

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

February 6, 1995

Mr. Scott O. Seery, CHMM
Senior Hazardous Materials Specialist
Alameda County Health Care Services
80 Swan Way, Room 200
Oakland, CA 94621

**SUBJECT: FORMER BEACON STATION NO. 574, 22315 REDWOOD ROAD, CASTRO VALLEY,
CALIFORNIA**

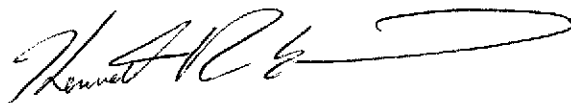
Dear Mr. Seery:

Enclosed is a copy of the Fourth Quarter 1994 Groundwater Monitoring Report for the above-referenced Ultramar facility prepared by Fugro West, Inc. Also included with the report is a copy of the Quarterly Status report describing the work performed this quarter and the work anticipated to be conducted in the next quarter.

Please do not hesitate to call if you have any questions about this project at (209) 583-5571.

Sincerely,

ULTRAMAR INC.



Kenneth R. Earnest
Environmental Specialist II
Marketing Environmental Department

Enclosure: Fourth Quarter 1994 Groundwater Monitoring Report
Quarterly Status Report

cc w/encl: Mr. Rich Hiett, San Francisco Bay Region, RWQCB
Mr. Peter J. Pugnale, Shell Oil Company



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: February 6, 1995
QUARTER ENDING: December 31, 1994

FORMER SERVICE STATION NO.: 574
ADDRESS: 22315 Redwood Road, Castro Valley, CA
COUNTY: Alameda
ULTRAMAR CONTACT: Kenneth R. Earnest

TEL. NO: 209-583-5571

BACKGROUND:

On May 5, 1987, five underground storage tanks (two gasoline, two diesel and one waste oil) were excavated and removed from the site. Soil samples were collected from beneath the tanks and analyzed for hydrocarbon constituents. Based on preliminary analytical data related to the collected soil samples, it was determined that elevated levels of gasoline and diesel were present in the soil beneath the former fuel tanks. Soil was overexcavated from beneath the former fuel tanks. Soil samples were collected after the over-excavation and confirmed that the addition excavation was successful.

During March 1991, three ground-water monitoring wells were installed on-site. Laboratory analysis of soil samples obtained from the borings for the installation of the monitoring wells indicated that the soil near the soil/water interface exhibited gasoline range hydrocarbons.

Quarterly monitoring was initiated during the fourth quarter 1991.

Installed five new groundwater monitoring wells in May of 1993. With the installation of these new wells the site is fully defined.

Conducted a soil gas survey/performance test, aquifer pump test and air sparging test during first quarter 1994.

SUMMARY OF THIS QUARTER'S ACTIVITIES:

Performed fourth quarter monitoring on December 20, 1994.

Submitted PAR/RAP during the fourth quarter 1994.



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BEACON
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Page 2
Former Station #574
Castro Valley, CA

RESULT OF QUARTERLY MONITORING:

Results indicate that since the previous sampling event benzene concentrations in MW-1 have decreased and increased in MW-2 and MW-3. BTEX and TPH-gasoline concentrations in MW-4, MW-5, MW-6, MW-7 and MW-8 have remained not detected since installation, except TPH-gasoline concentrations in MW-6.

PROPOSED ACTIVITY OR WORK FOR NEXT QUARTER:

<u>ACTIVITY</u>	<u>ESTIMATED COMPLETION DATE</u>
First quarter monitoring	February 1995

FUGRO WEST, INC.



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

RECEIVED

FEB 14 1995

ENVIRONMENTAL HEALTH SERVICES
NORTH COUNTY

February 1, 1995

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

Subject: **Fourth Quarter 1994 Groundwater Monitoring Report**
Beacon Station #574
22315 Redwood Road, Castro Valley, California

Dear Mr. Earnest:

This report documents the results of quarterly groundwater monitoring conducted on December 20, 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 March 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 southwest (Figure 2) at a gradient of <0.01 ft/ft. Groundwater levels have increased an average of 0.90 feet compared to the last monitoring event.



GROUNDWATER SAMPLING AND ANALYSES

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

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

Analytical results from March 1992 to date are summarized in Table 2. Historic analytical data are 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-4, MW-5, MW-6, MW-7, and MW-8. Concentrations decreased in well MW-1 and increased in wells MW-2 and MW-3 compared to prior sampling.

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

Mr. Scott Seery
Senior Hazardous Materials Specialist
Alameda County Health Agency
Division of Hazardous Materials
Department of Environmental Health
80 Swan Way, Room 350
Oakland, California 94621

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



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,

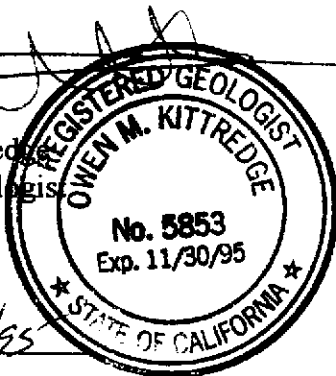
FUGRO WEST, INC.

A handwritten signature in cursive script that reads "Sheila R. Richgels".

Sheila R. Richgels
Report Coordinator

A handwritten signature in cursive script that reads "Owen M. Kittredge".

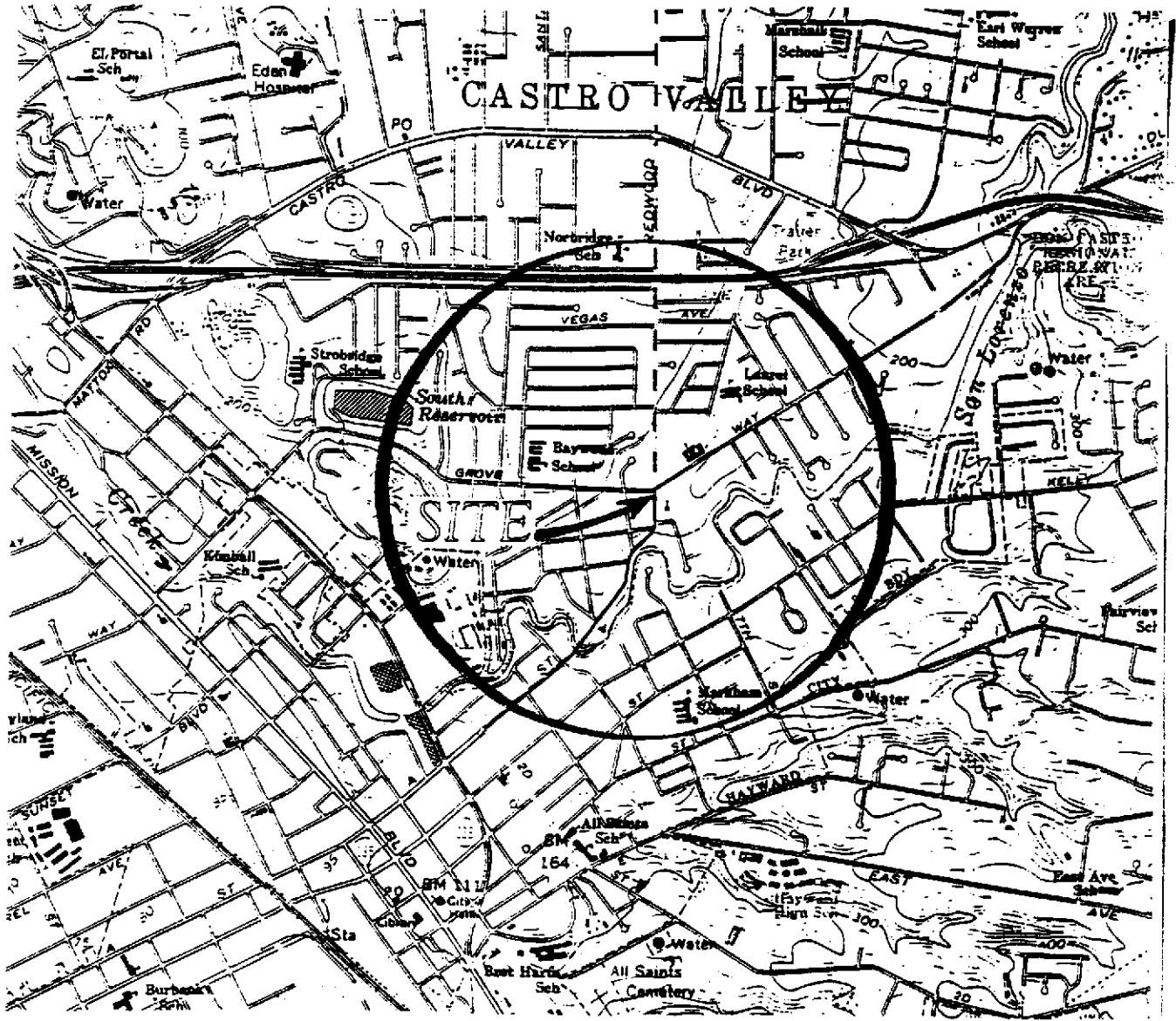
Owen M. Kittredge
Registered Geologist
CRG No. 5853



