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

October 26, 1993

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

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

HAYWARD, CALIFORNIA

Dear Mr. Murphy:

Enclosed is a copy of the ground-water monitoring report for the third quarter 1993 for the above-referenced Ultramar facility. Also enclosed is a copy of the Quarterly Status Report which describes the work completed this quarter and the work anticipated to be completed next quarter.

Please call if you have any question regarding this project.

Sincerely,

ULTRAMAR INC.

Terrence A. Fox

Senior Project Manager

Tenema S. Fox

Marketing Environmental Department

Enclosures

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



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ENVIRONMENTAL PROJECT QUARTERLY STATUS REPORT

DATE REPORT SUBMITTED: October 26, 1993

QUARTER ENDING: September 30, 1993

SERVICE STATION NO.: 546

ADDRESS: 29705 Mission Boulevard, Hayward, CA

COUNTY: Alameda

ULTRAMAR CONTACT: Terrence A. Fox

TEL. NO: 209-583-5545

BACKGROUND:

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

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

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

SUMMARY OF THIS QUARTER'S ACTIVITIES:

Performed quarterly monitoring on August 18, 1993.

RESULT OF QUARTERLY MONITORING:

Monitoring data indicates that benzene concentration increased in MW-1 from 210 ppb to 220 ppb, in MW-2 from 17 ppb to 53 ppb, in MW-8 from 540 ppb to 790 ppb, and in MW-9 from 180 ppb to 290 ppb. The benzene concentration decreased in MW-3 from 1.6 ppb to 1.0 ppb and in MW-7 from 190 ppb to 53 ppb.





Wells MW-4, MW-5, and MW-6 were not sampled because Ultramar has been denied access to the Holiday Bowl property.

PROPOSED ACTIVITY OR WORK FOR NEXT QUARTER:

ESTIMATED COMPLETION DATE

ACTIVITY
Continue quarterly ground-water sampling.

(916) 782 2110 Fax (916) 786 7830

October 20, 1993

ENVIRONMENTAL, INC.

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

Subject:

Third Quarter 1993 Groundwater Monitoring Report

Beacon Station #546

29705 Mission Boulevard, Hayward, 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 August 18, 1993, at the subject site (Figure 1). The monitoring included measurements of depth to water, 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 Attachment 1.

GROUNDWATER ELEVATIONS

Prior to purging the wells, Aegis personnel collected measurements of depth to groundwater. Groundwater level data from April 1992 to date are summarized in Table 1. Previous groundwater level data are included in Attachment 3. On the basis of the current measurements, groundwater flows to the west (Figure 2) at a gradient of 0.02 ft/ft. Well MW-9 was not used to determine groundwater flow direction and gradient, because the data was judged to be anomalous. The reason for this anomaly is not known at this time. Groundwater levels have decreased an average of 1.33 feet compared to the last monitoring event.

92-773D RPT

GROUNDWATER SAMPLING AND ANALYSES

Aegis personnel collected groundwater samples from the six wells. All samples were analyzed for concentrations of:

- Total petroleum hydrocarbons, as gasoline, by EPA Methods 5030/8015;
- Benzene, toluene, ethylbenzene, and total xylenes by EPA Methods 5030/602.

Analytical results from April 1992 to date are summarized in Table 2. Previous analytical results are included in Attachment 4. The laboratory report and chain-of-custody form for the current event are included as Attachment 2. Benzene concentrations decreased in wells MW-3 and MW-7; and increased in wells MW-1, MW-2, MW-8, and MW-9 compared to the last sampling event.

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

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

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

92-773D RPT - 2 -

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.

