Ultramar

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

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

July 26, 1994

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

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

Dear Mr. Murphy:

Enclosed is a copy of the report on the second quarter monitoring for the above-referenced Ultramar facility. Also included is a copy of the Quarterly Status Report which describes the work completed this quarter and the work anticipated to be completed next quarter.

Please call if you have any question regarding this project.

Sincerely,

ULTRAMAR INC.

Terrence A. Fox

Terrence A. Fox
Senior Project Manager
Marketing Environmental Department

Enclosures

cc w/encls: Mr. Vijay B. Patel, San Francisco Region, RWQCB
Mr. Dale van Dam, AMV

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ENVIRONMENTAL PROJECT QUARTERLY STATUS REPORT

DATE REPORT SUBMITTED: July 26, 1994
QUARTER ENDING: June 30, 1994

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 gpm and has a downgradient capture radius of 7.4 feet.

SUMMARY OF THIS QUARTER'S ACTIVITIES:

Performed quarterly monitoring on June 15, 1994.

Installed an additional downgradient well on June 13, 1994.

RESULT OF QUARTERLY MONITORING:

Monitoring data indicates that the benzene concentration remained not detected in MW-3 and MW-6. The benzene concentration decreased in MW-4 from 460 ppb to 97 ppb, in MW-5 from 26 ppb to 14 ppb, in MW-8 from 650 ppb to 360 ppb, and in MW-9 from 26 ppb to 17 ppb. Benzene concentrations increased in MW-1 from 37 ppb to 53 ppb, MW-2 from 45 ppb to 54 ppb, and in MW-7 from 0.90 ppb to 3.6 ppb.

PROPOSED ACTIVITY OR WORK FOR NEXT QUARTER:

ACTIVITY	ESTIMATED COMPLETION DATE
Continue quarterly ground-water sampling.	
Evaluate remediation options and prepare a remediation plan.	

FUGRO WEST, INC.

1050 Melody Lane, Suite 160
Roseville, California 95678
Tel: (916) 782-2110
FAX: (916) 786-7830

July 13, 1994

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

Subject: **Second Quarter 1994 Groundwater Monitoring Report**
Beacon Station #546
29705 Mission Boulevard, Hayward, California

Dear Mr. Fox:

This report documents the results of quarterly groundwater monitoring conducted on June 15, 1994 at the subject site (Figure 1). The monitoring, conducted by Doulos Environmental, included measurements of depth to groundwater, subjective analysis for free product, groundwater purging and collection of groundwater samples. All field activities pertaining to events in this report were conducted according to the Ultramar Field Procedures included in the Attachments.

GROUNDWATER ELEVATIONS

Prior to purging, Doulos Environmental personnel collected depth to groundwater measurements. Groundwater level data from April 1992 to date are summarized in Table 1. Historic groundwater levels are presented as an Attachment. On the basis of the current measurements, groundwater flows to the west (Figure 2) at a gradient of <0.01 ft/ft. Groundwater levels have decreased an average of 0.46 feet compared to the last monitoring event.

GROUNDWATER SAMPLING AND ANALYSES

Groundwater samples were collected from nine wells. All samples were analyzed for concentrations of:

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

Analytical results from April 1992 to date are summarized in Table 2. Historic analytical data is presented as an Attachment. Figure 3 is a distribution map of benzene in groundwater based on the current data. The laboratory report and chain-of-custody form for the current sampling event are attached. Benzene concentrations remain nondetectable in wells MW-3 and MW-6. Concentrations decreased in wells MW-4, MW-5, MW-8, and MW-9; and increased in wells MW-1, MW-2, and MW-7 compared to prior sampling.

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

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 shall be at such parties' sole risk. This report was prepared under the review and supervision of the professional geologist, registered with the State of California, whose signature appears below.

If you have any questions or comments, please contact us at (916) 782-2110.

Sincerely,

FUGRO WEST, INC.

Sheila R. Richgels
Report Coordinator

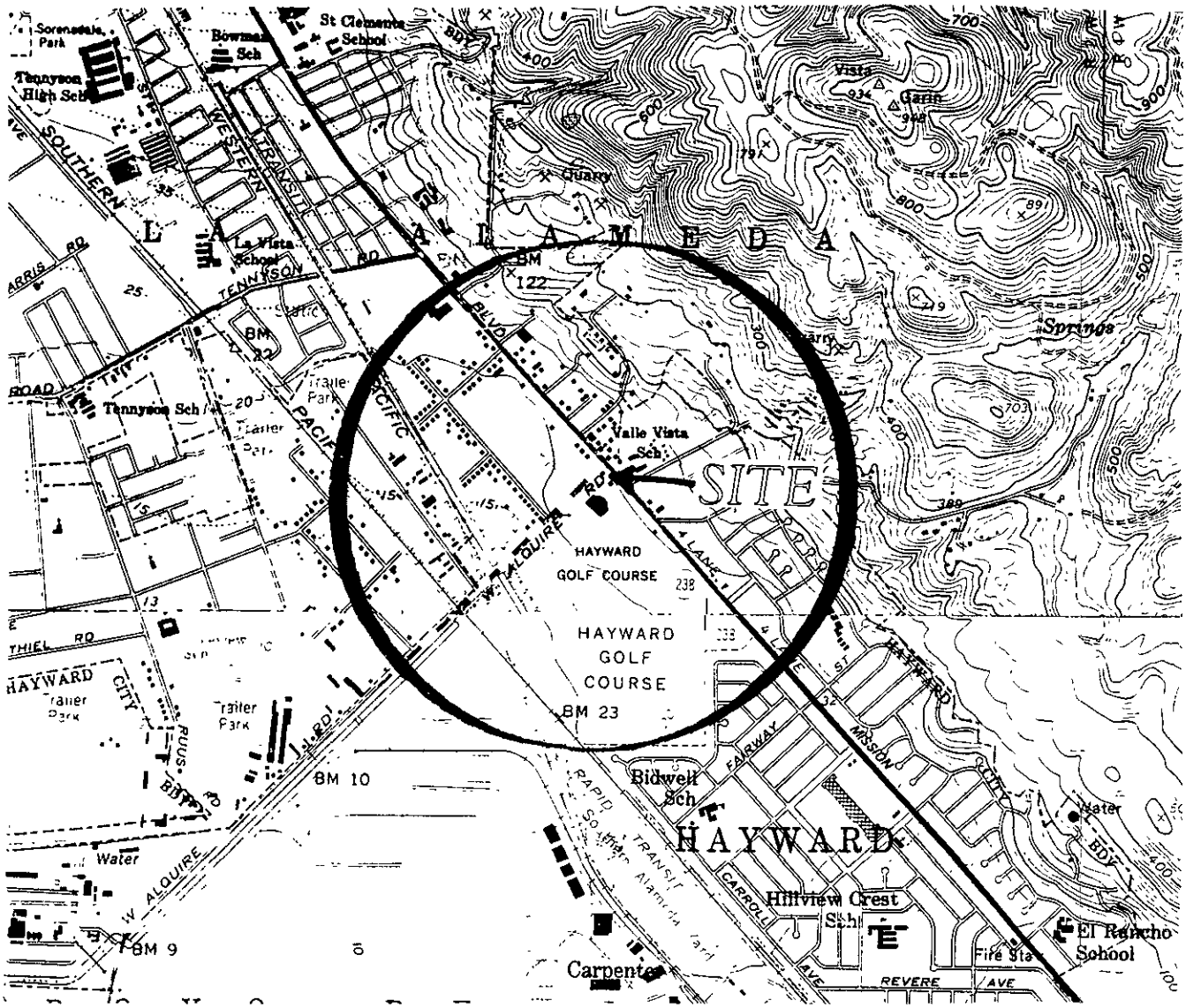
Owen M. Kittredge
Registered Geologist
CRG No. 5853