2/1/95
Date

SRR/OMK/srr

Attachments



GENERAL NOTES:

BASE MAP FROM USGS
7.5 MINUTE TOPOGRAPHIC
HAYWARD, CA



DRAWN BY:	J. Paradis
DATE:	May 23, 1994
REVISED BY:	
DATE:	

SITE LOCATION MAP

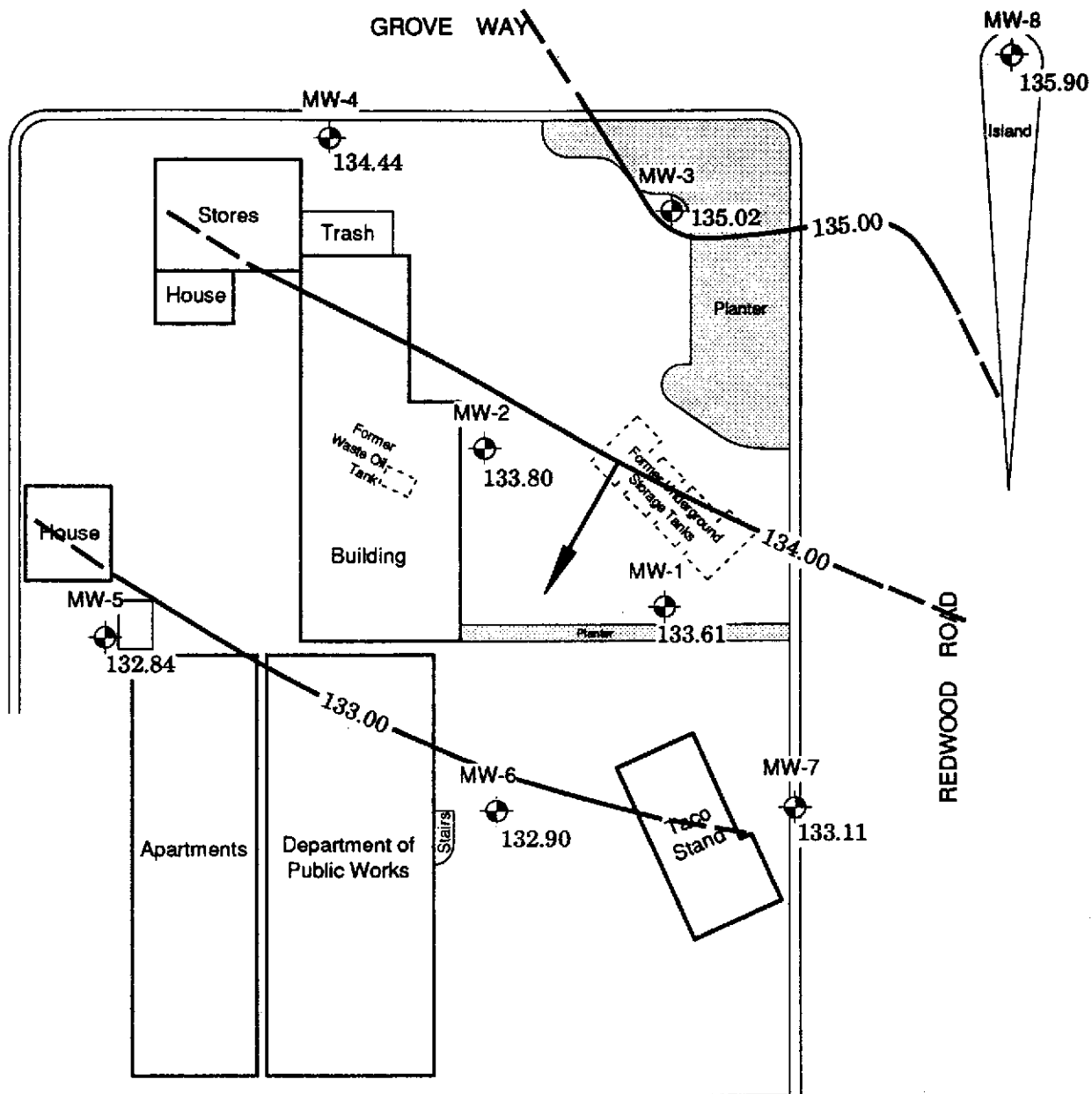
Beacon Station #574
22315 Redwood Road
Castro Valley, CA

FIGURE





1

PROJECT NUMBER:

91-212



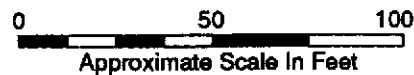
LEGEND


-  Monitoring Well
-  133.61 Groundwater Elevation in Feet
-  Potentiometric Surface Contour Line (Dashed Where Inferred)
-  Estimated Direction of Groundwater Flow

NOTES

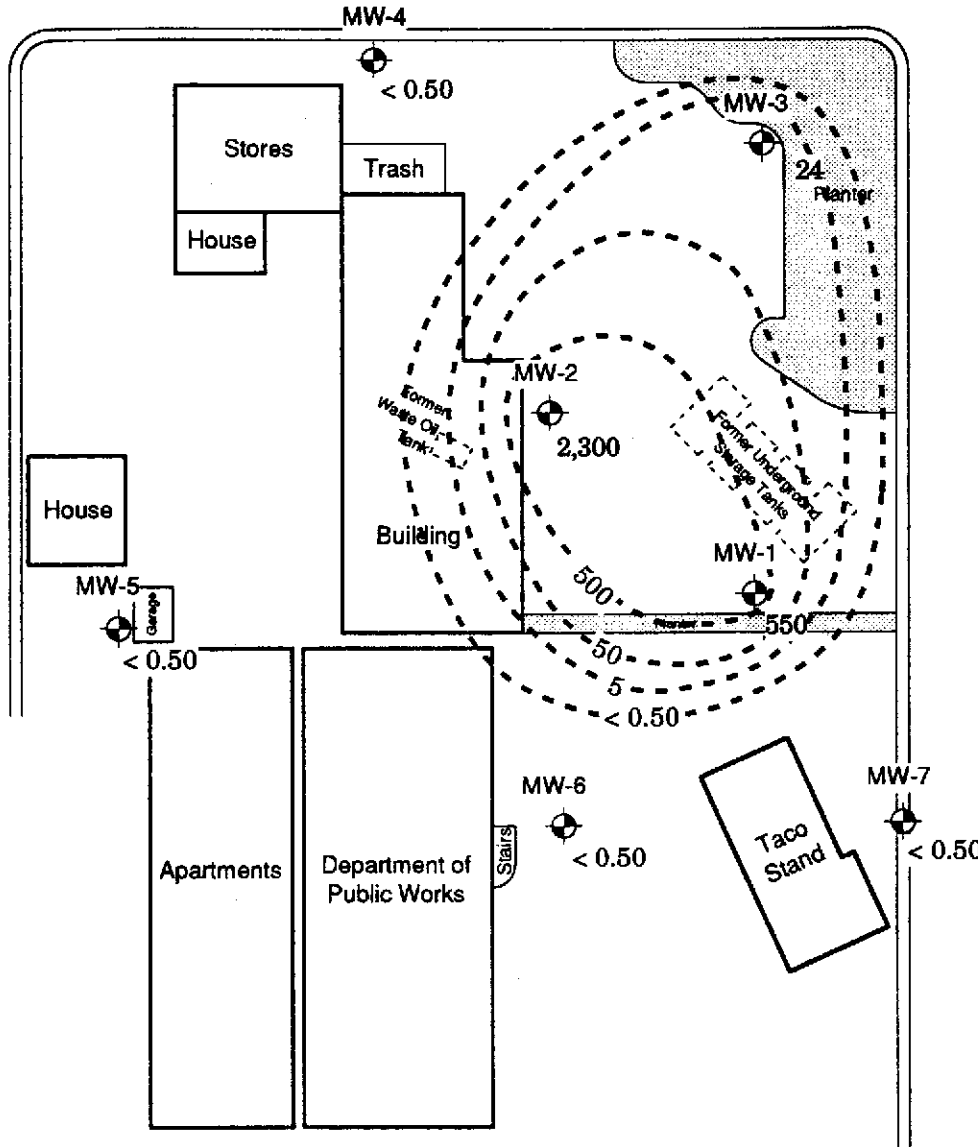
- Site Sketch After Site Map
- By Acton • Mickelson • van Dam, Inc.
- All locations Are Approximate