Cert No., C49163

EX? 5/1-/56

Owen Kittredge Project Geologist

-160

E. Paul Hayes

PE No. C49163

19/20/9

Date

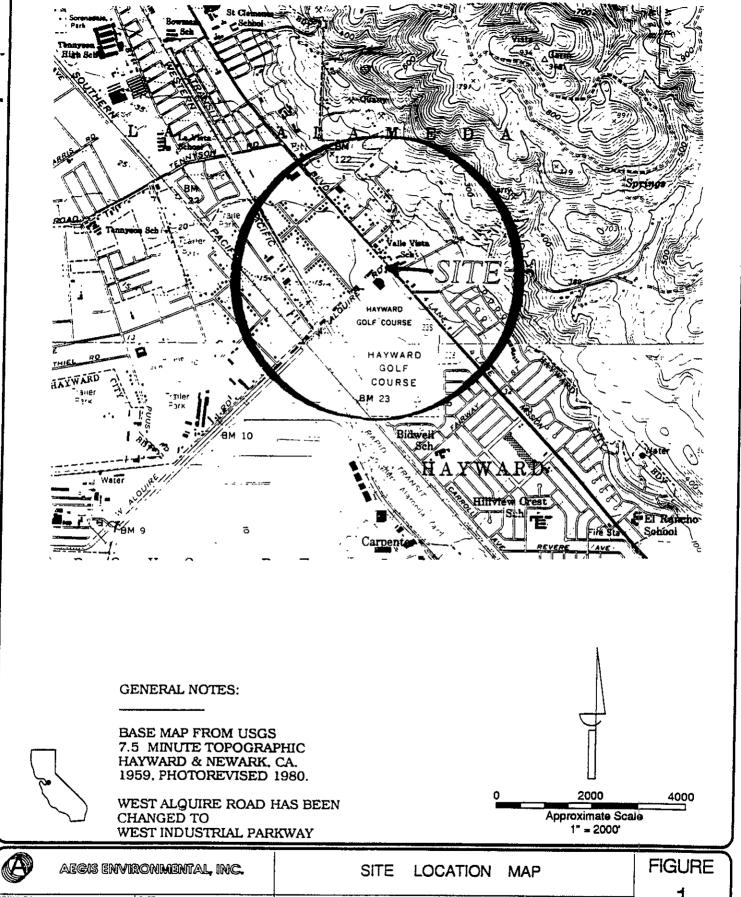
OMK/EPH/srr

Attachments

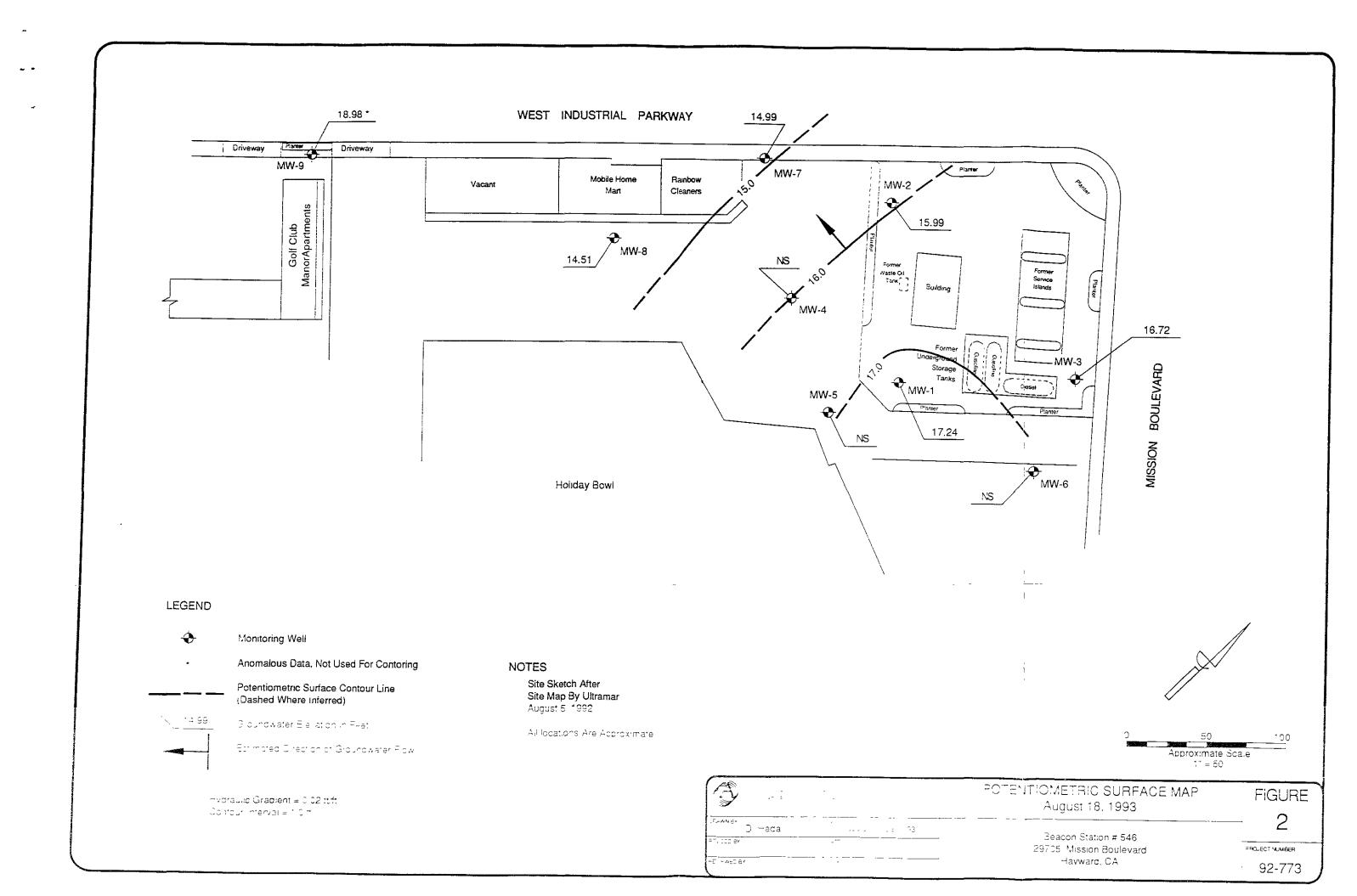
FIGURES:	FIGURE 1 SITE VICINITY MAP
	FIGURE 2 POTENTIOMETRIC MAP (AUGUST 18, 1993)
	FIGURE 3 DISTRIBUTION MAP OF BENZENE IN GROUNDWATER (AUGUST 18, 1993)
TABLES:	TABLE 1 LIQUID LEVEL DATA
	TABLE 2 ANALYTICAL RESULTS: GROUNDWATER
ATTACHMENTS:	ATTACHMENT 1 STANDARD OPERATING PROCEDURES
	ATTACHMENT 2 LABORATORY REPORT AND CHAIN-OF-CUSTODY FORM
	ATTACHMENT 3 HISTORICAL WATER LEVEL DATA
	ATTACHMENT 4 HISTORICAL ANALYTICAL DATA
	ATTACHMENT 5 FIELD DATA SHEETS

