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HAZMAT

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# 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

December 20, 1993

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**

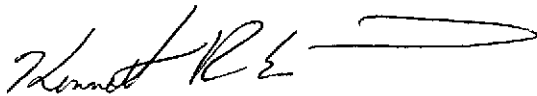
Dear Mr. Seery:

Enclosed is a copy of the Fourth Quarter 1993 Groundwater Monitoring Report for the above-referenced Ultramar facility prepared by Aegis Environmental, 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 I  
Marketing Environmental Department

Enclosure: Fourth Quarter 1993 Groundwater Monitoring Report  
Quarterly Status Report

cc w/encl: Mr. Rich Hiett, San Francisco Bay Region, RWQCB



A Member of the Ultramar Group of Companies

**BEACON**  
#1 Quality and Service

# Ultramar

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## ENVIRONMENTAL PROJECT QUARTERLY STATUS REPORT

**DATE REPORT SUBMITTED:** December 20, 1993  
**QUARTER ENDING:** December 31, 1993

**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.

### SUMMARY OF THIS QUARTER'S ACTIVITIES:

Performed fourth quarter monitoring on November 5, 1993.



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**BEACON**  
#1 Quality and Service

**RESULT OF QUARTERLY MONITORING:**

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

**PROPOSED ACTIVITY OR WORK FOR NEXT QUARTER:**

<u>ACTIVITY</u>	<u>ESTIMATED COMPLETION DATE</u>
First quarter monitoring	February 1994
Conduct soil gas survey and performance test, aquifer pump test and air sparging test.	February 1994



1050 Melody Lane, Suite 160, Roseville, California 95678

(916) 782 2110 Fax (916) 786 7830

December 15, 1993

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

Subject: **Fourth Quarter 1993 Groundwater Monitoring Report**  
Beacon Station #574  
22315 Redwood Road, Castro Valley, California

Dear Mr. Earnest:

Aegis Environmental, Inc. (Aegis), is pleased to provide Ultramar Inc. this report documenting the results of quarterly groundwater monitoring conducted on November 5, 1993, at the subject site (Figure 1). The monitoring included measurements of depth to groundwater, subjective analysis of free product, and collection of groundwater samples. All field activities pertaining to events in this report were conducted according to Aegis' Standard Operating Procedures included in the Attachments.

### **GROUNDWATER ELEVATIONS**

Prior to purging, Aegis personnel collected depth-to-water measurements. Groundwater level data from March 1992 to date, are summarized in Table 1. Previous groundwater level data are attached. On the basis of the current measurements, groundwater flows to the south (Figure 2) at a gradient of 0.03 ft/ft. Groundwater levels have decreased an average of 0.28 feet compared to the last monitoring event.

## **GROUNDWATER SAMPLING AND ANALYSES**

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

- Total petroleum hydrocarbons, as gasoline, by modified EPA Method 8015;
- Benzene, toluene, ethylbenzene, and total xylenes by EPA Method 602.

Analytical results from March 1992 to date are summarized in Table 2. Previous analytical results are attached. Figure 3 is a distribution map of benzene in groundwater based on the current data. The laboratory report and chain-of-custody form are included in the Attachments. Benzene concentrations remain nondetectable in wells MW-4 through MW-8. Wells MW-1 through MW-3 had an increase in benzene concentrations compared to the last sampling event.

Aegis recommends a copy of this quarterly monitoring report 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

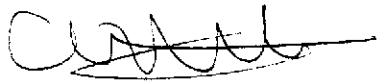
Mr. Rich Hiett  
San Francisco Bay Regional Water Quality Control Board  
2101 Webster Street, Suite 500  
Oakland, California 94612

This report has been prepared for the sole use of Ultramar Inc. Any reliance on this report by third parties shall be at such parties' own risk. The work described herein was performed under the review and supervision of the professional geologist/engineer, registered with the State of California, whose signature appears below.