REGISTERED GEOLOGIST
OWEN M. KITTREDGE
No. 5853
Exp. 11/30/95
STATE OF CALIFORNIA

7/13/94
Date

SRR/OMK/srr

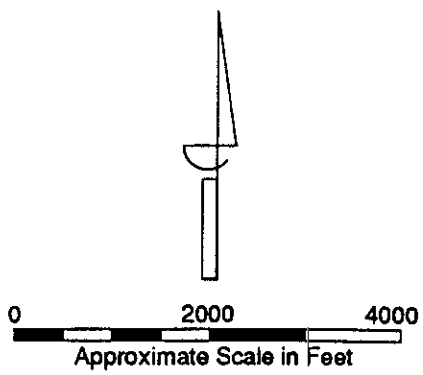
Attachments



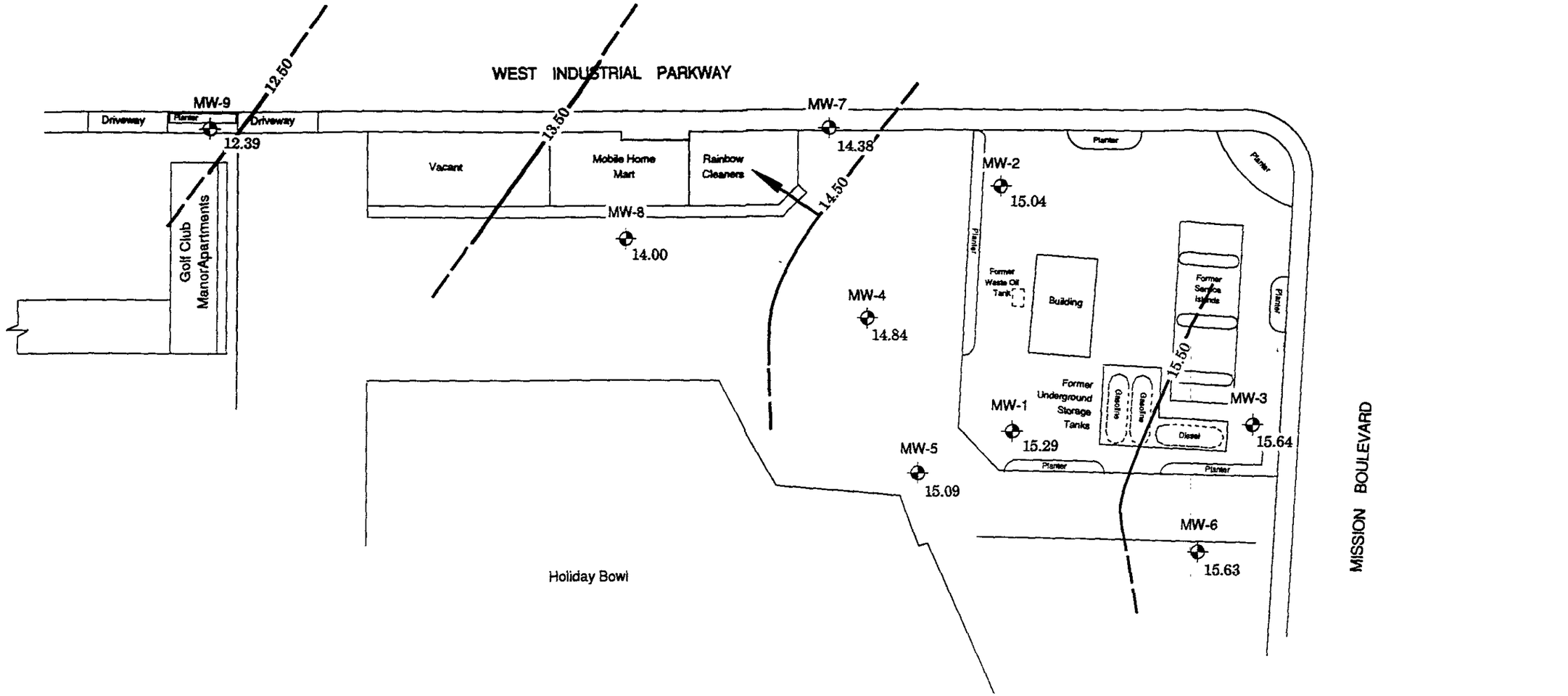
GENERAL NOTES:

BASE MAP FROM USGS
7.5 MINUTE TOPOGRAPHIC
HAYWARD & NEWARK, CA.
1959, PHOTOREVISED 1980.

WEST ALQUIRE ROAD HAS BEEN
CHANGED TO WEST INDUSTRIAL PARKWAY



FUGRO	DRAWN BY: Ed Bernard DATE: September 29, 1992 REVISED BY: Ed Bernard DATE: February 11, 1993	SITE LOCATION MAP Beacon Station # 546 29705 Mission Boulevard Hayward, CA	FIGURE 1 PROJECT NUMBER: 93-47-2067



LEGEND

15.29 Monitoring Well
Groundwater Elevation in Feet

Potentiometric Surface Contour Line
(Dashed Where Inferred)

