

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

November 25, 1996

RECEIVED BY
FIRE PREVENTION OFFICE
DEC 02 1996
HAYWARD FIRE DEPARTMENT

Mr. Hugh Murphy
Hazardous Material Inspector
Hayward Fire Department
25151 Clawiter Road
Hayward, California 94545-2731

**SUBJECT: FORMER BEACON STATION NO. 546, 29705 MISSION
BOULEVARD, HAYWARD, CALIFORNIA**

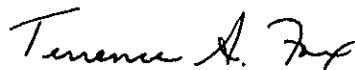
Dear Mr. Murphy:

Enclosed is a copy of the *Third Quarter 1996 Ground Water Monitoring Report* for the above-referenced Ultramar facility. Also included is a copy of the Quarterly Status Report.

Please call if you have any question regarding this project.

Sincerely,

ULTRAMAR INC.



Terrence A. Fox
Senior Project Manager
Marketing Environmental Department

Enclosures

cc w/encls: Mr. Vijay B. Patel, San Francisco Region, RWQCB



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: November 25, 1996
QUARTER ENDING: September 30, 1996

SERVICE STATION NO.: 546
ADDRESS: 29705 Mission Boulevard, Hayward, CA
COUNTY: Alameda

ULTRAMAR CONTACT: Terrence A. Fox

TEL. NO: 209-583-5545

BACKGROUND:

In March 1987, five borings were drilled around the underground storage tanks. Hydrocarbons were detected in the soil and ground water beneath the site. In April 1988, three underground fuel storage tanks and one waste oil tank were removed. Hydrocarbons were detected beneath the fuel storage tanks. In June and July 1988, three monitoring wells (MW-1 through MW-3) were installed. Results indicated that petroleum hydrocarbons were present in the ground water beneath the site. In June 1989 and February 1990, a total of five additional wells (MW-4 through MW-8) were installed. Varying concentrations have been detected in all the wells through time.

In January 1993, installed one additional downgradient well (MW-9).

In April 1993, a ground-water pump test was performed. Results indicate the well yields 5 ppm and has a downgradient capture radius of 7.4 feet.

SUMMARY OF THIS QUARTER'S ACTIVITIES:

Performed quarterly monitoring on August 29, 1996. MW-5 was resampled on September 19, 1996.

In September 1996, installed recovery well and subsurface piping.



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RESULT OF QUARTERLY MONITORING:

Monitoring data indicates that the benzene concentration remained not detected in MW-3, MW-6, and MW-10. The benzene concentration increased in MW-1 from 6.1 ppb to 12 ppb, in MW-2 from 25 ppb to 310 ppb, in MW-5 from not detected to 0.64 ppb, and in MW-8 from 11 ppb to 17 ppb. Benzene concentrations decreased in MW-4 from 35 ppb to 30 ppb, in MW-7 from 16 ppb to 1.0 ppb, and in MW-9 from 0.95 ppb to not detected.

PROPOSED ACTIVITY OR WORK FOR NEXT QUARTER:

<u>ACTIVITY</u>	<u>ESTIMATED COMPLETION DATE</u>
Continue quarterly ground-water sampling.	
Complete installation of remediation system.	January 30, 1997

El Dorado Environmental, Inc.

2221 Goldorado Trail, El Dorado, California 95623

(916) 626-3898
Fax (916) 626-3899

November 21, 1996

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

Subject: **Third Quarter 1996 Ground Water Monitoring Report
Beacon Station #546**
29705 Mission Boulevard, Hayward, California

Dear Mr. Fox:

El Dorado Environmental, Inc. (EDE) has prepared this report to document the results of quarterly ground water monitoring conducted on August 29 and September 19, 1996 at the subject site (Figure 1). (After receipt of analytical results, monitoring well MW-5 was resampled on September 19, 1996.) 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 April 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 west-southwest beneath the site (Figure 2) at a gradient of 0.01 foot per foot. Ground water levels have decreased an average of 1.41 feet compared to the last monitoring event.

GROUND WATER SAMPLING AND ANALYSES

Ground water samples were collected from ten 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 April 1992 are summarized in Table 2. Historical analytical data are contained 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 included in Attachment E. Benzene was not present at detectable concentrations in ground water samples collected from monitoring wells MW-3, MW-6, MW-9, and MW-10. Benzene concentrations decreased in the ground water samples collected from monitoring wells MW-4 and MW-7; and increased in the samples collected from monitoring wells MW-1, MW-2, MW-5, and MW-8 compared to prior sampling. Based on the current sampling results, the extent of dissolved benzene is delineated on the southeast by monitoring wells MW-6 and on the southwest by monitoring wells MW-9 and MW-10.

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

Mr. Scott Hugenberger
San Francisco Bay Regional Water Quality Control Board
2101 Webster Street, Suite 500
Oakland, California 94612

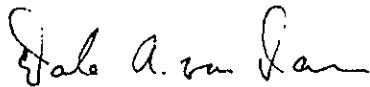
Mr. Hugh Murphy
Hayward Fire Department
22300 Foothill Boulevard
Hayward, California 94541

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,

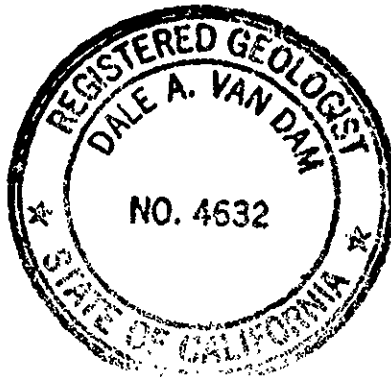
EL DORADO ENVIRONMENTAL, INC.



Dale A. van Dam, R.G.
Hydrogeologist

DAvD/davd

Attachments



FIGURES:

FIGURE 1 SITE LOCATION MAP

FIGURE 2 GROUND WATER CONTOUR MAP
AUGUST 29, 1996

FIGURE 3 DISSOLVED BENZENE DISTRIBUTION MAP
AUGUST 29, 1996

TABLES:

TABLE 1 GROUND WATER ELEVATION DATA

TABLE 2 GROUND WATER ANALYTICAL RESULTS

ATTACHMENTS:

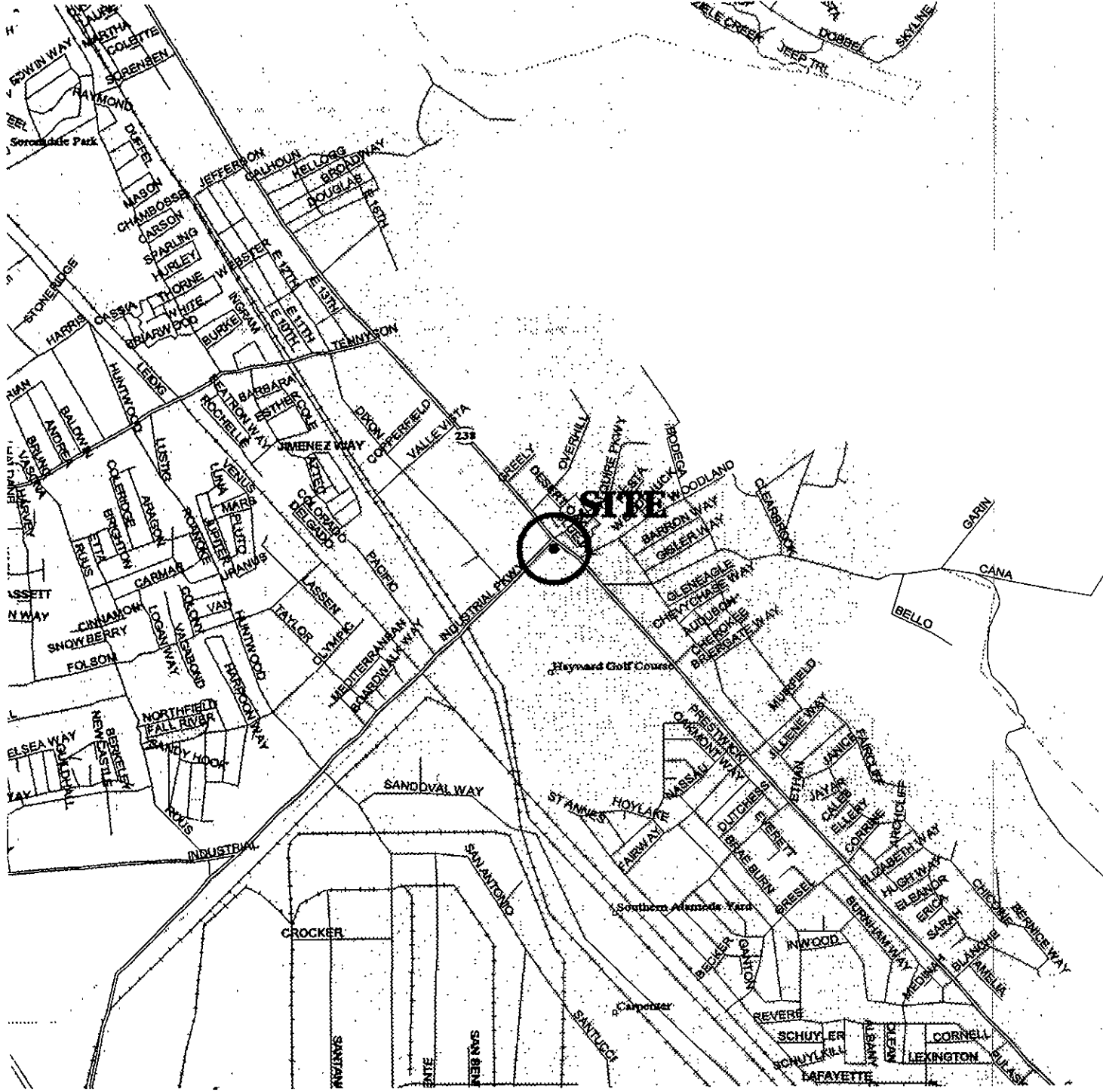
A ULTRAMAR FIELD PROCEDURES

B DOULOS ENVIRONMENTAL
FIELD DATA SHEETS

C HISTORICAL GROUND WATER ELEVATION DATA

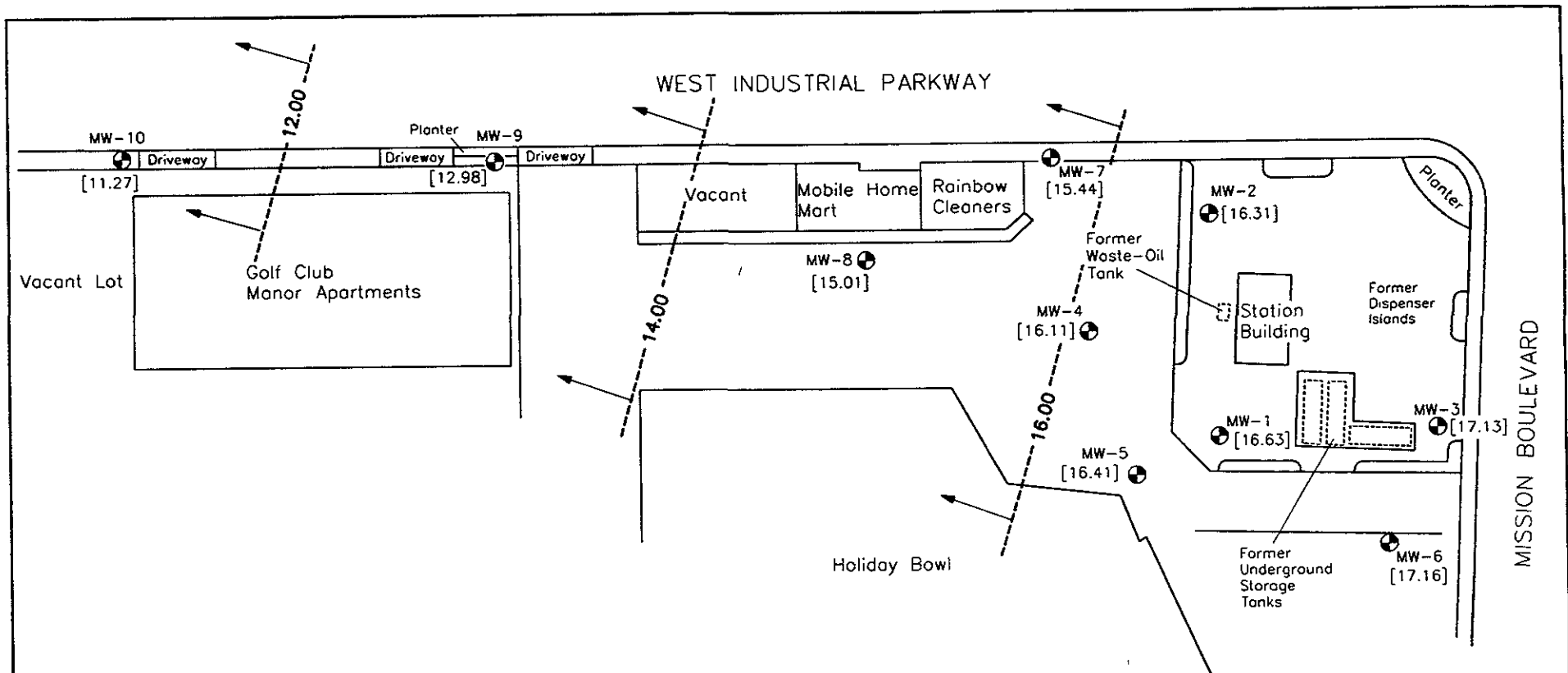
D HISTORICAL GROUND WATER ANALYTICAL DATA