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

Sincerely,

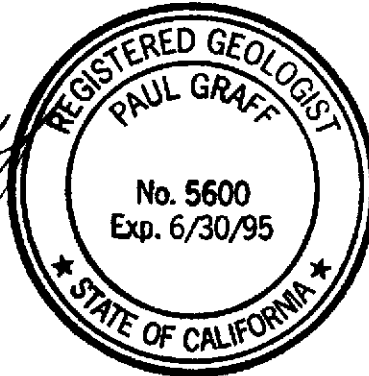
**AEGIS ENVIRONMENTAL, INC.**



Owen W. Kittredge  
Project Geologist



Paul Graff  
Senior Geologist  
RG No. 5600

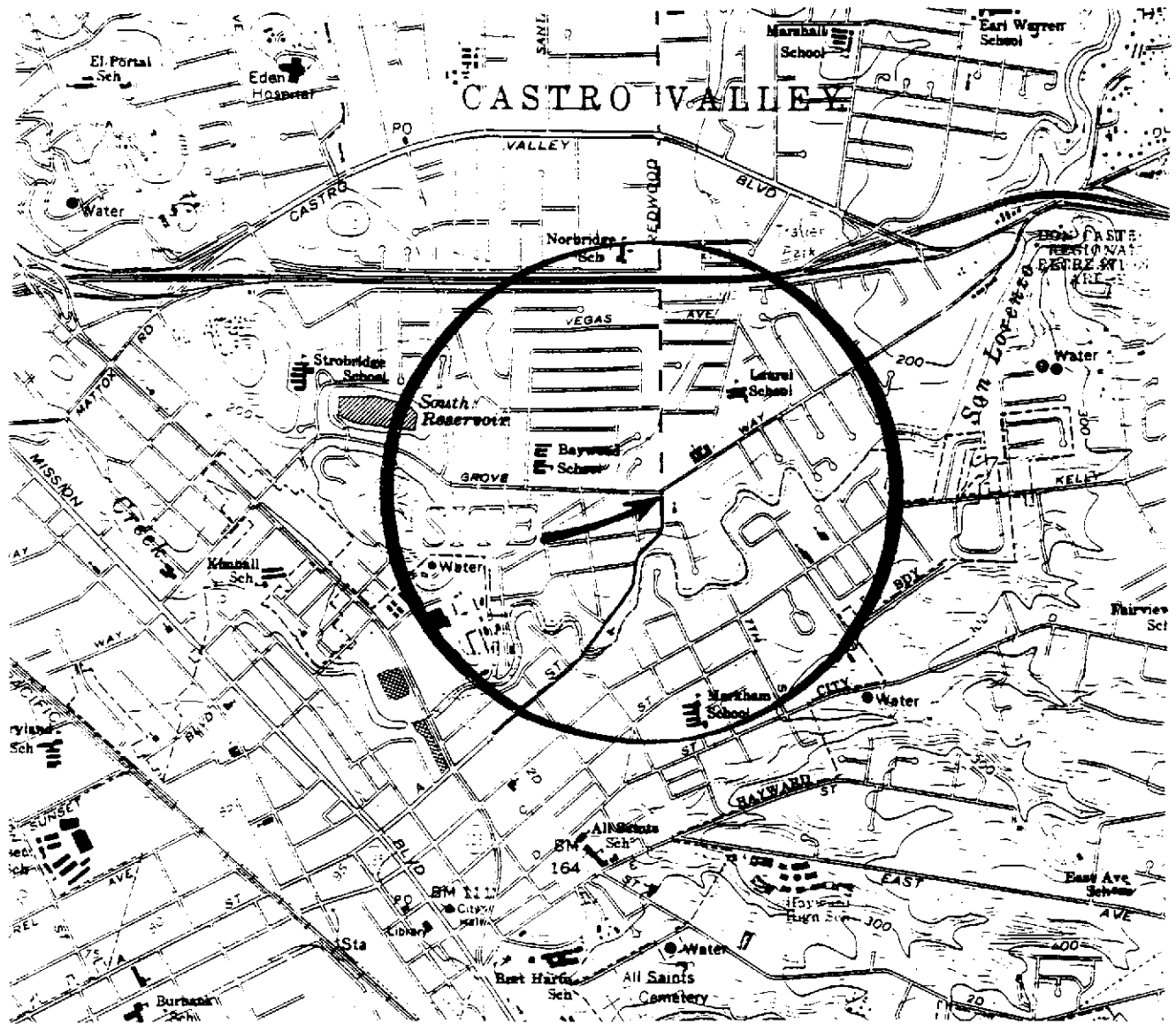


12/15/93  
Date

OMK/PKG/srr

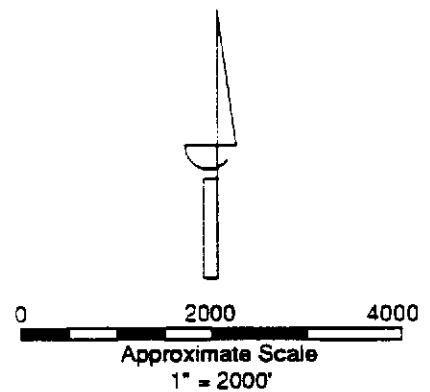
Attachments






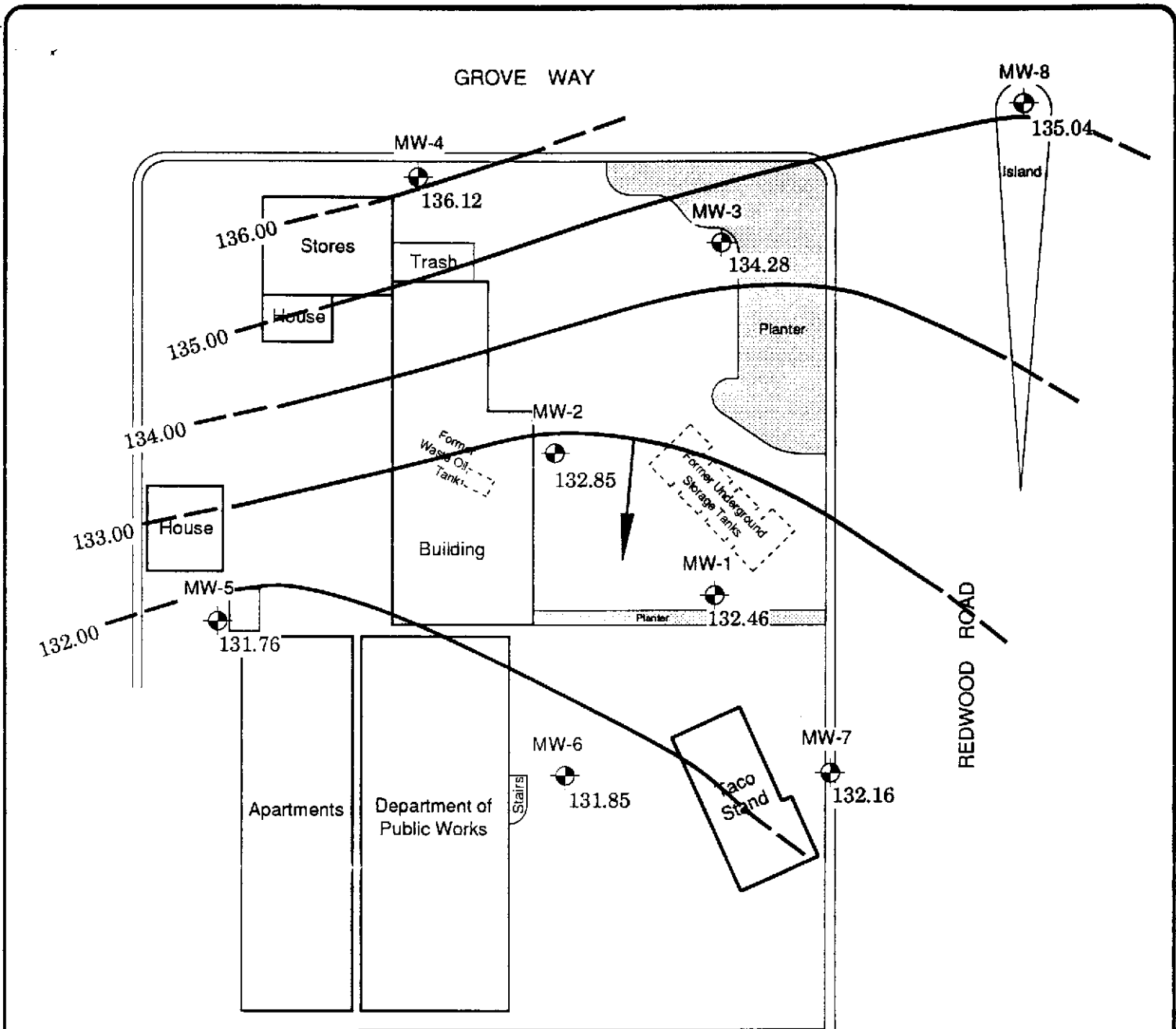
**GENERAL NOTES:**

BASE MAP FROM USGS  
7.5 MINUTE TOPOGRAPHIC  
HAYWARD, CALIF.



 <b>AEGIS ENVIRONMENTAL, INC.</b>		<b>SITE LOCATION MAP</b>		<b>FIGURE</b> <b>1</b>	
DRAWN BY: <b>Ed Berand</b>		DATE: <b>April 13, 1992</b>		<b>Former Beacon Station # 574</b> <b>22315 Redwood Road</b> <b>Castro Valley, CA</b>	
REVISED BY:		DATE:			
REVIEWED BY: <i>John Giorgi</i>		DATE: <b>April 15, 1992</b>			
				PROJECT NUMBER: <b>10-91212</b>	





**LEGEND**



132.46

Monitoring Well  
Groundwater Elevation in Feet



Potentiometric Surface Contour Line  
(Dashed Where Inferred)



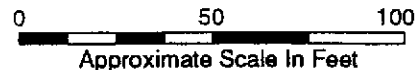
Estimated Direction of Groundwater Flow

**NOTES**

Site Sketch After Site Map

By Acton • Mickelson • van Dam, Inc.

All locations Are Approximate



Hydraulic Gradient = 0.03 ft/ft  
Contour interval = 1.0 ft



**POTENTIOMETRIC SURFACE MAP**  
November 5, 1993

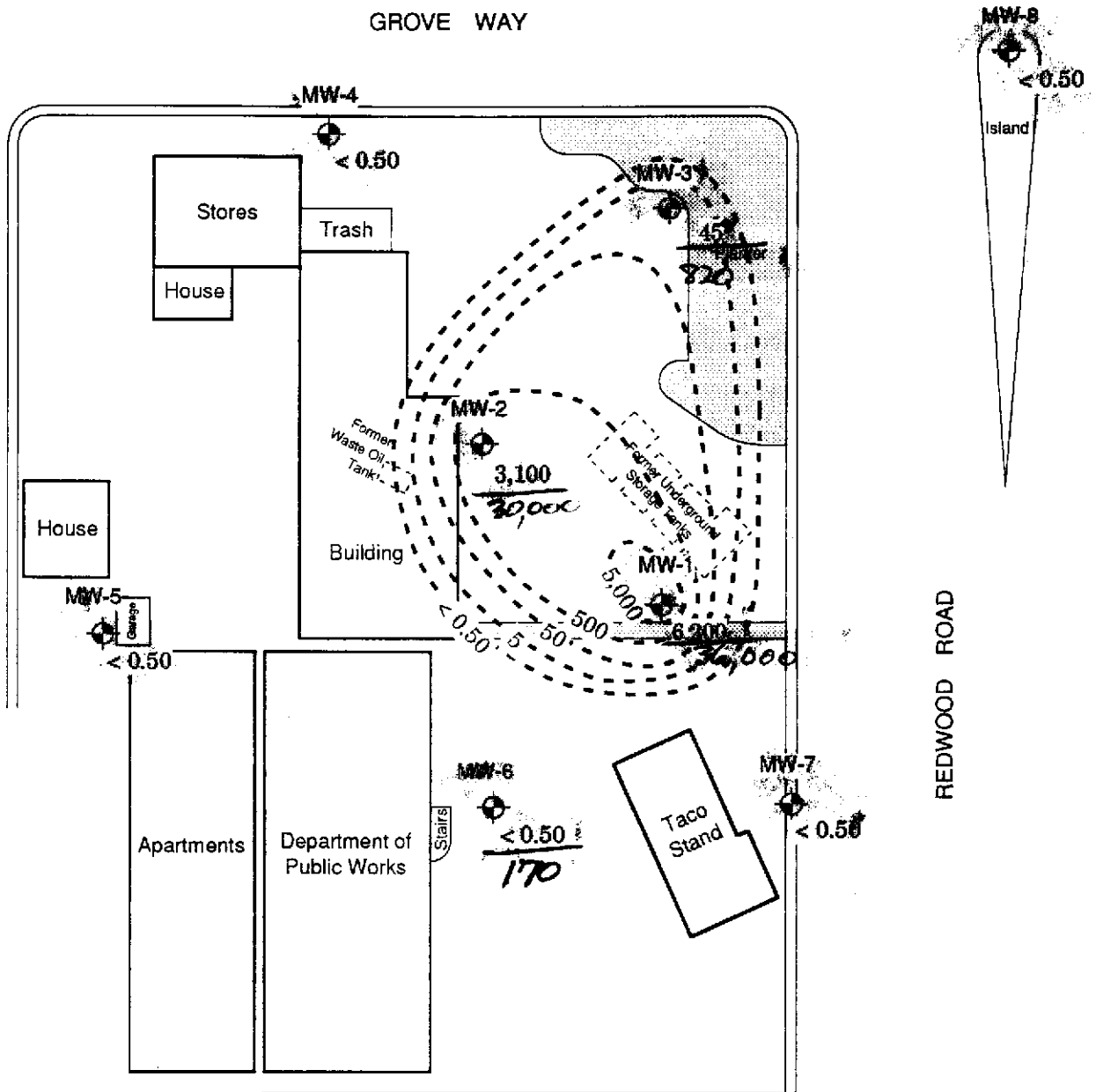
**FIGURE**  
**2**

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

PROJECT NUMBER:  
92-779

DRAWN BY: D. Hada	DATE: November 15, 1993
REVISED BY:	DATE:
REVIEWED BY:	DATE:

GROVE WAY



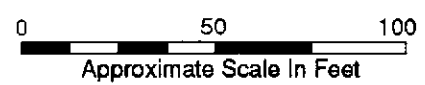
LEGEND

- Monitoring Well
- $\frac{45}{170}$  Benzene Concentration (parts-per-billion)  
TPH-G
- Inferred Iso-Concentration Limits
- < 0.50 Below Indicated Detection Limit

NOTES

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

Contour Interval = Exponential



DISTRIBUTION MAP OF BENZENE  
IN GROUNDWATER November 5, 1993

FIGURE  
3

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

PROJECT NUMBER:  
92-779

DRAWN BY: D. Hada	DATE: November 15, 1993
REVISED BY:	DATE:
REVIEWED BY:	DATE:

**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) <sup>1</sup>	Depth to Groundwater <sup>1</sup>	Groundwater Elevation <sup>2</sup>	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	
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	
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	
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	
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	
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	
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	
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	

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
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
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
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

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
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
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
MW-8	05/18/93	<50	NA	NS	<0.5	<0.5	<0.5	<0.5
	08/11/93	<50	NA	NS	<0.5	<0.5	<0.5	<0.5
	11/05/93	<50	NA	NS	<0.5	<0.5	<0.5	<0.5

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

## SAMPLE IDENTIFICATION AND CHAIN-OF-CUSTODY PROCEDURES

### SOP-4

Sample identification and chain-of-custody procedures ensure sample integrity, and document sample possession from the time of collection to its ultimate disposal. Each sample container submitted for analysis is labeled to identify the job number, date, time of sample collection, a sample number unique to the sample, any in-field measurements made, sampling methodology, name(s) of on-site personnel and any other pertinent field observations also recorded on the field excavation or boring log.

Chain-of-custody forms are used to record possession of the sample from time of collection to its arrival at the laboratory. During shipment, the person with custody of the samples will relinquish them to the next person by signing the chain-of-custody form(s) and noting the date and time. The sample-control officer at the laboratory will verify sample integrity, correct preservation, confirm collection in the proper container(s), and ensure adequate volume for analysis.

If these conditions are met, the samples will be assigned unique laboratory log numbers for identification throughout analysis and reporting. The log numbers will be recorded on the chain-of-custody forms and in the legally-required log book maintained in the laboratory. The sample description, date received, client's name, and any other relevant information will also be recorded.

## LABORATORY ANALYTICAL QUALITY ASSURANCE AND CONTROL

### SOP-5

In addition to routine instrument calibration, replicates, spikes, blanks, spiked blanks, and certified reference materials are routinely analyzed at method-specific frequencies to monitor precision and bias. Additional components of the laboratory Quality Assurance/Quality Control program include:

1. Participation in state and federal laboratory accreditation/certification programs;
2. Participation in both U.S. EPA Performance Evaluation studies (WS and WP studies) and inter-laboratory performance evaluation programs;
3. Standard operating procedures describing routine and periodic instrument maintenance;
4. "Out-of-Control"/Corrective Action documentation procedures; and,
5. Multi-level review of raw data and client reports.

## GROUNDWATER PURGING AND SAMPLING

### SOP-7

Prior to water sampling, each well is purged by evacuating a minimum of three wetted well-casing volumes of groundwater. When required, purging will continue until either the discharge water temperature, conductivity, or pH stabilize, a maximum of ten well-bore volumes of groundwater have been recovered, or the well is bailed dry. When practical, the groundwater sample should be collected when the water level in the well recovers to at least 80 percent of its static level.

The sampling equipment consists of either a "Teflon" bailer, PVC bailer, or stainless steel bladder pump with a "Teflon" bladder. If the sampling system is dedicated to the well, then the bailer is usually "Teflon," but the bladder pump is PVC with a polypropylene bladder. In general and depending on the intended laboratory analysis, 40-milliliter glass, volatile organic analysis (VOA) vials, with "Teflon" septa, are used as sample containers.

The groundwater sample is decanted into each VOA vial in such a manner that there is no meniscus at the top of the vial. A cap is quickly secured to the top of the vial. The vial is then inverted and gently tapped to see if air bubbles are present. If none are present, the vial is labeled and refrigerated for delivery, under strict chain-of-custody, to the analytical laboratory. Label information should include a unique sample identification number, job identification number, date, time, type of analysis requested, and the sampler's name.

For quality control purposes, a duplicate water sample is collected from each well. This sample is put on hold at the laboratory. When required, a trip blank is prepared at the laboratory and placed in the transport cooler. It is labeled

similar to the well samples, remains in the cooler during transport, and is analyzed by the laboratory along with the groundwater samples. In addition, a field blank may be prepared in the field when sampling equipment is not dedicated. The field blank is prepared after a pump or bailer has been either steam cleaned or properly washed, prior to use in the next well, and is analyzed along with the other samples. The field blank analysis demonstrates the effectiveness of the in-field cleaning procedures to prevent cross-contamination.

To minimize the potential for cross-contamination between wells, all well development and water sampling equipment not dedicated to a well is either steam cleaned or properly washed between use. As a second precautionary measure, wells are sampled in order of least to highest concentrations as established by available previous analytical data.

In the event the water samples cannot be submitted to the analytical laboratory on the same day they are collected (e.g., due to weekends or holidays), the samples are temporarily stored until the first opportunity for submittal either on ice in a cooler, such as when in the field, or in a refrigerator at Aegis' office.

## MEASURING LIQUID LEVELS USING WATER LEVEL OR INTERFACE PROBE

### SOP-12

Field equipment used for liquid-level gauging typically includes the measuring probe (water-level or interface) and product bailer(s). The field kit also includes cleaning supplies (buckets, TSP, spray bottles, and deionized water) to be used in cleaning the equipment between wells.

Prior to measurement, the probe tip is lowered into the well until it touches bottom. Using the previously established top-of-casing or top-of-box (i.e., wellhead vault) point, the probe cord (or halyard) is marked and a measuring tape (graduated in hundredths of a foot) is used to determine the distance between the probe end and the marking on the cord. This measurement is then recorded on the liquid-level data sheet as the "Measured Total Depth" of the well.

When necessary in using the interface probe to measure liquid levels, the probe is first electrically grounded to either the metal stove pipe or another metal object nearby. When no ground is available, reproducible measurements can be obtained by clipping the ground lead to the handle of the interface probe case.

The probe tip is then lowered into the well and submerged in the groundwater. An oscillating (beeping) tone indicates the probe is in water. The probe is slowly raised until either the oscillating tone ceases or becomes a steady tone. In either case, this is the depth-to-water (DTW) indicator and the DTW measurement is made accordingly. The steady tone indicates floating hydrocarbons. In this case, the probe is slowly raised until the steady tone ceases. This is the depth-to-product (DTP) indicator and the measurement of DTP is recorded. A corrected groundwater elevation for floating hydrocarbons can be calculated by using the following formula:

Corrected groundwater elevation - CDTW = DTW - (SP.G x LHT).

CDTW = Corrected depth to water.


DTW = Measured depth to water.

SP.G = Specific gravity: unweathered gasoline = 0.75; diesel = 0.80

LHT = Measured liquid hydrocarbon thickness.

The process of lowering and raising the probe must be repeated several times to ensure accurate measurements. The DTW and DTP measurements are recorded on the liquid-level data sheet. When floating product is indicated by the probe's response, a product bailer is lowered partially through the product-water interface to confirm the product on the water surface, and as further indication of product thickness, particularly in cases where the product layer is quite thin. This measurement is recorded on the data sheet as "product thickness."

In order to avoid cross-contamination of wells during the liquid-level measurement process, wells are measured in the order of "clean" to "dirty" (where such information is available). In addition, all measurement equipment is cleaned with TSP or similar solution and thoroughly rinsed with deionized water before use, between measurements in respective wells, and at the completion of the day's use.



November 12, 1993  
Sample Log 7837

Sheila Richgels  
Aegis Environmental Consultants, Inc.  
1050 Melody Lane, Suite 160  
Roseville, CA 95678

Subject: Analytical Results for 8 Water Samples  
Identified as: Project # 92-779 (Beacon 574)  
Received: 11/05/93

Dear Ms. Richgels:

Analysis of the sample(s) referenced above has been completed. This report is written to confirm results communicated on November 12, 1993 and describes procedures used to analyze the samples.

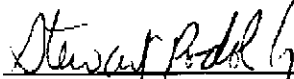
Sample(s) were received in 40-milliliter glass vials sealed with TFE lined septae and plastic screw-caps. Each sample was transported and received under documented chain of custody and stored at 4 degrees C until analysis was performed.