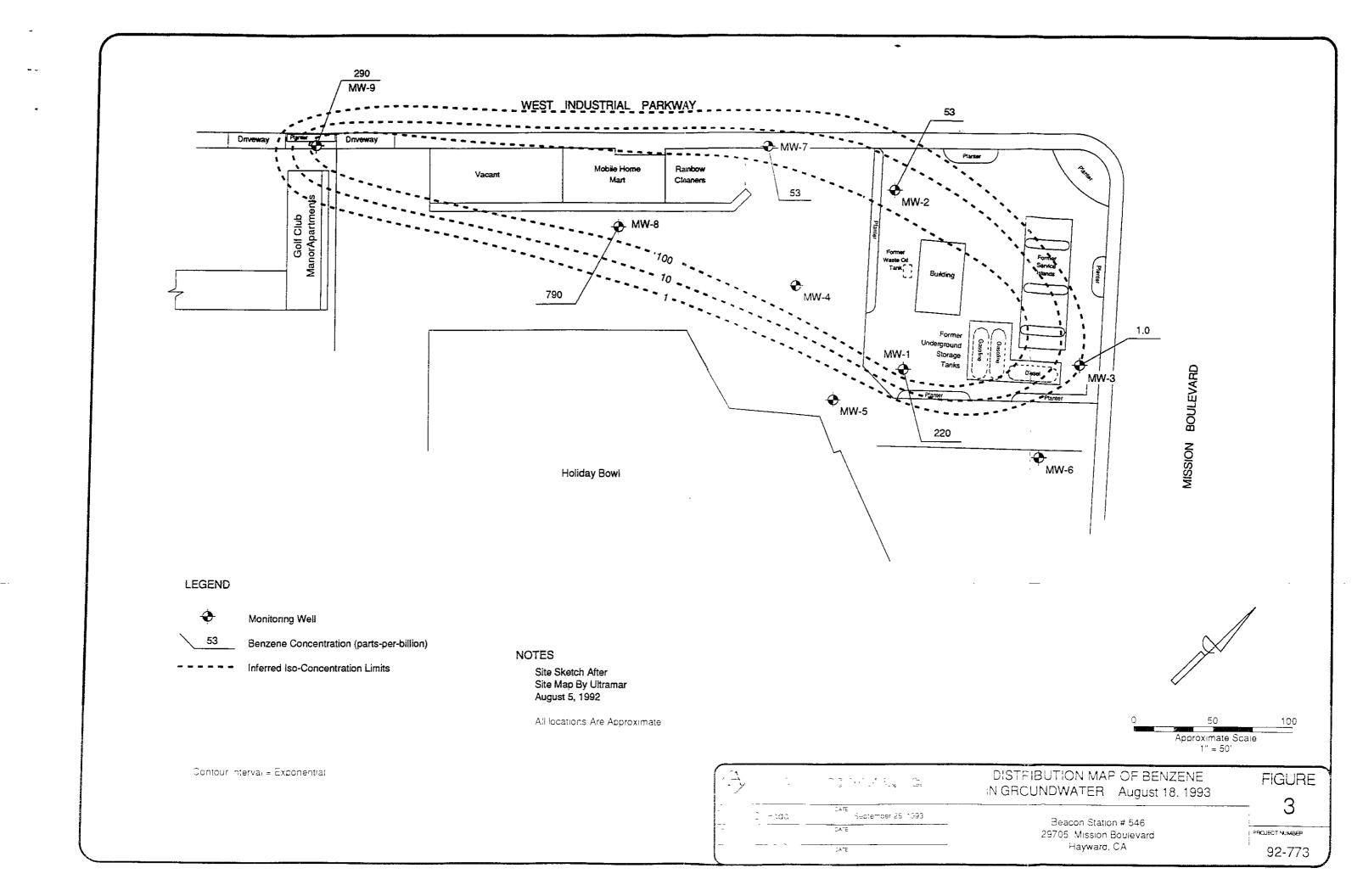
FIGURES

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AEGIS ENVIRONIMENTAL, INC.		SITE LOCATION MAP	FIGURE
Ed Bernard	DATE. September 29, 1992	Beacon Station # 546	1
REVISED BY: Ed Bernard	DATE. February 11, 1993	29705 Mission Boulevard	PROJECT NUMBER:
REVIEWED BY	DATE	Hayward, CA	10-92067





TABLES

TABLE 1

WATER LEVEL DATA

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

Monitoring Well	Date	Reference Elevation (top of casing) ¹	Depth to Groundwater ¹	Groundwater Elevation ²	Well Depth	Comments
MW-1	04/15/92 07/07/92 09/23/92 11/12/92 02/03/93 05/10/93 08/18/93	37.46	22.10 23.40 24.61 24.87 21.23 19.59 20.22	15.36 14.06 12.85 12.59 16.23 17.87 17.24	 38.08 37.95 37.95	Heavy sheen
MW-2	04/15/93 07/07/92 09/23/92 11/12/92 02/03/93 05/10/93 08/18/93	35.95	20.88 21.95 23.15 23.43 19.93 18.57 19.96	15.07 14.00 12.80 12.52 16.02 17.38 15.99	 38.90 38.98 39.00	
MW-3	04/15/92 07/07/92 09/23/92 11/12/92 02/03/93 05/10/93 08/18/93	40.28	24.59 25.90 27.09 27.43 23.67 21.90 23.56	15.69 14.38 13.19 12.85 16.61 18.38 16.72	 33.94 37.86 37.82 37.80	
MW-4	04/15/92	34.94				
MW-5	04/15/92	36.37		******		
MW-6	04/15/92	37.43		****		
MW-7	04/15/92 07/07/92 09/23/92 11/12/92 02/03/93 05/10/93 08/18/93	30.50	16.00 17.10 18.21 18.37 15.20 14.01 15.51	14.50 13.40 12.29 12.13 15.30 16.49 14.99	 33.94 34.02 34.05 34.01	

NOTES:

Measurement and reference elevation taken from notch/mark on top north side of well casing.