E LABORATORY REPORT AND
CHAIN-OF-CUSTODY FORM



SITE LOCATION MAP		FIGURE 1
BEACON STATION #546 29705 MISSION BOULEVARD HAYWARD, CALIFORNIA		PROJECT NUMBER: U063.01
EL DORADO ENVIRONMENTAL, INC.		DRAWN BY: D.A.V.D.
		CHECKED BY: <i>D.V.</i>

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



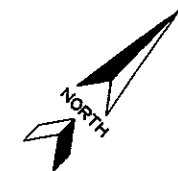
EXPLANATION

MW-10 ● Monitoring Well Location

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

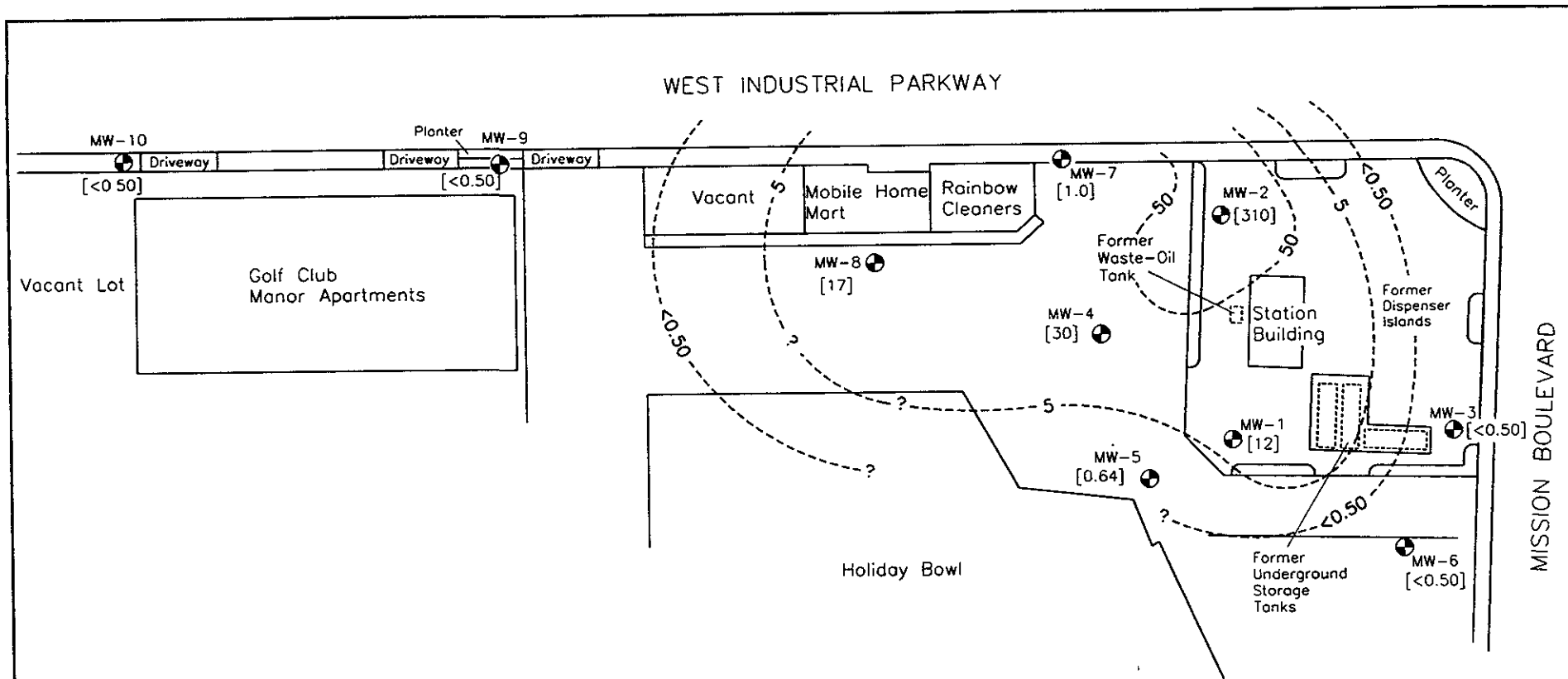
--- 13.00 ---
Line of Equal Elevation of Ground Water Measured in Feet; Datum is Mean Sea Level

→ Inferred Direction of Ground Water Flow



GROUND WATER CONTOUR MAP, AUGUST 29, 1996	FIGURE 2
BEACON STATION #546	PROJECT NUMBER: U063.01
29705 MISSION BOULEVARD	DRAWN BY: D.A.
HAYWARD, CALIFORNIA	CHECKED BY: DVD
EL DORADO ENVIRONMENTAL, INC.	

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



EXPLANATION

MW-1 ● Monitoring Well Location

[12] Concentration of Benzene in Ground Water;
Concentration in Micrograms per Liter

50
- - - - -
Line of Equal Concentration of Benzene
in Ground Water; Concentration in
Micrograms per Liter



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

DISSOLVED BENZENE DISTRIBUTION MAP, AUGUST 29, 1996	FIGURE 3
BEACON STATION #546 29705 MISSION BOULEVARD HAYWARD, CALIFORNIA	PROJECT NUMBER: U063.01
EL DORADO ENVIRONMENTAL, INC.	DRAWN BY: D.A.
	CHECKED BY: DJD

TABLE 1
GROUND WATER ELEVATION DATA
BEACON STATION #546
29705 MISSION BOULEVARD, HAYWARD, 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	04/15/92	37.46	22.10	15.36	---	Heavy sheen
	07/07/92		23.40	14.06	---	
	09/23/92		24.61	12.85	---	
	11/12/92		24.87	12.59	---	
	02/03/93		21.23	16.23	38.08	
	05/10/93		19.59	17.87	37.95	
	08/18/93		20.22	17.24	37.95	
	11/18/93		22.72	14.74	37.93	
	03/10/94		21.73	15.73	37.95	
	06/13/94		22.15	15.31	---	
	06/15/94		22.17	15.29	37.99	
	09/15/94		23.37	14.09	38.00	
	12/21/94		22.82	14.64	37.74	
	03/17/95		19.43	18.03	37.80	
	06/13/95		19.38	18.08	37.80	
	09/21/95		21.49	15.97	37.81	
	12/12/95		22.20	15.26	38.82	
	03/14/96		18.17	19.29	38.80	
06/21/96	19.26	18.20	38.83			
08/29/96	20.83	16.63	38.84			
MW-2	04/15/93	35.95	20.88	15.07	---	
	07/07/92		21.95	14.00	---	
	09/23/92		23.15	12.80	---	
	11/12/92		23.43	12.52	---	
	02/03/93		19.93	16.02	38.90	
	05/10/93		18.57	17.38	38.98	
	08/18/93		19.96	15.99	39.00	
	11/18/93		21.38	14.37	39.00	
	03/10/94		20.47	15.48	39.07	
	06/13/94		20.87	15.08	---	
	06/15/94		20.91	15.04	39.16	
	09/15/94		21.98	13.97	39.17	
	12/21/94		21.43	14.52	38.90	
	03/17/95		18.23	17.72	38.93	
	06/13/95		18.33	17.62	38.90	
	09/21/95		20.27	15.68	38.90	
	12/12/95		20.79	15.16	38.90	
	03/14/96		16.99	18.96	38.90	
06/21/96	18.18	17.77	38.90			
08/29/96	19.64	16.31	38.92			

NOTES 1 = Measurement and reference elevation taken from notch/mark on top north side of well casing.
 2 = Elevation referenced to mean sea level
 --- = Not measured/not observed
 .. = No measurements collected since prior to April 1992
 Well Depth = Measurement from top of casing to bottom of well

TABLE 1
GROUND WATER ELEVATION DATA
BEACON STATION #546
29705 MISSION BOULEVARD, HAYWARD, 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-3	04/15/92	40 28	24 59	15 69	---	
	07/07/92		25 90	14 38	---	
	09/23/92		27.09	13 19	---	
	11/12/92		27.43	12.85	33.94	
	02/03/93		23.67	16.61	37.86	
	05/10/93		21 90	18.38	37.82	
	08/18/93		23 56	16 72	37.80	
	11/18/93		24.98	15 30	37.81	
	03/10/94		24.21	16.07	37 86	
	06/13/94		24.63	15 65	---	
	06/15/94		24.64	15 64	38.00	
	09/15/94		25 85	14.43	38.00	
	12/21/94		25.34	14.94	37.75	
	03/17/95		21.84	18.44	37.80	
	06/13/95		21 69	18.59	37.84	
	09/21/95		23.83	16 45	37.81	
	12/12/95		24 59	15.69	37.83	
	03/14/96		20 54	19.74	37.84	
	06/21/96		21 56	18.72	37 89	
	08/29/96		23 15	17.13	37 80	
MW-4	04/15/92	34 94	---	---	---	
	**					
	11/18/93		20.60	14.34	39.02	
	03/10/94		19.63	15.31	39.11	
	06/13/94		20 06	14.88	---	
	06/15/94		20 10	14.84	39.12	
	09/15/94		21 23	13.71	39.14	
	12/21/94		20 63	14 31	38.88	
	03/17/95		17.48	17.46	38 90	
	06/13/95		17 56	17.38	38.90	
	09/21/95		19 49	15.45	38.94	
	12/12/95		20.08	14.86	38.92	
	03/14/96		16 33	18.61	38.93	
	06/21/96		17 38	17.56	38.93	
08/29/96	18 83	16.11	38.95			
MW-5	04/15/92	36 37	---	---	---	
	**					
	11/18/93		21 80	14.57	34.52	
	03/10/94		20.82	15.55	34.71	
	06/13/94		21 25	15.12	---	
	06/15/94		21 28	15.09	34.71	
	09/15/94		22.48	13.89	34.70	
	12/21/94		22 01	14.36	34.53	
	03/17/95		18 54	17.83	34.58	
	06/13/95		18 59	17.78	34.59	
	09/21/95		20.51	15.86	34.58	
	12/12/95		21 40	14.97	34.58	
	03/14/96		17 34	19.03	34.55	
	06/21/96		18.41	17.96	34.57	
08/29/96	19.96	16.41	34.56			

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Well Depth = Measurement from top of casing to bottom of well

