

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
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ENVIRONMENTAL PROJECT QUARTERLY STATUS REPORT

DATE REPORT SUBMITTED: June 28, 1993
QUARTER ENDING: March 31, 1993

SERVICE STATION NO.: 721
ADDRESS: 44 Lewelling Blvd., San Lorenzo, CA
COUNTY: Alameda

ULTRAMAR CONTACT: Terrence A. Fox

TEL. NO: 209-583-5545

BACKGROUND:

In April 1987, three underground gasoline storage tanks were excavated and removed. Samples collected from beneath the former tanks indicated that hydrocarbons were present in the soil. In May 1987, three monitoring wells (MW-1 through MW-3) were installed by Conoco. Hydrocarbons were detected in soil and ground-water samples collected from the wells. In December 1988, four additional wells (MW-4 through MW-7) were installed. Dissolved-phase hydrocarbons were detected in the new wells. In September 1989, two additional wells (MW-8 and MW-9) were installed. The site has been on a monitoring program since May 1987.

In July 1990, the site was purchased by Ultramar Inc. from Conoco. The monitoring program has continued. Submitted work plan for additional assessment on March 14, 1991.

In October 1991, drilled two additional offsite wells (MW-10 and MW-11) southwest of the site and one onsite recovery well (RW-1). In November 1991, performed ground-water pump test and vapor extraction test.

In April 1992, Ultramar submitted an Interim Remediation Plan. The plan was approved in June 1992.

SUMMARY OF THIS QUARTER'S ACTIVITIES:

Performed quarterly monitoring on February 3, 1993. In March 1993, installed the subsurface piping for the remediation system.



A Member of the Ultramar Group of Companies

BEACON
#1 Quality and Service

RESULT OF QUARTERLY MONITORING:

Monitoring data indicates that the thickness of free product MW-3 decreased from 0.38' to 0.02' and in RW-1 from 0.01' to not detected. The benzene concentration decreased in MW-1 from 200 ppb to 130 ppb and in MW-10 from 36 ppb to 15 ppb. Benzene concentrations increased in MW-2 from not detected to 1.2 ppb, in MW-5 from not detected to 3.0 ppb, in MW-6 from 1.3 ppb to 1.9 ppb, and in MW-7 from 29 ppb to 200 ppb. Benzene concentrations remained not detected in wells MW-4, MW-8, and MW-9. The benzene concentrations in MW-3 and RW-1, which were not sampled last quarter, were 7,200 ppb and 71 ppb, respectively.

PROPOSED ACTIVITY OR WORK FOR NEXT QUARTER:

<u>ACTIVITY</u>	<u>ESTIMATED COMPLETION DATE</u>
Continue quarterly ground-water monitoring	Ongoing
Complete installation of remediation system.	May 31, 1993
Begin operation of ground-water remediation system.	June 30, 1993



AEGIS ENVIRONMENTAL, INC.

1050 Melody Lane, Suite 160, Roseville, CA 95678

◆ 916 • 782-2110 / 916 • 969-2110 / FAX 916 • 786-7830

June 28, 1993

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

Subject: **First Quarter 1993 Groundwater Monitoring Report**
Beacon Station #721
44 Lewelling Boulevard, San Lorenzo, California

Dear Mr. Fox:

Aegis Environmental, Inc. (Aegis), is pleased to provide Ultramar Inc., this report documenting the results of quarterly groundwater monitoring, conducted on February 3, 1993, at the subject site (Figure 1). The monitoring included measurements of depths to water, subjective analysis of free product, and collection of groundwater samples.

GROUNDWATER ELEVATIONS

Prior to purging, Aegis personnel collected depth to water measurements on February 3, 1993. Groundwater level data from February 1992 to date, are summarized in Table 1. Previous groundwater level data are included in Attachment 3. All measurements of depths to liquids were conducted according to the Aegis standard operating procedures (SOP) included in Attachment 1. On the basis of the February 3, 1993, measurements, groundwater is estimated to flow generally to the southwest (Figure 2) at an average gradient of approximately 0.002 ft/ft. In general, groundwater levels have increased approximately 4.5 feet compared to the November 1992 event.

92-7038.FPT

GEOLOGISTS • ENGINEERS • GROUNDWATER SCIENTISTS

GROUNDWATER SAMPLING AND ANALYSES

Groundwater samples were collected from eleven of the twelve wells on February 3, 1993. A groundwater sample was collected from MW-3 after free product was bailed from the well. The samples were collected according to the Aegis SOP included in Attachment 1, and submitted under chain-of-custody to WEST Labs of Davis, California, a state-certified analytical laboratory. 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.

Current analytical results, and prior 1992 analytical results only, are summarized in Table 2. Previous analytical results are included in Attachment 4. Figure 3 is a distribution map of benzene in groundwater based on February 3, 1993 data. The analytical laboratory report and chain-of-custody forms for the current event are included as Attachment 2. Benzene concentrations remained below detection limits in wells MW-4, MW-5, MW-8, MW-9, and MW-11. Wells MW-1 and MW-10 had a decrease in benzene concentrations compared to the November 1992 event. Benzene concentrations increased in wells MW-2, MW-5, MW-6, MW-7 and MW-10 compared to the November 1992 sampling. Wells MW-3, and RW-1 had a decrease in benzene concentrations compared to the August 1992 event¹.

Aegis recommends a copy of this quarterly monitoring report be forwarded to the following parties:

Ms. Pamela Evans
Hazardous Materials Program
Department of Environmental Health
County of Alameda
80 Swan Way, Room 200
Oakland, California 94612

Mr. Steven Ritchie
California Regional Water Quality Control Board
San Francisco Bay Region
2101 Webster Street, Suite 500
Oakland, California 94612

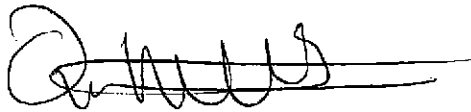
¹ Wells MW-3 and RW-1 were not sampled in November 1992

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, 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,

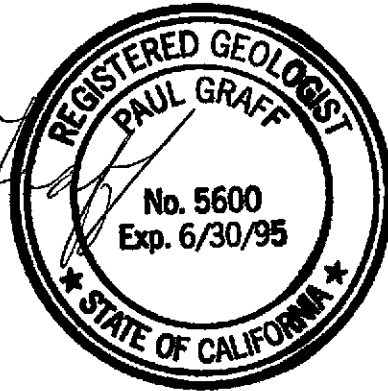
AEGIS ENVIRONMENTAL, INC.



Owen M. Kittredge
Project Geologist



Paul Graff
Senior Geologist
CRG No. 5600



6/15/93
Date

OMK/PKG/cdr

Attachments

FIGURES:

FIGURE 1 SITE LOCATION MAP

FIGURE 2 POTENTIOMETRIC SURFACE MAP
(FEBRUARY 3, 1993)

FIGURE 3 DISTRIBUTION MAP OF BENZENE
IN GROUNDWATER (FEBRUARY 3, 1993)

TABLES:

TABLE 1 LIQUID LEVEL DATA

TABLE 2 ANALYTICAL RESULTS: GROUNDWATER

ATTACHMENTS:

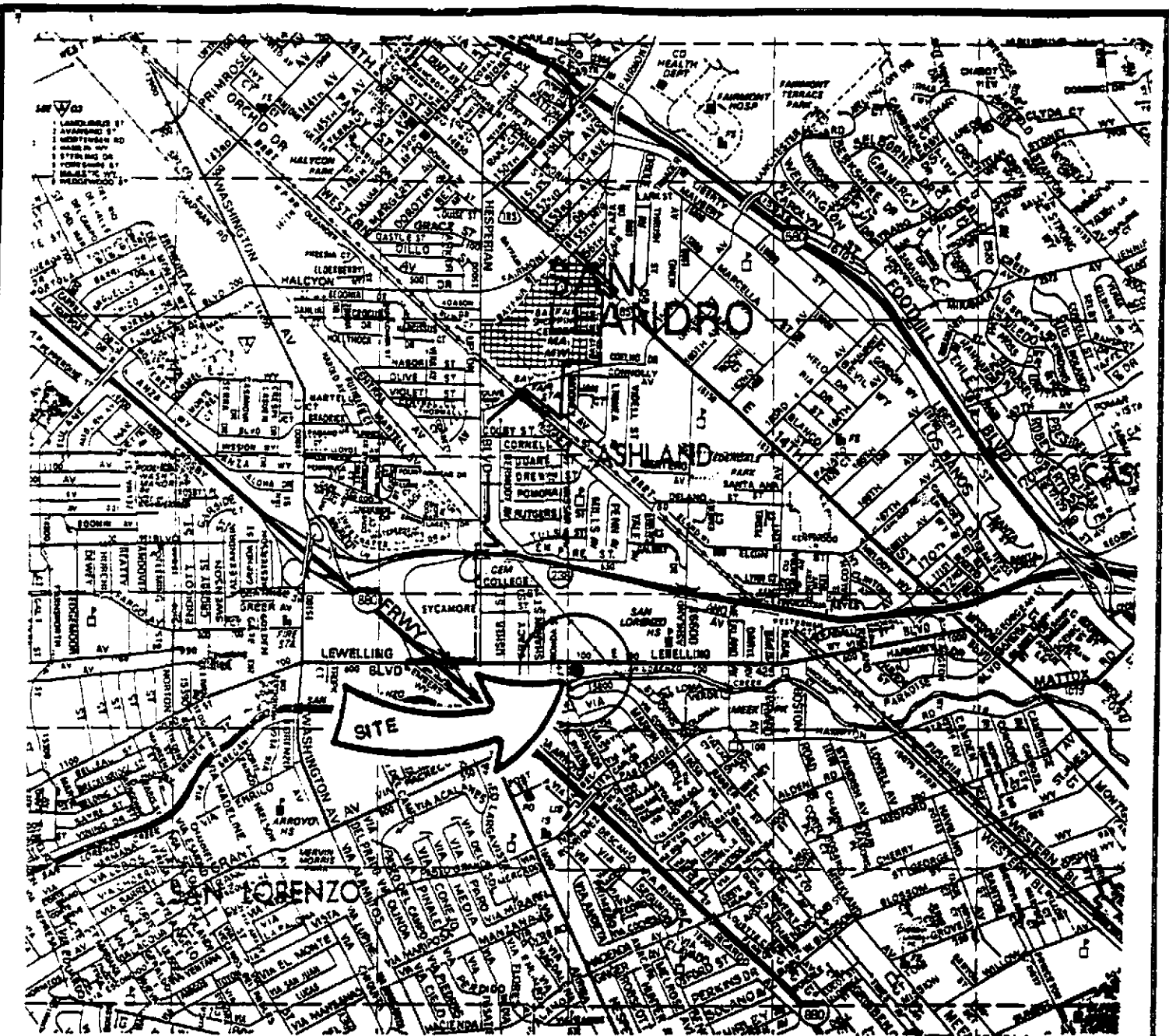
ATTACHMENT 1 STANDARD OPERATING PROCEDURES

ATTACHMENT 2 LABORATORY REPORT AND
CHAIN-OF-CUSTODY FORMS

ATTACHMENT 3 HISTORICAL WATER LEVEL DATA

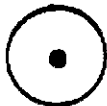
ATTACHMENT 4 HISTORICAL ANALYTICAL DATA

ATTACHMENT 5 FIELD DATA SHEETS



BASE MAP: THOMAS BROS. GUIDE ALAMEDA CO. 1991

LEGEND



SITE LOCATION



REVIEWED BY:

[Handwritten signature]

SITE LOCATION MAP

ULTRAMAR BEACON STATION NO. 721

APPROVED BY:

[Handwritten signature]

44 LEWELLING BOULEVARD

SAN LORENZO, CALIFORNIA

JOB #:

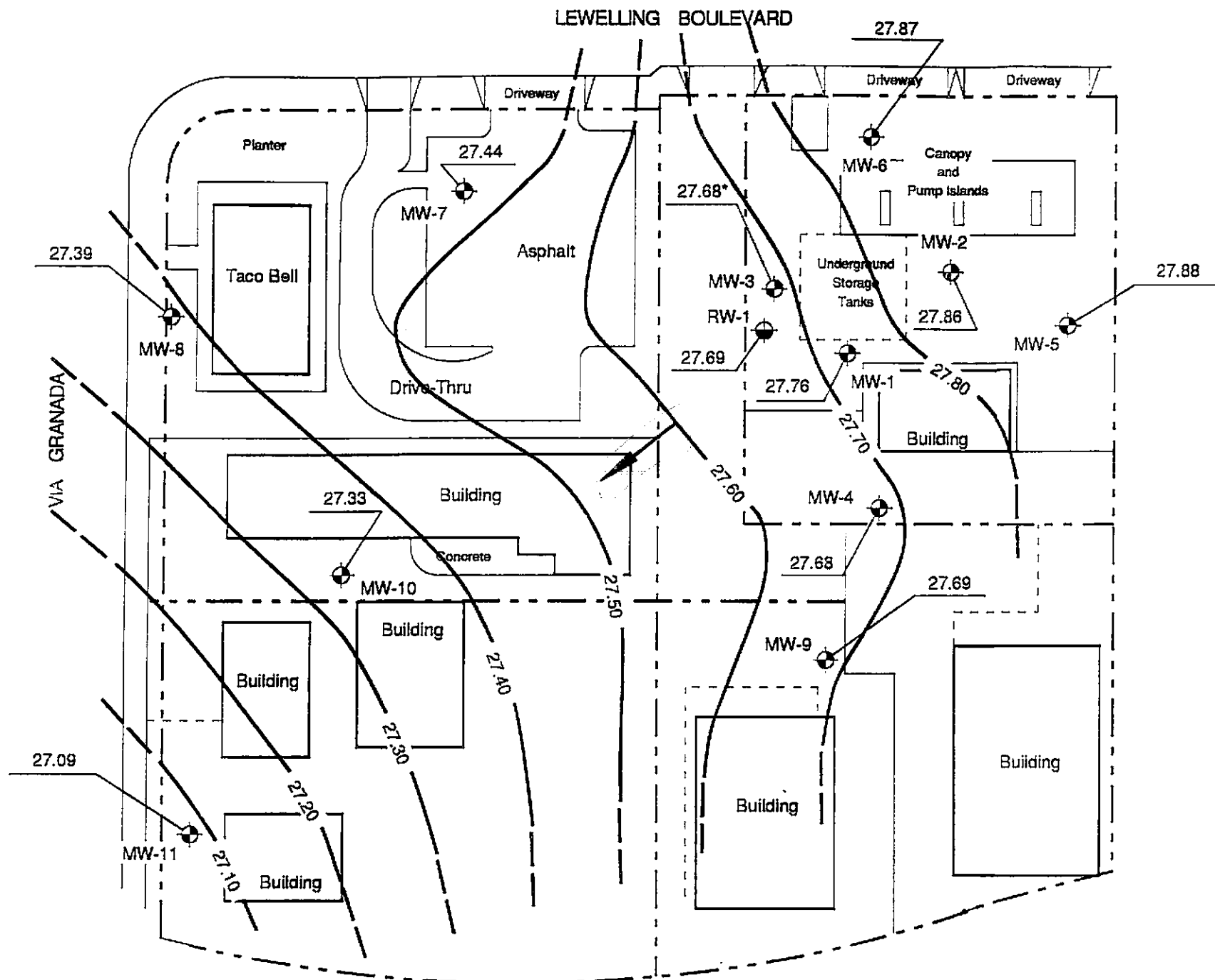
DRAWN BY:

DATE:

1/8/92

DRAWING #:

FIG. 1



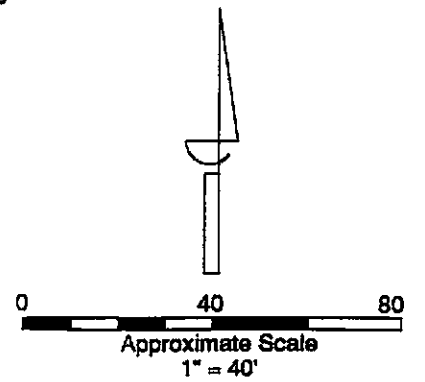
- LEGEND**
- Monitoring Well
 - Recovery Well
 - Approximate Property Lines
 - Corrected For Free Product Thickness (See Table 1)
 - Potentiometric Surface Contour Line (Dashed Where Inferred)
 - Groundwater Elevation in Feet
 - Estimated Direction of Groundwater Flow

Hydraulic Gradient = 0.002 ft/ft
 Contour Interval = 0.1 ft

NOTES

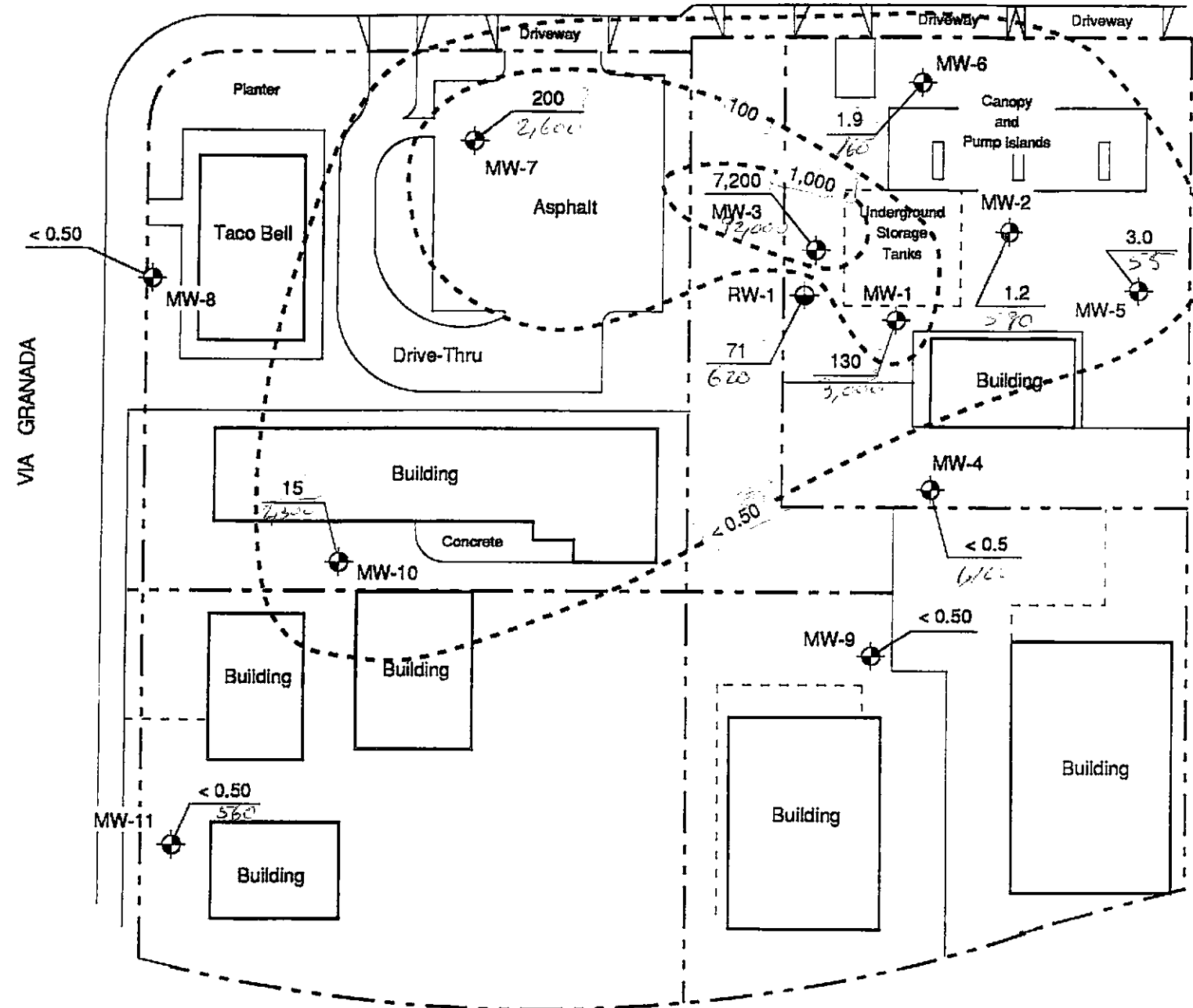
Site Sketch After Site Vicinity Map
 By Resna
 (January 9, 1992)

All Locations Are Approximate



	AEGIS ENVIRONMENTAL, INC.		POTENTIOMETRIC SURFACE MAP February 3, 1993		FIGURE 2
	DRAWN BY: D. Hada	DATE: March 17, 1993	Beacon Station #721 44 Lewelling Boulevard San Lorenzo, CA		
	REVISED BY:	DATE:			

LEWELLING BOULEVARD



LEGEND

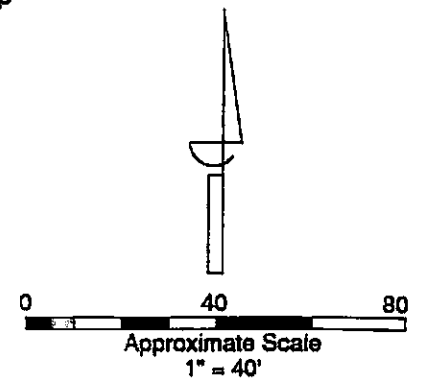
- Monitoring Well
- Recovery Well
- Approximate Property Lines
- 130 Benzene Concentration (parts-per-billion)
- Inferred iso-Concentration Limits
- <math>< 0.50</math> Below Indicated Detection Limit

Contour Interval = Exponential

NOTES

Site Sketch After Site Vicinity Map
By Resna
(January 9, 1992)

All Locations Are Approximate



TFHg = (ppb) in red circle

		DISTRIBUTION MAP OF BENZENE IN GROUNDWATER February 3, 1993		FIGURE 3	
		Beacon Station #721 44 Lewelling Boulevard San Lorenzo, CA			PROJECT NUMBER: 92-703
DRAWN BY: D. Hada	DATE: March 17, 1993	REVISED BY:	DATE:	REVIEWED BY:	DATE:

TABLE 1
LIQUID LEVEL DATA

BEACON STATION #721
44 LEWELLING BOULEVARD, SAN LORENZO, CALIFORNIA
(Measurements in feet)

Monitoring Well	Date	Reference Elevation (top of casing) ¹	Depth to Groundwater ¹	Groundwater Elevation ²	Depth to Free Product ¹	Free Product Thickness	Well Depth	Comments
MW-1	02/18/92	43.67	16.42	27.25	---	---	---	---
	05/14/92		17.28	26.39	---	---	---	
	08/27/92		19.48	24.19	---	---	---	
	11/19/92		20.57	23.10	---	---	30.93	
	02/03/93		15.91	27.76	---	---	31.11	
MW-2	02/18/92	43.09	16.65	26.44	---	---	---	---
	05/14/92		16.64	26.45	---	---	---	
	08/27/92		18.81	24.28	---	---	---	
	11/19/92		19.91	23.18	---	---	32.18	
	02/03/93		15.23	27.86	---	---	32.73	
MW-3	02/18/92	43.10	16.89	26.21	---	---	---	---
	05/14/92		16.80	26.30	---	---	---	
	08/27/92		18.98	24.12	---	---	---	
	11/19/92		20.38	23.01*	20.00	0.38	---	
	02/03/93		15.43	27.68*	15.45	0.02	29.52	Bailed off heavy sheen
MW-4	02/18/92	44.66	18.51	26.15	---	---	---	---
	05/14/92		18.22	26.44	---	---	---	
	08/27/92		20.47	24.19	---	---	---	
	11/19/92		21.58	23.08	---	---	24.43	
	02/03/93		16.98	27.68	---	---	24.53	
MW-5	02/18/92	43.79	17.37	26.42	---	---	---	---
	05/14/92		17.29	26.50	---	---	---	
	08/27/92		22.18	21.61	---	---	---	
	11/19/92		20.68	23.11	---	---	28.80	
	02/03/93		15.91	27.88	---	---	29.19	

- NOTES: 1 - Measurement and reference elevation taken from notch/mark on top north side of well casing.
 2 - Elevation referenced to mean sea level.
 * - Corrected groundwater elevation = Reference elevation - CDTW, 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.
 --- - Not analyzed/not sampled.
 Well Depth - Measurement from top of casing to bottom of well.

TABLE 1 (CONTINUED)

LIQUID LEVEL DATA

BEACON STATION #721
44 LEWELLING BOULEVARD, SAN LORENZO, CALIFORNIA
(Measurements in feet)

Monitoring Well	Date	Reference Elevation (top of casing) ¹	Depth to Groundwater ¹	Groundwater Elevation ²	Depth to Free Product ¹	Free Product Thickness	Well Depth	Comments
MW-6	02/18/92	42.47	15.87	26.60	---	---	---	---
	05/14/92		16.04	26.43	---	---	---	
	08/27/92		18.17	24.30	---	---	---	
	11/19/92		19.30	23.17	---	---	28.54	
	02/03/93		14.60	27.87	---	---	28.64	
MW-7	02/18/92	41.54	15.51	26.03	---	---	---	---
	05/14/92		15.41	26.13	---	---	---	
	08/27/92		17.45	24.09	---	---	---	
	11/19/92		18.54	23.00	---	---	24.42	
	02/03/92		14.10	27.44	---	---	24.23	
MW-8	02/18/92	42.26	16.57	25.69	---	---	---	---
	05/14/92		16.24	26.02	---	---	---	
	08/27/92		18.28	23.98	---	---	---	
	11/19/92		19.32	22.94	---	---	23.01	
	02/03/92		14.87	27.39	---	---	23.19	
MW-9	02/18/92	44.94	18.87	26.07	---	---	---	---
	05/14/92		18.55	26.39	---	---	---	
	08/27/92		20.80	24.14	---	---	---	
	11/19/92		21.90	23.04	---	---	23.61	
	02/03/92		17.25	27.69	---	---	23.52	
MW-10	02/18/92	42.34	16.63	25.71	---	---	---	---
	05/14/92		15.25	27.09	---	---	---	
	08/27/92		18.35	23.90	---	---	---	
	11/19/92		19.43	22.91	---	---	29.61	
	02/03/92		15.01	27.33	---	---	29.55	

- NOTES:
- 1 - Measurement and reference elevation taken from notch/mark on top north side of well casing.
 - 2 - Elevation referenced to mean sea level.
 - - Corrected groundwater elevation = Reference elevation - CDTW, 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.
 - - Not analyzed/not sampled.
 - Well Depth - Measurement from top of casing to bottom of well.
CDTW = DTW - (SP.G x LHT).

TABLE 1 (CONTINUED)

LIQUID LEVEL DATA

BEACON STATION #721
44 LEWELLING BOULEVARD, SAN LORENZO, CALIFORNIA
(Measurements in feet)

Monitoring Well	Date	Reference Elevation (top of casing) ¹	Depth to Groundwater ¹	Groundwater Elevation ²	Depth to Free Product ¹	Free Product Thickness	Well Depth	Comments
MW-11	02/18/92	45.00	17.00	26.17	---	---	---	---
	05/14/92		19.02	25.98	---	---	---	
	08/27/92		21.13	23.87	---	---	---	
	11/19/92		17.91	22.77	---	---	29.37	
	02/03/92		27.09	---	---	---	29.42	
RW-1	05/14/92	43.17	16.88	26.29	---	---	---	---
	08/27/92		19.05	24.12	---	---	---	
	11/19/92		21.11	22.07*	21.10	0.01	---	
	02/03/92		15.48	27.69	---	---	36.36	

- NOTES:
- 1 - Measurement and reference elevation taken from notch/mark on top north side of well casing.
 - 2 - Elevation referenced to mean sea level.
 - * - Corrected groundwater elevation = Reference elevation - CDTW, 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.
 - - Not analyzed/not sampled.
 - Well Depth - Measurement from top of casing to bottom of well.