2 = Elevation referenced to mean sea level.

. = Not measured/not observed.

** = No measurements collected since prior to April 1992.

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

TABLE 1

WATER LEVEL DATA

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

Monitoring Well	Date	Reference Elevation (top of casing) ¹	Depth to Groundwater ¹	Groundwater Elevation ²	Well Depth	Comments
MW-8	04/15/92 07/07/92 09/23/92 11/12/92 02/03/93 05/10/93 08/18/93	28.48	14.30 15.60 16.66 16.86 13.49 12.51 13.97	14.18 12.88 11.82 11.62 14.99 15.97 14.51	39.20 39.19 39.21 39.25	
MW-9	02/03/93 05/10/93 08/18/93	21.99	8.95 8.18 9.50	13.04 13.81 18.98	23.52 23.52 23.17	

NOTES

= Measurement and reference elevation taken from notch/mark on top north side of well casing.

2 = Elevation referenced to mean sea level.

Not measured/not observed.

**
No measurements collected since prior to April 1992
Well Depth
Measurement from top of casing to bottom of well.

TABLE 2 **ANALYTICAL RESULTS: GROUNDWATER**

BEACON STATION #546 29705 MISSION BOULEVARD, HAYWARD, CALIFORNIA (All results in parts-per-billion)

Monitoring Well	Date Collected	Total Petroleum Hydrocarbons		Aromatic Vo	latile Organics	
		Gasoline	Benzene	Toluene	Ethyl- benzene	Total Xylenes
MW-1	04/15/92 07/07/92 09/23/92 11/12/92 02/03/93 05/10/93 08/18/93	8,900 <50 <50 — 950 1,000 1,600	710 <0.5 <0.5 72 210 220	11 <0.5 <0.5 <0.5 2.9 <5.0	150 <0.5 <0.5 0.6 42 110	440 <0.5 <0.5 6.6 67 150
MW-2	04/15/92 07/07/92 09/23/92 11/12/92 02/03/93 05/10/93 08/18/93	1,200 <50 <50 <50 310 190 820	21 <0.5 <0.5 <0.5 2.9 17 53	4.8 <0.5 <0.5 <0.5 0.8 <0.5 <1.3	56 <0.5 <0.5 1.7 15 23 71	26 <0,5 <0,5 0,9 6,0 5,2 16
MW-3	04/15/92 07/07/92 09/23/92 11/12/92 02/03/93 05/10/93 08/18/93	69 <50 <50 <50 <50 53 <50	2.8 <0.5 <0.5 <0.5 1.0 1.6 1.0	<0.5 <0.5 <0.5 <0.5 1.3 <0.5 <0.5	<0.5 <0.5 <0.5 <0.5 0.6 2.0 1.5	<0.5 <0.5 <0.5 <0.5 2.7 <1.5 <0.5
MW-4	04/15/92	NS	NS	NS	NS	NS
MW-5	04/15/92	NS	NS	иѕ	NS	NS
MW-6	04/15/92	NS	NS	NS	NS	NS

NOTES

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

TABLE 2

ANALYTICAL RESULTS: GROUNDWATER

BEACON STATION #546 29706 MISSION BOULEVARD, HAYWARD, CALIFORNIA (All results in parts-per-billion)

Monitoring Well	Date Collected	Total Petroleum Hydrocarbons		Aromatic Vo	latile Organics	
		Gasoline	Benzene	Toluene	Ethyl- benzene	Total Xylenes
MW-7	04/15/92	1,600	21	1.2	2.0	1,2
	07/07/92	320	<0.5	<0.5	<0.5	<0.5
	09/23/92	90	<0.5	<0.5	<0.5	<0.5
	11/12/92	<50	<0.5	<0.5	<0.5	<0.5
	02/03/93	<50	<0.5	<0.5	<0.5	<0.5
	05/10/93	1,800	190	3.2	45	<1.5
	08/18/93	1,600	53	<2.5	<2.5	37
MW-8	04/15/92	40,000	1,900	34	1,200	1,800
	07/07/92	19,000	560	14	32	630
	09/23/92	4,200	370	<5.0	<5.0	150
	11/12/92	5,100	75	<2.5	<2.5	110
	02/03/93	29,000	800	1.1	660	720
	05/10/93	8,900	540	9.9	770	550
	08/18/93	10,000	790	<25	1,100	720
MW-9	02/03/92	28,000	64	9.6	70	510
	05/10/93	5,000	180	12	88	110
	08/18/93	4,900	290	<2.5	210	180

NOTES: <

Below indicated detection limit.

NS = Not sampled.

** = No samples collected since prior to April 1992.

ATTACHMENT 1 STANDARD OPERATING PROCEDURES

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 onsite 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:

- Participation in state and federal laboratory accreditation/certification programs;
- Participation in both U.S. EPA Performance Evaluation studies (WS and WP studies) and inter-laboratory performance evaluation programs;
- 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.

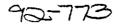
The probe tip is then lowered into the well and submerged in the groundwater. An oscillating (beeping) tone indicates the probe is in water. The probe is slowly raised until either the oscillating tone ceases or becomes a steady tone. In either case, this is the depth-to-water (DTW) indicator and the 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 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 "cleah" to "durty" (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

ATTACHMENT 2

LABORATORY REPORT AND CHAIN-OF-CUSTODY FORM





August 27, 1993 Sample Log 7214

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

CF/Serv

Subject: Analytical Results for 6 Water Samples

Identified as: Project # 92-773 (Beacon #546)

Received: 08/20/93

Dear Ms. Richgels:

Analysis of the sample(s) referenced above has been completed. This report is written to confirm results communicated on August 27, 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.