Estimated Direction of Groundwater Flow

Hydraulic Gradient = < 0 01 ft/ft
Contour interval = 1.0 ft

NOTES

Site Sketch After
Site Map By Ultramar
August 5, 1992

All locations Are Approximate

0 50 100
Approximate Scale in Feet

FUGRO

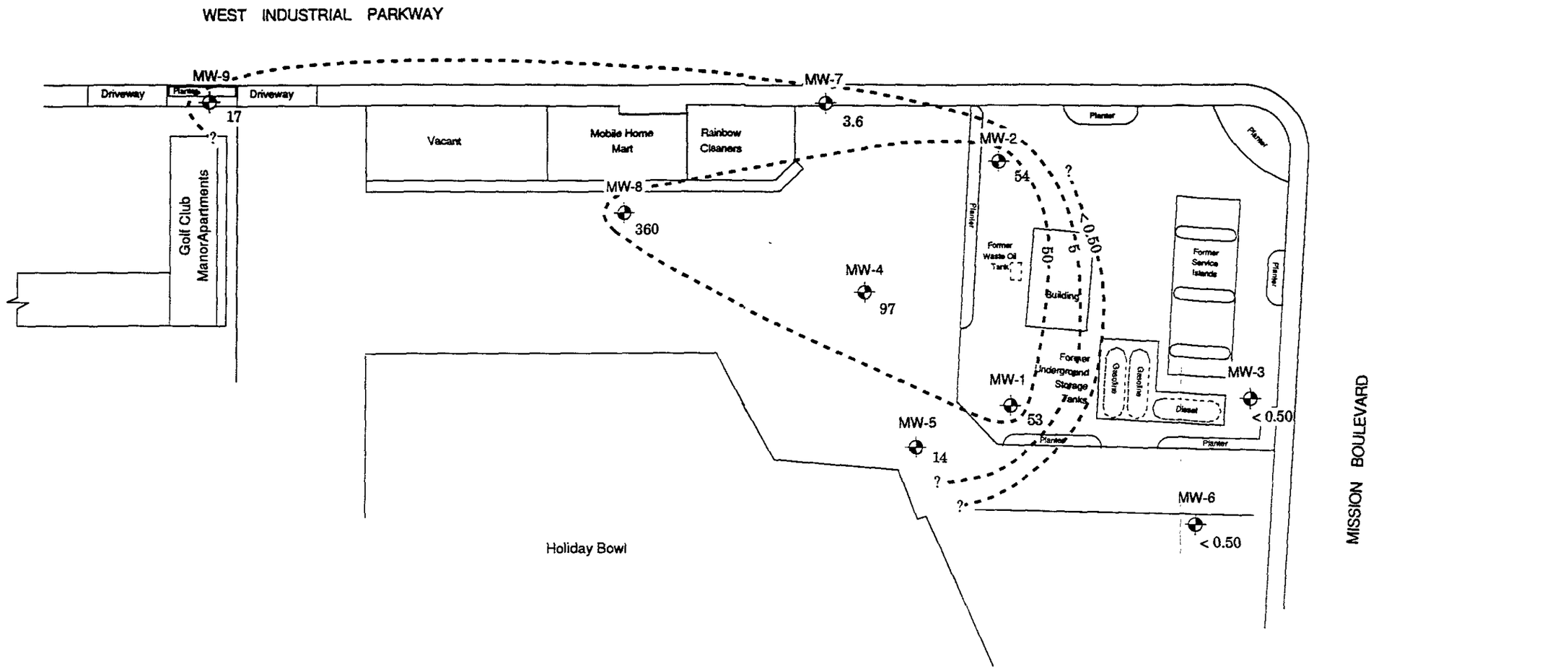
DRAWN BY	D Hada
DATE	June 27, 1994
REVISED BY	
DATE	

POTENTIOMETRIC SURFACE MAP
June 15, 1994

Beacon Station # 546
29705 Mission Boulevard
Hayward, CA

FIGURE
2

PROJECT NUMBER
92-773



LEGEND

- Monitoring Well
- 53 Benzene Concentration (parts-per-billion)
- Inferred Iso-Concentration Limits
- < 0.50 Below Indicated Detection Limit

Contour Interval = Exponential

NOTES

Site Sketch After
Site Map By Ultramar
August 5, 1992

All locations Are Approximate

0 50 100
Approximate Scale in Feet

FUGRO

DRAWN BY	D Haca
DATE	June 27 1994
REVISED BY	
DATE	

DISTRIBUTION MAP OF BENZENE
IN GROUNDWATER June 15, 1994

Beacon Station # 546
29705 Mission Boulevard
Hayward, CA

FIGURE
3

PROJECT NUMBER
92-773

TABLE 1
WATER LEVEL DATA
BEACON STATION #546
29705 MISSION BOULEVARD, HAYWARD, CALIFORNIA
(Measurements in feet)

Monitoring Well	Date	Reference Elevation (top of casing)[1]	Depth to Groundwater[1]	Groundwater Elevation[2]	Well Depth	Comments
MW-1	04/15/92	37.46	22.10	15.36	---	
	07/07/92		23.40	14.06	---	
	09/23/92		24.61	12.85	---	
	11/12/92		24.87	12.59	---	Heavy sheen
	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	
	06/15/94		22.17	15.29	37.99	
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	14.57	39.00	
	03/10/94		20.47	15.48	39.07	
	06/15/94		20.91	15.04	39.16	
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	
	06/15/94		24.64	15.64	38.00	
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	
	06/15/94		20.10	14.84	39.12	
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	
	06/15/94		21.28	15.09	34.71	
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	
	06/15/94		21.80	15.63	39.24	

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
WATER LEVEL DATA
BEACON STATION #546
29705 MISSION BOULEVARD, HAYWARD, CALIFORNIA
(Measurements in feet)

Monitoring Well	Date	Reference Elevation (top of casing)[1]	Depth to Groundwater[1]	Groundwater Elevation[2]	Well Depth	Comments
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	
	06/15/94		16.12	14.38	33.96	
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	
	06/15/94		14.48	14.00	39.27	
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	
	06/15/94		9.60	12.39	23.23	

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.

Fugro
94-546/June 1994

TABLE 2
ANALYTICAL RESULTS: GROUNDWATER
BEACON STATION #546
29705 MISSION BOULEVARD, HAYWARD, CALIFORNIA
(All results in parts-per-billion)

Monitoring Well	Date Collected	Total Petroleum Hydrocarbons	Aromatic Volatile Organics			
		Gasoline	Benzene	Toluene	Ethyl-benzene	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
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
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
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
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
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

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

TABLE 2
ANALYTICAL RESULTS: GROUNDWATER
BEACON STATION #546
29705 MISSION BOULEVARD, HAYWARD, CALIFORNIA
(All results in parts-per-billion)

Monitoring Well	Date Collected	Total Petroleum Hydrocarbons	Aromatic Volatile Organics			
		Gasoline	Benzene	Toluene	Ethyl-benzene	Total Xylenes
MW-7	04/15/92	1,600	21	1.2	2.0	1.2
	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
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	<25	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
MW-9	02/03/92	28,000	64	9.6	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

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

ULTRAMAR FIELD PROCEDURES

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

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 are monitored. The well is sufficiently purged when: the four casing volumes have been removed; the temperature, pH, and conductivity 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 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 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 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 will 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 bailing, a final free product thickness measurement will be taken and a ground water sample will not be collected.