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 916-757-4650 if you have questions regarding procedures or results. The chain-of-custody document is enclosed.

Approved by:

  
\_\_\_\_\_  
Stewart Podolsky  
Senior Chemist

Sample Log 7837  
7837-1

Sample: MW-1

From : Project # 92-779 (Beacon 574)

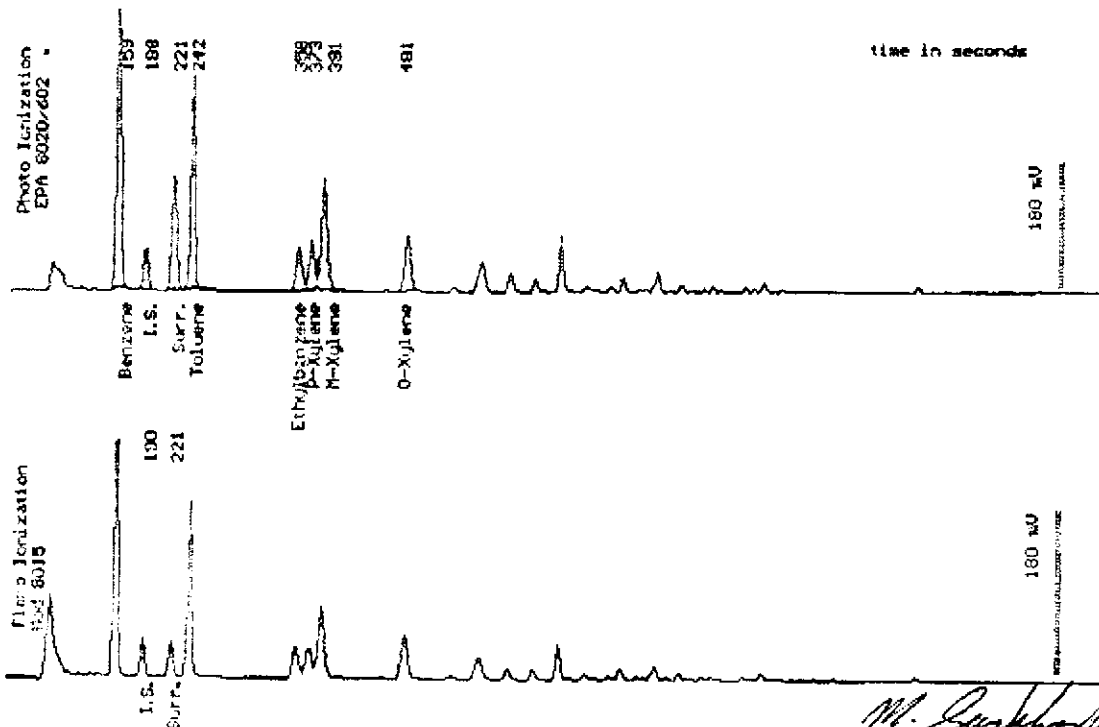
Sampled : 11/05/93

Dilution : 1:50

QC Batch : 4048B

Matrix : Water

Parameter	(MRL) $\mu\text{g/L}$	Measured Value $\mu\text{g/L}$
Benzene	(25)	6200
Toluene	(25)	4700
Ethylbenzene	(25)	1400
Total Xylenes	(25)	7100
TPH as Gasoline	(2500)	36000
Surrogate Recovery		101 %



*M. Sarkhosh*

Mitra Sarkhosh  
Senior Chemist



Sample Log 7837

7837-2

Sample: MW-2

From : Project # 92-779 (Beacon 574)

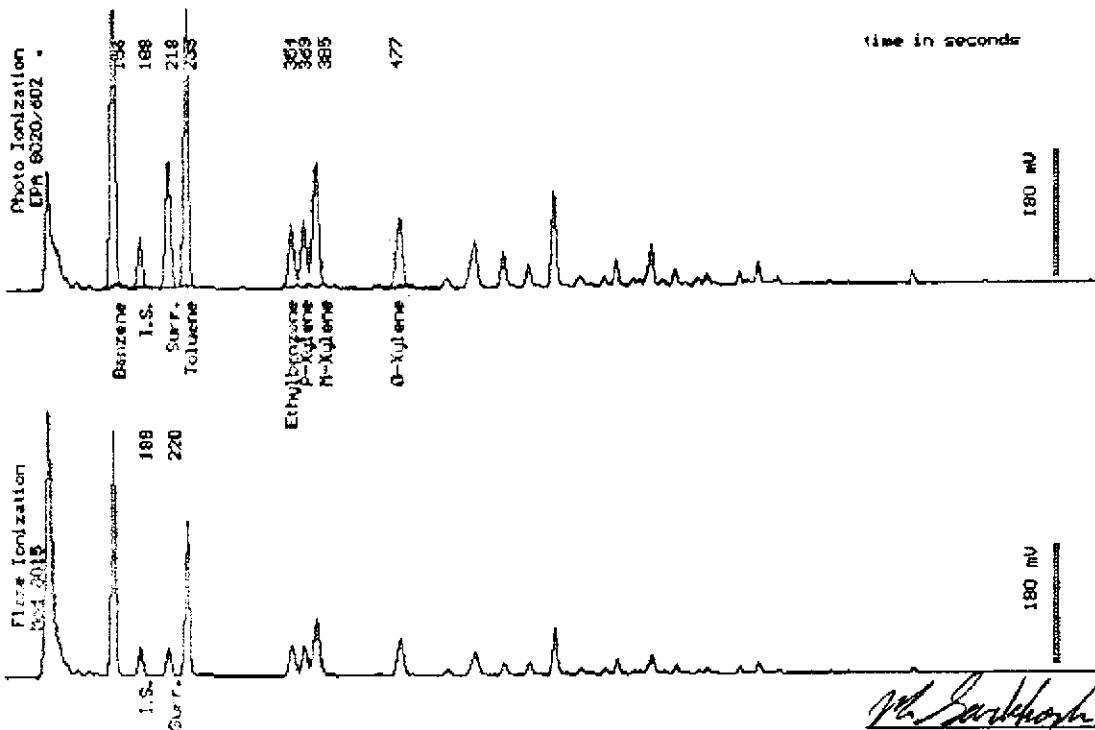
Sampled : 11/05/93

Dilution : 1:25

QC Batch : 4048B

Matrix : Water

Parameter	(MRL) $\mu\text{g/L}$	Measured Value $\mu\text{g/L}$
Benzene	(13)	3100
Toluene	(13)	2900
Ethylbenzene	(13)	860
Total Xylenes	(13)	3700
TPH as Gasoline	(1300)	30000
Surrogate Recovery		101 %



Sample Log 7837

7837-3

Sample: MW-3

From : Project # 92-779 (Beacon 574)

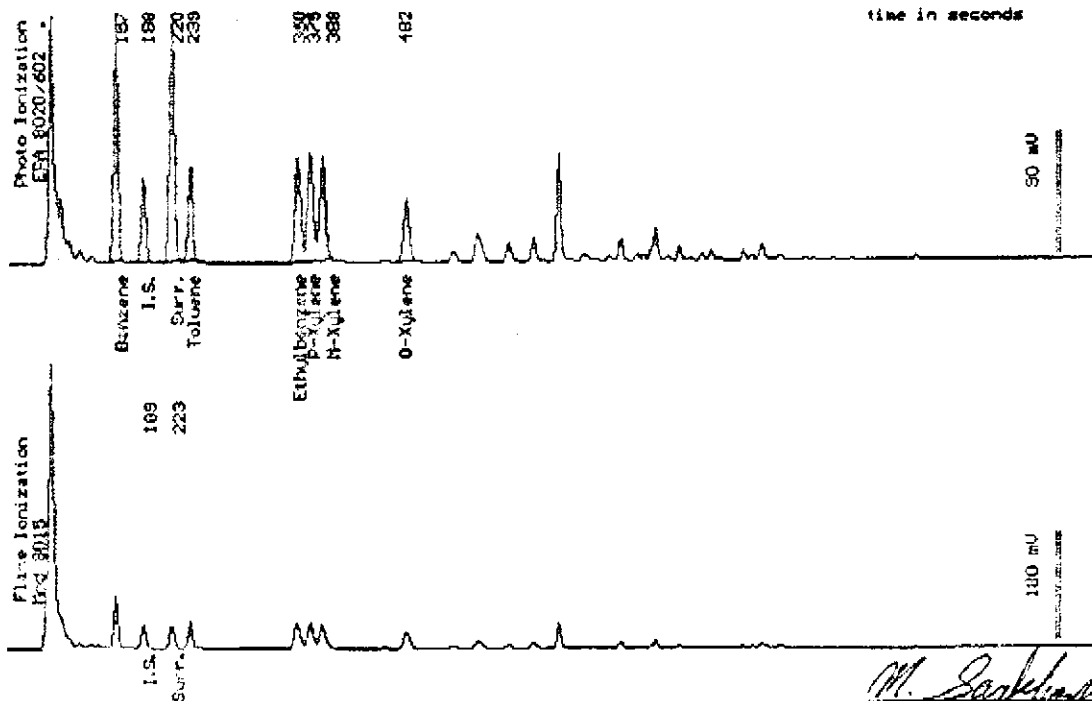
Sampled : 11/05/93

Dilution : 1:1

QC Batch : 4048B

Matrix : Water

Parameter	(MRL) ug/L	Measured Value ug/L
Benzene	(.50)	45
Toluene	(.50)	24
Ethylbenzene	(.50)	34
Total Xylenes	(.50)	93
TPH as Gasoline	(50)	820
Surrogate Recovery		101 %