Hydraulic Gradient = < 0.01 ft/ft
Contour Interval = 1.0 ft





	DRAWN BY: D. Hada	POTENTIOMETRIC SURFACE MAP December 20, 1994	FIGURE 2
	DATE: January 18, 1995		
	REVISED BY:	Former Beacon Station # 574 22315 Redwood Road Castro Valley, CA	PROJECT NUMBER: 9447-4001
	DATE:		

GROVE WAY



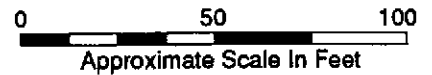
LEGEND

-  Monitoring Well
- 24 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 Acton • Mickelson • van Dam, Inc.
- All locations Are Approximate



DRAWN BY:	D. Hada
DATE:	January 18, 1995
REVISED BY:	
DATE:	

DISTRIBUTION MAP OF BENZENE
IN GROUNDWATER December 20, 1994

Former Beacon Station # 574
22315 Redwood Road
Castro Valley, CA

FIGURE
3

PROJECT NUMBER:
9447-4001

TABLE 1
WATER LEVEL DATA
BEACON STATION #574
22315 REDWOOD ROAD, CASTRO VALLEY, 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	03/27/92	156.55	22.43	134.12	---	
	06/04/92		23.40	133.15	---	
	09/23/92		24.07	132.48	---	
	11/12/92		24.16	132.39	29.33	
	02/02/93		21.87	134.68	29.80	
	05/07/93		22.58	133.97	29.84	
	05/18/93		22.66	133.89	---	
	08/11/93		23.41	133.14	29.81	
	11/05/93		24.09	132.46	29.81	
	03/01/94		22.76	133.79	29.85	
	06/02/94		23.24	133.31	29.85	
	09/09/94		23.93	132.62	29.86	
	12/20/94		22.94	133.61	29.85	
MW-2	03/27/92	155.17	20.82	134.35	---	
	06/04/92		21.81	133.36	---	
	09/23/92		22.45	132.72	---	
	11/12/92		22.60	132.57	29.71	
	02/02/93		20.28	134.89	29.73	
	05/07/93		20.97	134.20	29.73	
	05/18/93		21.06	134.11	---	
	08/11/93		21.85	133.32	29.70	
	11/05/93		22.32	132.85	29.70	
	03/01/94		21.19	133.98	29.68	
	06/02/94		21.59	133.58	29.69	
	09/09/94		22.33	132.84	29.66	
	12/20/94		21.37	133.80	29.65	
MW-3	03/27/92	157.13	21.46	135.67	---	
	06/04/92		22.34	134.79	---	
	09/23/92		22.84	134.29	---	
	11/12/92		23.04	134.09	29.55	
	02/02/93		21.03	136.10	29.45	
	05/07/93		21.59	135.54	29.53	
	05/18/93		21.73	135.40	---	
	08/11/93		22.31	134.82	29.41	
	11/05/93		22.85	134.28	29.41	
	03/01/94		21.97	135.16	29.55	
	06/02/94		22.29	134.84	29.56	
	09/09/94		22.91	134.22	29.56	
	12/20/94		22.11	135.02	29.54	
MW-4	05/18/93	151.96	17.55	134.41	---	
	08/11/93		17.50	134.46	28.43	
	11/05/93		15.84	136.12	28.43	
	03/01/94		17.35	134.61	28.11	
	06/02/94		17.68	134.28	28.12	
	09/09/94		18.19	133.77	28.13	
	12/20/94		17.52	134.44	28.10	

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

TABLE 1
WATER LEVEL DATA
BEACON STATION #574
22315 REDWOOD ROAD, CASTRO VALLEY, CALIFORNIA
(Measurements in feet)

Monitoring Well	Date	Reference Elevation (top of casing) ¹	Depth to Groundwater ²	Groundwater Elevation ²	Well Depth	Comments
MW-5	05/18/93	148.68	15.72	132.96	---	
	08/11/93		16.42	132.26	25.43	
	11/05/93		16.92	131.76	25.43	
	03/01/94		15.54	133.14	25.00	
	06/02/94		16.19	132.49	25.00	
	09/09/94		16.87	131.81	25.00	
	12/20/94		15.84	132.84	25.01	
MW-6	05/18/93	153.96	20.80	133.16	---	
	08/11/93		21.64	132.32	31.15	
	11/05/93		22.11	131.85	31.15	
	03/01/94		20.80	133.16	29.96	
	06/02/94		21.37	132.59	29.98	
	09/09/94		22.05	131.91	29.96	
	12/20/94		21.06	132.90	29.89	
MW-7	05/18/93	156.09	22.64	133.45	---	
	08/11/93		23.25	132.84	30.75	
	11/05/93		23.93	132.16	30.75	
	03/01/94		22.72	133.37	30.11	
	06/02/94		23.22	132.87	30.12	
	09/09/94		23.90	132.19	30.12	
	12/20/94		22.98	133.11	30.10	
MW-8	05/18/93	158.04	21.55	136.49	---	
	08/11/93		22.43	135.61	34.82	
	11/05/93		23.00	135.04	34.82	
	03/01/94		22.05	135.99	34.04	
	06/02/94		22.29	135.75	34.04	
	09/09/94		22.99	135.05	34.04	
	12/20/94		22.14	135.90	33.98	

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

TABLE 2
ANALYTICAL RESULTS: GROUNDWATER
BEACON STATION #574
22315 REDWOOD ROAD, CASTRO VALLEY, CALIFORNIA
(All results in parts-per-billion)

Monitoring Well	Date Collected	Total Petroleum Hydrocarbons			Aromatic Volatile Organics			
		Gasoline	Diesel	Motor Oil	Benzene	Toluene	Ethylbenzene	Total Xylenes
MW-1	03/27/92	5,600	<50	<50	760	900	230	1,100
	06/04/92	2,600	<800	NA	270	57	230	440
	09/23/92	3,400	NA	NA	480	430	110	550
	11/12/92	2,700	NA	NA	5.8	<5.0	140	340
	02/02/93	8,500	NA	NA	760	770	250	1,200
	05/07/93	7,700	NA	NA	970	630	280	1,500
	08/11/93	11,000	NA	NA	1,400	1,000	260	1,600
	11/05/93	36,000	NA	NA	6,200	4,700	1,400	7,100
	03/01/94	3,800	NA	NA	580	490	110	620
	06/02/94	8,900	NA	NA	1,900	1,200	420	2,100
	09/09/94	4,300	NA	NA	740	290	200	630
12/20/94	3,900	NA	NA	550	260	150	510	
MW-2	03/27/92	18,000	<50	<50	2,400	2,300	870	3,300
	06/04/92	14,000	<5,000	NA	1,900	1,700	580	2,300
	09/23/92	22,000	NA	NA	2,100	1,500	760	2,900
	11/12/92	29,000	NA	NA	2,400	860	540	3,500
	02/02/93	24,000	NA	NA	2,700	1,900	590	2,600
	05/07/93	19,000	NA	NA	1,800	1,300	460	2,600
	08/11/93	23,000	NA	NA	2,300	1,500	550	2,300
	11/05/93	30,000	NA	NA	3,100	2,900	860	3,700
	03/01/94	13,000	NA	NA	1,500	490	350	1,000
	06/02/94	12,000	NA	NA	2,000	790	460	1,300
	09/09/94	13,000	NA	NA	1,800	660	440	1,000
12/20/94	16,000	NA	NA	2,300	1,000	650	1,900	
MW-3	03/27/92	160	<50	<50	9.2	4.8	10	23
	06/04/92	120	<50	NA	7.5	2.7	0.5	15
	09/23/92	220	NA	NA	8.3	4.3	6.2	19
	11/12/92	230	NA	NA	12	5.5	7.7	19
	02/02/93	86	NA	NA	2.4	0.71	2.7	6.2
	05/07/93	140	NA	NA	2.6	1.2	3.9	8.4
	08/11/93	490	NA	NA	15	8.1	14	37
	11/05/93	820	NA	NA	45	24	34	93
	03/01/94	410	NA	NA	7.4	2.7	5.6	10
	06/02/94	440	NA	NA	13	4.9	14	31
	09/09/94	620	NA	NA	12	4.8	9.7	20
12/20/94	770	NA	NA	24	11	16	36	
MW-4	05/18/93	<50	NA	NA	<0.5	<0.5	<0.5	<0.5
	08/11/93	<50	NA	NA	<0.5	<0.5	<0.5	<0.5
	11/05/93	<50	NA	NA	<0.5	<0.5	<0.5	<0.5
	03/01/94	<50	NA	NA	<0.5	<0.5	<0.5	<0.5
	06/02/94	<50	NA	NA	<0.5	<0.5	<0.5	<0.5
	09/09/94	<50	NA	NA	<0.5	<0.5	<0.5	<0.5
	12/20/94	<50	NA	NA	<0.5	<0.5	<0.5	<0.5