Samples are stored in 40-milliliter vials so that air passage through the sample is minimized (to prevent volatilizing 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. A Chain-of-Custody form is completed to ensure sample integrity. Ground water samples are transported to a state-certified laboratory and analyzed within the EPA-specified holding times for the requested analyses.

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 casting
DTW = Depth-to-water
CWE = Calculated water elevations
NM = Not Accessible

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, Tuluene, Ethylbenzene, and Total Xylenes
< = Less than detection limit shown
NA = Not Analyzed

June 23, 1994
Sample Log 9658

Sheila Richgels
Fugro West, Inc.- Roseville
1050 Melody Lane, Suite 160
Roseville, CA 95678

Subject: Analytical Results for 9 Water Samples
Identified as: Project # 94-546-01 (Former Beacon 546)
Received: 06/17/94

Dear Ms. Richgels:

Analysis of the sample(s) referenced above has been completed. This report is written to confirm results communicated on June 23, 1994 and describes procedures used to analyze the samples.

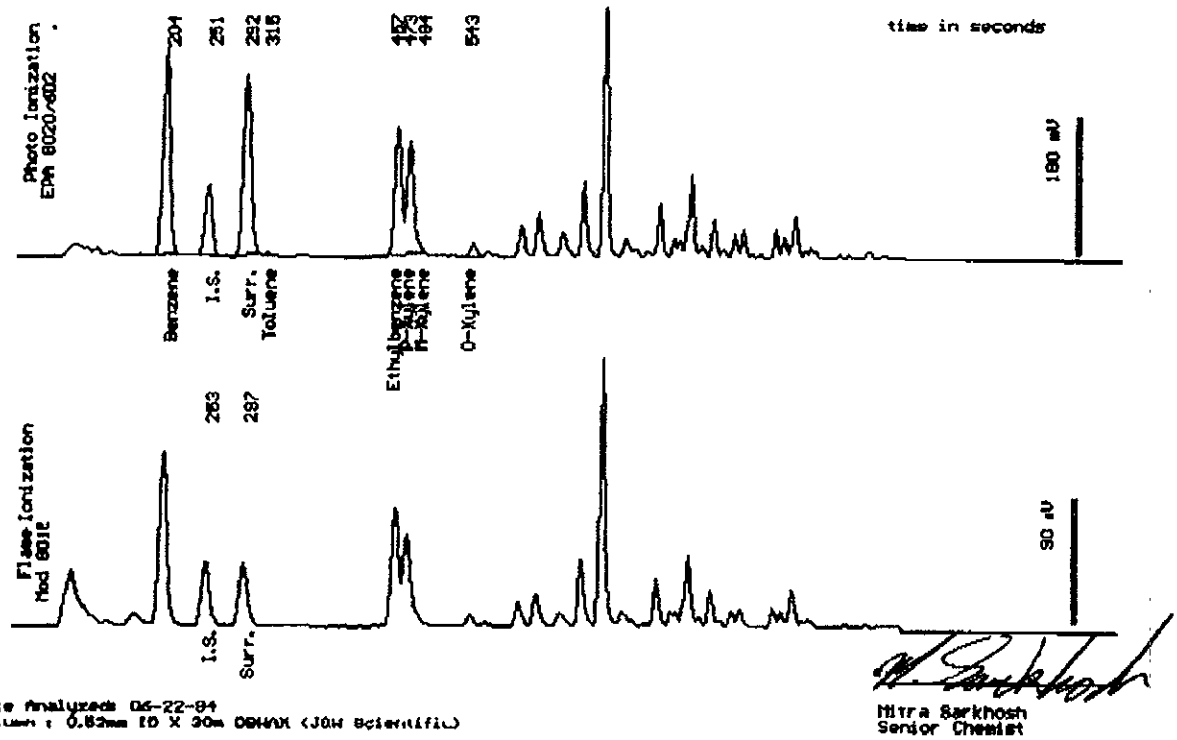
Sample(s) were received in 40-milliliter glass vials sealed with TFE lined septae and plastic screw-caps. Each sample was transported and received under documented chain of custody and stored at 4 degrees C until analysis was performed.

Sample Log 9658
9658-1

Sample: MW-1

From : Project # 94-546-01 (Former Beacon 546)
Sampled : 06/15/94
Dilution : 1:1 QC Batch : 2087D
Matrix : water

Parameter	(MRL) ug/L	Measured Value ug/L
Benzene	(.50)	53
Toluene	(.50)	<.50
Ethylbenzene	(.50)	40
Total Xylenes	(.50)	38
TPH as Gasoline	(50)	420
Surrogate Recovery		100 %



Date Analyzed 06-22-94
Column : 0.82mm ID X 30m DB624 (J&W Scientific)

Mitra Sarkhosh
Senior Chemist

Sample Log 9658
9658-2

Sample: MW-2

From : Project # 94-546-01 (Former Beacon 546)
Sampled : 06/15/94
Dilution : 1:3 QC Batch : 4091c
Matrix : Water

Parameter	(MRL) ug/L	Measured Value ug/L
Benzene	(1.3)	54
Toluene	(1.3)	2.0
Ethylbenzene	(1.3)	270
Total Xylenes	(1.3)	15
TPH as Gasoline	(130)	1300
Surrogate Recovery		100 %

