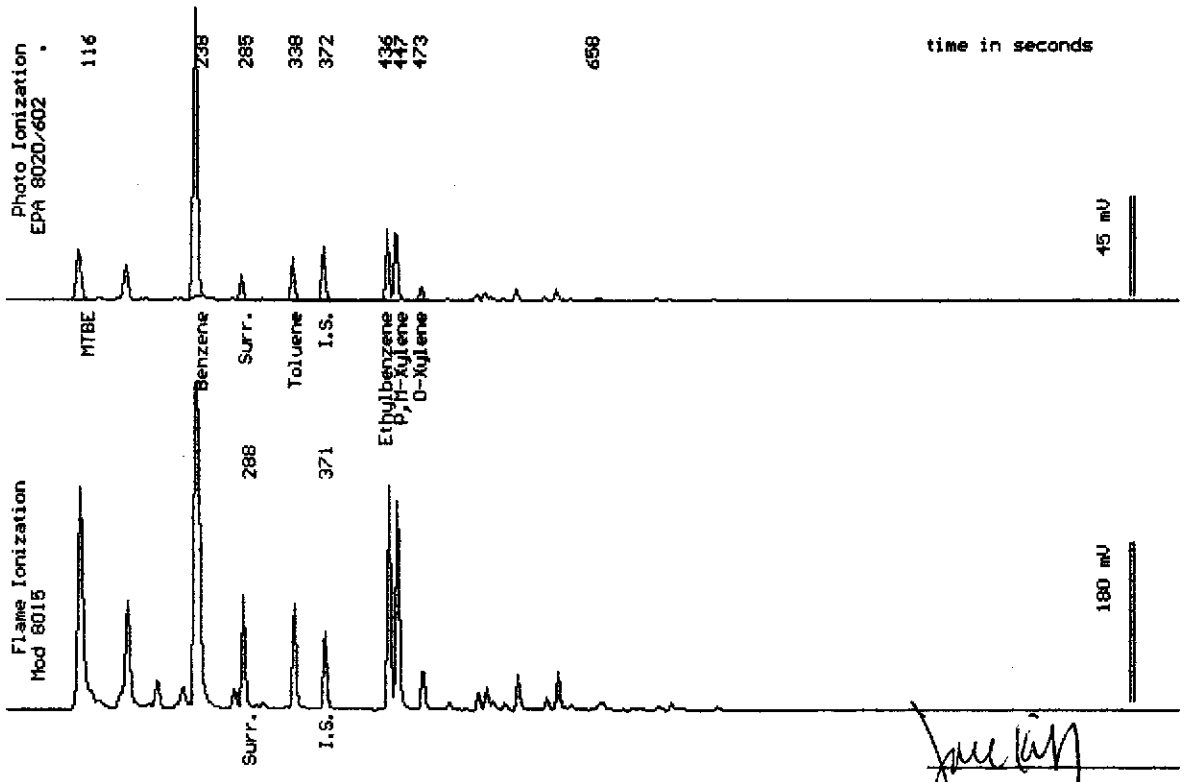
Sample Log 14906

14906-09

Sample: **MW-9**

From : Beacon 720 (Proj. # 94-720-01)
Sampled : 06/13/96
Dilution : 1:3 QC Batch : 6172E
Matrix : Water

Parameter	(MRL) ug/L	Measured Value ug/L
Benzene	(1.3)	540
Toluene	(1.3)	71
Ethylbenzene	(1.3)	140
Total Xylenes	(1.3)	180
TPH as Gasoline	(130)	1800
Surrogate Recovery		87 %



Date Analyzed: 06-21-96
Column : 0.53mm ID X 75m DB624 (J&W Scientific)

Joel Kiff
Senior Chemist

Ultramar Inc.
CHAIN OF CUSTODY REPORT

BEACON

Beacon Station No.	Sampler (Print Name)	Date	Form No.
720	Hal Hansen	6-13-96	1 of 2

Project No.: 94-720-01	Sampler (Signature): Hal Hansen
Project Location: San Leandro	Affiliation: Doulos Env.

ANALYSES

Sample No./Identification	Date	Time	Lab No.	BTEX	TPH (gasoline)	TPH (diesel)	Nitrate Nitrite	A/K TDS Sulfate	dissolved Fe			No. of Containers	REMARKS
MW-1		424	14906-01	X	X		X	X	X			5	Standard TAT
MW-2		508	02										
MW-3		412	03										
MW-4		525	04										
MW-5		545	05										
MW-6		355	06										6/14/96 1300 0°
MW-7		336	07										
MW-8		448	08										

Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
Hal Hansen Doulos Env.	6-14-96	1130	Troy G. [signature] / WEST	6-14-96	1130
Troy G. [signature] / WEST	6/14/96	1300			
			John Mat	6/14/96	1300

Report To: Dale van Dan

Bill to: ULTRAMAR INC.
525 West Third Street
Hanford, CA 93230
Attention: Terry Fox

WHITE: Return to Client with Report YELLOW: Laboratory Copy PINK: Originator Copy

32-8003 1/90

Ultramar Inc.

CHAIN OF CUSTODY REPORT

BEACON

Beacon Station No.	Sampler (Print Name)			Analyses	Date	Form No.
720	Hal Hanson				6-13-96	2 of 2
Project No. 94-720-01	Sampler (Signature) Hal Hanson					
Project Location San Leandro	Affiliation Acculos Env					Standard TAT

Sample No./Identification	Date	Time	Lab No.	BTEX	TPH (gasoline)	TPH (diesel)	Nitrite Nitrate	Alk, TDS Sulfate	Dissolved Fe			No. of Containers	REMARKS
MW-9	6-13-96	615	09	X	X		X	X	X			5	
													RECEIVED DATE 06/14/96 TIME 1300 TEMP 0° INITIAL [illegible] WEST LAB

Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
Hal Hanson Acculos Env	6-14-96	11:50	Troy S. Sungu / WEST	6-14-96	11:50
Troy S. Sungu / WEST	06/14/96	1300			
			John Martin	06/14/96	1300

Report To: Dale VanDan

Bill to: ULTRAMAR INC.
525 West Third Street
Hanford, CA 93230
Attention: Teresa Fox

WHITE: Return to Client with Report YELLOW: Laboratory Copy PINK: Originator Copy

32-8003 1/90