NOTES: < = Below indicated detection limit.
NS = Not sampled.
NA = Not analyzed.

TABLE 2
ANALYTICAL RESULTS: GROUNDWATER
BEACON STATION #574
22315 REDWOOD ROAD, CASTRO VALLEY, CALIFORNIA
(All results in parts-per-billion)

Monitoring Well	Date Collected	Total Petroleum Hydrocarbons			Aromatic Volatile Organics			
		Gasoline	Diesel	Motor Oil	Benzene	Toluene	Ethylbenzene	Total Xylenes
MW-5	05/18/93	<50	NA	NA	<0.5	<0.5	<0.5	<0.5
	08/11/93	<50	NA	NA	<0.5	<0.5	<0.5	<0.5
	11/05/93	<50	NA	NA	<0.5	<0.5	<0.5	<0.5
	03/01/94	<50	NA	NA	<0.5	<0.5	<0.5	<0.5
	06/02/94	<50	NA	NA	<0.5	<0.5	<0.5	<0.5
	09/09/94	<50	NA	NA	<0.5	<0.5	<0.5	<0.5
	12/20/94	<50	NA	NA	<0.5	<0.5	<0.5	<0.5
MW-6	05/18/93	170	NA	NA	<0.5	<0.5	<0.5	<0.5
	08/11/93	78	NA	NA	<0.5	<0.5	<0.5	<0.5
	11/05/93	170	NA	NA	<0.5	<0.5	<0.5	0.65
	03/01/94	210	NA	NA	<0.5	<0.5	<0.5	<0.5
	06/02/94	190	NA	NA	<0.5	<0.5	<0.5	<0.5
	09/09/94	140	NA	NA	<0.5	<0.5	<0.5	<0.5
	12/20/94	210	NA	NA	<0.5	<0.5	<0.5	<0.5
MW-7	05/18/93	<50	NA	NA	<0.5	<0.5	<0.5	<0.5
	08/11/93	<50	NA	NA	<0.5	<0.5	<0.5	<0.5
	11/05/93	<50	NA	NA	<0.5	<0.5	<0.5	<0.5
	03/01/94	60	NA	NA	<0.5	<0.5	<0.5	<0.5
	06/02/94	<50	NA	NA	<0.5	<0.5	<0.5	<0.5
	09/09/94	<50	NA	NA	<0.5	<0.5	<0.5	<0.5
	12/20/94	<50	NA	NA	<0.5	<0.5	<0.5	<0.5
MW-8	05/18/93	<50	NA	NA	<0.5	<0.5	<0.5	<0.5
	08/11/93	<50	NA	NA	<0.5	<0.5	<0.5	<0.5
	11/05/93	<50	NA	NA	<0.5	<0.5	<0.5	<0.5
	03/01/94	<50	NA	NA	<0.5	<0.5	<0.5	<0.5
	06/02/94	<50	NA	NA	<0.5	<0.5	<0.5	<0.5
	09/09/94	<50	NA	NA	<0.5	<0.5	<0.5	<0.5
	12/20/94	<50	NA	NA	<0.5	<0.5	<0.5	<0.5

NOTES: < = Below indicated detection limit.
 NS = Not sampled.
 NA = Not analyzed.

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 2
WATER LEVEL DATA
 (measurements in feet)

Monitoring Well	Date	Reference Elevation (top of casing)	Depth to Ground Water	Ground Water Elevation
MW-1	04-01-91	156.55	22.37	134.18
	03-27-92		22.43	134.12
	06-04-92		23.40	133.15
	09-23-92		24.07	132.48
	11-12-92		24.16	132.39
	02-02-93		21.87	134.68
	05-18-93		22.66	133.89
MW-2	04-01-91	155.17	20.82	134.25
	03-27-92		20.82	134.35
	06-04-92		21.81	133.36
	09-23-92		22.45	132.72
	11-12-92		22.60	132.57
	02-02-93		20.28	134.89
	05-18-93		21.06	134.11
MW-3	04-01-91	157.13	21.55	135.58
	03-27-92		21.46	135.67
	06-04-92		22.34	134.79
	09-23-92		22.84	134.29
	11-12-92		23.03	134.09
	02-02-93		21.03	136.10
	05-18-93		21.73	135.40
MW-4	05-18-93	151.96	17.55	134.41
MW-5	05-18-93	148.68	15.72	132.96
MW-6	05-18-93	153.96	20.80	133.16
MW-7	05-18-93	156.09	22.64	133.45
MW-8	05-18-93	158.04	21.55	136.49

TABLE 3
GROUND WATER ANALYTICAL RESULTS
 (concentrations in parts per billion)

Monitoring Well	Date Collected	Total Petroleum Hydrocarbons			Aromatic Volatile Organics			
		Gasoline	Diesel	Motor Oil	Benzene	Toluene	Ethylbenzene	Total Xylenes
MW-1	04-01-91	4,100	<100	-	140	570	76	460
	03-27-92	5,600	<50	<50	760	900	230	1,100
	06-04-92	2,600	<800	-	270	57	230	440
	09-23-92	3,400	-	-	480	430	110	530
	11-12-92	2,700	-	-	5.8	<5.0	140	340
	02-02-93	5,500	-	-	760	770	250	1,200
	05-07-93	7,700	-	-	970	630	280	1,500
MW-2	04-01-91	10,000	<100	-	650	640	150	960
	03-27-92	18,000	<50	<50	2,400	2,300	870	3,300
	06-04-92	14,000	<5,000	-	1,900	1,700	580	2,300
	09-23-92	22,000	-	-	2,100	1,500	760	2,900
	11-12-92	29,000	-	-	2,400	860	540	3,500
	02-02-93	24,000	-	-	2,700	1,900	590	2,600
	05-07-93	19,000	-	-	1,800	1,300	460	2,600
MW-3	04-01-91	3,100	<100	-	41	91	37	420
	03-27-92	160	<50	<50	9.2	4.8	10	23
	06-04-92	120	<50	-	7.5	2.7	0.5	15
	09-23-92	220	-	-	8.3	4.3	6.2	19
	11-12-92	230	-	-	12	5.5	7.7	19
	02-02-93	86	-	-	2.4	0.71	2.7	6.2
	05-07-93	140	-	-	2.6	1.2	3.9	8.4
MW-4	05-18-93	<50	-	-	<0.50	<0.50	<0.50	<0.50
MW-5	05-18-93	<50	-	-	<0.50	<0.50	<0.50	<0.50
MW-6	05-18-93	170	-	-	<0.50	<0.50	<0.50	<0.50
MW-7	05-18-93	<50	-	-	<0.50	<0.50	<0.50	<0.50
MW-8	05-18-93	<50	-	-	<0.50	<0.50	<0.50	<0.50

Note: Dash (-) indicates that the sample was not analyzed for this constituent.