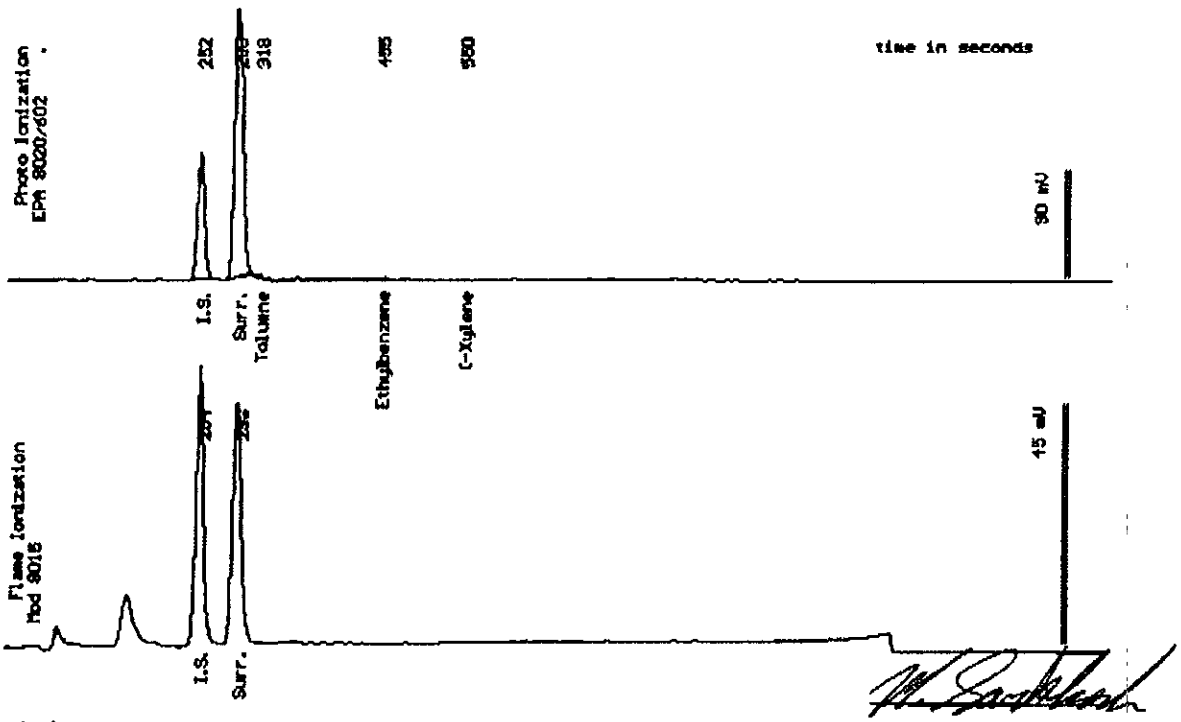
Sample Log 9658

9658-3

Sample: MW-3

From : Project # 94-546-01 (Former Beacon 546)
Sampled : 06/15/94
Dilution : 1:1 QC Batch : 2087C
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: 06-22-94
Column : 0.53mm ID X 30m DBWAX (J&W Scientific)

Mitra Sarkhosh
Senior Chemist

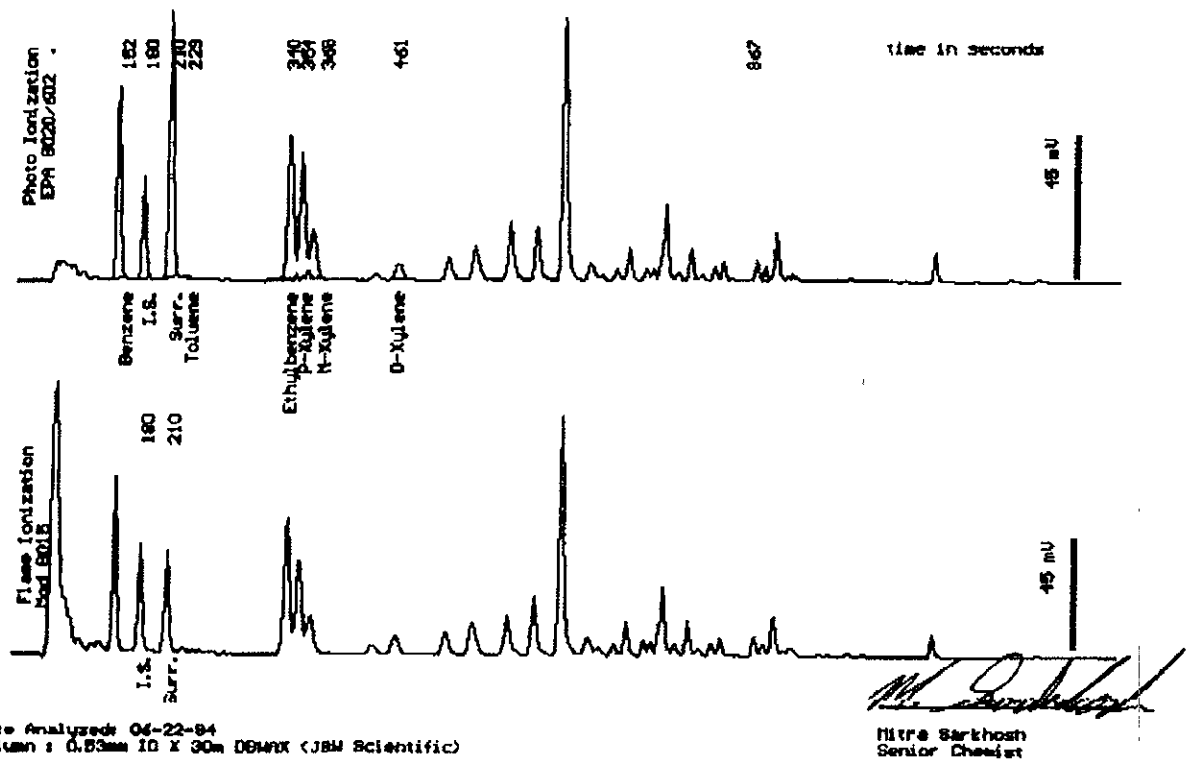
Sample Log 9658

9658-4

Sample: MW-4

From : Project # 94-546-01 (Former Beacon 546)
Sampled : 06/15/94
Dilution : 1:3 QC Batch : 4091C
Matrix : Water

Parameter	(MRL) ug/L	Measured Value ug/L
Benzene	(1.3)	97
Toluene	(1.3)	1.9
Ethylbenzene	(1.3)	130
Total Xylenes	(1.3)	150
TPH as Gasoline	(130)	1300
Surrogate Recovery		102 %



Date Analyzed 06-22-94
Column : 0.53mm ID X 30m DBWAX (J&W Scientific)