TABLE 1
GROUND WATER ELEVATION DATA
BEACON STATION #546
29705 MISSION BOULEVARD, HAYWARD, 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-6	04/15/92	37.43	---	---	---	
	**					
	11/18/93		22.35	15.08	39.17	
	03/10/94		21.33	16.10	39.22	
	06/13/94		21.75	15.68	---	
	06/15/94		21.80	15.63	39.24	
	09/15/94		23.04	14.39	39.22	
	12/21/94		22.54	14.89	39.31	
	03/17/95		18.93	18.50	39.34	
	06/13/95		18.78	18.65	39.34	
	09/21/95		20.98	16.45	39.32	
	12/12/95		21.77	15.66	39.40	
	03/14/96		17.69	19.74	39.42	
	06/21/96		18.65	18.78	39.44	
	08/29/96		20.27	17.16	39.47	
MW-7	04/15/92	30.50	16.00	14.50	---	
	07/07/92		17.10	13.40	---	
	09/23/92		18.21	12.29	---	
	11/12/92		18.37	12.13	33.94	
	02/03/93		15.20	15.30	34.02	
	05/10/93		14.01	16.49	34.05	
	08/18/93		15.51	14.99	34.01	
	11/18/93		16.58	13.92	34.01	
	03/10/94		15.68	14.82	33.94	
	06/13/94		---	---	---	
	06/15/94		16.12	14.38	33.96	
	09/15/94		17.07	13.43	33.97	
	12/21/94		16.60	13.90	33.79	
	03/17/95		13.64	16.86	33.81	
	06/13/95		13.87	16.63	33.80	
	09/21/95		15.62	14.88	33.80	
	12/12/95		15.96	14.54	33.81	
	03/14/96		12.47	18.03	33.82	
	06/21/96		13.72	16.78	33.81	
	08/29/96		15.06	15.44	33.83	
MW-8	04/15/92	28.48	14.30	14.18	---	
	07/07/92		15.60	12.88	---	
	09/23/92		16.66	11.82	---	
	11/12/92		16.86	11.62	39.20	
	02/03/93		13.49	14.99	39.19	
	05/10/93		12.51	15.97	39.21	
	08/18/93		13.97	14.51	39.25	
	11/18/93		15.00	13.48	39.25	
	03/10/94		13.98	14.50	39.27	
	06/13/94		14.44	14.04	---	
	06/15/94		14.48	14.00	39.27	
	09/15/94		15.51	12.97	39.27	
	12/21/94		14.84	13.64	39.05	
	03/17/95		11.98	16.50	39.15	
	06/13/95		12.32	16.16	39.13	
	09/21/95		14.09	14.39	39.13	
	12/12/95		14.38	14.10	39.15	
	03/14/96		10.93	17.55	39.13	
	06/21/96		12.11	16.37	39.16	
	08/29/96		13.47	15.01	39.17	

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TABLE 1
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BEACON STATION #546
29705 MISSION BOULEVARD, HAYWARD, 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-9	02/03/93	21.99	8.95	13.04	23.52	
	05/10/93		8.18	13.81	23.52	
	08/18/93		9.50	12.49	23.17	
	11/18/93		9.85	12.14	23.16	
	03/10/94		9.14	12.85	23.21	
	06/13/94		9.57	12.42	---	
	06/15/94		9.60	12.39	23.23	
	09/15/94		10.32	11.67	23.23	
	12/21/94		9.61	12.38	24.78	
	03/17/95		7.38	14.61	24.72	
	06/13/95		8.11	13.88	24.72	
	09/21/95		9.46	12.53	24.70	
	12/12/95		9.20	12.79	24.80	
	03/14/96		6.63	15.36	24.78	
	06/21/96		7.93	14.06	24.72	
	08/29/96		9.01	12.98	24.72	
MW-10	06/13/94	17.41	6.61	10.80	---	
	09/15/94		7.51	9.90	21.46	
	12/21/94		8.32	9.09	21.15	
	03/17/95		4.37	13.04	21.98	
	06/13/95		5.25	12.16	21.99	
	09/21/95		6.69	10.72	22.00	
	12/12/95		6.03	11.38	22.00	
	03/14/96		3.84	13.57	22.01	
	06/21/96		5.08	12.33	22.06	
	08/29/96		6.14	11.27	22.06	

NOTES 1 = Measurement and reference elevation taken from notch/mark on top north side of well casing.
 2 = Elevation referenced to mean sea level
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 ** = No measurements collected since prior to April 1992
 Well Depth = Measurement from top of casing to bottom of well

TABLE 2
GROUND WATER ANALYTICAL RESULTS
BEACON STATION #546
29705 MISSION BOULEVARD, HAYWARD, CALIFORNIA
(All results in micrograms per Liter)

Monitoring Well	Date Collected	Total Petroleum Hydrocarbons	Aromatic Volatile Organics			
		Gasoline	Benzene	Toluene	Ethylbenzene	Total Xylenes
MW-1	04/15/92	8,900	710	11	150	440
	07/07/92	<50	<0.5	<0.5	<0.5	<0.5
	09/23/92	<50	<0.5	<0.5	<0.5	<0.5
	11/12/92	---	---	---	---	---
	02/03/93	950	72	<0.5	0.6	6.6
	05/10/93	1,000	210	2.9	42	67
	08/18/93	1,600	220	<5.0	110	150
	11/18/93	51	<0.5	<0.5	<0.5	<0.5
	03/10/94	310	37	<0.5	22	26
	06/15/94	420	53	<0.5	40	38
	09/15/94	78	12	<0.5	12	5.8
	12/21/94	170	14	<0.5	<0.5	26
	03/17/95	680	49	<0.5	61	55
	06/13/95	970	420	<2.5	<2.5	<2.5
	09/21/95	55	2.0	<0.50	6.6	3.6
	12/12/95	1,600	54	0.60	120	100
	03/14/96	92	0.74	<0.50	4.9	1.5
06/21/96	410	6.1	<0.50	54	5.4	
08/29/96	970	12	<0.50	120	12	
MW-2	04/15/92	1,200	21	4.8	56	26
	07/07/92	<50	<0.5	<0.5	<0.5	<0.5
	09/23/92	<50	<0.5	<0.5	<0.5	<0.5
	11/12/92	<50	<0.5	<0.5	1.7	0.9
	02/03/93	310	2.9	0.8	15	6.0
	05/10/93	190	17	<0.5	23	5.2
	08/18/93	820	53	<1.3	71	16
	11/18/93	89	3.0	<0.5	9.3	0.73
	03/10/94	2,000	45	<2.5	390	28
	06/15/94	1,300	54	2.0	270	15
	09/15/94	370	4.7	<0.5	80	13
	12/21/94	190	0.79	<0.5	<0.5	29
	03/17/95	150	4.9	<0.5	0.98	3.4
	06/13/95	<50	<0.5	<0.5	<0.5	<0.5
	09/21/95	320	99	<0.50	7.2	0.73
	12/12/95	850	100	0.52	25	2.6
	03/14/96	<50	<0.50	<0.50	<0.50	<0.50
06/21/96	65	25	<0.50	<0.50	<0.50	
08/29/96	830	310	<1.3	5.8	<1.3	

NOTES < = Below indicated detection limit
NS = Not sampled
** = No samples collected since prior to April 1992.

TABLE 2
GROUND WATER ANALYTICAL RESULTS
BEACON STATION #546
29705 MISSION BOULEVARD, HAYWARD, CALIFORNIA
(All results in micrograms per Liter)

Monitoring Well	Date Collected	Total Petroleum Hydrocarbons	Aromatic Volatile Organics			
		Gasoline	Benzene	Toluene	Ethylbenzene	Total Xylenes
MW-3	04/15/92	69	2.8	<0.5	<0.5	<0.5
	07/07/92	<50	<0.5	<0.5	<0.5	<0.5
	09/23/92	<50	<0.5	<0.5	<0.5	<0.5
	11/12/92	<50	<0.5	<0.5	<0.5	<0.5
	02/03/93	<50	1.0	1.3	0.6	2.7
	05/10/93	53	1.6	<0.5	2.0	<1.5
	08/18/93	<50	1.0	<0.5	1.5	<0.5
	11/18/93	<50	<0.5	<0.5	<0.5	<0.5
	03/10/94	<50	<0.5	<0.5	<0.5	<0.5
	06/15/94	<50	<0.5	<0.5	<0.5	<0.5
	09/15/94	<50	<0.5	<0.5	<0.5	<0.5
	12/21/94	<50	0.52	<0.5	<0.5	<0.5
	03/17/95	<50	<0.5	<0.5	<0.5	<0.5
	06/13/95	<50	<0.5	<0.5	<0.5	<0.5
	09/21/95	<50	<0.50	<0.50	<0.50	<0.50
	12/12/95	<50	<0.50	<0.50	<0.50	<0.50
	03/14/96	<50	<0.50	<0.50	<0.50	<0.50
	06/21/96	<50	<0.50	<0.50	<0.50	<0.50
08/29/96	<50	<0.50	<0.50	<0.50	<0.50	
MW-4	04/15/92 **	NS	NS	NS	NS	NS
	11/18/93	1,500	110	6.4	88	240
	03/10/94	4,000	460	5.1	370	450
	06/15/94	1,300	97	1.9	130	150
	09/15/94	1,100	34	1.6	70	110
	12/21/94	1,700	90	2.1	170	160
	03/17/95	3,400	150	<5.0	380	200
	06/13/95	4,100	220	<5.0	310	160
	09/21/95	1,500	110	<1.3	110	38
	12/12/95	1,600	130	1.3	140	72
	03/14/96	1,300	74	<1.3	110	21
	06/21/96	1,100	35	<1.3	78	18
08/29/96	1,000	30	<0.50	72	21	
MW-5	04/15/92 **	NS	NS	NS	NS	NS
	11/18/93	2,800	23	<0.5	72	6.1
	03/10/94	2,900	26	<0.5	<0.5	98
	06/15/94	2,100	14	<0.5	29	18
	09/15/94	200	2.4	<0.5	<0.5	4.9
	12/21/94	290	4.7	<0.5	3.3	<0.5
	03/17/95	2,000	8.7	<1.3	3.4	<1.3
	06/13/95	2,200	2.8	<1.3	<1.3	1.4
	09/21/95	770	0.92	<0.50	<0.50	<0.50
	12/12/95	290	1.6	<0.50	0.70	0.66
	03/14/96	1,100	1.1	<0.50	<0.50	<0.50
	06/21/96	250	<0.50	<0.50	<0.50	<0.50
08/29/96	440	0.64	<0.50	<0.50	<0.50	
09/19/96	370	0.78	1.7	<0.50	<0.50	

NOTES < = Below indicated detection limit
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TABLE 2
GROUND WATER ANALYTICAL RESULTS
BEACON STATION #546
29705 MISSION BOULEVARD, HAYWARD, CALIFORNIA
(All results in micrograms per Liter)

Monitoring Well	Date Collected	Aromatic Volatile Organics				
		Total Petroleum Hydrocarbons	Benzene	Toluene	Ethylbenzene	Total Xylenes
MW-6	04/15/92 **	NS	NS	NS	NS	NS
	11/18/93	<50	<0.5	<0.5	<0.5	1.5
	03/10/94	<50	<0.5	<0.5	<0.5	<0.5
	06/15/94	<50	<0.5	<0.5	<0.5	<0.5
	09/15/94	<50	<0.5	<0.5	<0.5	<0.5
	12/21/94	<50	<0.5	<0.5	<0.5	<0.5
	03/17/95	<50	<0.5	<0.5	<0.5	<0.5
	06/13/95	<50	<0.5	<0.5	<0.5	<0.5
	09/21/95	<50	<0.50	<0.50	<0.50	<0.50
	12/12/95	<50	<0.50	<0.50	<0.50	<0.50
	03/14/96	<50	<0.50	<0.50	<0.50	<0.50
	06/21/96	<50	<0.50	<0.50	<0.50	<0.50
	08/29/96	<50	<0.50	<0.50	<0.50	<0.50
	MW-7	04/15/92	1,600	21	1.2	2.0
07/07/92		320	<0.5	<0.5	<0.5	<0.5
09/23/92		90	<0.5	<0.5	<0.5	<0.5
11/12/92		<50	<0.5	<0.5	<0.5	<0.5
02/03/93		<50	<0.5	<0.5	<0.5	<0.5
05/10/93		1,800	190	3.2	45	<1.5
08/18/93		1,600	53	<2.5	<2.5	37
11/18/93		730	<0.5	<0.5	<0.5	7.4
03/10/94		1,000	0.90	<0.5	<0.5	2.8
06/15/94		760	3.6	<0.5	<0.5	1.8
09/15/94		900	0.63	<0.5	<0.5	<0.5
12/21/94		640	0.54	<0.5	<0.5	<0.5
03/17/95		570	4.9	<0.5	<0.5	3.8
06/13/95		1,000	390	5.2	52	48
09/21/95		1,100	130	1.3	<1.3	<1.3
12/12/95		870	<1.3	<1.3	<1.3	<1.3
03/14/96	570	1.3	<0.50	<0.50	<0.50	
06/21/96	620	16	<0.50	<0.50	<0.50	
08/29/96	540	1.0	1.3	<0.50	<0.50	
MW-8	04/15/92	40,000	1,900	34	1,200	1,800
	07/07/92	19,000	560	14	32	630
	09/23/92	4,200	370	<5.0	<5.0	150
	11/12/92	5,100	75	<2.5	<2.5	110
	02/03/93	29,000	800	1.1	660	720
	05/10/93	8,900	540	9.9	770	550
	08/18/93	10,000	790	<2.5	1,100	720
	11/18/93	8,700	420	<5.0	690	290
	03/10/94	9,500	650	<2.5	930	320
	06/15/94	6,600	360	<2.5	650	190
	09/15/94	7,000	220	<2.5	470	120
	12/21/94	6,000	280	<2.5	540	180
	03/17/95	5,600	150	<2.5	410	110
	06/13/95	5,200	51	<2.5	150	50
	09/21/95	4,900	53	<2.5	130	45
	12/12/95	4,500	100	<2.5	150	81
03/14/96	1,200	11	<0.50	25	10	
06/21/96	1,900	11	3.9	29	8.8	
08/29/96	2,100	17	5.9	44	17	