LABORATORY

December 28, 1994
Sample Log 10826

RECEIVED
DEC 29 1994

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

Subject: Analytical Results for 8 Water Samples
Identified as: Project # 94-574-01 (Beacon 574)
Received: 12/21/94

Dear Ms. Richgels:

Analysis of the sample(s) referenced above has been completed. This report is written to confirm results communicated on December 28, 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(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:



Mitra Sarkhosh
Senior Chemist

Sample: MW-1

From : Project # 94-574-01 (Beacon 574)

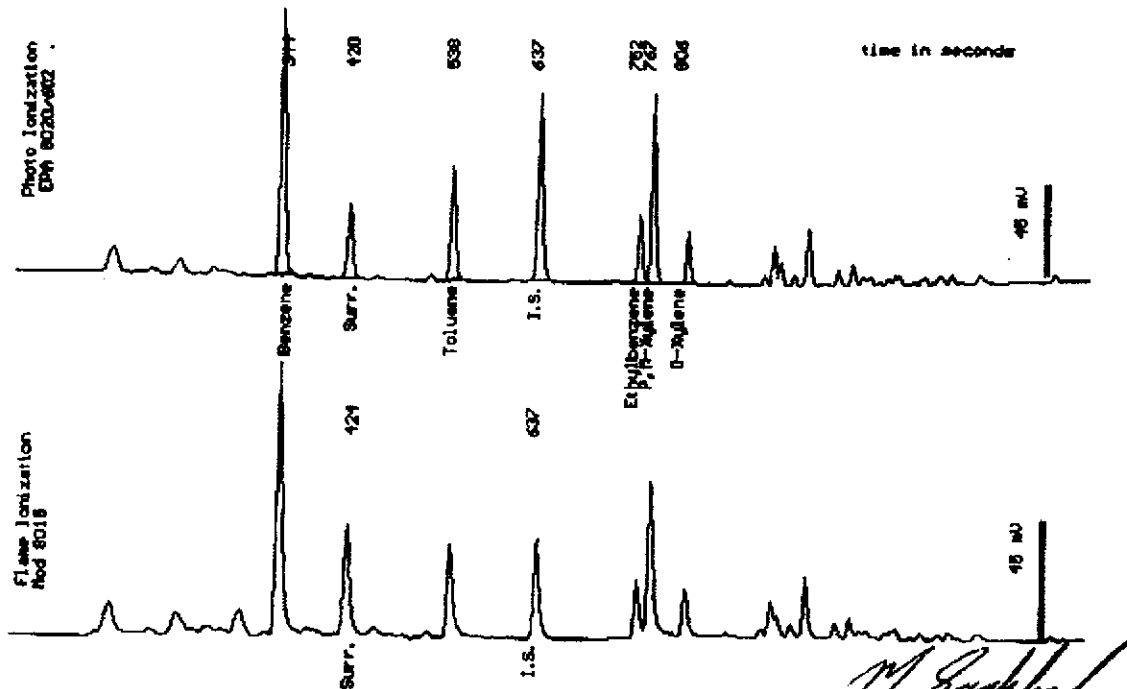
Sampled : 12/20/94

Dilution : 1:10

QC Batch : 6136U

Matrix : Water

Parameter	(MRL) $\mu\text{g/L}$	Measured Value $\mu\text{g/L}$
Benzene	(5.0)	550
Toluene	(5.0)	260
Ethylbenzene	(5.0)	150
Total Xylenes	(5.0)	510
TPH as Gasoline	(500)	3900
Surrogate Recovery		92 %



Date Analyzed: 12-24-94
Column : 0.53mm ID X 30m DB5 (J&W Scientific)

M. Sarkhosh
Mitra Sarkhosh
Senior Chemist

Sample: MW-2

From : Project # 94-574-01 (Beacon 574)

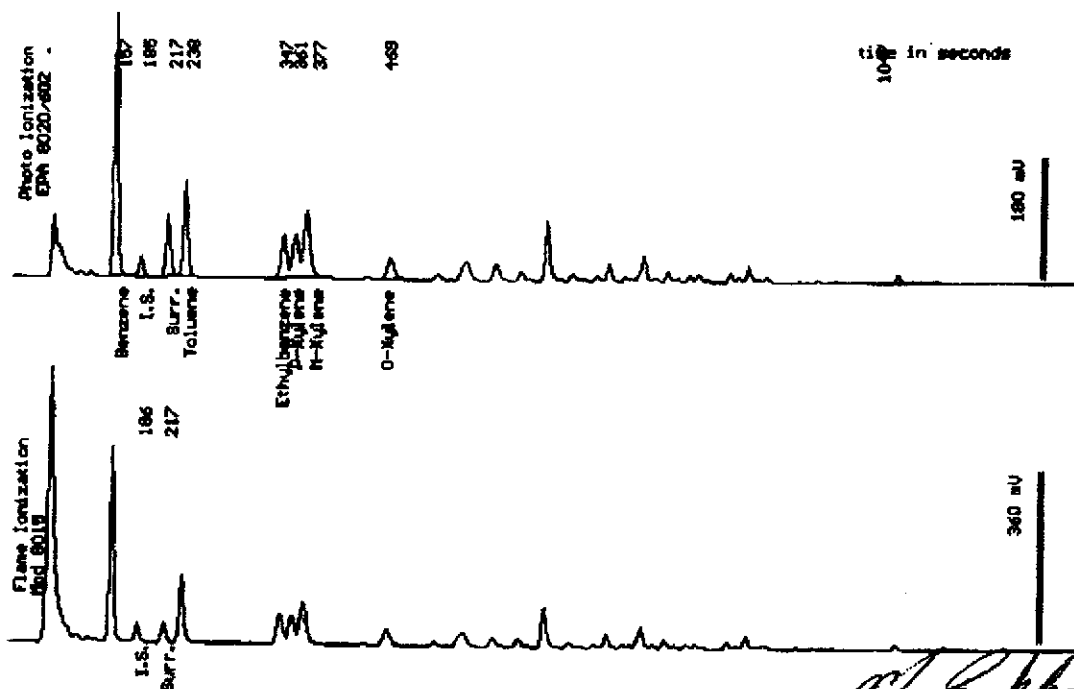
Sampled : 12/20/94

Dilution : 1:10

Matrix : Water

QC Batch : 4109T

Parameter	(MRL) $\mu\text{g/L}$	Measured Value $\mu\text{g/L}$
Benzene	(5.0)	2300
Toluene	(5.0)	1000
Ethylbenzene	(5.0)	650
Total Xylenes	(5.0)	1900
TPH as Gasoline	(500)	16000
Surrogate Recovery		105 %



Date Analyzed: 12-21-94
 Column : 0.53mm ID X 30m DBMIX (J&W Scientific)

Mitra Sarkhosh
 Mitra Sarkhosh
 Senior Chemist

Sample Log 10826

10826-3

Sample: MW-3

From : Project # 94-574-01 (Beacon 574)