TABLE 2

ANALYTICAL RESULTS: GROUNDWATER

BEACON STATION #721
44 LEWELLING BOULEVARD, SAN LORENZO, CALIFORNIA
(All results in parts-per-billion)

Monitoring Well	Date Collected	Total Petroleum Hydrocarbons	Aromatic Volatile Organics			
			Gasoline	Benzene	Toluene	Ethylbenzene
MW-1	02/18/92	--	--	--	--	--
	05/15/92	41,000	2,000	47	1,200	400
	08/28/92	110,000	3,800	54	850	970
	11/19/92	3,600	200	<5.0	90	140
	02/03/93	3,000	130	22	79	130
MW-2	02/18/92	1,600	<0.5	<0.5	1.9	<0.5
	05/14/92	740	1.2	1.0	1.3	<0.5
	08/27/92	1,400	6.5	1.1	0.6	<0.5
	11/19/92	360	<0.5	<0.5	2.7	<0.5
	02/03/93	590	1.2	1.6	4.6	6.4
MW-3	02/18/92	--	--	--	--	--
	05/15/92	160,000	6,300	5,900	1,700	6,100
	08/28/92	1,300,000	25,000	40,000	6,700	44,000
	11/19/92	--	--	--	--	--
	02/03/93	92,000	7,200	11,000	2,900	13,000
MW-4	02/18/92	5,100	<0.5	<0.5	12	21
	05/14/92	4,600	<0.5	5.6	1.8	2.2
	08/28/92	1,700	6.6	1.3	1.6	3.1
	11/19/92	400	<0.5	<0.5	<0.5	<0.5
	02/03/93	1,100	<0.5	<0.5	<0.5	<0.5
MW-5	02/18/92	<50	<0.5	<0.5	<0.5	<0.5
	05/14/92	<50	<0.5	<0.05	<0.5	<0.5
	08/27/92	<50	<0.5	<0.5	<0.5	<0.5
	11/19/92	<50	<0.5	<0.5	<0.5	<0.5
	02/03/93	55	3.0	2.7	2.0	9.9
MW-6	02/18/92	370	4.8	<0.5	<0.5	<0.5
	05/14/92	120	<0.5	<0.5	<0.5	<0.5
	08/27/92	<50	1.2	<0.5	<0.5	<0.5
	11/19/92	66	1.3	<0.5	1.0	1.1
	02/03/93	160	1.9	2.6	2.3	12
MW-7	02/18/92	670	16	<0.5	10	16
	05/14/92	1,500	44	<0.5	36	88
	08/27/92	23,000	400	5.8	290	1,400
	11/19/92	330	29	<0.5	10	63
	02/03/93	2,600	200	<0.5	110	480

NOTES: < - Below indicated detection limit.
-- - Not analyzed/not sampled.

TABLE 2 (CONTINUED)

ANALYTICAL RESULTS: GROUNDWATER

BEACON STATION #721
 44 LEWELLING BOULEVARD, SAN LORENZO, CALIFORNIA
 (All results in parts-per-billion)

Monitoring Well	Date Collected	Total Petroleum Hydrocarbons	Aromatic Volatile Organics			
		Gasoline	Benzene	Toluene	Ethylbenzene	Total Xylenes
MW-8	02/18/92	1,200	<0.5	<0.5	9.5	<0.5
	05/14/92	130	<0.5	<0.5	<0.5	<0.5
	08/28/92	140	<0.5	<0.5	<0.5	<0.5
	11/19/92	320	<0.5	<0.5	2.0	<0.5
	02/03/93	<50	<0.5	<0.5	<0.5	<0.5
MW-9	02/18/92	<50	<0.5	<0.5	<0.5	<0.5
	05/14/92	<50	<0.5	<0.5	<0.5	<0.5
	08/27/92	<50	<0.5	<0.5	<0.5	<0.5
	11/19/92	<50	<0.5	<0.5	<0.5	1.3
	02/03/93	<50	<0.5	<0.5	<0.5	<0.5
MW-10	02/18/92	18,000	110	57	440	63
	05/15/92	8,500	24	9.8	97	<0.5
	08/28/92	9,600	20	2.8	40	3.5
	11/19/92	5,700	36	21	330	31
	02/03/93	2,300	15	4.6	36	9.6
MW-11	02/18/92	2,400	<0.5	<0.5	<0.5	<0.5
	05/15/92	1,600	<0.5	1.9	1.3	0.7
	08/27/92	2,100	15	2	0.6	1.2
	11/19/92	490	<0.5	<0.5	<0.5	<0.5
	02/03/93	560	<0.5	<0.5	0.55	<0.5
RW-1	05/15/92	790	270	62	29	140
	08/28/92	24,000	1,300	200	68	810
	11/19/92	—	—	—	—	—
	02/03/93	620	71	35	22	110

NOTES: < = Below indicated detection limit.
 -- = Not analyzed/not sampled.

ATTACHMENT 1
STANDARD OPERATING PROCEDURES

AEGIS ENVIRONMENTAL, INC.
STANDARD OPERATING PROCEDURES
RE: 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.

AEGIS ENVIRONMENTAL, INC.
STANDARD OPERATING PROCEDURES
RE: 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.

AEGIS ENVIRONMENTAL, INC.
STANDARD OPERATING PROCEDURE
RE: 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.

AEGIS ENVIRONMENTAL, INC.
STANDARD OPERATING PROCEDURE
RE: 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 DTP measurement is made accordingly.

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.

ATTACHMENT 2

**LABORATORY REPORTS AND
CHAIN-OF-CUSTODY FORMS**

CF/SRR



February 11, 1993
Sample Log 5804

RECEIVED

MAR 03 1993

Ans'd. CF/SRR

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

Subject: Analytical Results for 12 Water Samples
Identified as: Project # 92-703 (Beacon 721)
Received: 02/04/93

Dear Ms. Richgels:

Analysis of the sample(s) referenced above has been completed. This report is written to confirm results communicated on February 11, 1993 and describes procedures used to analyze the samples.

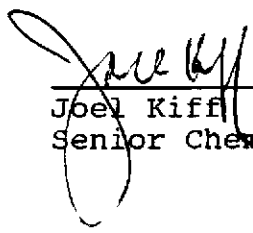
Sample(s) were received in 40-milliliter glass vials sealed with TFE lined septae and plastic screw-caps. Each sample was transported and received under documented chain of custody and stored at 4 degrees C until analysis was performed.

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:



 Joel Kiff
 Senior Chemist



Sample: MW-1

From : Project # 92-703 (Beacon 721)

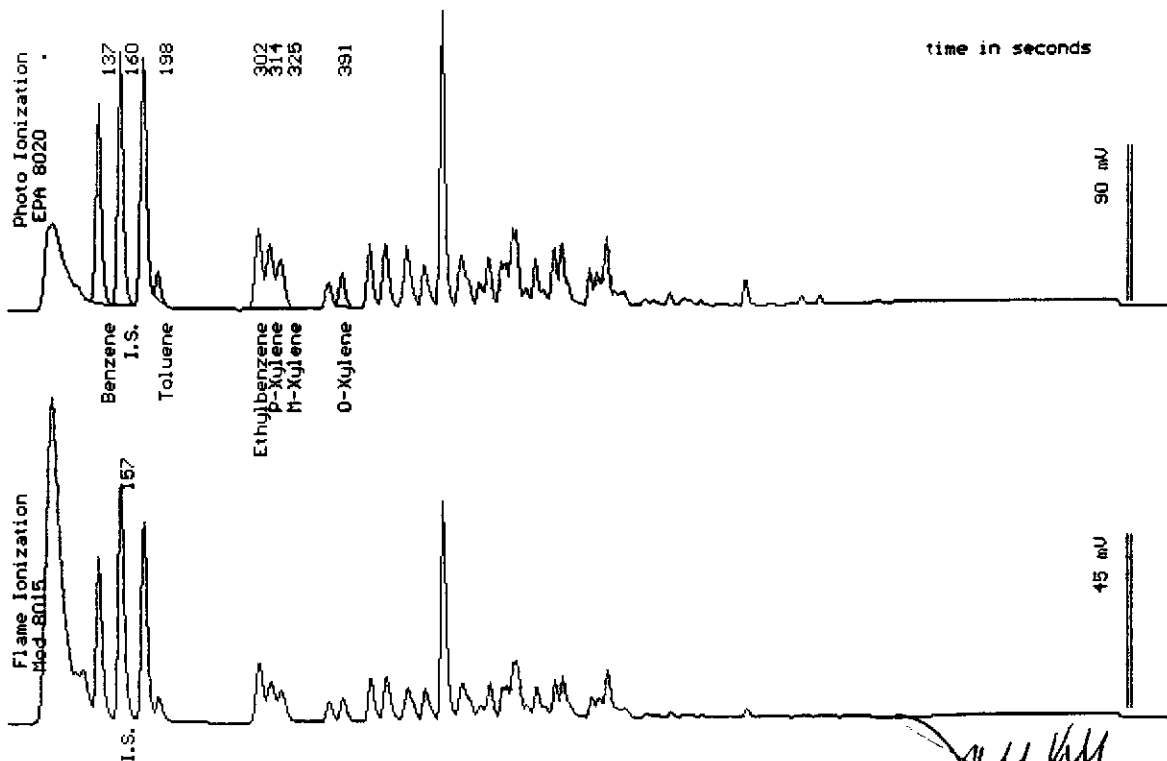
Sampled : 02/03/93

Dilution : 1:10

QC Batch : 4081j

Matrix : Water

Parameter	(MDL) ug/L	Measured Value ug/L
Benzene	(5.0)	130
Toluene	(5.0)	22
Ethylbenzene	(5.0)	79
Total Xylenes	(5.0)	130
TPH as Gasoline	(500)	3000



Date Analyzed: 02-06-93
Column : 0.53mm ID X 30m DBWAX (J&W Scientific)

Joel Kiff
Senior Chemist



Sample Log 5804

5804-2

Sample: MW-2

From : Project # 92-703 (Beacon 721)

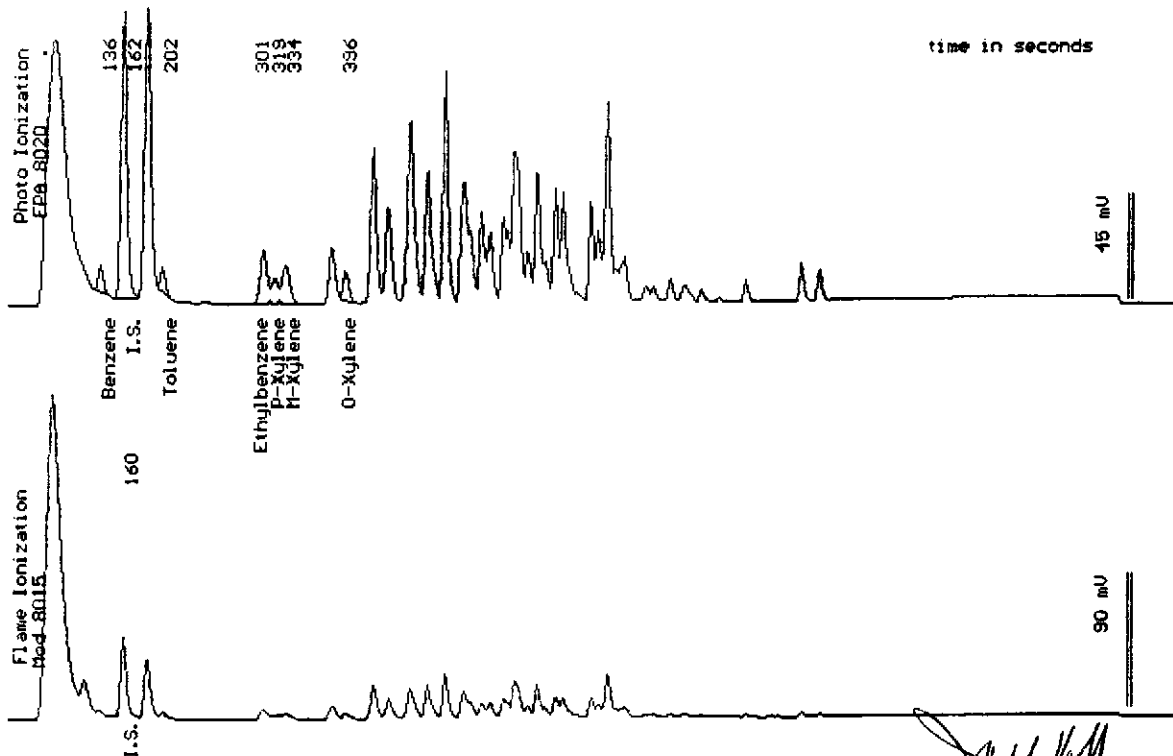
Sampled : 02/03/93

Dilution : 1:1

QC Batch : 4081i

Matrix : Water

Parameter	(MDL) ug/L	Measured Value ug/L
Benzene	(.50)	1.2
Toluene	(.50)	1.6
Ethylbenzene	(.50)	4.5
Total Xylenes	(.50)	6.4
TPH as Gasoline	(50)	590



Date Analyzed: 02-06-93
Column : 0.53mm ID X 30m DBWAX (J&W Scientific)

Joel Kiff
Senior Chemist



Sample: MW-3

From : Project # 92-703 (Beacon 721)