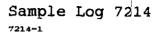
Sample(s) were analyzed using the following method(s):

"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



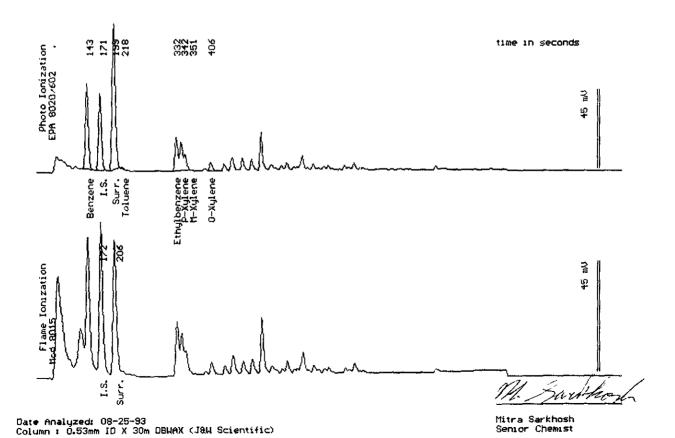


From : Project # 92-773 (Beacon #546)

Sampled: 08/18/93

Dilution: 1:10 QC Batch: 2012c

Parameter	(MRL) ug/L	Measured Value ug/L
Benzene	(5.0)	220
Toluene	(5.0)	<5.0
Ethylbenzene	(5.0)	110
Total Xylenes	(5.0)	150
TPH as Gasoline	(500)	1600
Surrogate Recovery	•	91 %



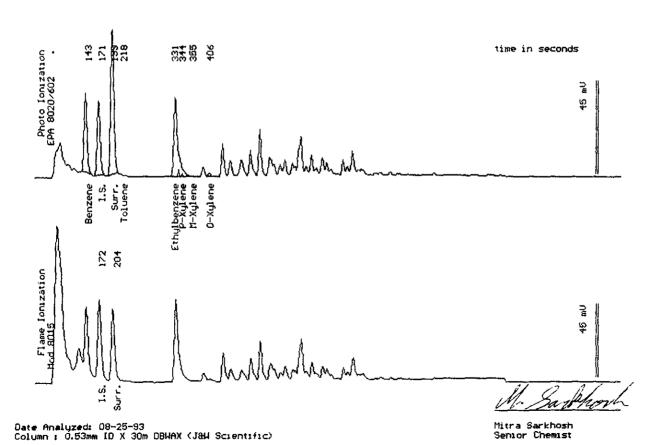


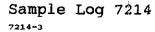
From : Project # 92-773 (Beacon #546)

Sampled: 08/18/93

Dilution: 1:3 QC Batch: 2012c

Parameter	(MRL) ug/L	Measured Value ug/L
Benzene	(1.3)	53
Toluene	(1.3)	<1.3
Ethylbenzene	(1.3)	71
Total Xylenes	(1.3)	16
TPH as Gasoline	(130)	820
Surrogate Recovery	7	91 %





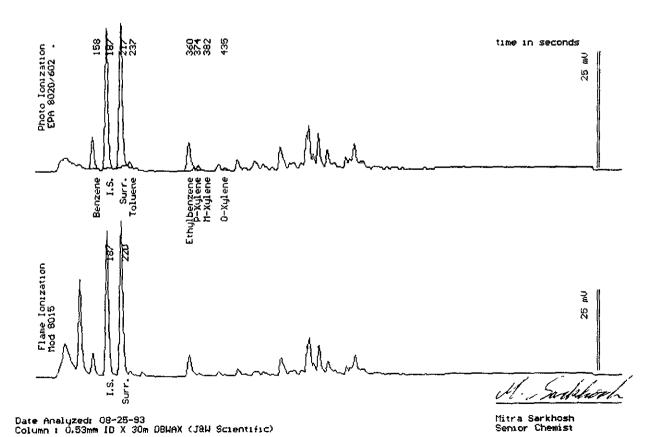


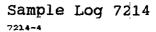
From : Project # 92-773 (Beacon #546)

Sampled: 08/18/93

Dilution: 1:1 QC Batch: 4030d

Parameter	(MRL) ug/L	Measured Value ug/L
Benzene	(.50)	1.0
Toluene	(.50)	<.50
Ethylbenzene	(.50)	1.5
Total Xylenes	(.50)	<.50
TPH as Gasoline	(50)	<50
Surrogate Recovery	,	107 %





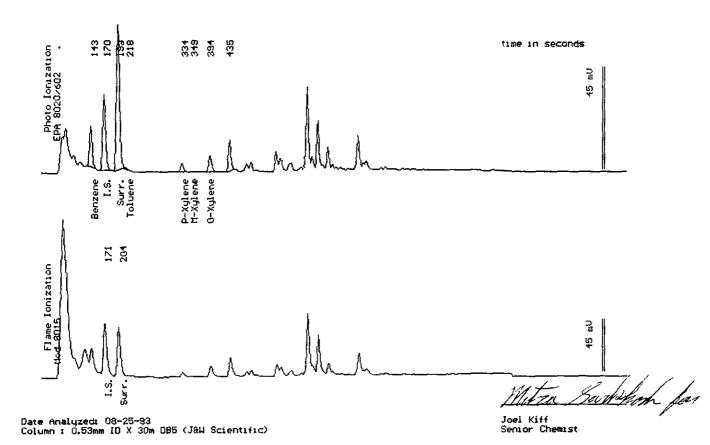


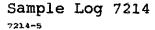
From : Project # 92-773 (Beacon #546)