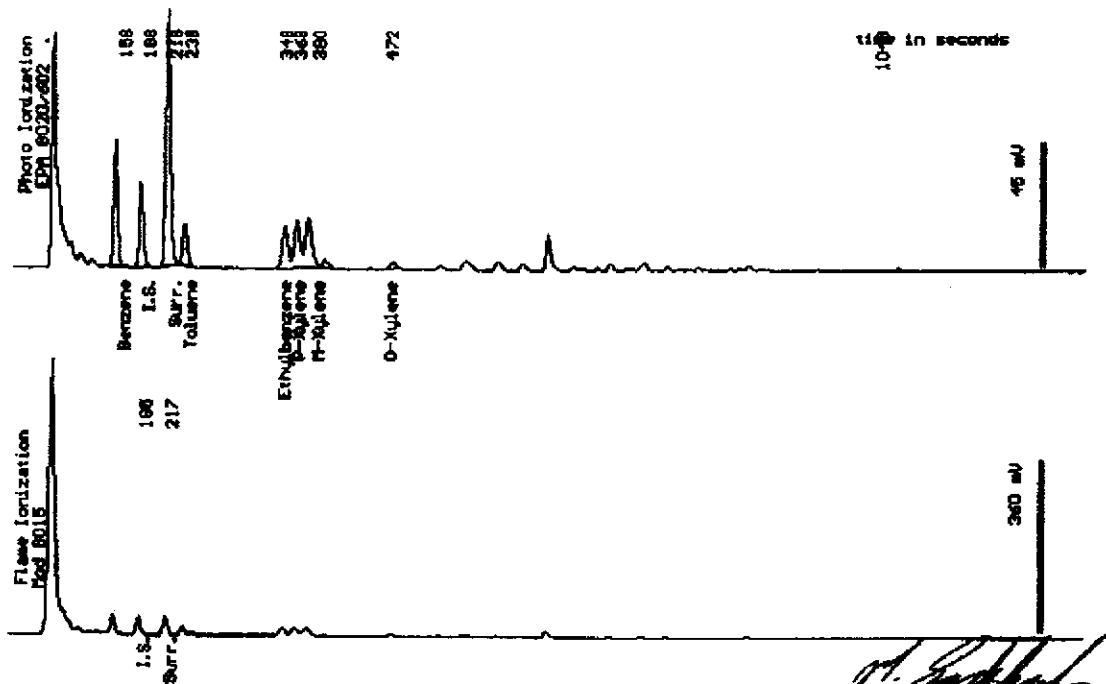
Sampled : 12/20/94

Dilution : 1:1

QC Batch : 4109T

Matrix : Water

Parameter	(MRL) _{ug/L}	Measured Value _{ug/L}
Benzene	(.50)	24
Toluene	(.50)	11
Ethylbenzene	(.50)	16
Total Xylenes	(.50)	36
TPH as Gasoline	(50)	770
Surrogate Recovery		104 %



Date Analyzed: 12-23-94
 Column : 0.83mm ID X 30m DBMXX (J&H Scientific)

Mitra Sarkhosh
 Mitra Sarkhosh
 Senior Chemist

Sample Log 10826
10826-4

Sample: MW-4

From : Project # 94-574-01 (Beacon 574)

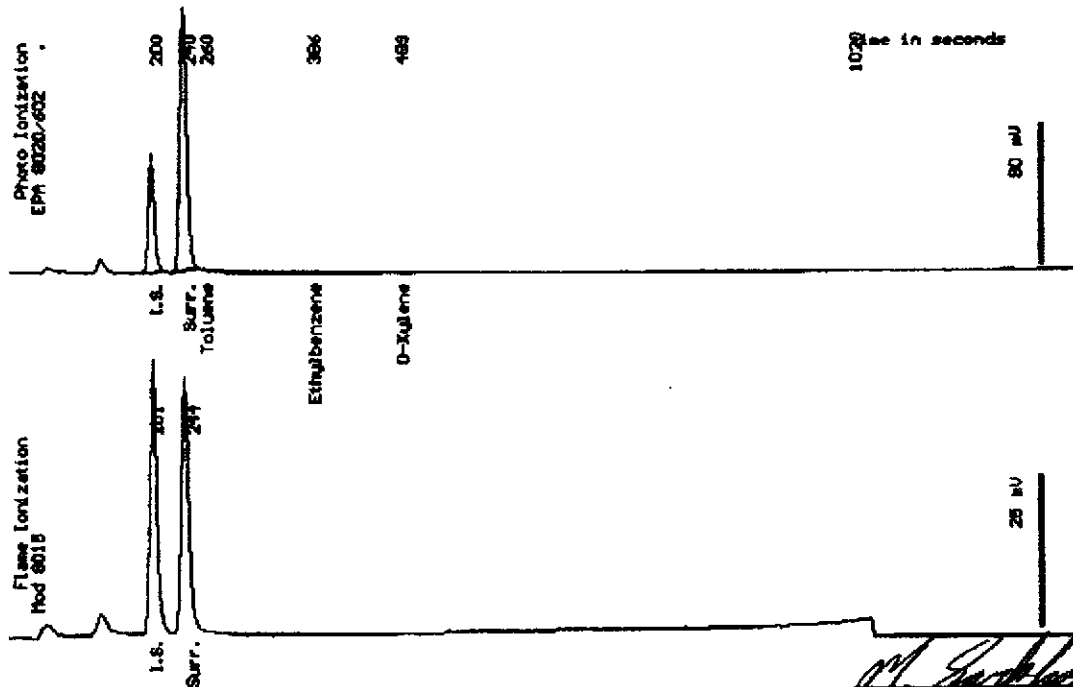
Sampled : 12/20/94

Dilution : 1:1

Matrix : Water

QC Batch : 2110V

Parameter	(MRL) <small>ug/L</small>	Measured Value <small>ug/L</small>
Benzene	(.50)	<.50
Toluene	(.50)	<.50
Ethylbenzene	(.50)	<.50
Total Xylenes	(.50)	<.50
TPH as Gasoline	(50)	<50
Surrogate Recovery		104 %



Date Analyzed: 12-21-94
Column : 0.82mm ID X 30m DBMAX (J&W Scientific)

M. Sarkhosh
Mitra Sarkhosh
Senior Chemist

Sample Log 10826

10826-5

Sample: MW-5

From : Project # 94-574-01 (Beacon 574)

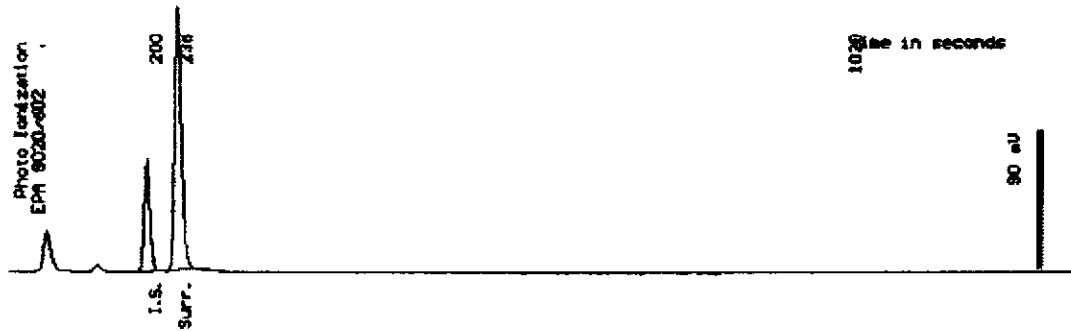
Sampled : 12/20/94

Dilution : 1:1

QC Batch : 2110Z

Matrix : Water

Parameter	(MRL) $\mu\text{g/L}$	Measured Value $\mu\text{g/L}$
Benzene	(.50)	<.50
Toluene	(.50)	<.50
Ethylbenzene	(.50)	<.50
Total Xylenes	(.50)	<.50
TPH as Gasoline	(50)	<50
Surrogate Recovery		103 %



Date Analyzed: 12-27-94
Column : 6.35mm ID X 50m DBMAX (J&W Scientific)

M. Sarkhosh
Mitra Sarkhosh
Senior Chemist

LABORATORY

Sample Log 10826
10826-6

Sample: MW-6

From : Project # 94-574-01 (Beacon 574)

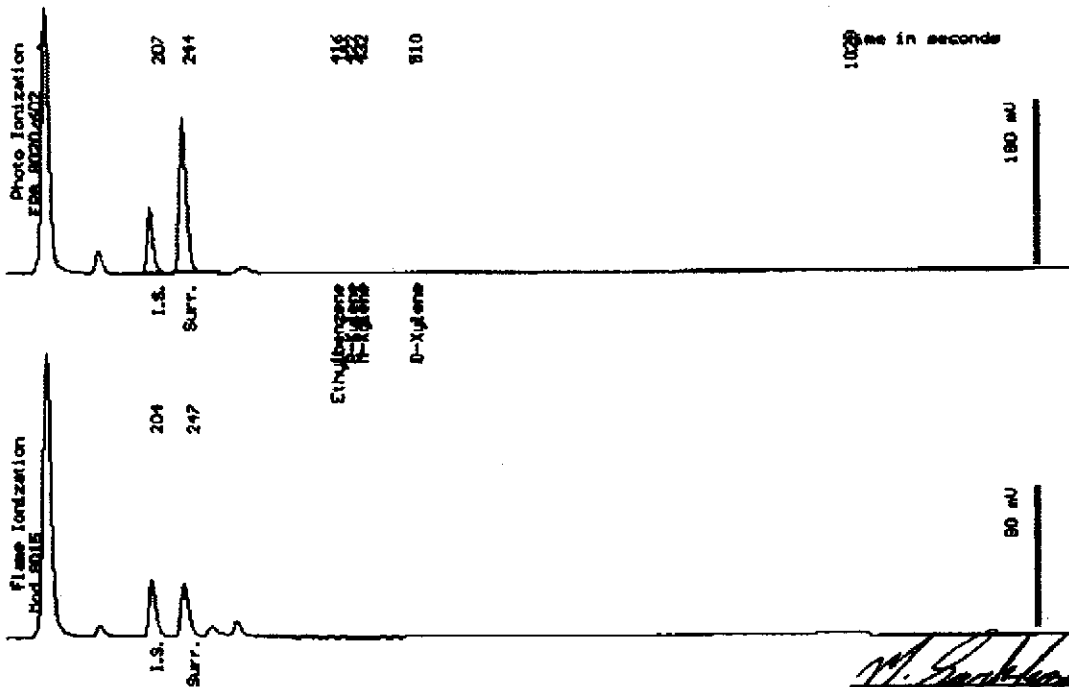
Sampled : 12/20/94

Dilution : 1:1

Matrix : Water

QC Batch : 2111B

Parameter	(MRL) $\mu\text{g/L}$	Measured Value $\mu\text{g/L}$
Benzene	(.50)	<.50
Toluene	(.50)	<.50
Ethylbenzene	(.50)	<.50
Total Xylenes	(.50)	<.50
TPH as Gasoline	(50)	210
Surrogate Recovery		105 %