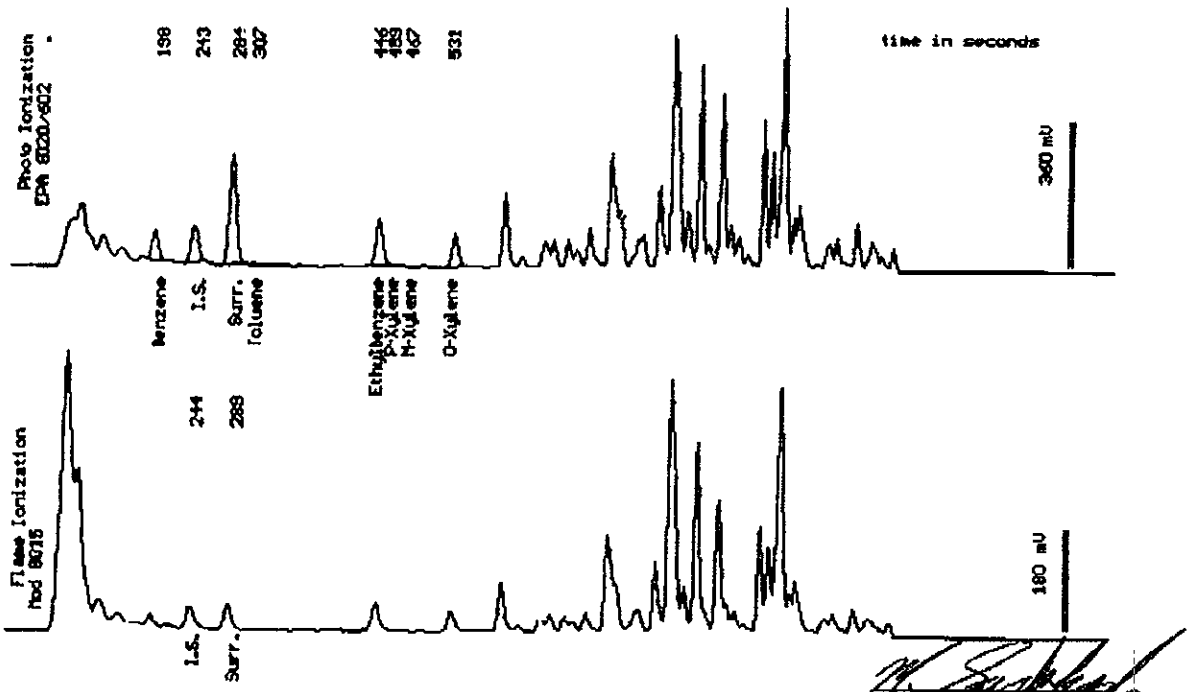
Mitra Sarkhosh
Senior Chemist

Sample Log 9658
9658-5

Sample: MW-5

From : Project # 94-546-01 (Former Beacon 546)
Sampled : 06/15/94
Dilution : 1:1 QC Batch : 2087D
Matrix : Water

Parameter	(MRL) ug/L	Measured Value ug/L
Benzene	(.50)	14
Toluene	(.50)	<.50
Ethylbenzene	(.50)	29
Total Xylenes	(.50)	18
TPH as Gasoline	(50)	2100
Surrogate Recovery		101 %



Date Analyzed: 06-22-94
Column : 0.53mm ID X 30m DBWAX (J&W Scientific)

Mitra Sarkhosh
Senior Chemist

Sample Log 9658

9658-6

Sample: MW-6

From : Project # 94-546-01 (Former Beacon 546)
Sampled : 06/15/94
Dilution : 1:1 QC Batch : 2087C
Matrix : Water

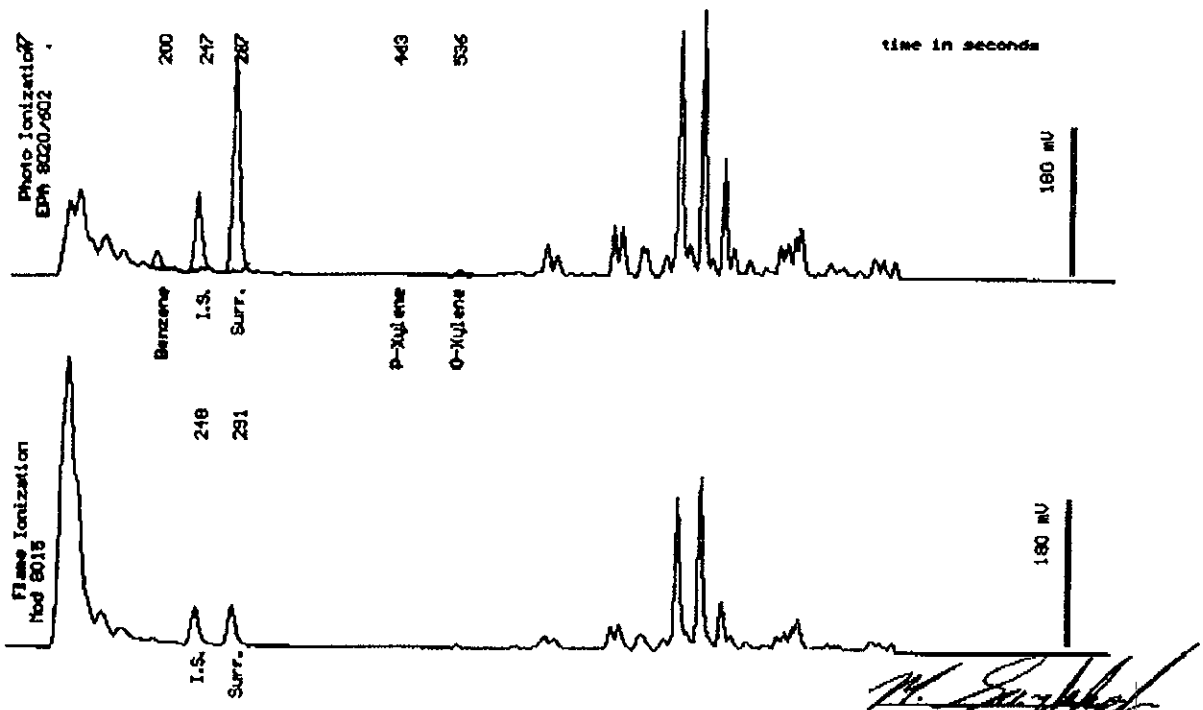
Parameter	(MRL) ug/L	Measured Value ug/L
Benzene	(.50)	<.50
Toluene	(.50)	<.50
Ethylbenzene	(.50)	<.50
Total Xylenes	(.50)	<.50
TPH as Gasoline	(50)	<50
Surrogate Recovery		94 %

Sample Log 9658
9658-7

Sample: MW-7

From : Project # 94-546-01 (Former Beacon 546)
Sampled : 06/15/94
Dilution : 1:1 QC Batch : 2087D
Matrix : Water

Parameter	(MRL) ug/L	Measured Value ug/L
Benzene	(.50)	3.6
Toluene	(.50)	<.50
Ethylbenzene	(.50)	<.50
Total Xylenes	(.50)	1.8
TPH as Gasoline	(50)	760
Surrogate Recovery		98 %



Date Analyzed: 06-22-94
Column : 0.53mm ID X 30m DBWAX (J&W Scientific)