Sampled: 08/18/93

Dilution: 1:5 QC Batch: 2012B

Parameter	(MRL) ug/L	Measured Value ug/L
Benzene	(2.5)	53
Toluene	(2.5)	<2.5
Ethylbenzene	(2.5)	<2.5
Total Xylenes	(2.5)	37
TPH as Gasoline	(250)	1600
Surrogate Recovery	7	92 %





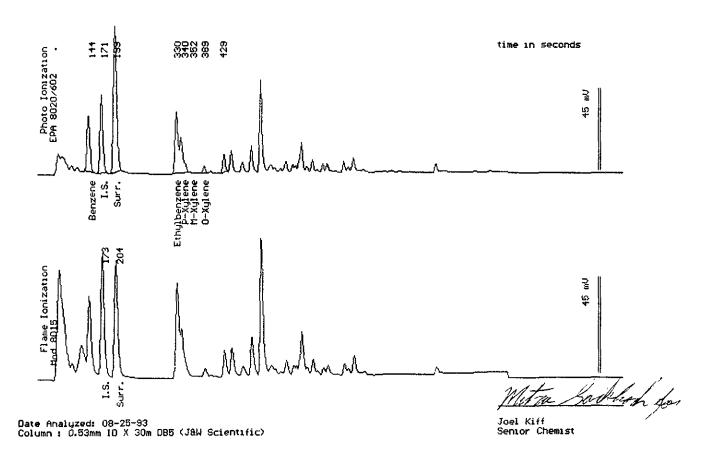


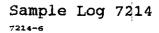
From : Project # 92-773 (Beacon #546)

Sampled: 08/18/93

Dilution: 1:50 QC Batch: 2012B

Parameter	(MRL) ug/L	Measured Value ug/L
Benzene Toluene Ethylbenzene Total Xylenes TPH as Gasoline	(25) (25) (25) (25) (2500)	790 <25 1100 720 10000
Surrogate Recovery	,	92 %





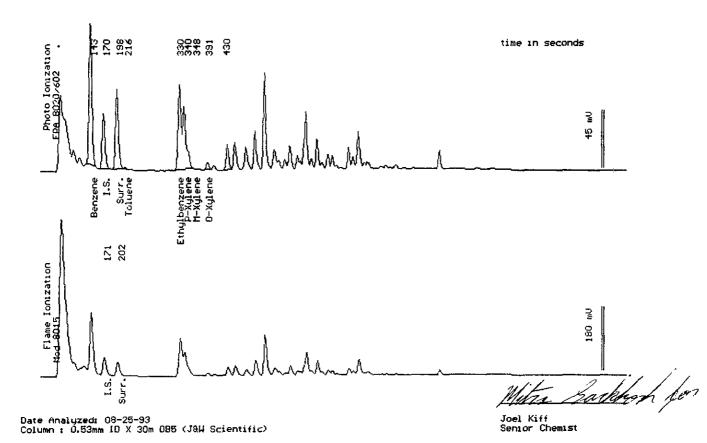


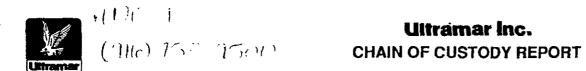
From : Project # 92-773 (Beacon #546)

Sampled: 08/18/93

Dilution: 1:5 QC Batch: 2012B

Parameter	(MRL) ug/L	Measured Value ug/L
Benzene	(2.5)	290
Toluene	(2.5)	<2.5
Ethylbenzene -	(2.5)	210
Total Xylenes	(2.5)	180
TPH as Ĝasoline	(250)	4900
Surrogate Recovery	,	65 %





Beacon Station No. Sampler (Print Name)			44444050			Date Form No.			. 7
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Project No.	Sampler (Signa	ature)	- '						-
92-773	7		ĺ			ers	STAN	NARD	>
Project Location	Affiliation			sel) oline		Containers	T.	AT	Ì
HAYIUARD (A	HEEIS	LAI	VIRU.	(dies		0) jo			
Sample No./Identification	Date		ne Lab No.	BTEX TPH (gasoline) TPH (diesel)		S S S	REMAF	RKS	
mw-1	1/11	/)	1.0	XX		3			
mw-Z	,	11	/ >						
mw-3		, ,							
m10 - 7	<u>W</u>	11	()					,	
mw-8	<u> </u>	1 1	7 1						
mw-9	11	ì	59	1			<u></u>		
_									
Relinquished by: (Signature/Affiliation)	Date 1/20/	Time	Received by: (Signati	λ				Date	Time
Relinquished by: (Signature/Affiliation)		/ 31	119,200	19 11/11	>			Selver :	
Relinquished by: (Signature/Affiliation)	Date	1	Received by: (Signatu	ure/Affiliation)				Date	Time
) (() () () () () () ()	14/3	, 1 (s							
Relinquished by: (Signature/Affiliation)	Date	Time	Received by; (Signati	ure/Affiliation)				Date	Time
u'				ure/Affiliation)		í		11.6.	12 50
Report To: SHEILA RICHGELS			Bill to: ULTRAMA					·	
(916) 782-2.110			Honford C	Third Street CA 93230			T _m v		
FAX 786-7830				7	EKKY		OX		
WHITE: Return to Client with Report	YELLOW: Labo	oratory C	opy PINK: Orig	inator Copy				32-80	003 1/90