*M. Sarkhosh*

Mina Sarkhosh  
Senior Chemist

Sample Log 7837

2837-4

Sample: MW-4

From : Project # 92-779 (Beacon 574)

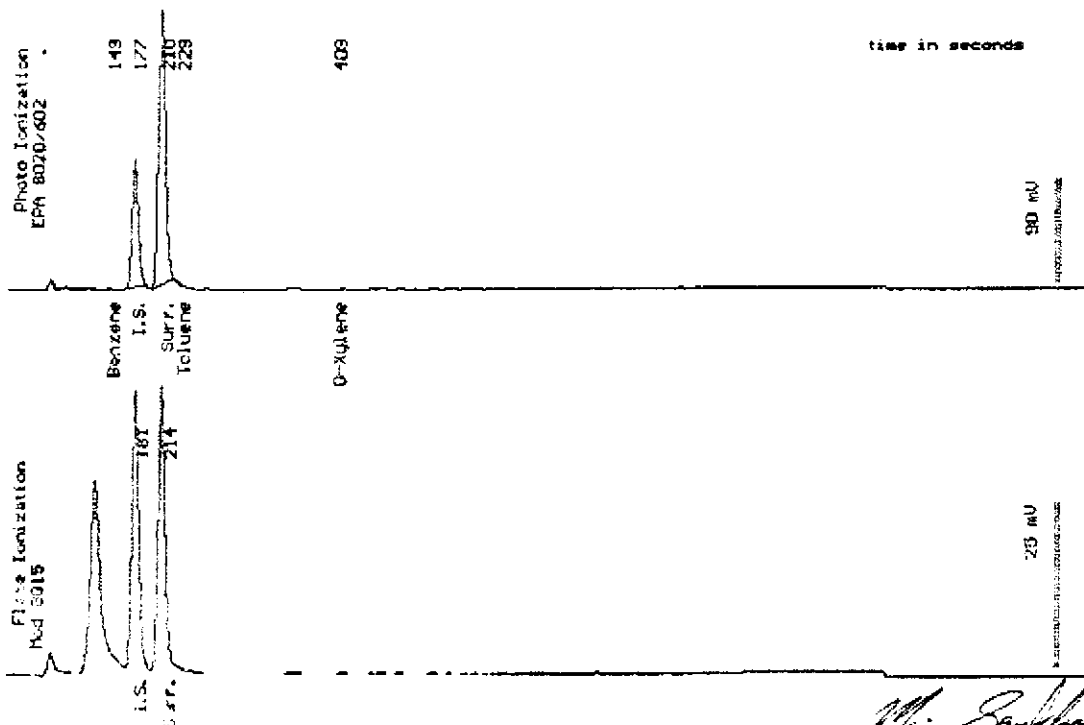
Sampled : 11/05/93

Dilution : 1:1

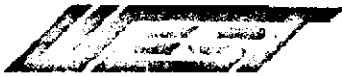
QC Batch : 2031g

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		103 %



*M. Sarkhosh*



Sample Log 7837

7837-5

Sample: MW-5

From : Project # 92-779 (Beacon 574)

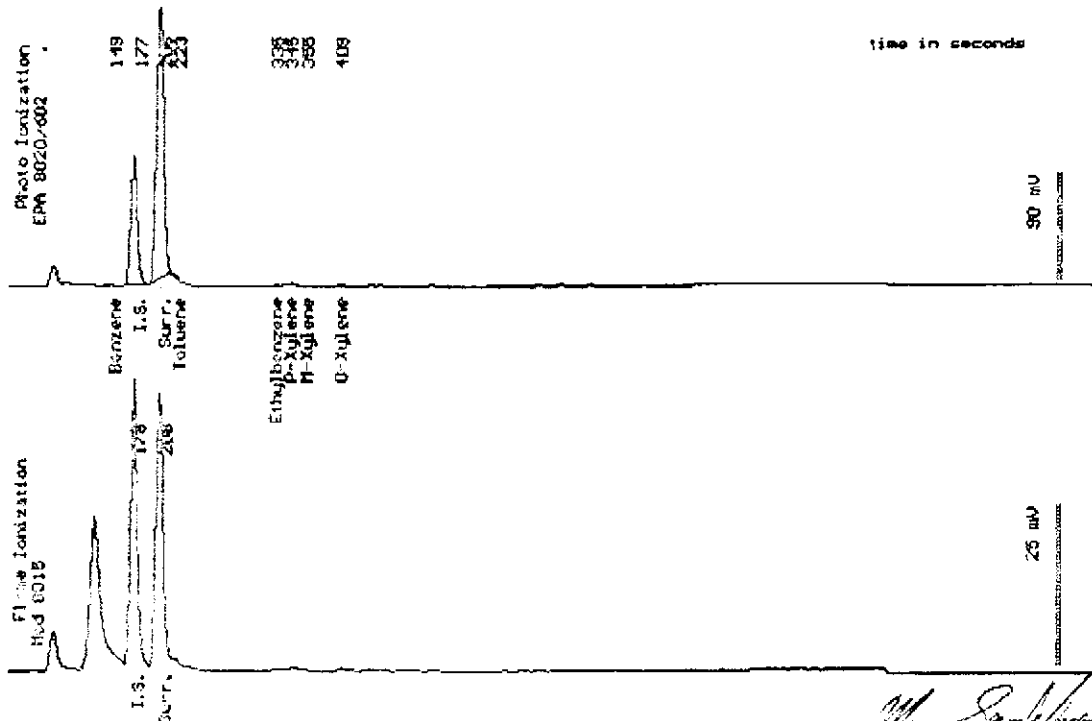
Sampled : 11/05/93

Dilution : 1:1

QC Batch : 2031g

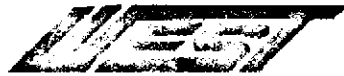
Matrix : Water

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		100 %



Date Analyzed: 11-10-93

Mitra Sarkhosh  
Senior Chemist



Sample Log 7837

7837-6

Sample: MW-6

From : Project # 92-779 (Beacon 574)

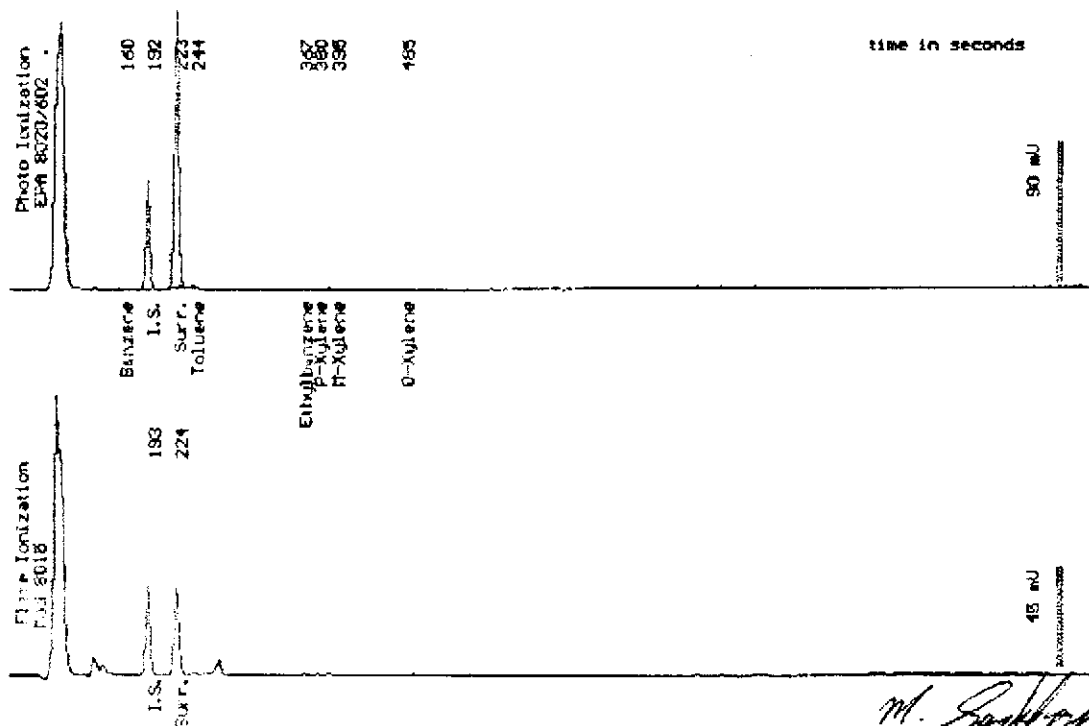
Sampled : 11/05/93

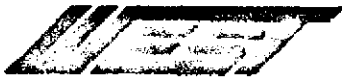
Dilution : 1:1

QC Batch : 4047g

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)	.65
TPH as Gasoline	(50)	170
Surrogate Recovery		100 %