Mitra Sarkhosh
Senior Chemist

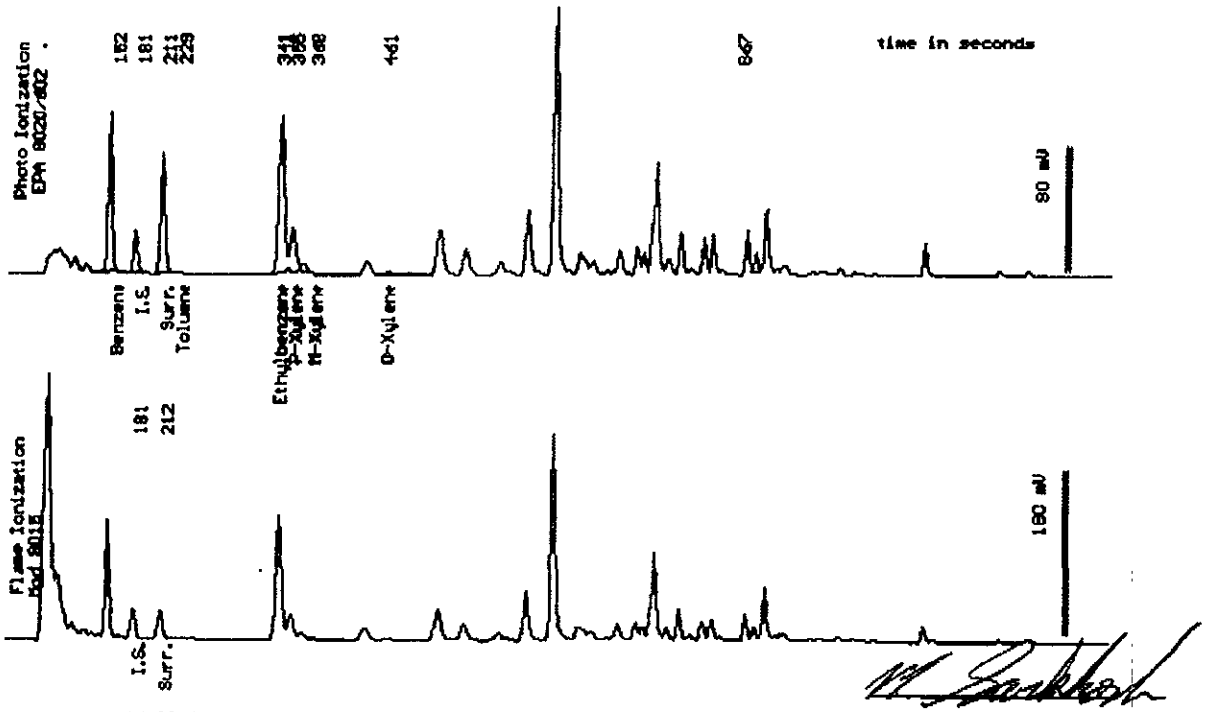
Sample Log 9658

9658-8

Sample: MW-8

From : Project # 94-546-01 (Former Beacon 546)
Sampled : 06/15/94
Dilution : 1:5 QC Batch : 4091c
Matrix : Water

Parameter	(MRL) ug/L	Measured Value ug/L
Benzene	(2.5)	360
Toluene	(2.5)	<2.5
Ethylbenzene	(2.5)	650
Total Xylenes	(2.5)	190
TPH as Gasoline	(250)	6600
Surrogate Recovery		100 %



Date Analyzed: 06-22-94
Column : 0.53mm ID X 30m DBWAX (J&W Scientific)

Nitra Sarkhosh
Senior Chemist

Sample Log 9658

9658-9

Sample: MW-9

From : Project # 94-546-01 (Former Beacon 546)
Sampled : 06/15/94
Dilution : 1:3 QC Batch : 4091E
Matrix : Water

Parameter	(MRL) ug/L	Measured Value ug/L
Benzene	(1.3)	17
Toluene	(1.3)	<1.3
Ethylbenzene	(1.3)	18
Total Xylenes	(1.3)	8.4
TPH as Gasoline	(130)	4100
Surrogate Recovery		91 %

Ultramar Inc.
CHAIN OF CUSTODY REPORT

BEACON

Beacon Station No.	Sampler (Print Name)	ANALYSES	Date	Form No.
Beacon 546 (former)	Hal Hansen		6/17/94	1 of 2
Project No.	Sampler (Signature)			
94-546-01	Hal Hansen			
Project Location	Affiliation			
29705 Mission Blvd. Hayward CA.	Environ. Eng.			5 day TAT

Sample No./Identification	Date	Time	Lab No.	BTEX	TPH (gasoline)	TPH (diesel)	No. of Containers	REMARKS
MW-1	6-15-94	6:15		XX			2	
MW-2		6:10						
MW-3		4:30						
MW-4		7:05						
MW-5		7:00						
MW-6		4:40						
MW-7		5:05						
MW-8		7:36						

Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
Hal Hansen Env. Eng.	6/17/94	1050		6/17/94	1050
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
	6/17/94	1200			
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
			S. Conteo	6/17/94	1203

Report To: Fax results to Chuck Richgels (916) 782-1277

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. Former Beacon 546	Sampler (Print Name) Hal Hansen			ANALYSES				Date 6/17/94	Form No. 2 of 2
Project No. 94-546-01	Sampler (Signature) Hal Hansen								
Project Location 29705 MISSION BLVD. HAYWARD CA.	Affiliation Ranlo Env.							5 day TAT	
Sample No./Identification	Date	Time	Lab No.	BTEX	TPH (gasoline)	TPH (diesel)	No. of Containers	REMARKS	
MW-9	6/15/94	5:25		XX			4		

Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
Hal Hansen Ranlo Env.	6/17/94	1050		6/17/94	1050
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
	6/17/94	1202			
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
				6/17/94	1203

Report To: Fax results to Sheila Rochgely (916) 782-1277

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

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

RECEIVED JUN 20 1994

Project Address: Former Beacon 546 Date: 6-15-94

29705 Mission Blvd, Hayward Ca Project No.: 94-546-01

Recorded by: Neal 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	~~534~~		22.17	37.99		NA		no odor no sheen
MW-2	536		20.91	39.16				no odor no sheen
MW-3	358		24.64	38.00				no odor no sheen
MW-4	635		20.10	39.12				slight odor no sheen
MW-5	633		21.28	34.71				slight odor no sheen
MW-6	411		21.80	39.24				no odor no sheen
MW-7	442		16.12	33.96				no odor no sheen
MW-8	713		14.48	39.27				slight odor no sheen
MW-9	516		9.60	23.23				no odor no sheen

Notes:

DOULOS ENVIRONMENTAL COMPANY SAMPLING INFORMATION SHEET

Client: Ultramar Sampling Date: 6-15-94

Site: Former Beacon 346 Project No.: 94-546-01

27705 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): 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
_____2" PVC bailer
_____4" PVC bailer
_____Submersible pump
_____Dedicated bailer
X Centrifugal pump

Sampled with: Disposal bailer: _____ 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: 534
Depth of well: 37.99
Depth to water: 22.17

Recharge Measurement
Time: 610
Depth to water: 22.91

Calculated purge: 41.1 gal
Actual purge: 41.1 gal

Start purge: 542 Sampling time: 6:15

Time	Temp.	E.C.	pH	Turbidity	Volume
548	66.9	951	6.91	—	1
552	66.9	943	6.98	—	2
556	67.6	961	7.16	—	3
606	67.7	979	7.28	—	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 Hanson