NOTES < = Below indicated detection limit.
NS = Not sampled.
** = No samples collected since prior to April 1992

TABLE 2
GROUND WATER ANALYTICAL RESULTS
BEACON STATION #546
29705 MISSION BOULEVARD, HAYWARD, CALIFORNIA
(All results in micrograms per Liter)

Monitoring Well	Date Collected	Total Petroleum Hydrocarbons	Aromatic Volatile Organics			
		Gasoline	Benzene	Toluene	Ethylbenzene	Total Xylenes
MW-9	02/03/92	28,000	64	96	70	510
	05/10/93	5,000	180	12	88	110
	08/18/93	4,900	290	<2.5	210	180
	11/18/93	8,800	340	6.0	240	200
	03/10/94	4,100	26	<1.3	23	16
	06/15/94	4,100	17	<1.3	18	8.4
	09/15/94	5,900	39	<2.5	45	16
	12/21/94	4,300	27	4.8	37	15
	03/17/95	3,100	7.3	<2.5	13	3.8
	06/13/95	2,400	<2.5	<2.5	4.0	<2.5
	09/21/95	1,600	4.2	<1.3	17	5.1
	12/12/95	1,100	9.6	<1.3	18	4.7
	03/14/96	1,200	9.9	<1.3	16	1.8
	06/21/96	450	0.71	0.95	5.2	0.77
	08/29/96	530	<0.50	0.86	3.2	1.5
MW-10	06/13/94	22,000	210	330	1,200	5,400
	09/15/94	1,500	<0.5	<0.5	2.8	7.1
	12/21/94	230	2.2	<0.5	4.3	0.88
	03/17/95	200	6.5	0.67	6.4	8.9
	06/13/95	100	3.9	8.0	1.3	5.8
	09/21/95	<50	0.59	<0.50	1.4	0.70
	12/12/95	<50	<0.50	<0.50	<0.50	<0.50
	03/14/96	130	5.4	<0.50	8.0	12
	06/21/96	<50	<0.50	<0.50	<0.50	<0.50
	08/29/96	<50	<0.50	<0.50	<0.50	<0.50

NOTES < = Below indicated detection limit
NS = Not sampled
** = No samples collected since prior to April 1992

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 #546 29705 Mission

Date: 8-29-96

Hayward, CA

Project No.: 94-546-01

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	719		20.83	38.84				no odor no sheen
MW-2	722		19.64	38.92				no odor no sheen
MW-3	702		23.15	37.80				no odor no sheen
MW-4	730		18.83	38.95				slight odor no sheen
MW-5	726		19.96	34.56				slight odor no sheen
MW-6	710		20.27	39.47				no odor no sheen
MW-7	714		15.06	33.83				no odor no sheen
MW-8	734		13.47	39.17				Petroleum odor no sheen
MW-9	706		9.01	24.72				slight odor no sheen
MW-10	738		6.14	22.06				no odor no sheen

Notes:

Client: Ultramar

Sampling Date: 9-19-96

Site: Beacon 546

Project No.: 94-546-01

Well Designation: MW-5

9 Daywood 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): _____
 Well cover type: 8" UV _____ 12" UV _____ 12" EMCO _____ 8" BK _____
 12" BK _____ 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 Centrifugal pump

Sampled with: Disposable bailer: Teflon bailer: _____

Well Diameter: 2" 4" _____ 6" _____ 8" _____

Purge Vol. Multiplier: 0.16 0.65 1.47 2.61 gal/ft.
Initial Measurement
 Time: 712 Recharge Measurement
 Time: 721 Calculated purge: 15 gal
 Depth of well: 34.56 Depth to water: 20.54 Actual purge: 15 "
 Depth to water: 20.03

Start purge: 712 Sampling time: 722

Time	Temp.	E.C.	pH	Turbidity	Volume
713	70.4	1082	748	—	1
714	69.8	1604	743	—	2
715	69.8	963	741	—	3
716	68.9	749	732	—	4

Sample appearance: clear Lock: 3753

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: _____

Signature: Hal Hansen

Client: Ultramar Sampling Date: 8-29-96
 Site: Beacon #546 Project No.: 94-546-01
29705 Mission Blvd. Well Designation: MW-1
Hayward, 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): _____
 Well cover type: 8" UV _____ 12" UV _____ 12" EMCO _____ 8" BK _____
 12" BK _____ 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 Centrifugal pump

Sampled with: Disposable bailer: Teflon bailer: _____

Well Diameter: 2" _____ 4" 6" _____ 8" _____

Purge Vol. Multiplier: 0.16 0.65 1.47 2.61 gal/ft.
Initial Measurement Recharge Measurement
 Time: 718 Time: 927 Calculated purge: 46.8 gal
 Depth of well: 38.84 Depth to water: 21.02 Actual purge: 46.8
 Depth to water: 20.83

Start purge: 914 Sampling time: 928

Time	Temp.	E.C.	pH	Turbidity	Volume
916	73.8	1050	737	—	1
918	73.1	1050	731	—	2
921	71.4	920	725	—	3
924	71.4	920	720	—	4

Sample appearance: clear Lock: 3753

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: _____

Signature: Hal Hansen

Client: Ultramar Sampling Date: 8-29-96
 Site: Beacon #546 Project No.: 94-546-01
29705 Mission Blvd. Well Designation: MW-2
Hayward, 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): 1/2
 Well cover type: 8" UV _____ 12" UV _____ 12" EMCO _____ 8" BK _____
 12" BK _____ 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 Centrifugal pump

Sampled with: Disposable bailer: Teflon bailer: _____

Well Diameter: 2" _____ 4" _____ 6" _____ 8" _____

Purge Vol. Multiplier: 0.16 0.65 1.47 2.61 gal/ft.
Initial Measurement Recharge Measurement
 Time: 722 Time: 946 Calculated purge: 50.1 gal
 Depth of well: 38.92 Depth to water: 19.94 Actual purge: 50.1 "
 Depth to water: 19.64

Start purge: 933 Sampling time: 947

Time	Temp.	E.C.	pH	Turbidity	Volume
935	734	1331	753	_____	1
937	720	1252	764	_____	2
939	716	1456	781	_____	3
941	709	1443	795	_____	4

Sample appearance: lean Lock: 3753

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: _____

Signature: Wal Hansen

Client: Ultramar Sampling Date: 8-29-96
 Site: Beacon #546 Project No.: 94-546-01
29705 Mission Blvd. Well Designation: MW-3
Hayward, 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): 1
 Well cover type: 8" UV _____ 12" UV _____ 12" EMCO _____ 8" BK _____
 12" BK _____ 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 Centrifugal pump

Sampled with: Disposable bailer: Teflon bailer: _____

Well Diameter: 2" _____ 4" 6" _____ 8" _____

Purge Vol. Multiplier: 0.16 0.65 1.47 2.61 gal/ft.
Initial Measurement Recharge Measurement
 Time: 702 Time: 910 Calculated purge: 38.1 gal
 Depth of well: 37.80 Depth to water: 23.31 Actual purge: 38.14
 Depth to water: 23.15

Start purge: 867 Sampling time: 911

Time	Temp.	E.C.	pH	Turbidity	Volume
859	70.6	1051	756	—	1
901	68.4	1002	741	—	2
904	67.4	932	742	—	3
907	68.1	944	736	—	4

Sample appearance: clear Lock: clean

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: _____

Signature: Hal Larson

Client: Ultramar

Sampling Date: 8-29-96

Site: Beacon #546

Project No.: 94-546-01

29705 Mission Blvd.

Well Designation: MW-4

Hayward, 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 _____ 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 Centrifugal pump

Sampled with: Disposable bailer: Teflon bailer: _____

Well Diameter: 2" _____ 4" 6" _____ 8" _____

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

Initial Measurement Recharge Measurement

Time: 730 Time: 1017 Calculated purge: 52.3 gal
 Depth of well: 3895 Depth to water: 1896 Actual purge: 5230
 Depth to water: 1883

Start purge: 1003 Sampling time: 1018

Time	Temp.	E.C.	pH	Turbidity	Volume
1005	79.4	1184	784	—	1
1007	79.4	1102	771	—	2
1010	69.6	1051	768	—	3
1014	70.4	1033	759	—	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: _____

Signature: [Signature]

Client: Ultramar

Sampling Date: 8-29-96

Site: Beacon #546

Project No.: 94-546-01

29705 Mission Blvd.

Well Designation: MW-5

Hayward, 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 _____ 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 Centrifugal pump

Sampled with: Disposable bailer: Teflon bailer: _____

Well Diameter: 2" 4" _____ 6" _____ 8" _____

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

Initial Measurement

Time: 726

Recharge Measurement

Time: 957

Calculated purge: 9.3 gal

Depth of well: 34.56

Depth to water: 20.84

Actual purge: 9.3 gal

Depth to water: 19.96

Start purge: 951

Sampling time: 958

Time	Temp.	E.C.	pH	Turbidity	Volume
952	74.4	1084	784	---	1
953	73.1	1032	733	---	2
954	72.0	1005	731	---	3
955	71.6	954	728	---	4

Sample appearance: clear

Lock: 3753

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: _____

Signature: _____

Kal Hansen

Client: Ultramar

Sampling Date: 8-29-96

Site: Beacon #546

Project No.: 94-546-01

29705 Mission Blvd.

Well Designation: MW-6

Hayward, 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): _____
 Well cover type: 8" UV _____ 12" UV _____ 12" EMCO _____ 8" BK _____
 12" BK _____ 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 Centrifugal pump

Sampled with: Disposable bailer: Teflon bailer: _____

Well Diameter: 2" 4" _____ 6" _____ 8" _____

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

Initial Measurement Recharge Measurement

Time: 710 Time: 836 Calculated purge: 12.3 gal

Depth of well: 39.47 Depth to water: 20.31 Actual purge: 12.3 "

Depth to water: 20.27

Start purge: 829 Sampling time: 837

Time	Temp.	E.C.	pH	Turbidity	Volume
830	70.2	1036	756	_____	1
831	69.5	1004	750	_____	2
832	68.6	983	741	_____	3
832	68.4	101	743	_____	4

Sample appearance: lean 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: _____

Signature: Hal Hansen

Client: Ultramar

Sampling Date: 8-29-96

Site: Beacon #546

Project No.: 94-546-01

29705 Mission Blvd.

Well Designation: MW-7

Hayward, 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 _____
 General condition of wellhead assembly: Excellent Good Fair Poor

Purging Equipment: _____ 2" disposable bailer _____ Submersible pump
 _____ 2" PVC bailer _____ Dedicated bailer
 _____ 4" PVC bailer Centrifugal pump

Sampled with: Disposable bailer: Teflon bailer: _____

Well Diameter: 2" _____ 4" 6" _____ 8" _____

Purge Vol. Multiplier: 0.16 0.65 1.47 2.61 gal/ft.
Initial Measurement Recharge Measurement
 Time: 714 Time: 853 Calculated purge: 49.8 gal
 Depth of well: 33.83 Depth to water: 15.43 Actual purge: 46.8"
 Depth to water: 15.06