Date Analyzed: 12-28-94
Column: 0.52mm ID X 20m DBMIX (J&H Scientific)

Mitra Sarkheh
Mitra Sarkheh
Senior Chemist

Sample Log 10826
10826-7

Sample: MW-7

From : Project # 94-574-01 (Beacon 574)

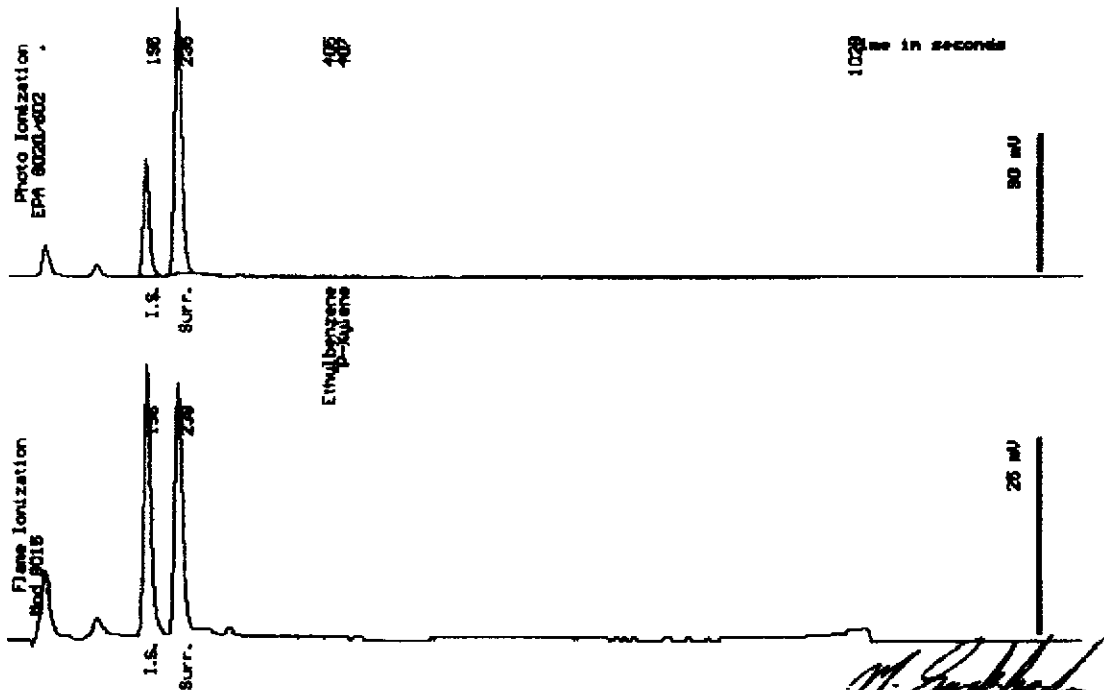
Sampled : 12/20/94

Dilution : 1:1

QC Batch : 2110Z

Matrix : Water

Parameter	(MRL) $\mu\text{g/L}$	Measured Value $\mu\text{g/L}$
Benzene	(.50)	<.50
Toluene	(.50)	<.50
Ethylbenzene	(.50)	<.50
Total Xylenes	(.50)	<.50
TPH as Gasoline	(50)	<50
Surrogate Recovery		103 %



Date Analyzed: 12-27-94
Column : 0.89mm ID X 30m DBMIX (JMI Scientific)

M. Sarkhosh
Mitra Sarkhosh
Senior Chemist

LABORATORY

Sample Log 10826
10826-8

Sample: MW-8

From : Project # 94-574-01 (Beacon 574)

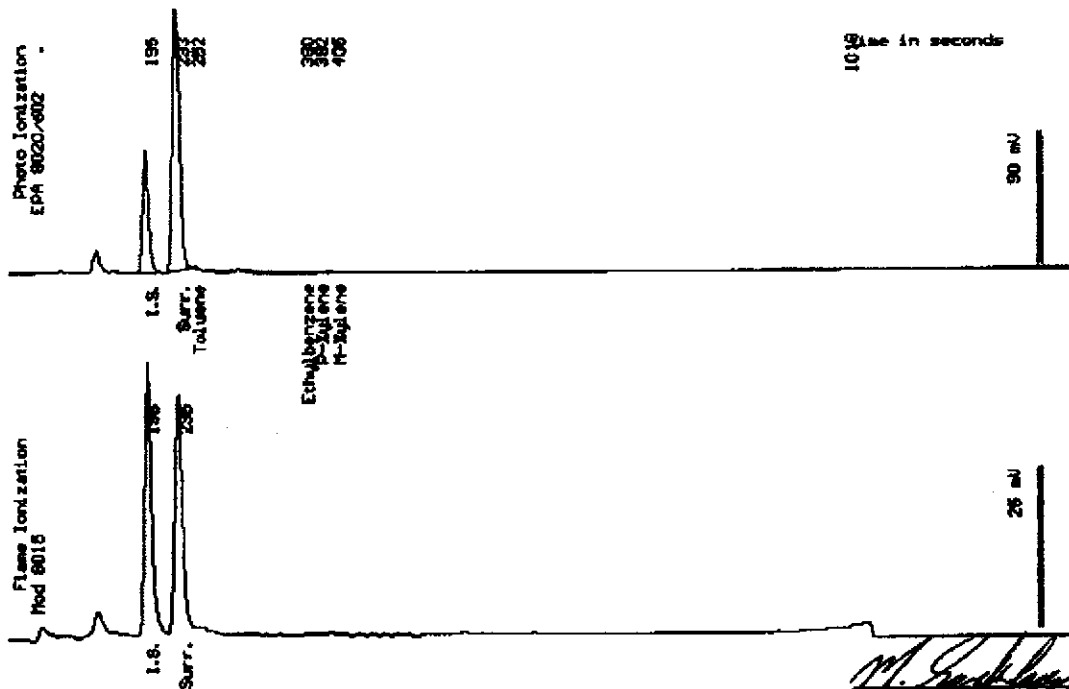
Sampled : 12/20/94

Dilution : 1:1

Matrix : Water

QC Batch : 2110V

Parameter	(MRL) $\mu\text{g/L}$	Measured Value $\mu\text{g/L}$
Benzene	(.50)	<.50
Toluene	(.50)	<.50
Ethylbenzene	(.50)	<.50
Total Xylenes	(.50)	<.50
TPH as Gasoline	(50)	<50
Surrogate Recovery		104 %



Date Analyzed: 12-21-94
Column: 0.63mm ID X 30m DBMIX (J&W Scientific)