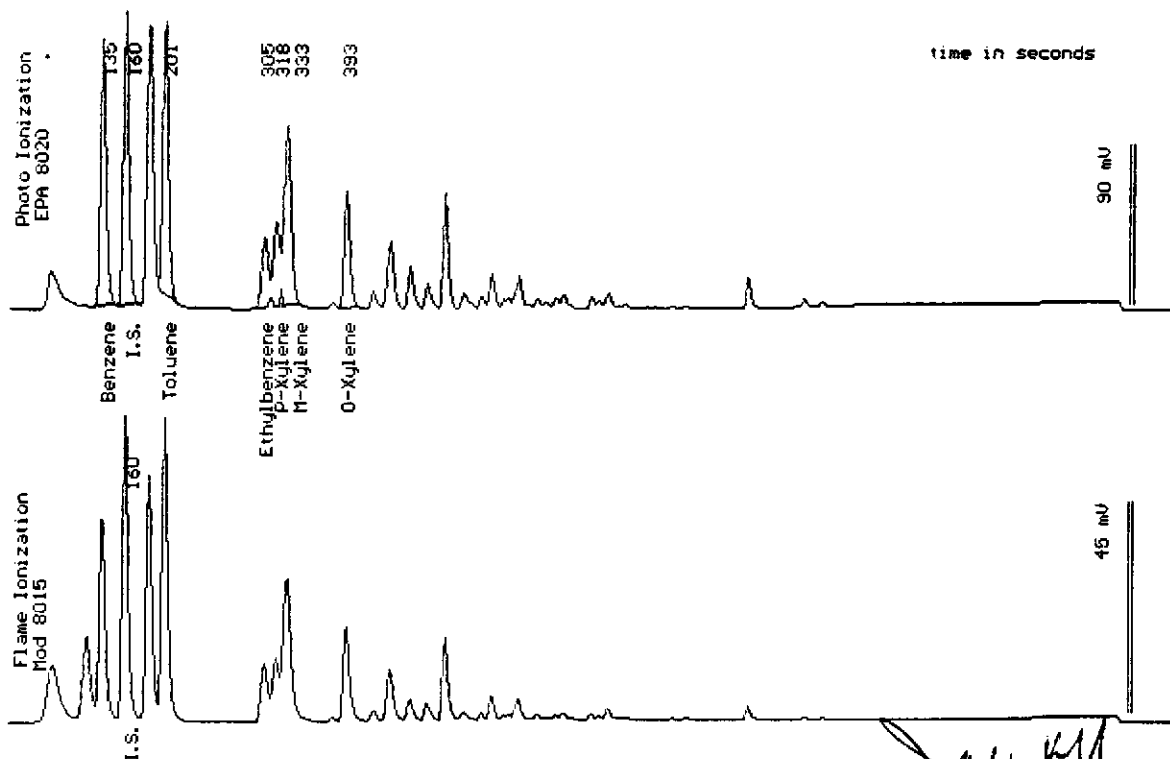
Sampled : 02/03/93

Dilution : 1:500

QC Batch : 4082i

Matrix : Water

Parameter	(MDL) ug/L	Measured Value ug/L
Benzene	(250)	7200
Toluene	(250)	11000
Ethylbenzene	(250)	2900
Total Xylenes	(250)	13000
TPH as Gasoline	(25000)	92000



Date Analyzed: 02-11-93
Column : 0.53mm ID X 30m DBWAX (J&M Scientific)

Joel Kiff
Senior Chemist



Sample Log 5804

5804-4

Sample: MW-4

From : Project # 92-703 (Beacon 721)

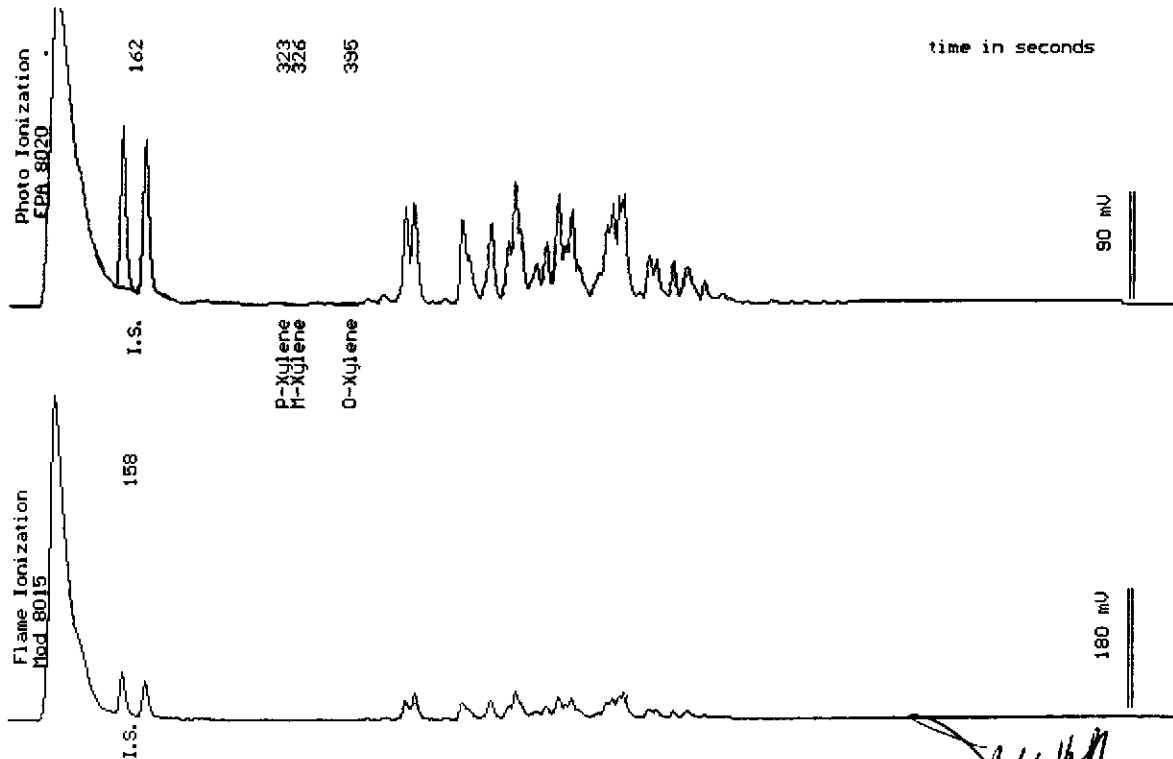
Sampled : 02/03/93

Dilution : 1:1

Matrix : Water

QC Batch : 4081i

Parameter	(MDL) ug/L	Measured Value ug/L
Benzene	(.50)	<.50
Toluene	(.50)	<.50
Ethylbenzene	(.50)	<.50
Total Xylenes	(.50)	<.50
TPH as Gasoline	(50)	1100



Date Analyzed: 02-06-93
Column : 0.53mm ID X 30m DBWAX (J&W Scientific)

Joel King
Senior Chemist



Sample Log 5804

5804-5

Sample: MW-5

From : Project # 92-703 (Beacon 721)

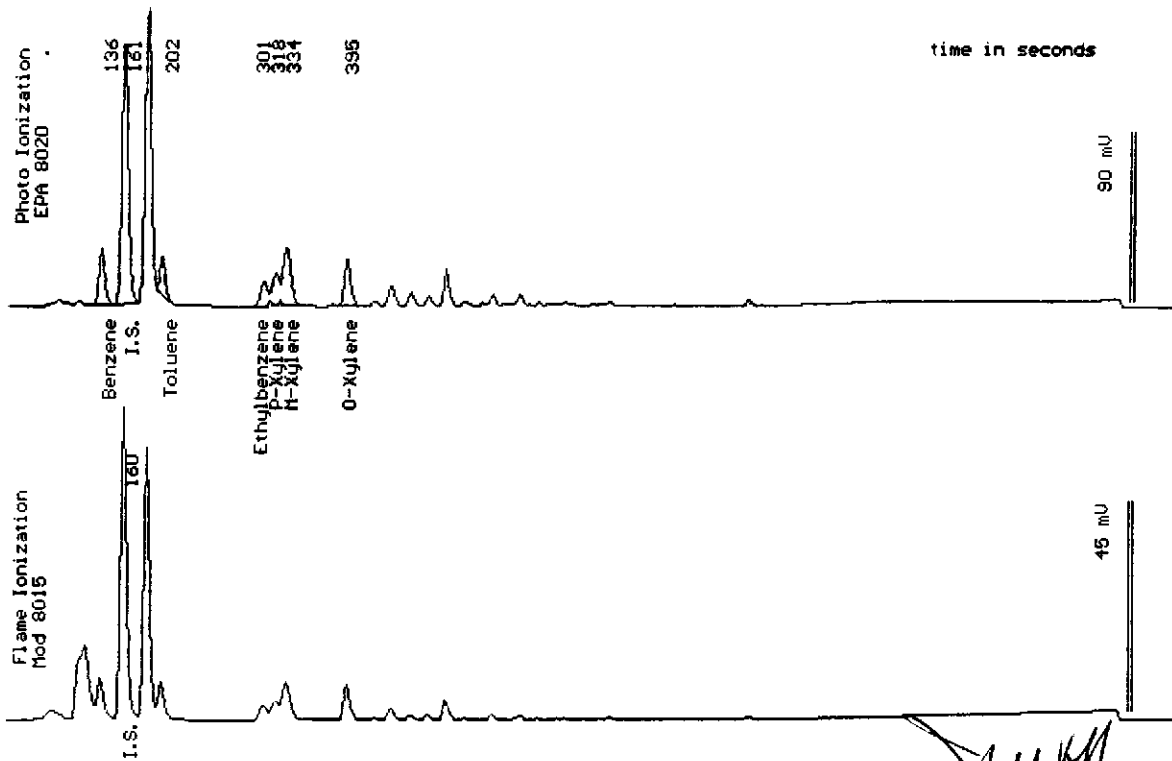
Sampled : 02/03/93

Dilution : 1:1

QC Batch : 4081i

Matrix : Water

Parameter	(MDL) ug/L	Measured Value ug/L
Benzene	(.50)	3.0
Toluene	(.50)	2.7
Ethylbenzene	(.50)	2.0
Total Xylenes	(.50)	9.9
TPH as Gasoline	(50)	55



Date Analyzed: 02-06-93
Column : 0.53mm ID X 30m DBMEX (J&M Scientific)

Joel Kiff
Senior Chemist



Sample: MW-6

From : Project # 92-703 (Beacon 721)

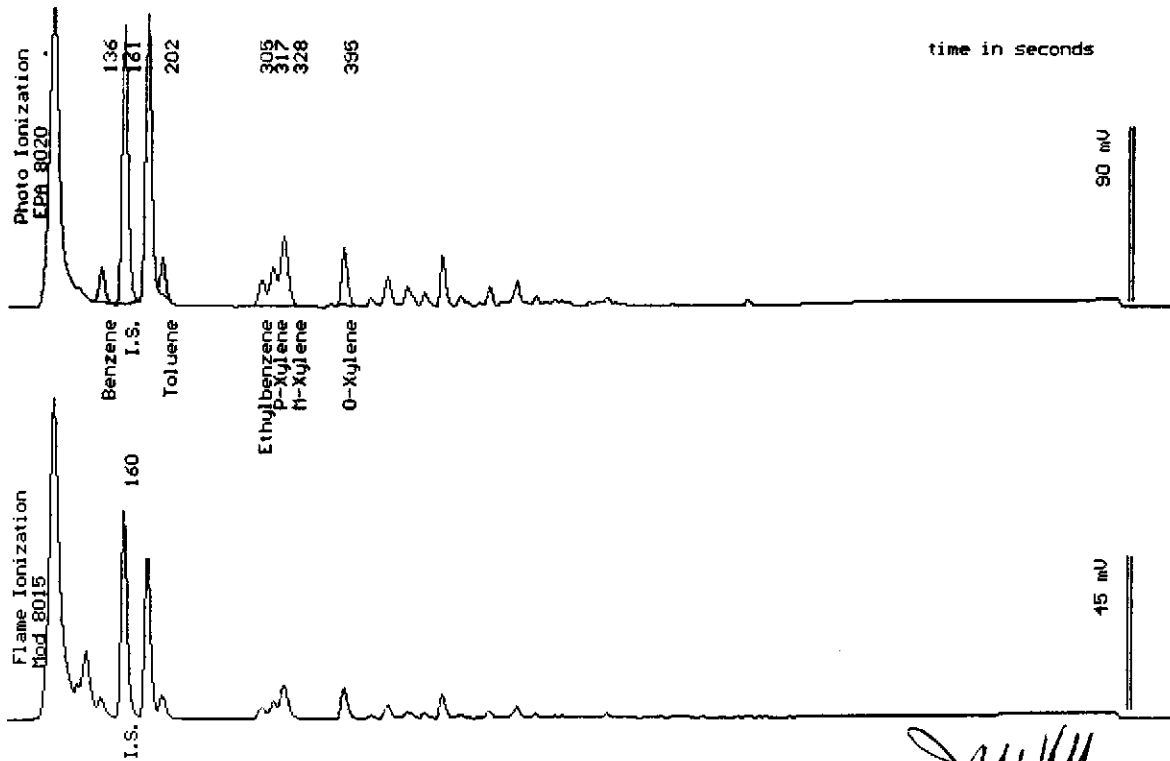
Sampled : 02/03/93

Dilution : 1:1

QC Batch : 4081i

Matrix : Water

Parameter	(MDL) ug/L	Measured Value ug/L
Benzene	(.50)	1.9
Toluene	(.50)	2.6
Ethylbenzene	(.50)	2.3
Total Xylenes	(.50)	12
TPH as Gasoline	(50)	160



Date Analyzed: 02-06-93
Column : 0.53mm ID X 30m DBWAX (J&W Scientific)