Start purge: 841 Sampling time: 854

Time	Temp.	E.C.	pH	Turbidity	Volume
843	75.5	1084	751	—	1
845	71.2	1003	746	—	2
847	70.4	951	741	—	3
853	69.6	747	738	—	7

Sample appearance: clear Lock: 3753

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: _____

Signature: Hal Hansen

Client: Ultramar

Sampling Date: 8-29-96

Site: Beacon #546

Project No.: 94-546-01

29705 Mission Blvd.

Well Designation: MW-8

Hayward, 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): 10
 Well cover type: 8" UV _____ 12" UV _____ 12" EMCO _____ 8" BK _____
 12" BK _____ 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 Centrifugal pump

Sampled with: Disposable bailer: Teflon bailer: _____

Well Diameter: 2" _____ 4" 6" _____ 8" _____

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

Initial Measurement Time: 734 Recharge Measurement Time: 1039
 Depth of well: 39.17 Depth to water: 13.55 Calculated purge: 66.8 gal
 Depth to water: 13.47 Actual purge: 66.8 gal

Start purge: 1022 Sampling time: 1040

Time	Temp.	E.C.	pH	Turbidity	Volume
1025	75.3	1284	7.04	—	1
1029	74.4	1204	7.01	—	2
1033	72.5	1183	6.94	—	3
1037	71.6	1155	6.92	—	4

Sample appearance: clear Lock: 3753

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: _____

Signature: Hal Hansen

Client: Ultramar Sampling Date: 8-29-96
 Site: Beacon #546 Project No.: 94-546-01
29705 Mission Blvd. Well Designation: MW-9
Hayward, 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 X
 12" BK _____ 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 Centrifugal pump

Sampled with: Disposable bailer: Teflon bailer: _____

Well Diameter: 2" 4" _____ 6" _____ 8" _____

Purge Vol. Multiplier: 0.16 0.65 1.47 2.61 gal/ft.
Initial Measurement Time: 706
Recharge Measurement Time: 824 Calculated purge: 10.1 gal
 Depth of well: 24.72 Depth to water: 9.34 Actual purge: 10.1
 Depth to water: 9.01

Start purge: 818 Sampling time: 825

Time	Temp.	E.C.	pH	Turbidity	Volume
819	71.4	1131	781	_____	1
820	70.4	1045	780	_____	2
820	69.6	1016	773	_____	3
821	69.2	1005	769	_____	4

Sample appearance: cloudy 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: _____

Signature: Hal Hansen

Client: Ultramar

Sampling Date: 8-29-96

Site: Beacon #546

Project No.: 94-546-01

29705 Mission Blvd.

Well Designation: MW-10

Hayward, 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 _____ 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 Centrifugal pump

Sampled with: Disposable bailer: Teflon bailer: _____

Well Diameter: 2" 4" _____ 6" _____ 8" _____

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

Initial Measurement

Recharge Measurement

Time: 738

Time: 814

Calculated purge: 10.2 gal

Depth of well: 22.06

Depth to water: 6.32

Actual purge: 10.2'

Depth to water: 6.14

Start purge: 808

Sampling time: 815

Time	Temp.	E.C.	pH	Turbidity	Volume
809	71.2	1151	75.6	—	1
810	69.4	1104	75.1	—	2
810	69.5	982	74.9	—	3
811	68.3	996	74.1	—	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: _____

Signature: Hal Hanson

ATTACHMENT C

HISTORICAL GROUND WATER ELEVATION DATA

**TABLE 1
GROUND-WATER ELEVATION DATA**

Well No.	Relative Casing Elevation	DTW	CWE	CHANGE FROM LAST QUARTER
APRIL 15, 1992				
MW-1	37.46	22.10	15.36	+ 1.67
MW-2	35.95	20.88	15.07	+ 1.53
MW-3	40.28	24.59	15.69	+ 1.70
MW-4	34.94	NA	---	---
MW-5	36.37	NA	---	---
MW-6	37.43	NA	---	---
MW-7	30.50	16.00	14.50	+ 1.60
MW-8	28.48	14.30	14.18	+ 1.57
JULY 7, 1992				
MW-1	37.46	23.40	14.06	- 1.30
MW-2	35.95	21.95	14.00	- 1.07
MW-3	40.28	25.90	14.38	- 1.31
MW-4	34.94	NA	---	---
MW-5	36.37	NA	---	---
MW-6	37.43	NA	---	---
MW-7	30.50	17.10	13.40	- 1.10
MW-8	28.48	15.60	12.88	- 1.30

Elevation of top of casing measured in feet relative to arbitrary datum (100 ft); Depth-to-water measured in feet below top of casing

DTW = Depth-to-water

CWE = Calculated water elevations

NM = Not Accessible

ATTACHMENT D

HISTORICAL GROUND WATER ANALYTICAL DATA

TABLE 2
ANALYTICAL RESULTS ON GROUND WATER SAMPLES

Well No.	Date	B	T	E	X	TPH-g
WELL MW-1	4/15/92	710	11	150	440	8900
	7/7/92	<0.5	<0.5	<0.5	<0.5	<50
WELL MW-2	4/15/92	21	<0.5	56	26	1200
	7/7/92	<0.5	<0.5	<0.5	<0.5	<50
WELL MW-3	4/15/92	1.8	< 0.5	< 0.5	< 0.5	69
	7/7/92	<0.5	<0.5	<0.5	<0.5	<50
WELL MW-4	4/15/92	NA				
	7/7/92	NA				
WELL MW-5	4/15/92	NA				
	7/7/92	NA				
WELL MW-6	4/15/92	NA				
	7/7/92	NA				
WELL MW-7	4/15/92	21	1.2	2.0	1.2	1600
	7/7/92	<0.5	<0.5	<0.5	<0.5	320
WELL MW-8	4/15/92	1900	34	1200	1800	40000
	7/7/92	560	14	32	630	19000

All results shown in parts per billion (ppb)
 TPHg = Total petroleum hydrocarbons as gasoline
 B,T,E,X = Benzene, Toluene, Ethylbenzene, and Total Xylenes
 < = Less than detection limit shown
 NA = Not Analyzed

ATTACHMENT E
LABORATORY REPORT AND
CHAIN-OF-CUSTODY FORM

WEST LABORATORY

September 10, 1996
Sample Log 15453

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

Subject: Analytical Results for 10 Water Samples
Identified as: Beacon 546 (Proj. # 94-546-01)
Received: 08/29/96

Dear Mr. van Dam:

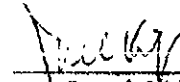
Analysis of the sample(s) referenced above has been completed. This report is written to confirm results communicated on September 10, 1996 and describes procedures used to analyze the samples.

Sample(s) were analyzed using the following method(s):

"BIEX" (EPA Method 602/Purge-and-Trap)
"TPH as Gasoline" (Modified EPA Method 8015/Purge-and-Trap)

Please refer to the following table(s) for summarized analytical results and contact us at 916-753-9500 if you have questions regarding procedures or results. The chain-of-custody document is enclosed.

Approved by:



Joel Kiff
Senior Chemist



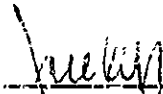
Sample Log 15453

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

From : Beacon 546 (Proj. # 94-546-01)
 Sampled : 08/28/96
 Received : 08/29/96
 Matrix : Water

MTBE	(MRL) ug/L	Measured Value ug/L
MW-1	(5.0)	<5.0
MW-2	(13)	<13
MW-3	(5.0)	<5.0
MW-4	(5.0)	<5.0
MW-5	(5.0)	<5.0
MW-6	(5.0)	<5.0
MW-7	(5.0)	<5.0
MW-8	(13)	<13
MW-9	(5.0)	<5.0
MW-10	(5.0)	<5.0

Approved By:


 Tom Kiff
 Senior Chemist

WEST LABORATORY

Sample Log 15453

15453-01

Sample: MW-1

From : Beacon 546 (Proj. # 94-546-01)

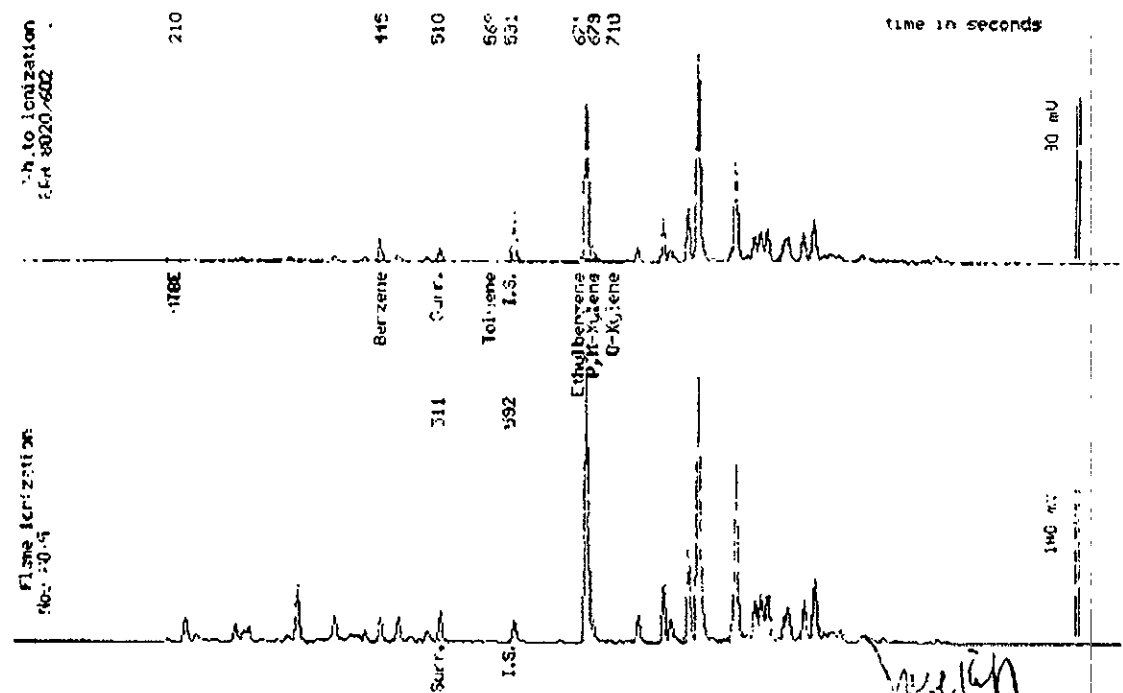
Sampled : 08/23/96

Dilution : 1:1

QC Batch : 6175Z

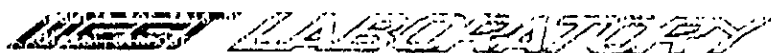
Matrix : Water

Parameter	(MRL) $\mu\text{g/L}$	Measured Value $\mu\text{g/L}$
Benzene	(.50)	12
Toluene	(.50)	<.50
Ethylbenzene	(.50)	120
Total Xylenes	(.50)	12
TPH as Gasoline	(50)	970
Surrogate Recovery		86 %



Date Analyzed: 09-17-96
 Column: 0.45mm ID X 30m DB624 (J&W Scientific)

[Signature]
 Jose Kiff
 Senior Chemist



Sample Log 15453

15453-02

Sample: MW-2

From : Basin 546 (Proj. # 94-546-01)