Sample Log 7837

7837-7

Sample: MW-7

From : Project # 92-779 (Beacon 574)

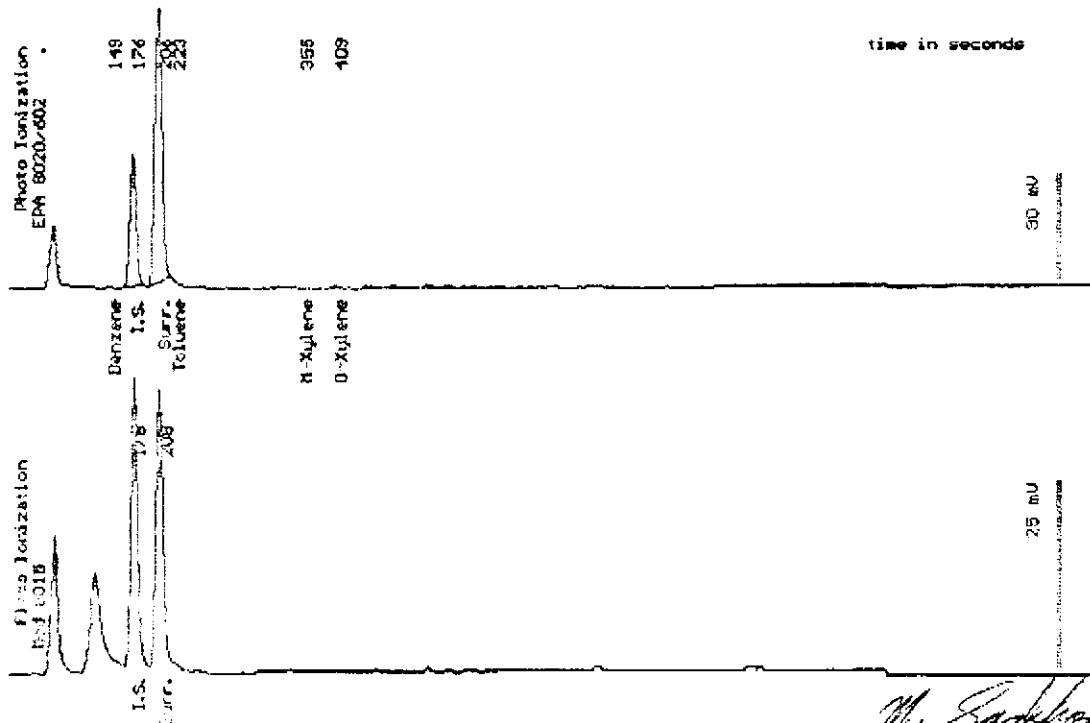
Sampled : 11/05/93

Dilution : 1:1

QC Batch : 2031g

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		103 %



Date Analyzed: 11-10-93

M. Sarkhosh  
Senior Chemist



Sample Log 7837

7837-8

Sample: MW-8

From : Project # 92-779 (Beacon 574)

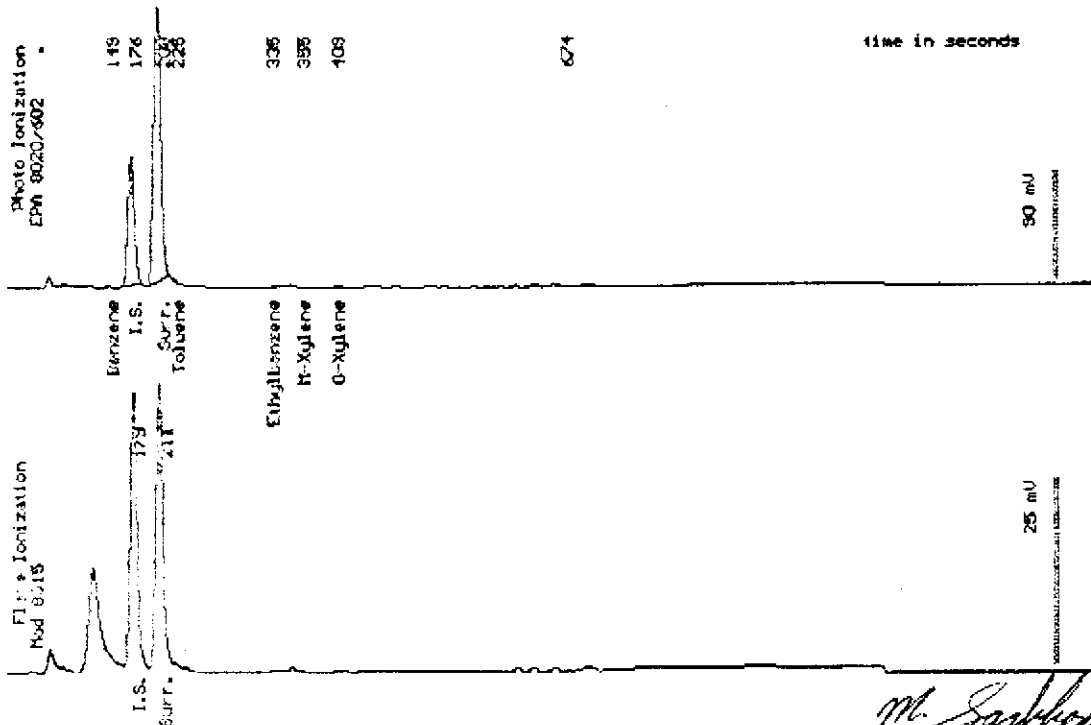
Sampled : 11/05/93

Dilution : 1:1

QC Batch : 2031g

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		102 %



*M. Sarkhosh*

Mitra Sarkhosh  
Senior Chemist



WEST  
(916) 753-9500

Ulramar Inc.  
CHAIN OF CUSTODY REPORT

BEACON

Beacon Station No. 574		Sampler (Print Name) Craig Jones			ANALYSES				Date 11-5-93	Form No. / of /
Project No. 92-779		Sampler (Signature) <i>C. Jones</i>			BTEX TPH (gasoline) TPH (diesel) No. of Containers				STANDARD T.A.T	
Project Location CASTRO VALLEY CA.		Affiliation AEGIS ENVIRONMENTAL								
Sample No / Identification		Date	Time	Lab No.						
MW-1		11-5-93	<del>1328</del> 1326	8	XX					
MW-2		↓	1359							
MW-3			1325							
MW-4			1302							
MW-5			1256							
MW-6			1236							
MW-7		✓	1206							
MW-8		11-5-93	1140							
Relinquished by: (Signature/Affiliation) <i>C. Jones</i> / AEGIS		Date 11-5-93	Time 4:55 pm	Received by: (Signature/Affiliation) <i>[Signature]</i> WEST				Date 11/5/93	Time 1:41	
Relinquished by: (Signature/Affiliation)		Date	Time	Received by: (Signature/Affiliation)				Date	Time	
Relinquished by: (Signature/Affiliation)		Date	Time	Received by: (Signature/Affiliation)				Date	Time	
Report To: FAX RESULTS TO SHEILA RICHGELS 1050 MELODY LN. #100 ROSEVILLE CA. 95678 (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



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 Xylene
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	550
	11-12-92	2,700	-	-	5.8	<5.0	140	340
	02-02-93	8,500	-	-	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.

**AEGIS ENVIRONMENTAL, INC.**  
**GROUNDWATER/LIQUID LEVEL DATA**  
(measurements in feet)

Project Address:

Beacon - 22315 Redwood, Castro Valley - 574

Date:

11/5/93

Recorded by:

Craig Teneis

Project No.:

92-779

Well No.	Time	Well Elev. TOC	Measured Total Depth	Depth to Gr. Water	Depth to Product	Product Thickness	Comments (TOC/TOB) (product skimmer in well)
1 MW-1	1100	156.55	29.81	24.09			
2 MW-2	1105	155.17	29.70	22.32			
6 MW-3	1055	157.13	29.41	22.85			
5 MW-4	1050	151.96	28.43	15.84			
4 MW-5	1045	148.68	25.43	16.92			
3 MW-6	1010	153.96	31.15	22.11			
2 MW-7	1055	156.09	30.75	23.93			
1 MW-8	1000	158.04	34.82	23.0			

Notes:



Client: BEACON #574  
Site: 22315 REDWOOD RD.  
CASTRO VALLEY CA.