Joel Kiff
Joel Kiff
Senior Chemist



92-703
 Sample Lot ~~8004~~ RECEIVED
 5804-8

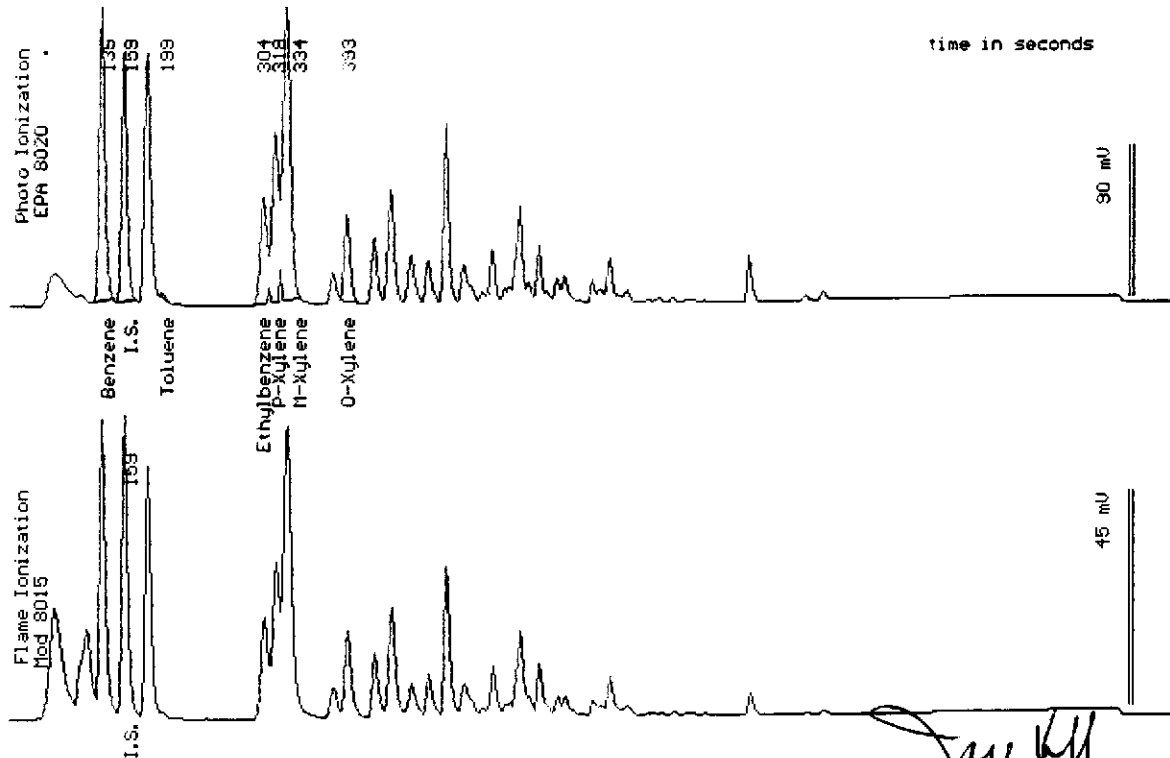
FEB 25 1993
 Ans'd. CF/SRR

Sample: MW-7

From : Project # 92-703 (Beacon 721)
 Sampled : 02/03/93
 Dilution : 1:10
 Matrix : Water

QC Batch : 4081j

Parameter	(MDL) ug/L	Measured Value ug/L
Benzene	(5.0)	200
Toluene	(5.0)	<5.0
Ethylbenzene	(5.0)	110
Total Xylenes	(5.0)	480
TPH as Gasoline	(500)	2600



Date Analyzed: 02-07-93
 Column : 0.53mm ID X 30m DB5 (J&W Scientific)

Joe Kiff
 Senior Chemist



Sample Log 5804

5804-7

Sample: MW-8

From : Project # 92-703 (Beacon 721)

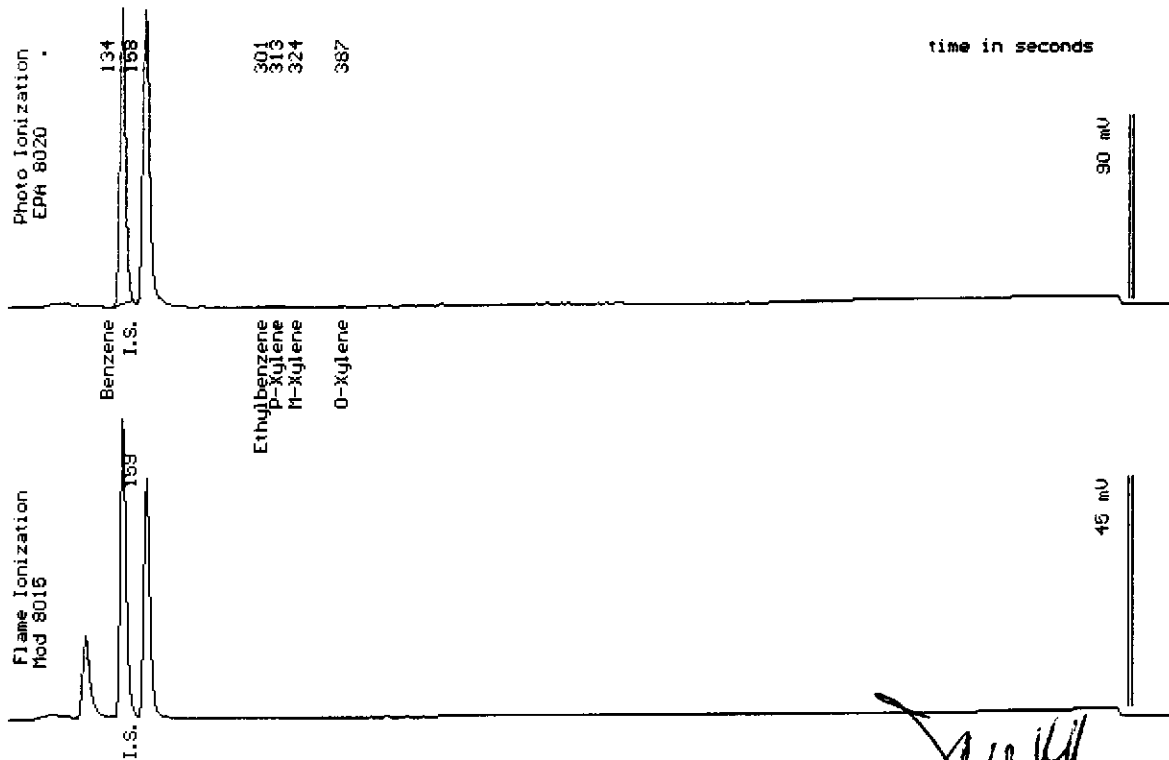
Sampled : 02/03/93

Dilution : 1:1

QC Batch : 4081i

Matrix : Water

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



Date Analyzed: 02-06-93
Column : 0.53mm ID X 30m DB5 (J&W Scientific)

Joel Kiff
Joel Kiff
Senior Chemist



Sample Log 5804

5804-9

Sample: MW-9

From : Project # 92-703 (Beacon 721)

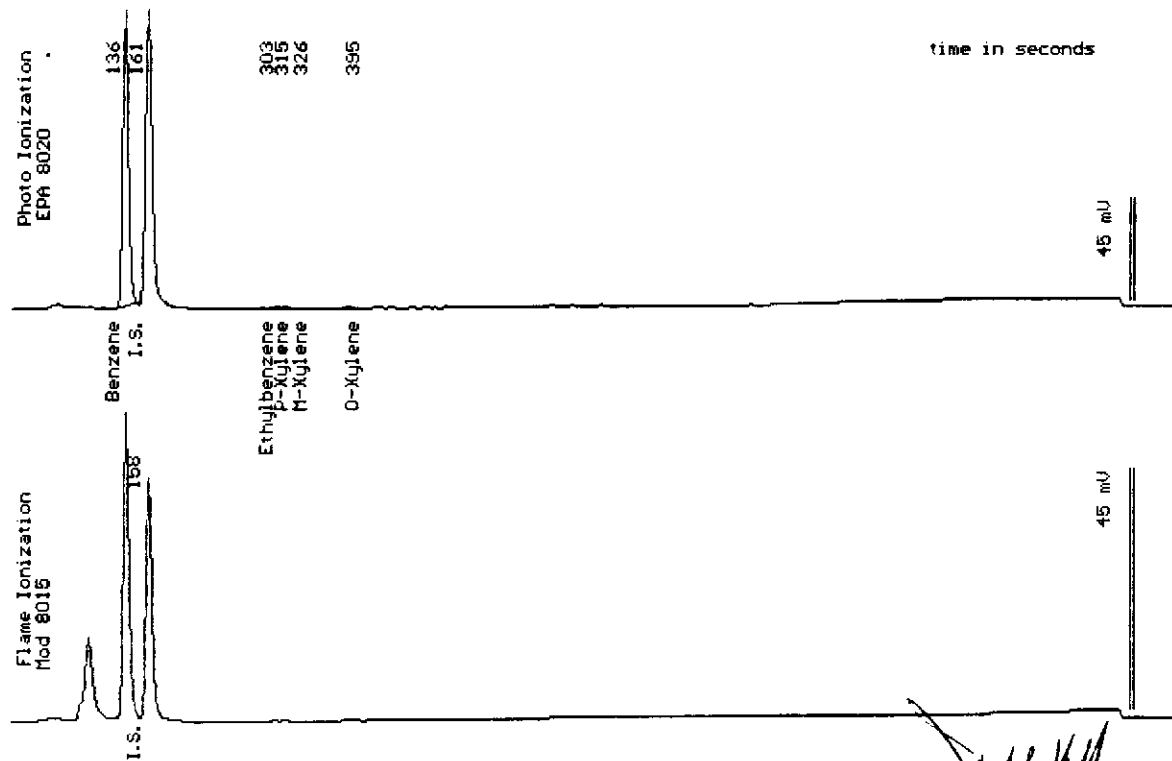
Sampled : 02/03/93

Dilution : 1:1

QC Batch : 4081i

Matrix : Water

Parameter	(MDL) ug/L	Measured Value ug/L
Benzene	(.50)	<.50
Toluene	(.50)	<.50
Ethylbenzene	(.50)	<.50
Total Xylenes	(.50)	<.50
TPH as Gasoline	(50)	<50



Date Analyzed: 02-06-93
Column : 0.53mm ID X 30m DBWAX (J&W Scientific)

Joel Kiff
Senior Chemist



Sample Log 5804

5804-10

Sample: MW-10

From : Project # 92-703 (Beacon 721)

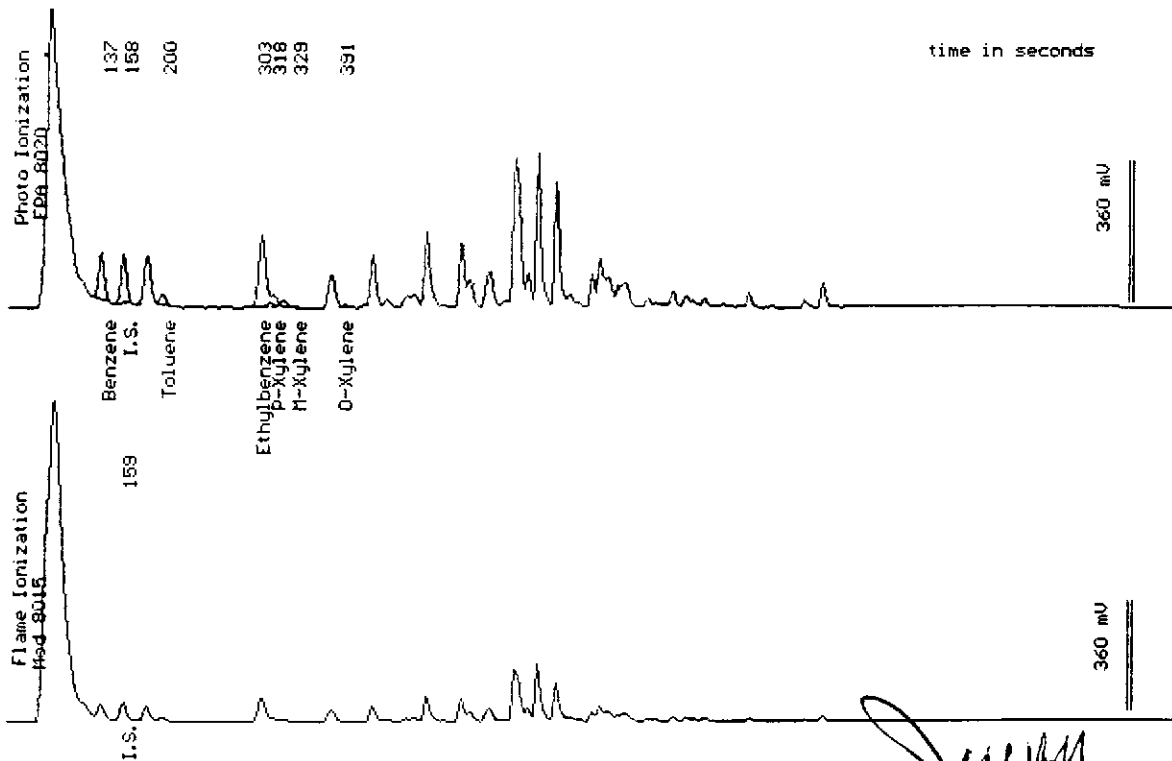
Sampled : 02/03/93

Dilution : 1:1

QC Batch : 4081ii

Matrix : Water

Parameter	(MDL) ug/L	Measured Value ug/L
Benzene	(.50)	15
Toluene	(.50)	4.6
Ethylbenzene	(.50)	36
Total Xylenes	(.50)	9.6
TPH as Gasoline	(50)	2300



Date Analyzed: 02-06-93
Column : 0.53mm ID X 30m DBMEX (J&W Scientific)

Joe Kiff
Senior Chemist



Sample Log 5804

5804-11

Sample: MW-11

From : Project # 92-703 (Beacon 721)