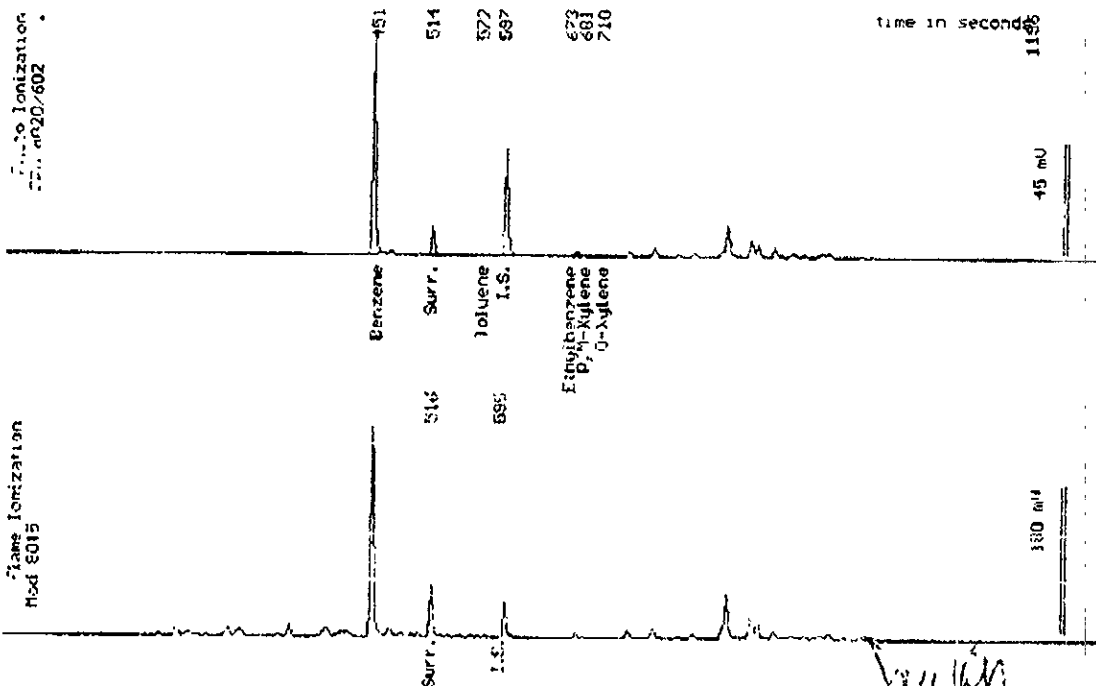
Sampled : 05/28/96

Dilution : 1:3

Matrix : Water

QC Batch : 6176B

Parameter	(MRL) $\mu\text{g/L}$	Measured Value $\mu\text{g/L}$
Benzene	(1.3)	31.0
Toluene	(1.3)	<1.3
Ethylbenzene	(1.3)	5.8
Total Xylenes	(1.3)	<1.3
TPH as Gasoline	(130)	830
Surrogate Recovery		97 %



Date Analyzed: 05-29-96
 Column : 0.45mm ID X 30% DB225 (J&H Scientific)

[Signature]
 Jack Kitt
 Senior Chemist

WEST LABORATORY

Sample Log 15453

15453-03

Sample: MW-3

From : Beacon 546 (Proj. # 94-546-01)

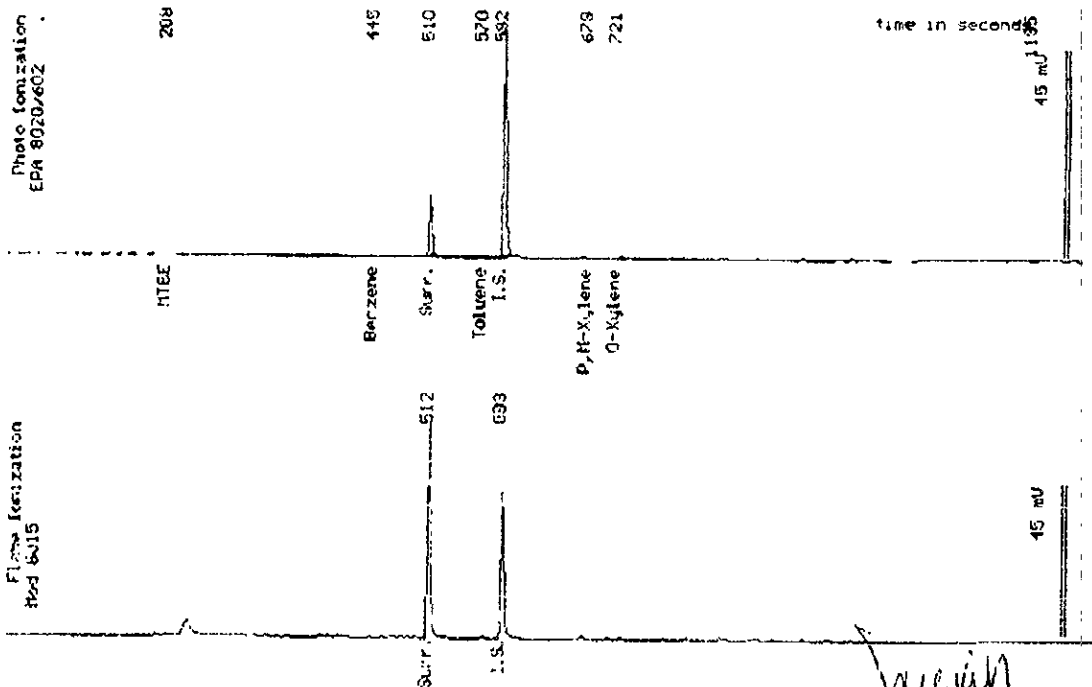
Sampled : 08/28/96

Dilution : 1:1

QC Batch : 6175Z

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		93 %



Date Analyzed: 03-06-96
 Column : 0.45mm ID X 30m DB524 (J&W Scientific)

Joel Kiss
 Joel Kiss
 Senior Chemist

WEST LABORATORY

Sample Log 15453

15453-04

Sample: MW-4

From : Beacon 546 (Proj. # 94-546-01)

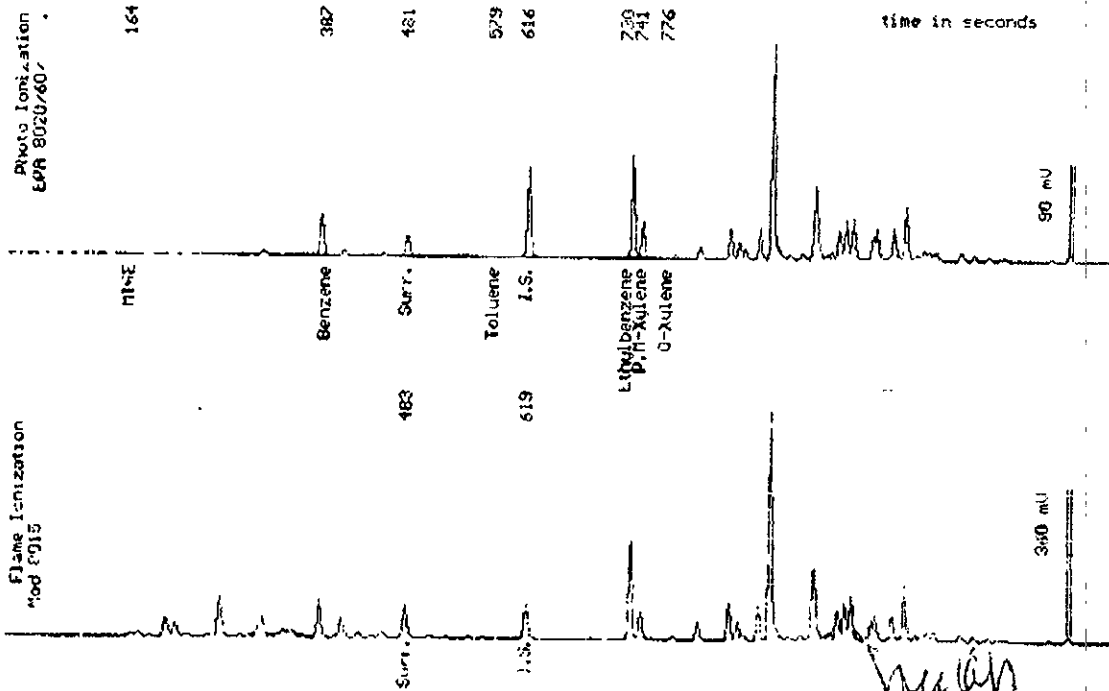
Sampled : 08/28/96

Dilution : 1:1

QC Batch : 4152I

Matrix : Water

Parameter	(MRL) $\mu\text{g/L}$	Measured Value $\mu\text{g/L}$
Benzene	(.50)	30
Toluene	(.50)	<.50
Ethylbenzene	(.50)	72
Total Xylenes	(.50)	21
TPH as Gasoline	(50)	1000
Surrogate Recovery		101 %



Date Analyzed: 09-07-96
 Column : 0.32mm ID X 60m Restek Rtx-1701

Joel Kivv
 Senior Chemist

WEST LABORATORY

Sample Log 15453

15453-05

Sample: MW-5

From : Beacon 546 (Proj. # 94-546-01)

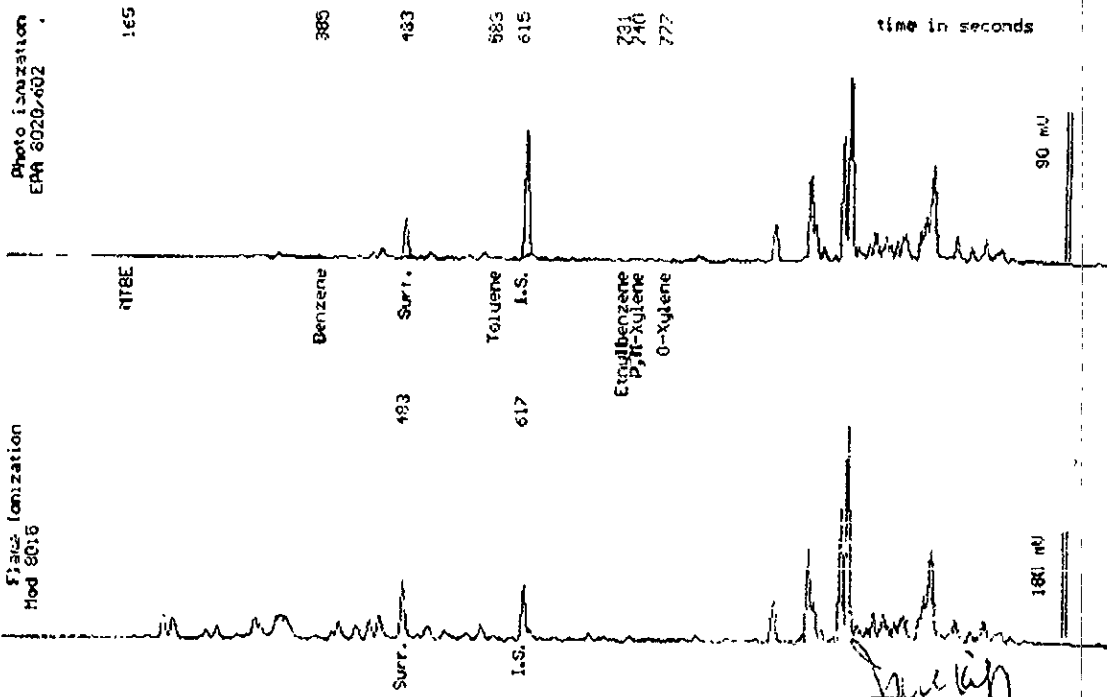
Sampled : 08/28/96

Dilution : 1:1

QC Batch : 4152I

Matrix : Water

Parameter	(MRL) $\mu\text{g/L}$	Measured Value $\mu\text{g/L}$
Benzene	(.50)	.64
Toluene	(.50)	<.50
Ethylbenzene	(.50)	<.50
Total Xylenes	(.50)	<.50
TPH as Gasoline	(50)	440
Surrogate Recovery		111 %



Date Analyzed: 09-07-96
 Column : 0.53mm ID X 60m Restek Rtx-1701

Joel Kiff
 Senior Chemist

WEST LABORATORY

Sample Log 15453
15453-06

Sample: MW-6

From : Beacon 546 (Proj. # 94-546-01)