Project No: 92-779  
Well Designation: MW-

Is setup of traffic control devices required? :  NO YES  
Is there standing water in well box? :  NO YES  
Is Top of Casing cut level? : NO  YES  
Is well cap sealed and locked? : NO  YES  
Height of Well Casing Riser ( in inches ) : \_\_\_\_\_  
General condition of Wellhead assembly :  Excellent  Good Fair Poor (Explain in remarks)

Setup & Takedown time: \_\_\_\_\_ hours  
( Above TOC Below TOC )  
( If NO please explain in remarks )  
( If NO please explain in remarks )

Purging Equipment:  2" Disposable bailer  Submersible pump  
 2" PVC bailer  Dedicated bailer  
 4" PVC bailer

Sampled with: Disposal bailer:  Teflon Bailor:

Well Diameter: 2" \_\_\_\_\_ 3" \_\_\_\_\_ 4"  6" \_\_\_\_\_ 8" \_\_\_\_\_  
Purge Vol. Multiplier: 0.163 0.367 0.653 1.47 2.61 gal/ft.

Initial Measurement

Recharge Measurement

Time: 11:00 Time: 1323 Calculated purge: 14  
Depth of well: 2981 Depth to water: 2561 Actual purge: 14  
Depth to water: 2409

Meter Calibration

Date \_\_\_\_\_  
Time \_\_\_\_\_

Initial reading \_\_\_\_\_  
Adjusted reading \_\_\_\_\_

Temp.	E.C.	pH	Turbidity

Start purge: 1306 Sampling time: 1326 Sampling Date: 11-5-92

Time	Temp.	E.C.	pH	Turbidity	Volume
1311	67.7	1.05	7.92		5
1316	67.3	1.01	7.97		5
1321	67	1.00	7.91		4

Sample appearance: semi-clear

QC samples collected at this well: \_\_\_\_\_

Lock: 3753

Equipment replaced: (Check all that apply) Note condition of replaced item.

2" Locking Cap:

Lock #2357:

Lock #0909:

4" Locking Cap:

Lock #3753:

Lock-Dolphin:

Remarks: \_\_\_\_\_

Signature \_\_\_\_\_

Review \_\_\_\_\_



Client: BEACON #574  
Site: 22315 REDWOOD RD.  
CASTRO VALLEY CA.

Project No: 92-779  
Well Designation: MW-2

Is setup of traffic control devices required? : NO YES  
Is there standing water in well box? : NO YES  
Is Top of Casing cut level? : NO YES  
Is well cap sealed and locked? : NO YES  
Height of Well Casing Riser ( in inches ) : \_\_\_\_\_  
General condition of Wellhead assembly : Excellent Good Fair Poor (Explain in remarks)

Purging Equipment: X 2" Disposable bailer X Submersible pump  
2" PVC bailer Dedicated bailer  
4" PVC bailer

Sampled with: Disposal bailer:  Teflon Bailor:

Well Diameter: 2" \_\_\_\_\_ 3" \_\_\_\_\_ 4" X 6" \_\_\_\_\_ 8" \_\_\_\_\_  
Purge Vol. Multiplier: 0.163 0.367 0.653 1.47 2.61 gal/ft.

Initial Measurement Time: 11:05 Recharge Measurement Time: 1355 Calculated purge: 90  
Depth of well: 2970 Depth to water: 23.44 Actual purge: 90  
Depth to water: 22.32

Meter Calibration		Temp.	E.C.	pH	Turbidity
Date _____	Initial reading _____				
Time _____	Adjusted reading _____				

Start purge: 1333 Sampling time: 1359 Sampling Date: 11-5-90

Time	Temp.	E.C.	pH	Turbidity	Volume
<u>1345</u>	<u>68.0</u>	<u>.88</u>	<u>7.92</u>		<u>7</u>
<u>1347</u>	<u>67.7</u>	<u>1.01</u>	<u>7.8</u>		<u>6</u>
<u>1353</u>	<u>66.9</u>	<u>1.03</u>	<u>7.94</u>		<u>6</u>

Sample appearance: semi-clear  
QC samples collected at this well: \_\_\_\_\_ Lock: 3753

Equipment replaced: (Check all that apply) Note condition of replaced item.  
2" Locking Cap:  Lock #2357:  Lock #0909:   
4" Locking Cap:  Lock #3753:  Lock-Dolphin:

Remarks: \_\_\_\_\_

Signature [Signature] Review [Signature]



Client: BEACON #574  
Site: 22315 REDWOOD RD.  
CASTRO VALLEY CA.

Project No: 92-779  
Well Designation: MW-3

Is setup of traffic control devices required? :  NO  YES  
Is there standing water in well box? :  NO  YES  
Is Top of Casing cut level? :  NO  YES  
Is well cap sealed and locked? :  NO  YES  
Height of Well Casing Riser ( in inches) : \_\_\_\_\_  
General condition of Wellhead assembly : Excellent  Good  Fair  Poor (Explain in remarks)

Setup & Takedown time: \_\_\_\_\_ hours  
( Above TOC Below TOC )  
( If NO please explain in remarks )  
( If NO please explain in remarks )

Purging Equipment:  2" Disposable bailer  Submersible pump  
 2" PVC bailer  Dedicated bailer  
 4" PVC bailer

Sampled with: Disposal bailer:  Teflon Bailor:

Well Diameter: 2"  3"  4"  6"  8"   
Purge Vol. Multiplier: 0.163 0.367 0.653 1.47 2.61 gal/ft.

Initial Measurement Time: 10:55 Recharge Measurement Time: 1322 Calculated purge: 17  
Depth of well: 29.41 Depth to water: 23.62 Actual purge: 17  
Depth to water: 22.85

Meter Calibration

Date	Time	Initial reading	Adjusted reading	Temp.	E.C.	pH	Turbidity
_____	_____	_____	_____				
_____	_____	_____	_____				

Start purge: 1300 Sampling time: 1325 Sampling Date: 11-5-90

Time	Temp.	E.C.	pH	Turbidity	Volume
<u>1309</u>	<u>67.7</u>	<u>1.04</u>	<u>7.87</u>	<input checked="" type="checkbox"/>	<u>6</u>
<u>1314</u>	<u>67.5</u>	<u>1.01</u>	<u>7.1</u>	<input checked="" type="checkbox"/>	<u>6</u>
<u>1320</u>	<u>67.7</u>	<u>1.08</u>	<u>7.92</u>	<input checked="" type="checkbox"/>	<u>5</u>

Sample appearance: semi-cloudy

QC samples collected at this well: \_\_\_\_\_ Lock: 3757

Equipment replaced: (Check all that apply) Note condition of replaced item.

2" Locking Cap:  Lock #2357:  Lock #0909:   
4" Locking Cap:  Lock #3753:  Lock-Dolphin:

Remarks: \_\_\_\_\_

Signature: [Signature] Review: [Signature]



Client: BEACON #574  
Site: 22315 REDWOOD RD.  
CASTRO VALLEY CA.

Project No: 92-779  
Well Designation: MW-4

Is setup of traffic control devices required? :  NO YES  
Is there standing water in well box? :  NO YES  
Is Top of Casing cut level? : NO YES  
Is well cap sealed and locked? : NO YES  
Height of Well Casing Riser ( in inches ) : \_\_\_\_\_  
General condition of Wellhead assembly : Excellent  Good Fair Poor (Explain in remarks)

Purging Equipment:  2" Disposable bailer  Submersible pump  
 2" PVC bailer  Dedicated bailer  
 4" PVC bailer

Sampled with: Disposal bailer:  Teflon Bailer:

Well Diameter: 2"  3" \_\_\_\_\_ 4" \_\_\_\_\_ 6" \_\_\_\_\_ 8" \_\_\_\_\_  
Purge Vol. Multiplier: 0.163 0.367 0.653 1.47 2.61 gal/ft.

Initial Measurement Time: 10:50 Recharge Measurement Time: 12:59 Calculated purge: 8  
Depth of well: 28.40 Depth to water: 17.22 Actual purge: 8  
Depth to water: 15.84

Meter Calibration		Temp.	E.C.	pH	Turbidity
Date _____	Initial reading _____				
Time _____	Adjusted reading _____				

Start purge: 1243 Sampling time: 1302 Sampling Date: 11-5-95

Time	Temp.	E.C.	pH	Turbidity	Volume
1247	66.8	92	7.88		3
1251	66.9	99	7.78		3
1256	65.3	90	7.65		2

Sample appearance: semi-cloudy  
QC samples collected at this well: \_\_\_\_\_ Lock: 3757

Equipment replaced: (Check all that apply) Note condition of replaced item.  
2" Locking Cap:  Lock #2357:  Lock #0909:   
4" Locking Cap:  Lock #3753:  Lock-Dolphin:

Remarks: 2" CAP broke in half - Replaced with new-

Signature \_\_\_\_\_ Review \_\_\_\_\_



Client: BEACON #574  
Site: 22315 REDWOOD RD.  
CASTRO VALLEY CA.