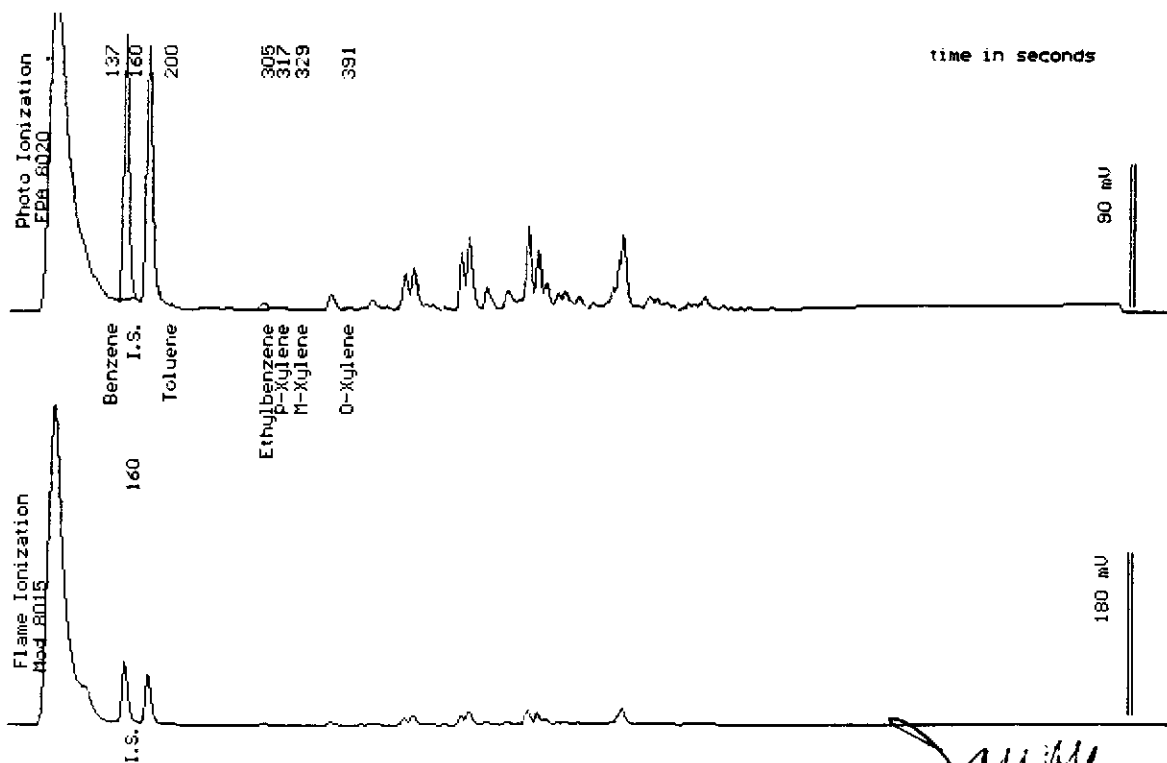
Sampled : 02/03/93

Dilution : 1:1

Matrix : Water

QC Batch : 4082h

Parameter	(MDL) ug/L	Measured Value ug/L
Benzene	(.50)	<.50
Toluene	(.50)	<.50
Ethylbenzene	(.50)	.55
Total Xylenes	(.50)	<.50
TPH as Gasoline	(50)	560



Date Analyzed: 02-10-93
Column : 0.53mm ID X 30m DBMEX (J&W Scientific)

Joel Kiff
Senior Chemist



Sample Log 5804
5804-12

Sample: RW-1

From : Project # 92-703 (Beacon 721)

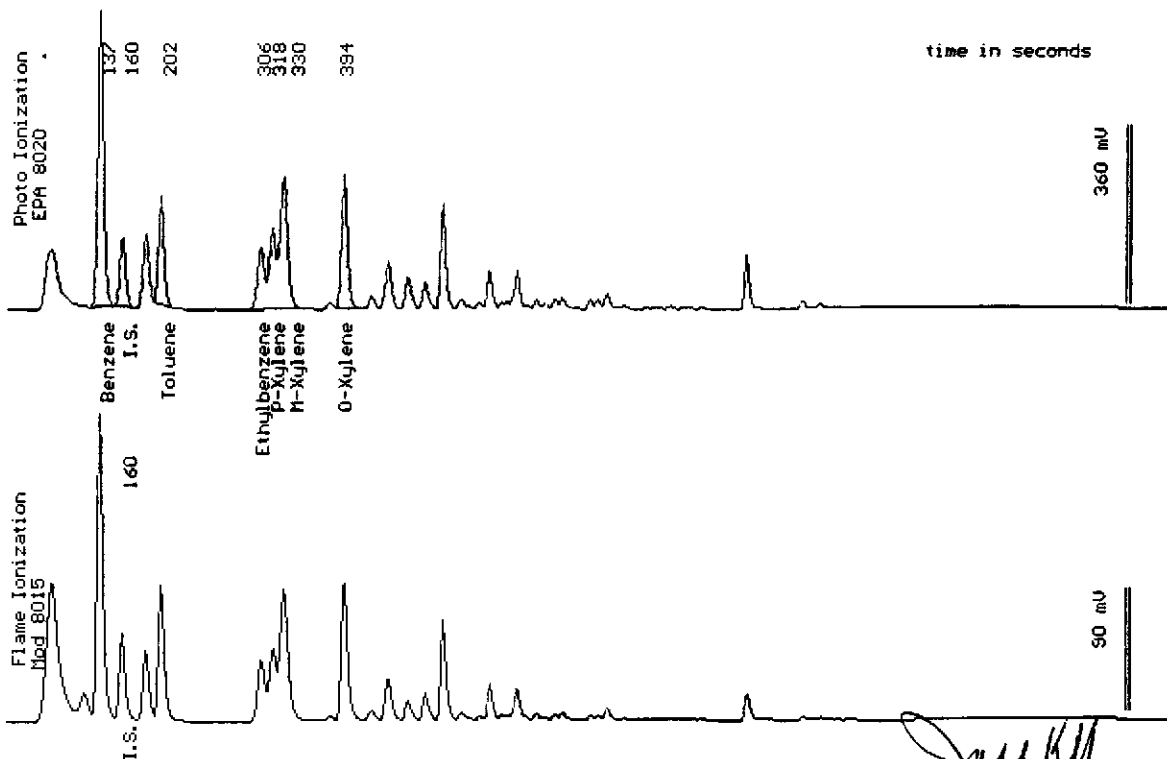
Sampled : 02/03/93

Dilution : 1:1

QC Batch : 4081j

Matrix : Water

Parameter	(MDL) $\mu\text{g/L}$	Measured Value $\mu\text{g/L}$
Benzene	(.50)	71
Toluene	(.50)	35
Ethylbenzene	(.50)	22
Total Xylenes	(.50)	110
TPH as Gasoline	(50)	620



Date Analyzed: 02-07-93
Column : 0.53mm ID X 30m DBWAX (J&W Scientific)

Joel Kiff
Senior Chemist



WEST
(916) 753-9500

Ultramar Inc.
CHAIN OF CUSTODY REPORT

BEACON

Beacon Station No. 721		Sampler (Print Name) MIKE WESLEY			ANALYSES				Date 2-4-93	Form No. / of 2
Project No. 92-703		Sampler (Signature) <i>Mike Wesley</i>			BTEX	TPH (gasoline)	TPH (diesel)			No. of Containers
Project Location 44 LEWELLING BLVD. SAN LORENZO, CA.		Affiliation Aegis Environmental								
Sample No./Identification	Date	Time	Lab No.							Please use Tri-Regional detection limits! REMARKS
✓ MW - 1	2-3-93	11:07		X	X				2	
✓ MW - 2		11:17								
✓ MW - 3		10:27								
✓ MW - 4		10:40								
✓ MW - 5		11:01								
✓ MW - 6		11:33								
✓ MW - 7		12:43								
✓ MW - 8		12:30								
Relinquished by: (Signature/Affiliation) <i>Mike Wesley</i>		Date 2/4	Time 1:55	Received by: (Signature/Affiliation) <i>Luis Dona</i>				Date 2/4/93	Time 1:55	
Relinquished by: (Signature/Affiliation) <i>Luis Dona</i>		Date 2/4/93	Time 4:05	Received by: (Signature/Affiliation) <i>[Signature]</i>				Date	Time	
Relinquished by: (Signature/Affiliation)		Date	Time	Received by: (Signature/Affiliation) <i>[Signature]</i>				Date 2/4/93	Time 16:05	
Report To: Sheila Richgels Aegis Environmental 1050 Melody Lane, Ste 160 Roseville, CA 95678		(916) 782-2110 FAX 786-7830		Bill to: ULTRAMAR INC. 525 West Third Street Hanford, CA 93230 Attention: <u>TERRY FOX</u>						

WHITE: Return to Client with Report

YELLOW: Laboratory Copy

PINK: Originator Copy



WEST
(916) 753-9500

Ultramar Inc.
CHAIN OF CUSTODY REPORT

BEACON

Beacon Station No. 721		Sampler (Print Name) MIKE WESNEY			ANALYSES				Date 2-9-93	Form No. 2 of 2	
Project No. 92-703		Sampler (Signature) <i>Mike Wesney</i>			BTEX	TPH (gasoline)	TPH (diesel)			No. of Containers	PLEASE USE TRI-REGIONAL DETECTION LIMITS.
Project Location SAN LORENZO, CA.		Affiliation AEGIS ENVIRONMENTAL									
Sample No./Identification	Date	Time	Lab No.								REMARKS
✓ MW-9	2-5-93	11:50		X	X					X	
✓ MW-10	↓	12:07		↓	↓					↓	
✓ MW-11	↓	12:13		↓	↓					↓	
✓ RW-1	↓	10:46		↓	↓					↓	
Relinquished by: (Signature/Affiliation) <i>Mike Wesney</i>		Date 2/4	Time 1:55	Received by: (Signature/Affiliation) <i>Luis Dona</i>				Date 2/4/93	Time 1:55		
Relinquished by: (Signature/Affiliation) <i>Luis Dona</i>		Date 2/4/93	Time 4:05	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 2/4/93	Time 16:00		
Report To: SHEILA RICHGELS 1050 MELODY LN. STE. 160 ROSEVILLE, CA. 95678 (916) 782-2110 FAX 786-7830				Bill to: ULTRAMAR INC. 525 West Third Street Hanford, CA 93230 Attention: <u>TERRY FOX</u>							

WHITE: Return to Client with Report

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ATTACHMENT 3
HISTORICAL WATER LEVEL DATA

TABLE 2
SUMMARY OF GROUNDWATER ELEVATION DATA

Well Number	Top of Well Casing (famsl)	Date Sampled	Depth to Water (feet)	Groundwater Surface Elevation (famsl)	Elevation Change Since Previous Measurement (feet)
MW-1	43.67	03/10/88	17.12	26.55	---
		06/14/88	18.05	25.62	-0.93
		12/05/88	19.48	24.19	-1.43
		03/08/89	18.07	25.60	1.41
		06/22/89	18.60	25.07	-0.53
		09/27/89	19.98	23.69	-1.38
		12/29/89	20.45	23.22	-0.47
		03/29/90	19.31	24.36	1.14
		06/21/90	19.69	23.98	-0.38
		09/25/90*	21.88	22.51	-1.47
		12/18/90*	20.89	23.12	0.61
		03/28/91	17.77	25.90	2.78
		06/25/91	18.60	25.07	-0.83
		09/17/91	20.14	23.53	-1.54
		11/05/91	20.40	23.27	-0.26
		02/18/92	16.42	27.25	3.98
05/14/92	17.28	26.39	-0.86		
MW-2	43.09	03/10/88	16.43	26.66	---
		06/14/88	17.35	25.74	-0.92
		12/05/88	18.79	24.30	-1.44
		03/08/89	17.31	25.78	1.48
		06/22/89	17.92	25.17	-0.61
		09/27/89	19.27	23.82	-1.35
		12/29/89	19.75	23.34	-0.48
		03/29/90	18.62	24.47	1.13
		06/21/90	19.12	23.97	-0.50
		09/25/90	20.54	22.55	-1.42
		12/18/90	20.30	22.79	0.24
		03/28/91	16.94	26.15	3.36
		06/25/91	17.95	25.14	-1.01
		09/17/91	19.50	23.59	-1.55
		11/05/91	19.73	23.36	-0.23
		02/18/92	16.65	26.44	3.08
05/14/92	16.64	26.45	0.01		
MW-3	43.10	03/10/88	16.68	26.42	---
		06/14/88	17.59	25.51	-0.91
		12/05/88	18.96	24.14	-1.37
		03/08/89	17.60	25.50	1.36
		06/22/89	18.11	24.99	-0.51

TABLE 2
SUMMARY OF GROUNDWATER ELEVATION DATA

Well Number	Top of Well Casing (famsl)	Date Sampled	Depth to Water (feet)	Groundwater Surface Elevation (famsl)	Elevation Change Since Previous Measurement (feet)
MW-3 Cont'd		09/27/89	19.47	23.63	-1.36
		12/29/89*	19.97	23.13	-0.50
		3/29/90*	17.60	25.53	2.40
		06/21/90	19.35	23.75	-1.78
		9/25/90*	20.72	22.41	-1.34
		12/18/90*	21.42	22.00	-0.41
		03/28/91	17.45	25.85	3.85
		06/25/91	18.12	25.01	-0.84
		9/17/91*	19.55	23.55	-1.46
		11/05/91	19.98	23.12	-0.43
		02/18/92	16.89	26.21	3.09
		05/14/92	16.80	26.30	0.09
		MW-4	44.66	12/05/88	20.47
03/08/89	19.03			25.63	1.44
06/22/89	19.57			25.09	-0.54
09/27/89	20.98			23.68	-1.41
12/29/89	21.43			23.23	-0.45
03/29/90	20.29			24.37	1.14
06/21/90	20.78			23.88	-0.49
09/25/90	22.24			22.42	-1.46
12/18/90	22.18			22.48	0.06
03/28/91	18.79			25.87	3.39
06/25/91	19.59			25.07	-0.80
09/17/91	21.15			23.51	-1.56
11/05/91	21.41			23.25	-0.26
02/18/92	18.51	26.15	2.90		
05/14/92	18.22	26.44	0.29		
MW-5	43.79	12/05/88	19.48	24.31	--
		03/08/89	18.00	25.79	1.48
		06/22/89	18.60	25.19	-0.60
		09/27/89	20.00	23.79	-1.40
		12/29/89	20.43	23.36	-0.43
		03/29/90	19.24	24.55	1.19
		06/21/90	19.82	23.97	-0.58
		09/25/90	21.23	22.56	-1.41
		12/18/90	21.04	22.75	0.19
		03/28/91	17.69	26.10	3.35
		06/25/91	18.62	25.17	-0.93