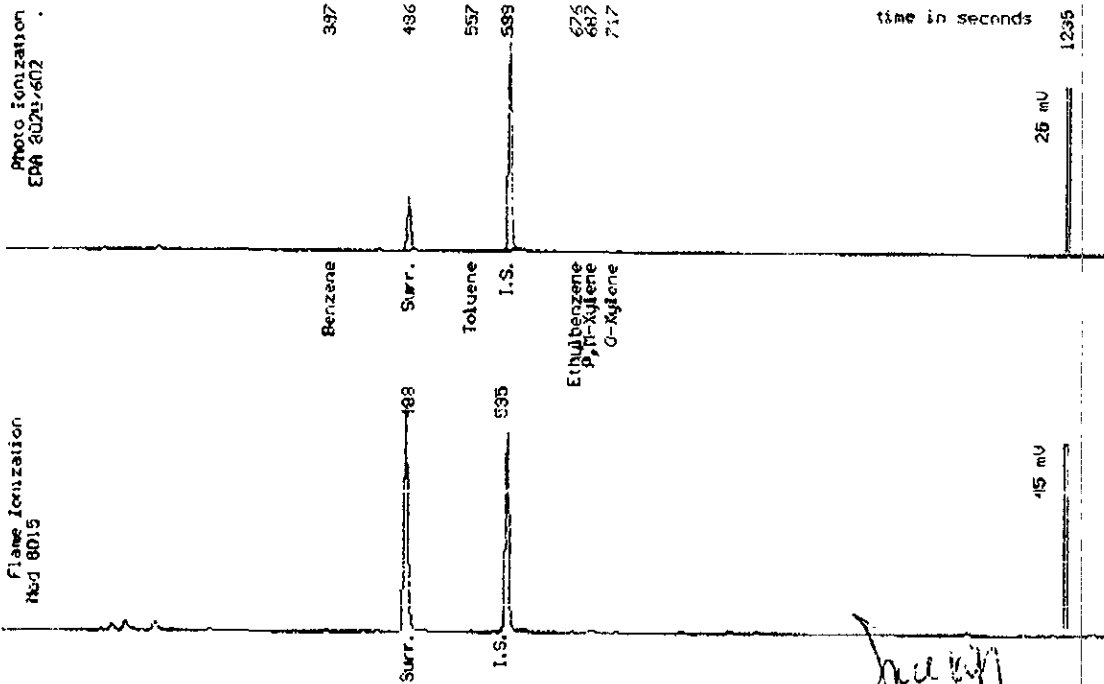
Sampled : 08/28/96

Dilution : 1:1

QC Batch : 2149P

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		86 %



Date Analyzed: 09-06-96
Column : 0.53mm X 60m Restek Rtx-1301

[Signature]
Joe Kiff
Senior Chemist

WEST LABORATORY

Sample Log 15453

15453-07

Sample: MW-7

From : Beacon 546 (Proj. # 94-546-01)

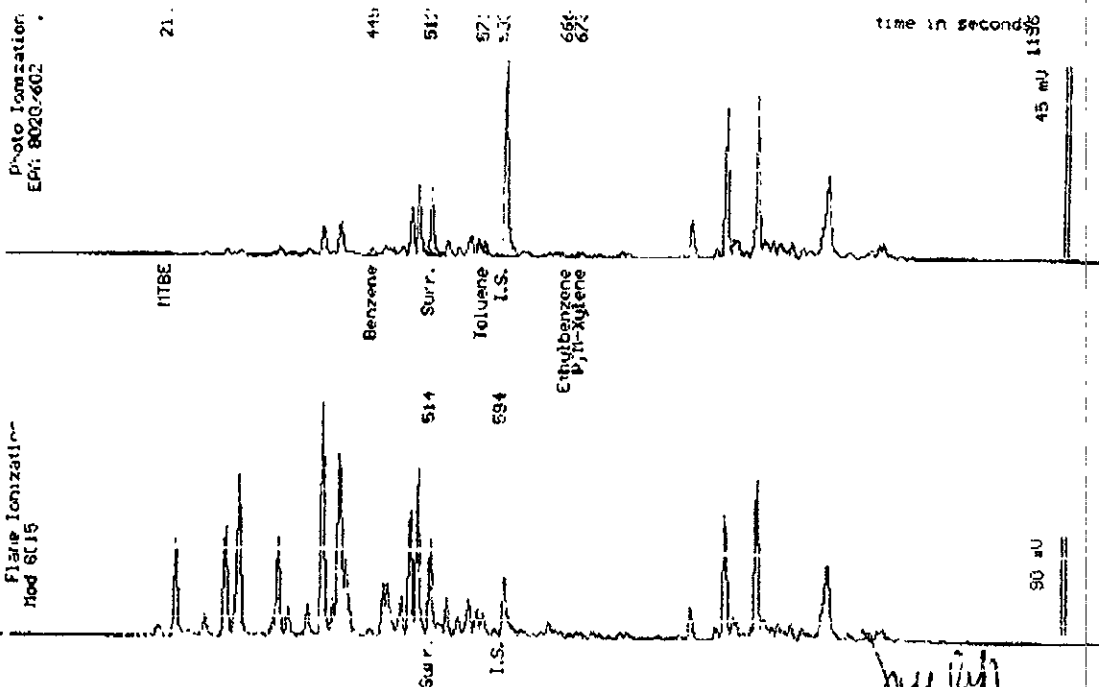
Sampled : 08/28/96

Dilution : 1:1

QC Batch : 6175Z

Matrix : Water

Parameter	(MRL) $\mu\text{g/L}$	Measured Value $\mu\text{g/L}$
Benzene	(.50)	1.0
Toluene	(.50)	1.3
Ethylbenzene	(.50)	<.50
Total Xylenes	(.50)	<.50
TPH as Gasoline	(50)	540
Surrogate Recovery		111 %



Date Analyzed: 09-07-96
 Column: 0.46mm ID X 30m DB624 (J&W Scientific)

Joel Kiss
 Joel Kiss
 Senior Chemist



Sample Log 15453
15453-06

Sample: MW-8

From : Beacon 546 (Proj. # 94-546-01)

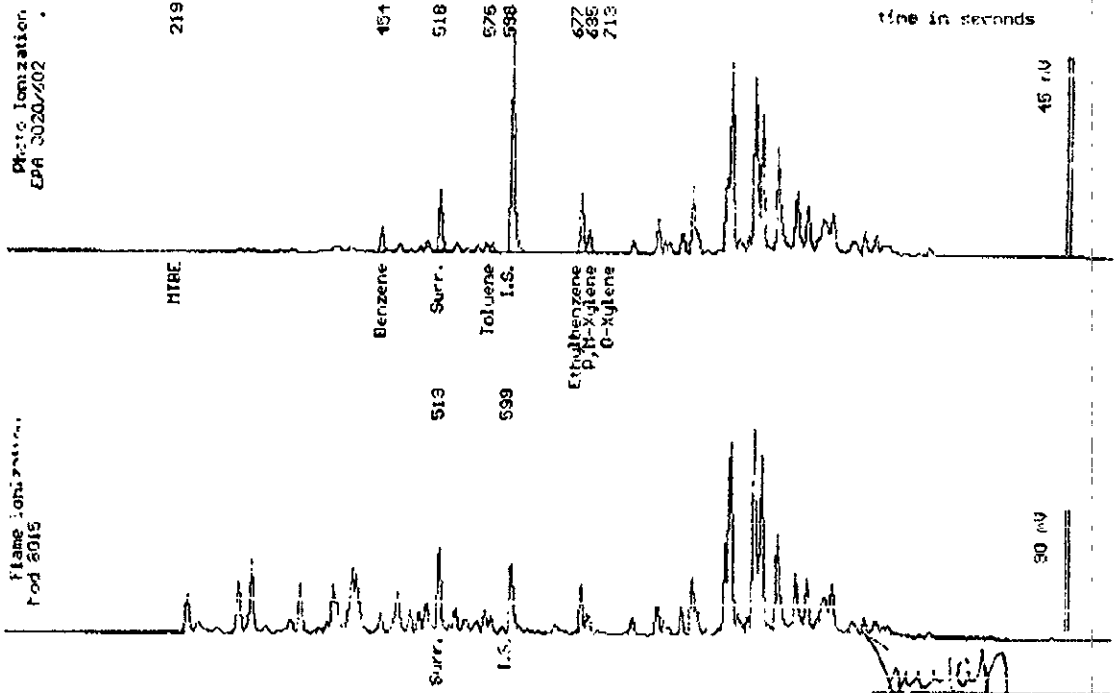
Sampled : 08/28/96

Dilution : 1:3

QC Batch : 6175Z

Matrix : Water

Parameter	(MRL) $\mu\text{g/L}$	Measured Value $\mu\text{g/L}$
Benzene	(1.3)	17
Toluene	(1.3)	5.9
Ethylbenzene	(1.3)	44
Total Xylenes	(1.3)	17
IPH as Gasoline	(130)	2100
Surrogate Recovery		100 %



Date Analyzed: 09-07-96
Column : 0.45mm ID X 30m DB624 (J&W Scientific)

[Signature]
Joe Kiff
Senior Chemist

WEST LABORATORY

Sample Log 15453

15453-09

Sample: MW-9

From : Beacon 546 (Proj. # 94-546-01)

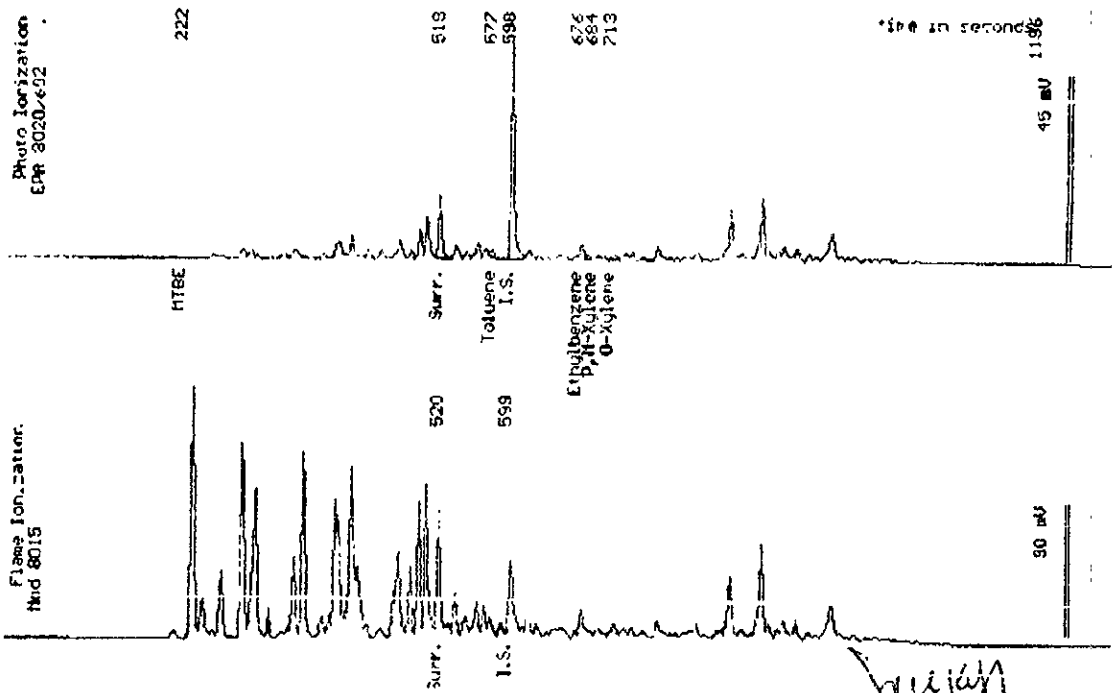
Sampled : 08/28/96

Dilution : 1:1

QC Batch : 6175Z

Matrix : Water

Parameter	(MRL) $\mu\text{g/L}$	Measured Value $\mu\text{g/L}$
Benzene	(.50)	<.50
Toluene	(.50)	.86
Ethylbenzene	(.50)	3.2
Total Xylenes	(.50)	1.5
TPH as Gasoline	(50)	530
Surrogate Recovery		110 %



Date Analyzed: 09-07-96
 Column : 0.45mm ID X 30m DB624 (J&W Scientific)

[Signature]
 Joel Kiff
 Senior Chemist

WEST LABORATORY

Sample Log 15453

15453-10

Sample: MW-10

From : Beacon 546 (Proj. # 94-546-01)