ATTACHMENT 3 HISTORICAL WATER LEVEL DATA

TABLE 1 GROUND-WATER ELEVATION DATA								
Well No.	Relative Casing Elevation	DTW	CWE	CHANGE FROM LAST QUARTER				
APRIL 15,	1992							
MW-1	37.46	22.10	15.36	+ 1.67				
MW-2	35.95	20.88	15.07					
MW-3	40.28	24.59	15.69	+ 1.70				
MW-4	34.94	NA						
MW-5	36.37	NA						
MW-6	37.43	NA						
MW-7	30.50	16.00	14.50	+ 1.60				
8-WM	28.48	14.30	14.18	+ 1.57				
JULY 7, 199	92			•				
MW-1	37.46	23.40	14.06	- 1.30				
MW-2	35.95	21.95	14.00					
MW-3	40.28	25.90	14.38					
MW-4	34.94	NA						
MW-5	36.37	NA						
MW-6	37.43	NA						
MW-7	30.50	17.10	13.40	- 1.10				
MW-8	28.48	15.60	12.88	- 1.30				

Elevation of top of casing measured in feet relative to arbitrary datum (100 ft); Depth-to-water measured in feet below top of casting DTW = Depth-to-water CWE = Calculated water elevations

NM - Not Accessible

ATTACHMENT 4 HISTORICAL ANALYTICAL DATA

	ANALY	TA TICAL RESULTS	BLE 2 ON GROUND	WATER SAMP	LES	
Well No.	Date	В	T	E	Х	TPH-g
WELL MW-1						
	4/15/92 7/7/92	710 <0.5	11 <0.5	150 <0.5	440 <0.5	8900 <50
WELL MW-2						
	4/15/92 7/7/92	21 <0.5	<0.5 <0.5	56 <0.5	26 <0.5	1200 <50
WELL MW-3						
,	4/15/92 7/7/92	1.8 <0.5	< 0.5 <0.5	< 0.5 <0.5	< 0.5 <0.5	69 <50
WELL MW-4						
	4/15/92 7/7/92	na Na				
WELL MW-5						
	4/15/92 7/7/92	NA NA				
WELL MW-6						
	4/15/92 7/7/92	NA NA				
WELL MW-7	4 44 7 40 0					
	4/15/92 7/7/92	21 <0.5	1.2 <0.5	2.0 <0.5	1.2 <0.5	1600 320
WELL MW-8						
	4/15/92 7/7/92	1900 560	34 14	1200 32	1800 630	40000 19000

All results shown in parts per billion (ppb)

TPHg = Total petroleum hydrocarbons as gasoline

B,T,E,X = Benzene, Tuluene, Ethylbenzene, and Total Xylenes

< = Less than detection limit shown

NA = Not Analyzed

ATTACHMENT 5 FIELD DATA SHEETS

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

Project Address:	29705 Mission Blvd, Hayward (# 546)	Date: 1	9/19/93	
Recorded by:	_ B m	Project No.:	92-773	

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)
MW-1	11:30	37.46	37.95	20.22			
MW-2	10.50	35.95	39.00	19.96		 	
MW-3	08:39	40.28	37.80	23 56			
MW-7	10:30	30.50	34.01	15.51			
MW-8	1220	28.48	39.25	13.9)			
MW-9	08:52		23.17	9.50			
					· · · · · · · · · · · · · · · · · · ·		
Notes:							

Notes:

ASC	eis environm	ental inc		SAMPLING	INFORMATI	ION SHEET	
•	:_29705 HAYW		546 N BLVD CA	Well	Project No Designation	o: 92-7; n: Mu	73) -
Purging Equ	lipment: npled with di	sposal bailer:	2" Disposat 2" PVC bail 4" PVC bail	er		Submersib Dedicated	
V	Vell Diameter Vol. Multiplier	: 2"	3"	4" <u>X</u> 0.653	6" 1.47	8" 2.61	gal/ft.
Time: 1/. Depth of we			Time: Depth to wa	_		ulated purge: Actual purge:	The Real Property lies and the least lies and the lies and the lies and the least lies and the least lies and the lies and t
Meter Calibr Date Time		Initial reading usted reading		E.C.	рН	Turbidity	
Start purge:	/1:39	Sa	mpling time:	12:10	Sa	mpling Date:	8-18-53
	Time 11:45 11:52 11:59	Temp. 69,7 69,3 69.1	E.C. 1.32m5 1.36m5 1.36m5	pH 8.37 8.62 7.09	Turbidity	Volume // // // // // // // // // // // // /	
QC sample Equipment re 2" Locking Ca 4" Locking Ca	ap:	at this well: _	· -	ock #2357:		Lock: <	<u> </u>
Remarks:	Well &	by dry	NO Ri	ook-#3753; Ser Bol ±0909 Handbo	ted Li	0909 h- IN gos	
Signature _				Re	eview	R	

	ecis environimi	ental, inc		SAMPLING	INFORMATI	ON SHEET	
Clie	nt: <u>BEAC</u> te: <u>29705</u> <u>HAYW</u>	MISSIOI	546 U BLVD CA	Weil	Project No Designation	: 92-77 : <u>Mu</u>	73) - 2
Purging Ed	quipment: ampled with di	sposal bailer:	2" Disposab 2" PVC baile 4" PVC baile	er		Submersible Dedicated b	
I .	Well Diameter Vol. Multiplier		3" 0.367	4" <u>\</u> 0.653	6"	8" 2.61	gal/ft.
		/9. ^c	√Recharge Mea Time: Depth to wat			ulated purge: Actual purge:	-
Meter Calib Date Time		Initial reading usted reading	Temp.	E.C.	рН	Turbidity	
Start purge	e: /0:28	Saı	mpling time:	1115	Sa	mpling Date:	8-18-43
	Time 1040 1053 1106	70.5 70.8 69.5	E.C. 7.500	pH 8.96 7.69 8.39	Turbidity	Volume 17 16 16	
	oles collected :	at this well:_	ppearance:	. lov		Lock:	3753
Equipment r 2" Locking (4" Locking (Remarks:	Cap:	Condition		ock #2357: ock #3753:	AP	nd bail (<u>()</u>
Signature				R	 eview _	OR	