TABLE 2
SUMMARY OF GROUNDWATER ELEVATION DATA

Well Number	Top of Well Casing (famsl)	Date Sampled	Depth to Water (feet)	Groundwater Surface Elevation (famsl)	Elevation Change Since Previous Measurement (feet)
MW-5 (Con't)		09/17/91	20.23	23.56	-1.61
		11/05/91	20.43	23.36	-0.20
		02/18/92	17.37	26.42	3.06
		05/14/92	17.29	26.50	0.08
MW-6	42.47	12/05/88	17.99	24.48	--
		03/08/89	16.75	25.72	-1.24
		06/22/89	17.30	25.17	-0.55
		09/27/89	18.64	23.83	-1.34
		12/29/89	19.16	23.31	-0.52
		03/29/90	18.04	24.43	1.12
		06/21/90	18.53	23.94	-0.49
		09/25/90	19.91	22.56	-1.38
		12/18/90	20.61	21.86	-0.70
		03/28/91	16.29	26.18	4.32
		06/25/91	17.36	25.11	-1.07
		09/17/91	18.89	23.58	-1.53
		11/05/91	19.07	23.40	-0.18
		02/18/92	15.87	26.60	3.20
05/14/92	16.04	26.43	-0.17		
MW-7	41.54	12/05/88	17.61	23.93	--
		03/08/89	16.27	25.27	1.34
		06/22/89	16.72	24.82	-0.45
		09/27/89	17.99	23.55	-1.27
		12/29/89	18.54	23.00	-0.55
		03/29/90	17.43	24.11	1.11
		06/21/90	17.88	23.66	-0.45
		09/25/90	19.12	22.42	-1.24
		12/18/90	19.16	22.38	-0.04
		03/28/91	16.04	25.50	3.12
		06/25/91	16.66	24.88	-0.62
		09/17/91	17.99	23.55	-1.33
		11/05/91	18.33	23.21	-0.34
		02/18/92	15.51	26.03	2.82
05/14/92	15.41	26.13	0.10		
MW-8	42.26	09/27/89	18.89	23.37	--
		12/29/89	19.45	22.81	-0.56
		03/29/90	18.39	23.87	1.06

TABLE 2
SUMMARY OF GROUNDWATER ELEVATION DATA

Well Number	Top of Well Casing (famsl)	Date Sampled	Depth to Water (feet)	Groundwater Surface Elevation (famsl)	Elevation Change Since Previous Measurement (feet)
MW-8 (Con't)		06/21/90	18.80	23.46	-0.41
		09/25/90	20.10	22.16	-1.30
		12/18/90	20.13	22.13	-0.03
		03/28/91	17.14	25.12	2.99
		06/25/91	17.45	24.81	-0.31
		09/17/91	18.81	23.45	-1.36
		11/05/91	19.14	23.12	-0.33
		02/18/92	16.57	25.69	2.57
		05/14/92	16.24	26.02	0.33
MW-9	44.94	09/27/89	21.38	23.56	---
		12/29/89	21.76	23.18	-0.38
		03/29/90	20.58	24.36	1.18
		06/21/90	21.11	23.83	-0.53
		09/25/90	22.60	22.34	-1.49
		12/18/90	22.56	22.38	0.04
		03/28/91	19.13	25.81	3.43
		06/25/91	19.90	25.04	-0.77
		09/17/91	21.49	23.45	-1.59
		11/05/91	21.75	23.19	-0.26
		02/18/92	18.87	26.07	2.88
	05/14/92	18.55	26.39	0.32	
MW-10	42.34	11/05/91	19.28	23.06	---
		02/18/92	16.63	25.71	2.65
		05/14/92	15.25	27.09	1.38
MW-11	45.00	11/05/91	22.11	22.89	---
		02/18/92	17.00	26.17	3.28
		05/14/92	19.02	25.98	-0.19

TABLE 2
SUMMARY OF GROUNDWATER ELEVATION DATA

Well Number	Top of Well Casing (famsl)	Date Sampled	Depth to Water (feet)	Groundwater Surface Elevation (famsl)	Elevation Change Since Previous Measurement (feet)
RW-1		05/14/92	16.88	26.29	---

NOTE: All available water elevation data were recalculated to present wellhead elevations as reported by Ronald R. Archer, Surveyor, on November 6, 1991

1. famsl = feet above mean sea level
2. * = groundwater elevations for these quarters were corrected for the presence of floating gasoline product using the equation:

$$GWE = WE - [DTW - (PT \times 0.8)]$$

Where:

- GWE = Groundwater elevation in feet above mean sea level
- WE = Well elevation at top of casing
- DTW = Depth to water from top of casing in feet
- PT = Product thickness in feet
- 0.8 = Assumed difference in specific gravities between water and gasoline

ATTACHMENT 4
HISTORICAL ANALYTICAL DATA

TABLE 1
SUMMARY OF GROUNDWATER ANALYSES AND MONITORING DATA
(May 14-15, 1992)

Sample Number	Date Collected	TPHG ppb	Benzene ppb	Toluene ppb	Ethyl Benzene ppb	Total Xylenes ppb	Well Elevation fmsl	DTW ¹ feet	Water ¹ Elevation fmsl
MW-1	5/15/92	41,000	2,000	47	200	400	43.67	17.28	26.39
MW-2	5/14/92	740	1.2	1.0	1.3	ND	43.09	16.64	26.45
MW-3	5/15/92	160,000	6,300	5,900	1,700	6,100	43.10	16.80	26.30
MW-4	5/14/92	4,600	ND	5.6	1.8	2.2	44.66	18.22	26.44
MW-5	5/14/92	ND	ND	ND	ND	ND	43.79	17.29	26.50
MW-6	5/14/92	120	ND	ND	ND	ND	42.47	16.04	26.43
MW-7	5/14/92	1,500	44	ND	36	88	41.54	15.41	26.13
MW-8	5/14/92	130	ND	ND	ND	ND	42.26	16.24	26.02
MW-9	5/14/92	ND	ND	ND	ND	ND	44.94	18.55	26.39
MW-10	5/15/92	8,500	24	9.8	97	ND	42.34	15.25	27.09
MW-11	5/15/92	1,600	ND	1.9	1.3	0.7	45.00	19.02	25.98 ¹
RW-1	5/15/92	790	270	62	29	140	43.17	16.88	26.29
BB-1	5/15/92	ND	ND	ND	ND	ND	---	---	---

ppb Parts per billion
 fmsl Feet above mean sea level
 ND None detected
 DTW Depth to water
 --- No data available
 * Water elevation not used for groundwater elevation contour map
 NS Not sampled
¹ Data from 5/14/92
 BB-1 Bailor blank

TABLE 3

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well No.	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl Benzene (ppb)	Xylenes (ppb)	TPHG (ppb)	Comments
MW-1	05/29/87	490	150	930	3,790	18,050	
	07/14/87	560	120	950	3,270	14,750	
	08/17/87	630	40	320	1,130	12,860	
	09/01/87	558	84	562	1,942	14,269	
	12/10/87	200	138	273	777	14,000	
	03/10/88	70	40	340	940	7,300	
	06/14/88	290	ND	330	790	34,000	
	12/05/88	100	16	140	310	4,000	
	03/08/89	670	20	580	1,200	9,100	Sheen
	06/22/89	1,000	20	1,200	2,200	12,000	Sheen
	09/27/89	960	9	260	360	6,800	
	12/29/89	210	33	1,200	250	4,800	
	03/29/90	1,100	42	510	1,800	14,000	
	06/21/90	1,400	ND	160	130	7,900	
	09/25/90	NS	NS	NS	NS	NS	0.9 ft free-product
	12/18/90	NS	NS	NS	NS	NS	0.4 ft free-product
	03/28/91	230	75	570	2,000	26,000	Sheen
	06/25/91	970	35	300	610	22,000	
	09/17/91	490	150	250	370	16,000	
	11/05/91	420	45	410	780	35,000	Sheen
02/18/92	NS	NS	NS	NS	NS	Sheen	
05/15/92	2,000	47	200	400	41,000	Sheen	
MW-2	05/29/87	113	14	46	58	4,870	
	07/14/87	103	25	34	48	2,207	
	08/17/87	37.6	10.9	8.2	11.1	756	
	09/01/87	75.3	14.2	16.4	27.6	1,482	
	12/10/87	28	40.6	38.1	100.3	1,800	
	03/10/88	9.2	3.1	7.3	2.6	1,200	
	06/14/88	ND	ND	2.2	5.7	500	
	12/05/88	ND	1.3	5.6	3.6	500	
	03/08/89	ND	1.3	3.5	3.7	730	
	06/22/89	ND	ND	ND	ND	570	
	09/27/89	3.8	0.64	2.9	54	420	
	12/29/89	6.7	2	5.7	2.9	270	
	03/29/90	10	0.88	10	3.3	420	
	06/21/90	ND	ND	4	ND	650	
	09/25/90	ND	1.5	3.5	1.5	680	
12/18/90	ND	1.7	2.2	0.6	500		

TABLE 3

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well No.	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl Benzene (ppb)	Xylenes (ppb)	TPHG (ppb)	Comments
MW-2 (cont)	03/28/91	ND	2.2	2.7	1.1	730	
	06/25/91	ND	ND	ND	1.2	610	
	09/17/91	ND	ND	2.5	1.2	820	
	11/05/91	ND	ND	1.1	ND	700	
	02/18/92	ND	ND	1.9	ND	1600	
	05/14/92	1.2	1.0	1.3	ND	740	
MW-3	05/29/87	5,400	3,900	1,700	5,200	40,300	
	07/14/87	6,880	7,080	1,580	4,770	30,320	
	08/17/87	5,930	4,180	1,240	3,370	25,620	
	09/01/87	8,540	6,660	1,020	3,740	38,210	
	12/10/87	4,240	2,350	890	1,860	25,000	
	03/10/88	3,210	950	940	950	13,400	
	06/14/88	5,900	7,600	450	4,600	54,000	
	12/05/88	4,200	2,400	1,000	3,100	19,000	
	03/08/89	11,000	9,400	2,300	9,900	53,000	Sheen
	06/22/89	16,000	5,900	2,100	6,600	60,000	Sheen
	09/27/89	8,100	2,800	1,200	4,300	34,000	
	12/29/89	NS	NS	NS	NS	NS	0.02 ft free-product
	03/29/90	NS	NS	NS	NS	NS	0.04 ft free-product
	06/21/90	19,000	22,000	22,000	120,000	2,100,000	
	09/25/90	NS	NS	NS	NS	NS	0.04 ft free-product
	12/18/90	NS	NS	NS	NS	NS	0.42 ft free-product
	03/28/91	NS	NS	NS	NS	NS	0.25 ft free-product
	06/25/91	NS	NS	NS	NS	NS	0.02 ft free-product
	09/17/91	NS	NS	NS	NS	NS	0.44 ft free-product
	11/05/91	NS	NS	NS	NS	NS	Sheen
02/18/92	NS	NS	NS	NS	NS	Sheen	
05/15/92	6,300	5,900	1,700	6,100	160,000	Sheen	
MW-4	12/05/88	ND	ND	2.3	6.5	4,500	
	03/08/89	ND	ND	ND	ND	3,900	
	06/22/89	ND	ND	ND	ND	1,500	
	09/27/89	11	ND	ND	ND	1,200	
	12/29/89	ND	2.1	2.3	ND	920	
	03/29/90	ND	ND	8	ND	870	
	06/21/90	ND	ND	ND	ND	1,500	
	09/25/90	ND	11	4.6	6	3,100	
	12/18/90	ND	4.4	15	6.3	3,600	

TABLE 3

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well No.	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl Benzene (ppb)	Xylenes (ppb)	TPHG (ppb)	Comments
MW-4 (Con't)	03/28/91	8.9	4.4	4.4	2.2	2,000	
	06/25/91	ND	5.4	1.7	ND	2,000	
	09/17/91	ND	ND	0.8	ND	2,300	
	11/05/91	ND	ND	3.2	1.1	3,500	
	02/18/92	ND	ND	12	21	5,100	
	05/14/92	ND	5.6	1.8	2.2	4,600	
MW-5	12/05/88	ND	0.78	0.23	0.92	3.9	
	03/08/89	2.7	6.7	2.7	15	58	
	06/22/89	0.91	ND	ND	ND	5	
	09/27/89	1.3	ND	ND	ND	5.3	
	12/29/89	ND	ND	ND	ND	ND	
	03/29/90	ND	ND	ND	ND	ND	
	06/21/90	ND	ND	ND	ND	12	
	09/25/90	ND	ND	ND	ND	ND	
	12/18/90	ND	ND	ND	ND	ND	
	03/28/91	ND	ND	ND	ND	ND	
	06/25/91	ND	ND	ND	ND	ND	
	09/17/91	ND	ND	ND	ND	ND	
	11/05/91	ND	ND	ND	ND	ND	
	02/18/92	ND	ND	ND	ND	ND	
05/14/92	ND	ND	ND	ND	ND		
MW-6	12/05/88	4	1.3	0.63	1.3	190	
	03/08/89	2.2	ND	ND	1.1	23	
	06/22/89	0.82	2.6	0.18	1.2	57	
	09/27/89	0.2	0.24	ND	ND	2.1	
	12/29/89	ND	ND	ND	ND	ND	
	03/29/90	2.1	ND	ND	ND	12	
	06/21/90	ND	ND	ND	ND	ND	
	09/25/90	1.4	ND	ND	ND	98	
	12/18/90	2.2	ND	ND	ND	200	
	03/28/91	3.5	ND	ND	ND	140	
	06/25/91	ND	ND	ND	ND	95	
	09/17/91	ND	ND	ND	ND	ND	
	11/05/91	ND	ND	ND	ND	130	
	02/18/92	4.8	ND	ND	ND	370	
05/14/92	ND	ND	ND	ND	120		