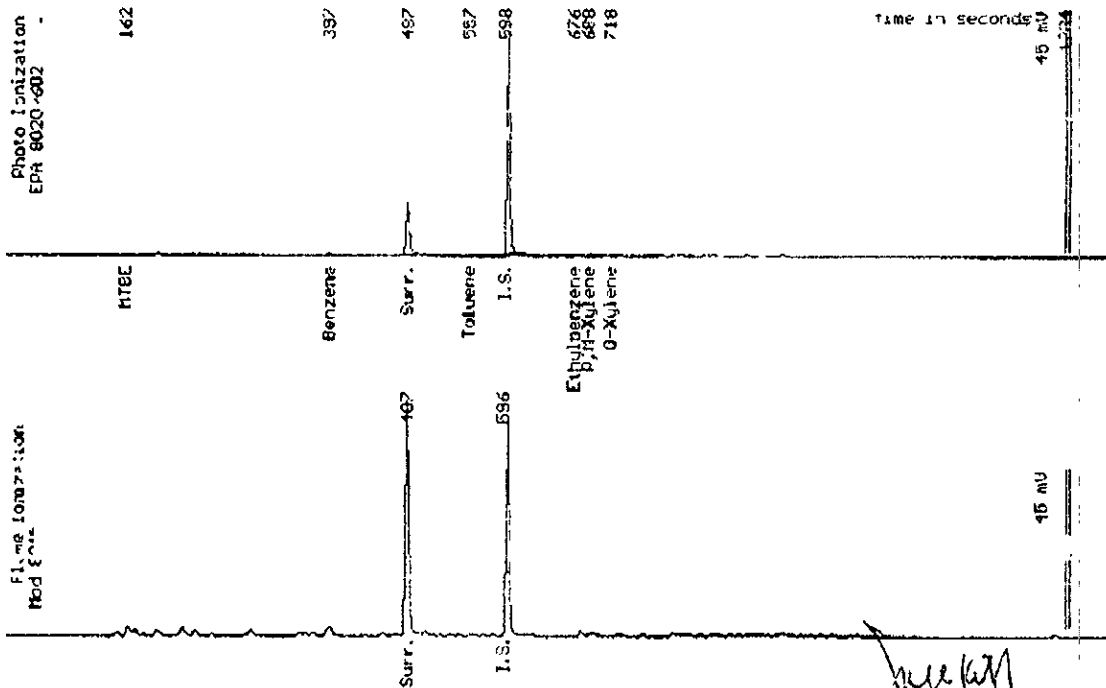
Sampled : 08/28/96

Dilution : 1:1

QC Batch : 2149P

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		95 %



Date Analyzed: 09-06-96
 Column : 0.53mm X 60m Restek Rtx-1301

[Signature]
 J. K. Kiff
 Senior Chemist



Ultramar Inc.
CHAIN OF CUSTODY REPORT

BEACON

P. 14/14

FAX NO. 916-767-4610

NOV-37-96 THU 05:57 PM WEST LAR

Beacon Station No. <i>546</i>		Sampler (Print Name) <i>H. H. Hanson</i>			ANALYSES		Date <i>8-28-96</i>	Form No. <i>2 of 2</i>
Project No. <i>916-546-01</i>		Sampler (Signature) <i>Neal Hanson</i>			BTEX TPH (gasoline) TPH (diesel)		No. of Containers <i>Standard TAT</i>	
Project Location <i>Wayward</i>		Affiliation <i>Douglas Enri</i>						
Sample No./Identification	Date	Time	Lat No.	BTEX	TPH (gasoline)	TPH (diesel)	No. of Containers	REMARKS
<i>MW-9</i>	<i>8-28-96</i>	<i>8:25</i>	<i>15432.19</i>	<i>X</i>			<i>2</i>	
<i>MW-10</i>	<i>8-28-96</i>	<i>8:25</i>	<i>15432.19</i>	<i>X</i>			<i>2</i>	
								<i>date 1610</i>
								<i>5°</i>
								<i>down</i>
Relinquished by: (Signature/Affiliation) <i>Neal Hanson Douglas Enri</i>		Date: <i>8/28/96</i>	Time: <i>1:15</i>	Received by: (Signature/Affiliation) <i>Dee Padem</i>		Date: <i>8/28/96</i>	Time: <i>1:15</i>	
Relinquished by: (Signature/Affiliation) <i>Dee Padem</i>		Date: <i>8/28/96</i>	Time: <i>11:10</i>	Received by: (Signature/Affiliation)		Date:	Time:	
Relinquished by: (Signature/Affiliation)		Date:	Time:	Received by: (Signature/Affiliation)		Date:	Time:	
Report To: <i>Dale wa Dan</i>				Bill to: ULTRAMAR INC. 521 West Third Street Folsom, CA 95630 Attention: <i>Terry Fox</i>				Date: <i>8/28/96 1610</i>

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32-0001 1/90



Ultramar Inc.
CHAIN OF CUSTODY REPORT

BEACON

P. 13/14

FAX NO. 916-757-4610

NOV-07-96 THU 05:56 PM WEST LAB

Beacon Station No. 546		Sampler (Print Name) Hal Hansen			ANALYSES				Date 8-28-96	Form No. 1 of 2										
Project No. 94-545-01		Sample: (Signature) Hal Hansen			<table border="1"> <tr> <td rowspan="2">BTEX</td> <td rowspan="2">TPH (gasoline)</td> <td rowspan="2">TPH (diesel)</td> <td rowspan="2">No. of Containers</td> <td rowspan="2">REMARKS</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>				BTEX	TPH (gasoline)	TPH (diesel)	No. of Containers	REMARKS						Standard TAT	
BTEX	TPH (gasoline)	TPH (diesel)	No. of Containers	REMARKS																
Project Location Hayward		Affiliation Doulor Env.																		
Sample No./Identification		Date	Time	Lab No.																
MW-1		8-28-96	928	15453-01	X	X		2												
MW-2			947	02																
MW-3			911	03																
MW-4			1018	04																
MW-5			958	05																
MW-6			837	06					notable 1:0											
MW-7			854	07					0-											
MW-8			1040	08					line											
Relinquished by: (Signature/Affiliation) Hal Hansen, Doulor Env.		Date 8/28/96	Time 1515	Received by: (Signature/Affiliation) Sid Padern				Date 8/28/96	Time 1515											
Relinquished by: (Signature/Affiliation) Sid Padern		Date 8/29/96	Time 1610	Received by: (Signature/Affiliation)				Date	Time											
Relinquished by: (Signature/Affiliation)		Date	Time	Received by: (Signature/Affiliation)				Date	Time											
Report To: Kate van der				Bill to: ULTRAMAR INC. 525 West Third Street Hanford, CA 93230 Attention: <i>Terry Fox</i>																

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September 27, 1996
Sample Log 15604

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

Subject: Analytical Results for 1 Water Sample
Identified as: Beacon 546 (Proj. # 94-546-01)
Received: 09/20/96

Dear Mr. van Dam:

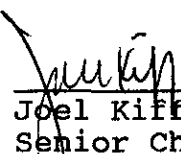
Analysis of the sample(s) referenced above has been completed. This report is written to confirm results communicated on September 27, 1996 and describes procedures used to analyze the samples.

Sample(s) were analyzed using the following method(s):

"BTEX" (EPA Method 602/Purge-and-Trap)
"TPH as Gasoline" (Modified EPA Method 8015/Purge-and-Trap)

Please refer to the following table(s) for summarized analytical results and contact us at 916-753-9500 if you have questions regarding procedures or results. The chain-of-custody document is enclosed.

Approved by:



Joel Kiff
Senior Chemist

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

From : Beacon 546 (Proj. # 94-546-01)

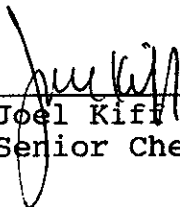
Sampled : 09/19/96

Received : 09/20/96

Matrix : Water

MTBE	(MRL) ug/L	Measured Value ug/L
MW-5	(5.0)	<5.0

Approved By:


Joel Kiff
Senior Chemist

Sample: MW-5

From : Beacon 546 (Proj. # 94-546-01)

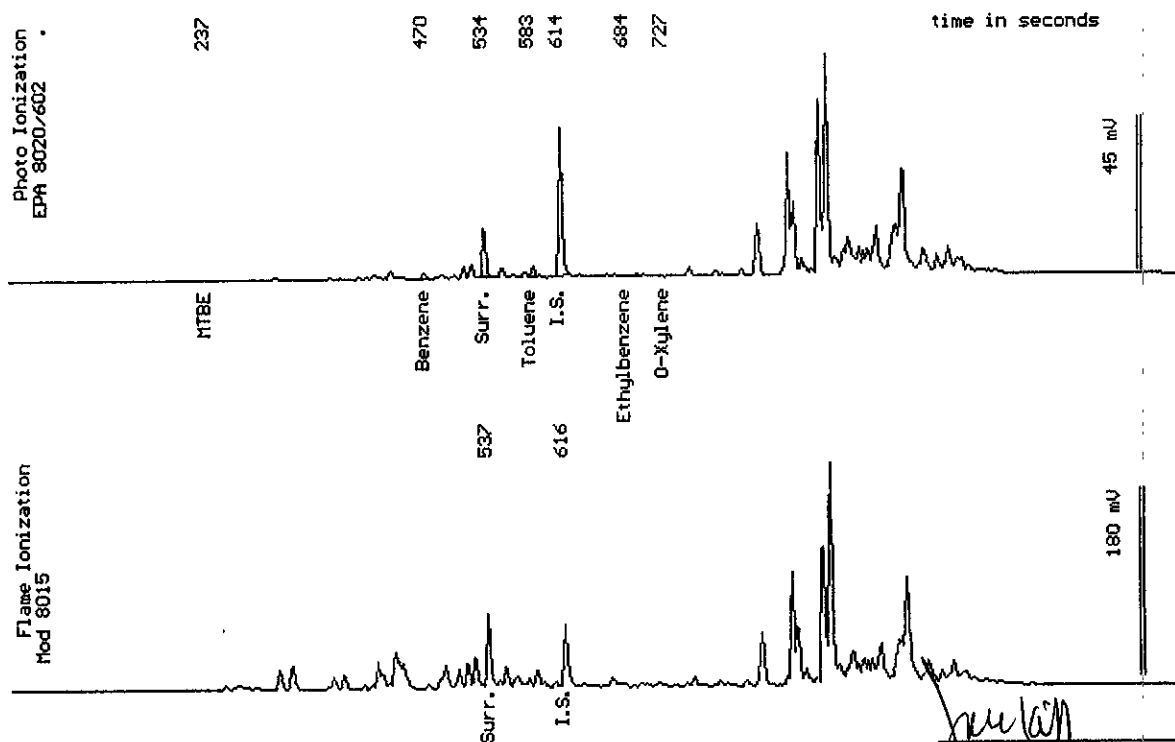
Sampled : 09/19/96

Dilution : 1:1

QC Batch : 6176Z

Matrix : Water

Parameter	(MRL) ug/L	Measured Value ug/L
Benzene	(.50)	.78
Toluene	(.50)	1.7
Ethylbenzene	(.50)	<.50
Total Xylenes	(.50)	<.50
TPH as Gasoline	(50)	370
Surrogate Recovery		106 %



Date Analyzed: 09-26-96
 Column : 0.53mm ID X 60m Restek Rtx-1701

Joel Kiff
 Joel Kiff
 Senior Chemist



Ultramar Inc.
CHAIN OF CUSTODY REPORT

BEACON

Beacon Station No. <i>546</i>		Sampler (Print Name) <i>Hal Hasser</i>			ANALYSES				Date <i>9-19-96</i>	Form No. <i>1 of 1</i>
Project No. <i>94-546-01</i>		Sampler (Signature) <i>Hal Hasser</i>			BTEX	TPH (gasoline)	TPH (diesel)	No. of Containers	<i>Standard TAT</i>	
Project Location <i>Hayward</i>		Affiliation <i>Republic Energy</i>								
Sample No./Identification <i>MW-5</i>		Date <i>9-19-96</i>	Time <i>722</i>	Lab No. <i>15604-01</i>						
Relinquished by: (Signature/Affiliation) <i>Hal Hasser Republic Energy</i>		Date <i>9/20/96</i>	Time <i>1550</i>	Received by: (Signature/Affiliation) <i>John Marty</i>				Date <i>9/20/96</i>	Time <i>1550</i>	
Relinquished by: (Signature/Affiliation) <i>John Marty</i>		Date <i>9/20/96</i>	Time <i>1635</i>	Received by: (Signature/Affiliation) _____				Date	Time	
Relinquished by: (Signature/Affiliation) _____		Date	Time	Received by: (Signature/Affiliation) <i>John Marty</i>				Date <i>9/20/96</i>	Time <i>1645</i>	
Report To: <i>Dale Wamban</i>				Bill to: ULTRAMAR INC. 525 West Third Street Hanford, CA 93230 Attention: <i>Terry Fox</i>						

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