Project No: 92-779  
Well Designation: MW-5

Is setup of traffic control devices required? :  NO YES  
Is there standing water in well box? :  NO YES  
Is Top of Casing cut level? : NO  YES  
Is well cap sealed and locked? : NO  YES  
Height of Well Casing Riser ( in inches) : \_\_\_\_\_  
General condition of Wellhead assembly : \_\_\_\_\_ Excellent  Good Fair Poor (Explain in remarks)

Setup & Takedown time: \_\_\_\_\_ hours  
( Above TOC Below TOC )  
( If NO please explain in remarks )  
( If NO please explain in remarks )

Purging Equipment: \_\_\_\_\_ X 2" Disposable bailer X 2 \_\_\_\_\_ Submersible pump  
\_\_\_\_\_ 2" PVC bailer \_\_\_\_\_ Dedicated bailer  
\_\_\_\_\_ 4" PVC bailer \_\_\_\_\_

Sampled with: Disposal bailer:  Teflon Bailer:

Well Diameter: 2"  3" \_\_\_\_\_ 4" \_\_\_\_\_ 6" \_\_\_\_\_ 8" \_\_\_\_\_  
Purge Vol. Multiplier: 0.163 0.367 0.653 1.47 2.61 gal/ft.

Initial Measurement Time: 10:45 Recharge Measurement Time: 12:54 Calculated purge: 5  
Depth of well: 25.47 Depth to water: 17.01 Actual purge: 5  
Depth to water: 16.92

Meter Calibration	Temp.	E.C.	pH	Turbidity
Date _____ Initial reading _____				
Time _____ Adjusted reading _____				

Start purge: 12:40 Sampling time: 12:56 Sampling Date: 11-5-95

Time	Temp.	E.C.	pH	Turbidity	Volume
1244	66.8	1.02	7.88		2
1248	66.4	1.07	7.87		2
1252	66.3	1.00	7.68		1

Sample appearance: semi-cloudy

QC samples collected at this well: \_\_\_\_\_ Lock: 3207

Equipment replaced: (Check all that apply) Note condition of replaced item.  
2" Locking Cap:  Lock #2357:  Lock #0909:   
4" Locking Cap:  Lock #3753:  Lock-Dolphin:

Remarks: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Signature ca Review AK





Client: BEACON #574  
Site: 22315 REDWOOD RD.  
CASTRO VALLEY CA.

Project No: 92-779  
Well Designation: MW-6

Is setup of traffic control devices required? :  NO YES  
Is there standing water in well box? :  NO YES  
Is Top of Casing cut level? : NO  YES  
Is well cap sealed and locked? : NO  YES  
Height of Well Casing Riser ( in inches) : \_\_\_\_\_  
General condition of Wellhead assembly : Excellent  Good Fair Poor (Explain in remarks)

Setup & Takedown time: \_\_\_\_\_ hours  
( Above TOC Below TOC )  
( If NO please explain in remarks )  
( If NO please explain in remarks )

Purging Equipment: X 2" Disposable bailer X2 Submersible pump  
2" PVC bailer Dedicated bailer  
4" PVC bailer

Sampled with: Disposal bailer:  Teflon Bailor:

Well Diameter: 2" X 3" \_\_\_\_\_ 4" \_\_\_\_\_ 6" \_\_\_\_\_ 8" \_\_\_\_\_  
Purge Vol. Multiplier: 0.163 0.367 0.653 1.47 2.61 gal/ft.

Initial Measurement Time: 10:40 Recharge Measurement Time: 1232 Calculated purge: 5  
Depth of well: 31.15 Depth to water: 24.10 Actual purge: 5  
Depth to water: 22.11

Meter Calibration

Date	Initial reading	Temp.	E.C.	pH	Turbidity
_____	_____	_____	_____	_____	_____
Time _____	Adjusted reading	_____	_____	_____	_____

Start purge: 1214 Sampling time: 1236 Sampling Date: 11-5-92

Time	Temp.	E.C.	pH	Turbidity	Volume
<u>1220</u>	<u>68.2</u>	<u>1.01</u>	<u>7.66</u>		<u>2</u>
<u>1227</u>	<u>68.3</u>	<u>1.03</u>	<u>7.61</u>		<u>2</u>
<u>1228</u>	<u>67.6</u>	<u>1.05</u>	<u>7.73</u>		<u>1</u>

Sample appearance: semi-cloudy

QC samples collected at this well: \_\_\_\_\_ Lock: 3753

Equipment replaced: (Check all that apply) Note condition of replaced item.  
2" Locking Cap:  Lock #2357:  Lock #0909:   
4" Locking Cap:  Lock #3753:  Lock-Dolphin:

Remarks: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Signature CF Review SR



Client: BEACON #574  
Site: 22315 REDWOOD RD.  
CASTRO VALLEY CA.

Project No: 92-779  
Well Designation: MW-7

Is setup of traffic control devices required? :  NO YES  
Is there standing water in well box? :  NO YES  
Is Top of Casing cut level? :  NO YES  
Is well cap sealed and locked? :  NO YES  
Height of Well Casing Riser ( in inches ) : \_\_\_\_\_  
General condition of Wellhead assembly : Excellent Good Fair Poor (Explain in remarks)

Setup & Takedown time: \_\_\_\_\_ hours  
( Above TOC Below TOC )  
( If NO please explain in remarks )  
( If NO please explain in remarks )

Purging Equipment:  2" Disposable bailer  Submersible pump  
 2" PVC bailer  Dedicated bailer  
 4" PVC bailer

Sampled with: Disposal bailer:  Teflon Bailor:

Well Diameter: 2"  3" \_\_\_\_\_ 4" \_\_\_\_\_ 6" \_\_\_\_\_ 8" \_\_\_\_\_  
Purge Vol. Multiplier: 0.163 0.367 0.653 1.47 2.61 gal/ft.

Initial Measurement

Recharge Measurement

Time: 10:35 Time: 1202 Calculated purge: 4.0  
Depth of well: 30.75 Depth to water: 24.66 Actual purge: 4.0  
Depth to water: 23.93

Meter Calibration

Date \_\_\_\_\_  
Time \_\_\_\_\_

Initial reading \_\_\_\_\_  
Adjusted reading \_\_\_\_\_

Temp.	E.C.	pH	Turbidity

Start purge: 1150 Sampling time: 1206 Sampling Date: 1-5-92

Time	Temp.	E.C.	pH	Turbidity	Volume
1154	65.2	.89	7.31		2
1157	65.8	.85	7.44		1
1159	65.4	.81	7.68		1

Sample appearance: semi-cloudy

QC samples collected at this well: \_\_\_\_\_ Lock: 3750

Equipment replaced: (Check all that apply) Note condition of replaced item.

2" Locking Cap:  Lock #2357:  Lock #0909:   
4" Locking Cap:  Lock #3753:  Lock-Dolphin:

Remarks: \_\_\_\_\_

Signature

Review



Client: BEACON #574  
Site: 22315 REDWOOD RD.  
CASTRO VALLEY CA.

Project No: 92-779  
Well Designation: MW-8

Is setup of traffic control devices required? :  NO YES Setup & Takedown 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 please explain in remarks)  
Is well cap sealed and locked? : NO YES (If NO please explain in remarks)  
Height of Well Casing Riser ( in inches) : \_\_\_\_\_  
General condition of Wellhead assembly : Excellent  Good Fair Poor (Explain in remarks)

Purging Equipment:  2" Disposable bailer  Submersible pump  
 2" PVC bailer  Dedicated bailer  
 4" PVC bailer

Sampled with: Disposal bailer:  Teflon Bailor:

Well Diameter: 2"  3" \_\_\_\_\_ 4" \_\_\_\_\_ 6" \_\_\_\_\_ 8" \_\_\_\_\_  
Purge Vol. Multiplier: 0.163 0.367 0.653 1.47 2.61 gal/ft.

Initial Measurement Recharge Measurement  
Time: 1030 Time: 1158 Calculated purge: 7  
Depth of well: 34.82 Depth to water: 24.66 Actual purge: 7  
Depth to water: 23.0

Meter Calibration	Temp.	E.C.	pH	Turbidity
Date _____				
Time _____				
Initial reading				
Adjusted reading				

Start purge: 1110 Sampling time: 1140 Sampling Date: 11-5-93

Time	Temp.	E.C.	pH	Turbidity	Volume
<u>1125</u>	<u>66.8</u>	<u>.88</u>	<u>7.32</u>		<u>3</u>
<u>1120</u>	<u>66.5</u>	<u>.85</u>	<u>7.41</u>		<u>2</u>
<u>1135</u>	<u>64.5</u>	<u>.82</u>	<u>7.55</u>		<u>2</u>

Sample appearance: \_\_\_\_\_

QC samples collected at this well: \_\_\_\_\_ Lock: 3753

Equipment replaced: (Check all that apply) Note condition of replaced item.  
2" Locking Cap:  Lock #2357:  Lock #0909:   
4" Locking Cap:  Lock #3753:  Lock-Dolphin:

Remarks: \_\_\_\_\_

Signature [Signature] Review [Signature]