AEC	BIS ENVIRONME	ntal inc		SAMPLING	INFORMATI	ON SHEET	
Client: Site	::BEAC ::29705 HAYWI	MISSIDI	546 U BLVD CA	Well	Project No Designation	o: 92-7	
Purging Equ San	ipment:	3 X	2" Disposat 2" PVC bail 4" PVC bail	er		Submersible Dedicated	• •
V	/ell Diameter: Vol. Multiplier:	2"	3"	4" <u>×</u>		8" 2.61	gal/ft.
Initial Measur Time: <u>↑○ `</u> Depth of we Depth to wa	50 11: <u>34.01</u>		Recharge Me Time: Depth to wa	-		ulated purge: Actual purge:	
Meter Calibra Date Time	1	nitial reading usted reading		E.C.	рН	Turbidity	
Start purge:	10:34	Sai	mpling time: 1120		Sa	8-18-13	
	1042 1057 11:09	71.8 70.1 69.9	E.C. 1.47 ms 1.49 mj 1.45 ms	pH 8.579 8:02 7.70	Turbidity	Volume 1 % 1 (4	
	es collected a	nt this well:	ppearance:	Clou		Lock:	3753
Equipment re 2" Locking Ca 4" Locking Ca Remarks:	ap:	x dey,	L	ondition of reposition of repo		3	
ignature							

AEC	ĉis environimi	ntal inc		SAMPLING	INFORMATI	ON SHEET	**
Client : Site	29705	ON # S MISSION	546 N BLVD CA) Well	Project No Designation	: <u>92-7</u> : <u>M</u> u	73) - 8
Purging Equ	ipment: npled with dis	enosal bailar	2" Disposal 2" PVC bail 4" PVC bail	ler ier	<u>×</u>	_Submersibl _Dedicated i	•
V\ Purge	Vell Diameter: Vol. Multiplier:	2"	3"	Teflon Bailer: 4" <u>¥</u> 0.653	6"	8" 2.61	gal/ft.
Initial Measur Time: /_> Depth of we Depth to wa	೩೦ ⊪_ <u>೨</u> 9, ೩९		Recharge Me Time: Depth to wa	_		ulated purge: Actual purge:	
Meter Calibra Date Time	•	nitial reading		E.C.	рН	Turbidity	
Start purge:	12:21	Sa	mpling time:	12:55	Sampling Date: 8-18-63		
	Time 12:27 12:34 12:40	74.1 74.1 74.1	E.C. 1.18 ms (.25mg (11910s	9H 7.86 7.18 7.88	Turbidity	Volume つし コー ユー	
·· <u>·······</u>	es collected a	t this well:	ppearance:			Lock:	3753
quipment rep 2" Locking Ca 1" Locking Ca	ap:		l	condition of rep .ock #2357: .ock #3753:			
	Well B. Oxin goo			Bolted	hid,		
ignature _	75			R	eview V	K	

AEG	ais environimi	intal inc	SAMPLING INFORMATION SHEET					
Client		ON # 5	546		Project No	: 92-7		
9 ,	: 29705 HAYW	MISSIDI ARD	U BLVD CA	_ Wel	l Designation		1-9	
Purging Equ		X	2" Disposat	- ole bailer		·		
			2" PVC bail	er		Submersible	e pump	
			_4" PVC bail	er		 Dedicated t		
San	pled with dis	sposal bailer:		Tefion Bailer				
N	/ell Diameter:	2" 📐	3"	4"	6"	8"		
Purge	Vol. Multiplier:	0.163	0.367	0.653	1.47	2.61	gal/ft.	
Initial Measur	ment		Recharge Me	asurement				
Time: 8'5.			Time:		Calc	ulated purge:	8	
Depth of we			Depth to wa	ter:		Actual purge:		
Depth to wa								
Meter Calibra			Temp.	E.C.	рН	Turbidity		
Date Time		nitial reading Isted reading						
		· · · · · · · · · · · · · · · · · · ·	ار در					
Start purge:	4:21	Sai	mpling time:	9:59	Sampling Date: 8-18-43			
	Time	Temp.	E.C.	рH	Turbidity	Volume		
	09:27	72.5	1.47 ms	7.75		4 3	'	
	69:39	71.8	1 ,46ms	8.13		3		
	9:49	72.3	1.41.m	8.58		Q	1	
i							1	
ļ							·]	
		Sample a	ppearance:	()ovd	1			
	es collected a	nt this well:	とり			Lock:]	Solphia	
Equipment re	placed:	Check all that	apply) Note o	ondition of re	placed item.			
2" Locking Ca 1" Locking Ca			_	ock #2357: ock #3753:				
Remarks:		day, 2"	'.Kisle, P		Bx 1	N 900d C	and tion	
				Handbail	(h)			
ignature	De	\$		R	leview 🔉	R		