M. Garkhoob
Mitra Garkhoob
Senior Chemist



Ultramar Inc.
CHAIN OF CUSTODY REPORT

BEACON

Beacon Station No. 574		Sampler (Print Name) EDGAR OLINEKA		ANALYSES			Date 12-21-94	Form No. 1 of 1										
Project No. 22315 REDWOOD Rd CASTRO VALLEY, CA		Sampler (Signature) <i>[Signature]</i>		<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 94-574-01		Affiliation DOULOS ENV																
Sample No / Identification		Date	Time	Lab No.														
MW-1		12-20-94	2:43		X	X		3										
MW-2			2:00															
MW-3			1:15															
MW-4			12:28															
MW-5			11:15															
MW-6			11:35															
MW-7			11:53															
MW-8			12:14															
Relinquished by: (Signature/Affiliation) <i>[Signature]</i>		Date	Time	Received by: (Signature/Affiliation) <i>[Signature]</i>			Date	Time										
Relinquished by: (Signature/Affiliation) <i>[Signature]</i>		Date	Time	Received by: (Signature/Affiliation) <i>[Signature]</i>			Date	Time										
Relinquished by: (Signature/Affiliation) <i>[Signature]</i>		Date	Time	Received by: (Signature/Affiliation) <i>[Signature]</i> West			Date	Time										
Report To: FAX RESULTS TO SHEILA RICHBELS (916) 782-1277		Bill to: ULTRAMAR INC. 525 West Third Street Hanford, CA 93230 Attention: Kenneth Earnest																

WHITE: Return to Client with Report

YELLOW: Laboratory Copy

PINK: Originator Copy

32-0003 1/00

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

Project Address: Beacon #574, 22315 Redwood Rd

Date: 12-20-94

Castro Valley, CA

Project No.: 94-574-01

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	10:58		22.94	29.85				PETROLEUM ODOR NO SHEEN
MW-2	10:53		21.37	29.65				" " " "
MW-3	10:50		22.11	29.54				" " " "
MW-4	10:44		17.52	28.10				NO ODOR NO SHEEN
MW-5	10:25		15.84	25.01				" " " "
MW-6	10:30		21.06	29.89				" " " "
MW-7	10:34		22.98	30.10				" " " "
MW-8	10:39		22.14	33.98				" " " "

Notes:

Client: Ultramar

Sampling Date: 12-22-94

Site: Beacon #574

Project No.: 94-574-01

22315 Redwood Road

Well Designation: MW- 8

Castro Valley, CA

Is setup of traffic control devices required? YES time: _____ hours
 Is there standing water in well box? 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): 18
 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: Disposal 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: 10:39 Time: 12:10 Calculated purge: 7.6 gal
 Depth of well: 33.98 Depth to water: 23.39 Actual purge: 7.6 gal
 Depth to water: 22.14

Start purge: 12:00 Sampling time: 12:14

Time	Temp.	E.C.	pH	Turbidity	Volume
12:02	65.4	1193	7.57	—	1
12:03	65.6	1181	7.43	—	2
12:05	65.6	1170	7.21	—	3
12:07	65.5	1161	7.10	—	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: [Signature]

Client: Ultramar

Sampling Date: 12-20-94

Site: Beacon #574

Project No.: 94-574-01

22315 Redwood Road

Well Designation: MW-1

Castro Valley, 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: Disposal 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: 10:52 Time: 2:40 Calculated purge: 18.0 gal
 Depth of well: 29.85 Depth to water: 23.81 Actual purge: 18.0 gal
 Depth to water: 22.94

Start purge: 2:06 Sampling time: 2:43

Time	Temp.	E.C.	pH	Turbidity	Volume
2:13	65.2	1157	6.99	—	1
2:17	66.1	1138	6.97	—	2
2:19	65.9	1130	6.85	—	3
2:27	65.7	1121	6.81	—	4

PUMP DRY

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: 12-20-94

Site: Beacon #574

Project No.: 94-574-01

22315 Redwood Road

Well Designation: MW- 2

Castro Valley, 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: Disposal 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: 10:53

Time: 1:45

Calculated purge: 21.5 gal

Depth of well: 99.65

Depth to water: 22.61

Actual purge: 21.5 gal

Depth to water: 21.37

Start purge: 1:20

Sampling time: 2:00

Time	Temp.	E.C.	pH	Turbidity	Volume
1:23	65.8	1267	7.03	—	1
1:27	65.9	1245	6.98	—	2
1:29	65.6	1231	6.85	—	3
1:35	65.7	1224	6.81	—	4

PUMP DRY

" "

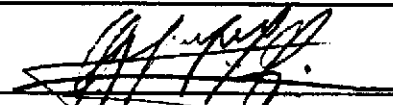
Sample appearance: clear

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: _____



Client: Ultramar

Sampling Date: 12-20-94

Site: Beacon #574

Project No.: 94-574-01

22315 Redwood Road

Well Designation: MW-3

Castro Valley, CA

Is setup of traffic control devices required? NO YES time: _____ hours
 Is there standing water in well box? NO YES Above TOC Below TOC
 Is top of casing cut level? NO YES If no, see remarks
 Is well cap sealed and locked? NO YES If no, see remarks
 Height of well casing riser (in inches): 3
 Well cover type: 8" UV _____ 12" UV 12" EMCO _____ 8" BK _____
 12" BK _____ 12" DWP _____ 12" CNI _____ 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: Disposal 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: 10:50 Recharge Measurement Time: 1:10 Calculated purge: 19.3 gal
 Depth of well: 29.54 Depth to water: 23.31 Actual purge: 19.3 gal
 Depth to water: 22.11

Start purge: 12:34 Sampling time: 1:15

Time	Temp.	E.C.	pH	Turbidity	Volume
12:36	64.6	1157	7.51	—	1
12:38	64.7	1131	7.48	—	2
12:41	64.6	1128	7.21	—	3
12:45	64.5	1121	7.12	—	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: _____

Site: Beacon #574

Project No.: 94-574-01

22315 Redwood Road

Well Designation: MW- 4

Castro Valley, 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: Disposal 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: 10:44 Recharge Measurement Time: 12:25 Calculated purge: 6.8 gal
 Depth of well: 28.10 Depth to water: 19.03 Actual purge: 6.8 ga
 Depth to water: 17.52

Start purge: 12:18 Sampling time: 12:28

Time	Temp.	E.C.	pH	Turbidity	Volume
12:19	64.8	1391	7.43	—	1
12:20	65.1	1373	7.39	—	2
12:21	64.9	1369	7.24	—	3
12:23	64.9	1367	7.10	—	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: [Signature]

Client: Ultramar

Sampling Date: 12-20-94

Site: Beacon #574

Project No.: 94-574-01

22315 Redwood Road

Well Designation: MW- 5

Castro Valley, 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: Disposal 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: 10:25

Time: 11:13

Calculated purge: 5.7 gal
 Actual purge: 5.7 gal

Depth of well: 25.01

Depth to water: 16.12

Depth to water: 15.84

Start purge: 11:05

Sampling time: 11:15

Time	Temp.	E.C.	pH	Turbidity	Volume
11:06	67.2	691	7.61	—	1
11:07	67.4	683	7.54	—	2
11:08	67.3	678	7.48	—	3
11:09	67.1	670	7.40	—	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: [Signature]

Client: Ultramar

Sampling Date: 12-20-94

Site: Beacon #574

Project No.: 94-574-01

22315 Redwood Road

Well Designation: MW- 6

Castro Valley, 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 _____ Submersible pump
 _____ 2" PVC bailer _____ Dedicated bailer
 _____ 4" PVC bailer Centrifugal pump

Sampled with: Disposal 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: 10:30 Time: 11:30 Calculated purge: 5.7 gal
 Depth of well: 29.89 Depth to water: 22.03 Actual purge: 5.7 gal
 Depth to water: 21.06

Start purge: 11:22 Sampling time: 11:35

Time	Temp.	E.C.	pH	Turbidity	Volume
11:23	65.0	1399	7.49	—	1
11:24	64.8	1393	7.39	—	2
11:25	64.4	1387	7.38	—	3
11:26	64.1	1381	7.38	—	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: [Signature]

Client: Ultramar

Sampling Date: 12-20-94

Site: Beacon #574

Project No.: 94-574-01

22315 Redwood Road

Well Designation: MW- 7

Castro Valley, 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 _____ Submersible pump
 _____ 2" PVC bailer _____ Dedicated bailer
 _____ 4" PVC bailer Centrifugal pump

Sampled with: Disposal 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: 10:34 Time: 11:50 Calculated purge: 4.6 gal
 Depth of well: 30.10 Depth to water: 23.14 Actual purge: 4.6 gal
 Depth to water: 22.98

Start purge: 11:41 Sampling time: 11:53

Time	Temp.	E.C.	pH	Turbidity	Volume
11:42	64.9	1180	7.73	—	1
11:43	64.7	1156	7.60	—	2
11:44	64.3	1131	7.54	—	3
11:45	64.2	1126	7.41	—	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: 