TABLE 3

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well No.	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl Benzene (ppb)	Xylenes (ppb)	TPHG (ppb)	Comments
MW-7	12/05/88	140	150	40	370	1,500	
	03/08/89	730	72	180	370	2,400	
	06/22/89	570	43	180	220	2,000	
	09/27/89	420	5.9	140	28	1,400	
	12/29/89	87	3.5	18	15	150	
	03/29/90	110	40	53	150	530	
	06/21/90	620	34	290	400	4,100	
	09/25/90	49	2.4	30	42	750	
	12/18/90	74	4.5	25	69	510	
	03/28/91	53	0.8	24	24	500	
	06/25/91	23	ND	32	37	570	
	09/17/91	79	1	89	100	1,400	
	11/05/91	52	ND	76	58	1,100	
	02/18/92	16	ND	10	16	670	
	05/14/92	44	ND	36	88	1,500	
MW-8	09/27/89	ND	ND	16	ND	4,200	
	12/29/89	ND	3.2	18	ND	2,800	
	03/29/90	ND	ND	19	ND	2,600	
	06/21/90	ND	ND	13	ND	4,600	
	09/25/90	2.3	22	16	26	4,500	
	12/18/90	0.7	6	9.7	2.3	1,100	
	03/28/91	2.6	4.6	3.2	3.1	1,600	
	06/25/91	ND	ND	2.5	1.3	760	
	09/17/91	ND	ND	13	3.9	1,900	
	11/05/91	ND	ND	15	ND	1,400	
	02/18/92	ND	ND	9.5	ND	1,200	
05/14/92	ND	ND	ND	ND	130		
MW-9	09/27/89	ND	ND	ND	ND	25	
	12/29/89	ND	ND	ND	2.5	11	
	03/29/90	ND	ND	ND	ND	ND	
	06/21/90	ND	ND	ND	ND	ND	
	09/25/90	ND	ND	ND	ND	ND	
	12/18/90	ND	ND	ND	ND	100	
	03/28/91	ND	ND	ND	ND	ND	
	06/25/91	ND	ND	ND	ND	ND	
	09/17/91	ND	ND	ND	ND	ND	

TABLE 3

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well No.	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl Benzene (ppb)	Xylenes (ppb)	TPHG (ppb)	Comments
MW-9 (Con't)	11/05/91	ND	ND	ND	ND	ND	
	02/18/92	ND	ND	ND	ND	ND	
	05/14/92	ND	ND	ND	ND	ND	
MW-10	11/05/91	29	140	500	320	27,000	
	02/18/92	110	57	440	63	18,000	
	05/15/92	24	9.8	97	ND	8,500	
MW-11	11/05/91	ND	ND	ND	ND	890	
	02/18/92	ND	ND	ND	ND	2,400	
	05/15/92	ND	1.9	1.3	0.7	1,600	
RW-1	11/13/91	74	68	7	99	1,600	
	05/15/92	270	62	29	140	790	

1. TPHG Total petroleum hydrocarbons as gasoline
2. ND - Not detected
3. NS - Not sampled
4. Samples prior to December 1988 collected by Applied GeoSystems
5. Sample from December 1988 through December 1990 collected by DuPont Environmental
6. Sample from March 1991 through September 1991 collected by Groundwater Technology

ATTACHMENT 5
FIELD DATA SHEETS

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

Project Address: Beacon - 44 Lewelling, San Lorenzo - 721

Date: 2-5-78

Recorded by: Mike Wesley

Project No.: 92-703

Well No.	Time	Measured Total Depth	Depth to Gr. Water	Depth to Product	Product Thickness	Comments (TOC/TOB) (product skimmer in well)
MW-1	9:54	31.11	15.91	N/A	N/A	
MW-2	10:01	32.73	15.23			
MW-3	9:55	29.52	15.43			Hand skimmer product in well. 02
MW-4	9:57	24.53	16.98			
MW-5	9:59	29.19	15.91			
MW-6	10:03	28.64	14.60			
MW-7	12:42	24.23	14.10			
MW-8	10:05	23.19	14.37			
MW-9	11:37	23.52	17.25			
MW-10	11:50	29.55	15.01			
MW-11	12:00	29.42	17.71			
RW-1	9:52	36.36	15.48	✓	✓	

Notes:



Client: BEACON #721
Site: 44 LEWELLING Blvd

Project No: 92-703
Well Designation: mwl

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

Sampled with disposal bailer or other: _____
Well recharged to 80% recovery.

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

Depth of well: 31.11 Calculated purge: 10 gal
Depth to water: 15.91 Actual purge: 10 gal

Start purge: 10:50 Sampling time: 11:07 Sampling Date: 2-3-97

Time	Temp.	E.C.	pH	Turbidity	Volume
10:53	68.7	820 us	6.31		4
10:56	69.4	820 us	6.28		7
10:59	69.7	822 us	6.25		10

Sample appearance: Some Cloudy

QC samples collected at this well: _____

Lock: 3753

Remarks: Hand Bailed w/Disp

Signature

Mike W. Jooney

Review

OK



AEGIS ENVIRONMENTAL, INC.

SAMPLING INFORMATION SHEET

Client: BEACON #721
Site: 44 LEWELLING Blvd

Project No: 92-703
Well Designation: mwd2

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

Sampled with disposal bailer or other: _____
Well recharged to 80% recovery.

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

Depth of well: 32.73 Calculated purge: 129 gal
Depth to water: 15.23 Actual purge: 129 gal

Start purge: 11:05 Sampling time: 11:17 Sampling Date: 2-3-93

Time	Temp.	E.C.	pH	Turbidity	Volume
11:08	73.3	867.03	6.74		8
11:11	73.4	865.00	6.75		10
11:12	73.9	869.00	6.73		12

Sample appearance: sem. clear

QC samples collected at this well: _____ Lock: 3753

Remarks: Hand Bailed 2 gal w/ 2" Dis. Bailer

Signature Mike W... Review OK



Client: BEACON #721
Site: 44 LEWELLING Blvd

Project No: 92-703
Well Designation: mw3

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

Sampled with disposal bailer or other: _____
Well recharged to 80% recovery.

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

Depth of well: 29.52 Calculated purge: 109.1
Depth to water: 15.43 Actual purge: 79.1

Start purge: 10:07 Sampling time: 10:27 Sampling Date: 2-3-93

Time	Temp.	E.C.	pH	Turbidity	Volume
10:10	70.4	180.03	6.78		3
10:13	71.0	180.03	6.75		6
10:14	Dry	7 gal			

Sample appearance: clear

QC samples collected at this well: _____

Lock: 3753

Remarks: Hand Bailed Well w/ Disp Product stabilized
.02 w/ 0.10' Confirmed w/ OBS showed Product entire Cas. w/
checked w. th back .03 Reading

Signature Mike W. [unclear] Review OK



AEGIS ENVIRONMENTAL, INC.

SAMPLING INFORMATION SHEET

Client: BEACON = 721
Site: 44 LEWELLING Blvd

Project No: 92-703
Well Designation: mw14

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

Sampled with disposal bailer or other: _____
Well recharged to 80% recovery.

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

Depth of well: 24.53 Calculated purge: 520
Depth to water: 16.98 Actual purge: 100

Start purge: 10:30 Sampling time: 10:40 Sampling Date: 2-2-90

Time	Temp.	E.C.	pH	Turbidity	Volume
10:32	73.4	5.84 us	6.78		2
10:33	73.0	5.62 us	6.99		3
10:34	73.1	5.60 us	7.0		4
10:35	73.0	5.61 us	7.01		5

Sample appearance: clear

QC samples collected at this well: _____

Lock: 8753

Remarks: Hand Bailed with a 2" PVC bailer on RW1

Signature

Mike Loomis

Review

OK



Client: BEACON #30
Site: 44 LEWELLING Blvd

Project No: 92-703
Well Designation: mws

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

Sampled with disposal bailer or other: _____
Well recharged to 80% recovery.

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

Depth of well: 29.19 Calculated purge: 9 gal
Depth to water: 15.91 Actual purge: 9 gal

Start purge: 10:48 Sampling time: 11:01 Sampling Date: 2/3/93

Time	Temp.	E.C.	pH	Turbidity	Volume
10:49	69.8	6.35 us	6.64		5
10:50	70.1	6.30 us	6.60		8
10:52	70.2	6.24 us	6.60		9

Sample appearance: See Chart

QC samples collected at this well: _____

Lock: 3753

Remarks: Hand Dated last Purge w/ Disp. Bailer

Signature

Mike Womney

Review

OK



Client: BEACON #721
Site: 44 LEWELLING Blvd

Project No: 92-703
Well Designation: mw6

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

Sampled with disposal bailer or other: _____
Well recharged to 80% recovery.

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

Depth of well: 28.00
Depth to water: 14.60
Calculated purge: 1090l
Actual purge: 490l

Start purge: 11:19 Sampling time: 11:33 Sampling Date: 2-3-93

Time	Temp.	E.C.	pH	Turbidity	Volume
11:20	5.4	390l			
11:21	72.2	767.05	5.75		490l

Sample appearance: sem. cloudy

QC samples collected at this well: _____ Lock: 3753

Remarks: Hand Bailed Apr 1991 w/ Dip of Perm. zone water!

Signature Mike Hoamey Review OK



AEGIS ENVIRONMENTAL, INC.

SAMPLING INFORMATION SHEET

Client: BEACON #721
Site: 44 LEWELLING Blvd

Project No: 92-703
Well Designation: mwb

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

Sampled with disposal bailer or other: _____
Well recharged to 80% recovery.

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

Depth of well: 23.19 Calculated purge: 5921
Depth to water: 14.87 Actual purge: 5921

Start purge: 12:19 Sampling time: 12:30 Sampling Date: 2-3-93

Time	Temp.	E.C.	pH	Turbidity	Volume
12:21	71.7	73900	5.67		3
12:22	72.4	73700	5.70		4
12:24	72.8	73600	5.73		5

Sample appearance: sem. cloudy

QC samples collected at this well: _____ Lock: 3753

Remarks: Hand Bailed Well w/ Disp Bailer

Signature Mike W. James Review OK



Client: BEACON
Site: 44 LEWELLING Blvd

Project No: 92-703
Well Designation: mw9

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

Sampled with disposal bailer or other: _____
Well recharged to 80% recovery.

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

Depth of well: 23.52
Depth to water: 17.25
Calculated purge: 490
Actual purge: 490

Start purge: 11:39 Sampling time: 11:50 Sampling Date: 2-3-93

Time	Temp.	E.C.	pH	Turbidity	Volume
11:41	73.4	804us	5.66		2
11:42	73.9	8.10us	5.68		3
11:43	74.2	807us	5.69		4

Sample appearance: sem clear

QC samples collected at this well: _____ Lock: 3753

Remarks: Howel Bails w/ Disp Bailer

Signature Mike W. [unclear] Review [initials]



Client: BEACON #721
Site: 44 LEWELLING Blvd

Project No: 92-703
Well Designation: mw10

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

Sampled with disposal bailer or other: _____
Well recharged to 80% recovery.

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

Depth of well: 29.55
Depth to water: 15.01
Calculated purge: 10901
Actual purge: 10701

Start purge: 11:51 Sampling time: 12:09 Sampling Date: 2-3-93

Time	Temp.	E.C.	pH	Turbidity	Volume
11:55	73.1	786 _{us}	6.10		6
11:57	73.4	790 _{us}	6.08		8
11:58	73.8	787 _{us}	6.08		10

Sample appearance: clear

QC samples collected at this well: _____

Lock: 3753

Remarks: Hand Drilled Well w/ Dip BA-101

Signature Mike W. [unclear] Review [initials]



Client: BEACON
Site: 44 LEWELLING Blvd

Project No: 92-703
Well Designation: mwell

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

Sampled with disposal bailer or other: _____
Well recharged to 80% recovery.

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

Depth of well: 29.42
Depth to water: 17.91
Calculated purge: 7gal
Actual purge: 76.01

Start purge: 12:01 Sampling time: 12:13 Sampling Date: 2-3-93

Time	Temp.	E.C.	pH	Turbidity	Volume
12:05	72.2	747.00	5.83		4
12:06	72.8	749.00	5.80		6
12:07	75.2	743.00	5.79		7

Sample appearance: Som. clear

QC samples collected at this well: _____

Lock: 3753

Remarks: Hand Bailed well w/Disp. Bailor

Signature

Mike L. Loney

Review

OK



AEGIS ENVIRONMENTAL, INC.

SAMPLING INFORMATION SHEET

Client: BEACON #721
Site: 44 LEWELLING Blvd

Project No: 92-703
Well Designation: RW1

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

Sampled with disposal bailer or other: _____
Well recharged to 80% recovery.

Well Diameter: 2" ~~1.63~~ 3" _____ 4" _____ 6" 8" _____
Purge Vol. Multiplier: 0.163 0.367 0.653 1.47 2.61 gal/ft.

Depth of well: 36.36 Calculated purge: 186 gal
Depth to water: 15.48 Actual purge: 100

Start purge: 9:54 Sampling time: 10:40 Sampling Date: 2-3-93

Time	Temp.	E.C.	pH	Turbidity	Volume
10:05	75.5	206.05	5.15		36
10:18	75.3	250.05	6.63		66
10:37	75.3	240.05	6.11		100

Sample appearance: clear

QC samples collected at this well: _____

Lock: 3753

Remarks: * PALMERS SLATE AT 100 GALLONS HAND DATED
6-7-91 W/D=0

Signature Mike W. [unclear]

Review [initials]