DOULOS ENVIRONMENTAL COMPANY — **SAMPLING INFORMATION SHEET**

Client: Ultramar — Sampling Date: 6/15/94

Site: Former Beacon 546 — Project No.: 94-546-01

29765 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): 12
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
_____2" PVC bailer
_____4" PVC bailer
_____Submersible pump
_____Dedicated bailer
X Centrifugal pump

Sampled with: Disposal bailer: _____ 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: 536
Depth of well: 39.16
Depth to water: 20.91

Recharge Measurement
Time: 608
Depth to water: 21.27

Calculated purge: 47.5 gal
Actual purge: 47.5 gal

Start purge: 543 — Sampling time: 610

Time	Temp.	E.C.	pH	Turbidity	Volume
548	74.3	941	7.81	—	1
552	70.1	897	7.47	—	2
559	72.3	882	7.72	—	3
605	71.0	876	7.78	—	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

DOULOS ENVIRONMENTAL COMPANY — **SAMPLING INFORMATION SHEET**

Client: Ultramar — Sampling Date: 6-15-94

Site: Fornabeam 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 X 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: Disposal 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: 356
Depth of well: 38.00
Depth to water: 24.64

Recharge Measurement
Time: 426
Depth to water: 24.71

Calculated purge: 34.7 gal
Actual purge: 36.7 gal

Start purge: 402 Sampling time: 430

Time	Temp.	E.C.	pH	Turbidity	Volume
405	73.2	1242	7.40	—	1
410	74.0	1153	7.35	—	2
415	74.2	1150	7.30	—	3
420	74.2	1140	7.27	—	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

DOULOS ENVIRONMENTAL COMPANY SAMPLING INFORMATION SHEET

Client: Ultramar Sampling Date: 6-15-94

Site: Former Beacon 546 Project No.: 94-546-01

2970 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): 3
Well cover type: 8" UV_____ 12" UV_____ 12" EMCO_____ 8" BK_____
12" BK_____ 12" DWP X 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: Disposal 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: 635 Depth of well: 34.12 Depth to water: 20.10

Recharge Measurement: Time: 703 Depth to water: 20.74

Calculated purge: 49.5 gal Actual purge: 49.5 gal

Start purge: 644 Sampling time: 705

Time	Temp.	E.C.	pH	Turbidity	Volume
647	70.4	1051	7.92	—	1
650	69.3	962	7.64	—	2
554	68.7	643	7.53	—	3
658	68.2	944	7.49	—	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: Paul Kumar

DOULOS ENVIRONMENTAL COMPANY SAMPLING INFORMATION SHEET

Client: Ultramar Sampling Date: 6-15-94

Site: Former Arco 548 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): _____
Well cover type: 8" UV_____ 12" UV_____ 12" EMCO_____ 8" BK_____
12" BK_____ 12" DWP X 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: Disposal 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: 6.33
Depth of well: 34.71
Depth to water: 21.26

Recharge Measurement
Time: 658
Depth to water: 22.53

Calculated purge: 8.6 gal
Actual purge: 8.6 gal

Start purge: 650 Sampling time: 700

Time	Temp.	E.C.	pH	Turbidity	Volume
651	68.4	1241	7.62	—	1
652	67.7	1102	7.89	—	2
654	67.5	1053	7.97	—	3
656	67.1	1031	8.04	—	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: Walter Larson

DOULOS ENVIRONMENTAL COMPANY — **SAMPLING INFORMATION SHEET**

Client: Ultramar — Sampling Date: 6-15-94

Site: Former Beacon 546 — Project No.: 94-548-01

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): 3
Well cover type: 8" UV_____ 12" UV_____ 12" EMCO_____ 8" BK_____
12" BK_____ 12" DWP X 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: Disposal 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: 411
Depth of well: 29.24
Depth to water: 21.80

Recharge Measurement
Time: 438
Depth to water: 21.97

Calculated purge: 11.2 gal
Actual purge: 11.2 gal

Start purge: 416 Sampling time: 440

Time	Temp.	E.C.	pH	Turbidity	Volume
418	71.4	1243	7.62	—	1
420	73.0	1201	7.54	—	2
422	73.2	1153	7.44	—	3
425	73.4	1141	7.43	—	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: Karl Kleven

DOULOS ENVIRONMENTAL COMPANY — **SAMPLING INFORMATION SHEET**

Client: Ultramar — Sampling Date: 6-15-94

Site: Fona 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 X 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: Disposal 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: 442 Depth of well: 33.96 Depth to water: 16.12

Recharge Measurement: Time: 503 Depth to water: 16.47

Calculated purge: 46.4 gal Actual purge: 46.4 gal

Start purge: 447 Sampling time: 505

Time	Temp.	E.C.	pH	Turbidity	Volume
450	73.1	1249	7.92	—	1
454	72.3	1103	7.84	—	2
457	71.8	1081	7.70	—	3
501	71.4	1070	7.65	—	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: Karl Hansen

DOULOS ENVIRONMENTAL COMPANY SAMPLING INFORMATION SHEET

Client: Ultramar Sampling Date: 6-15-94

Site: Former Beach 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): 6
Well cover type: 8" UV_____ 12" UV_____ 12" EMCO_____ 8" BK_____
12" BK_____ 12" DWP X 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: Disposal bailer: X Teflon bailer:_____

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

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

Initial Measurement
Time: 713
Depth of well: 29.27
Depth to water: 16.44

Recharge Measurement
Time: 744
Depth to water: 15.20

Calculated purge: 54.5 gal
Actual purge: 54.5 gal

Start purge: 715 Sampling time: 736

Time	Temp.	E.C.	pH	Turbidity	Volume
720	68.2	692	7.52	—	1
224	67.4	784	7.41	—	2
729	66.8	762	7.30	—	3
732	66.4	757	7.23	—	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

DOULOS ENVIRONMENTAL COMPANY SAMPLING INFORMATION SHEET

Client: Ultramar Sampling Date: 6-15-94

Site: Former 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): 2
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
_____2" PVC bailer
_____4" PVC bailer
_____Submersible pump
_____Dedicated bailer
X Centrifugal pump

Sampled with: Disposal 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: 516
Depth of well: 23.23
Depth to water: 9.60

Recharge Measurement
Time: 523
Depth to water: 10.73

Calculated purge: 8.7 gal
Actual purge: 8.25 gal

Start purge: 518 Sampling time: 525

Time	Temp.	E.C.	pH	Turbidity	Volume
519	72.4	1141	7.41	—	1
520	71.2	1092	7.32	—	2
522	70.5	1057	7.26	—	3
524	70.2	1048	7.22	—	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: Walt Hanson