## HAZMAT 94**4466 sm** §t**§**81

4254

Date:

January 11, 1993

To:

Mr. Lynn Walker

Shell Oil Company

P.O. Box 5278

Concord, California 94520

From:

Diane Lundquist

RE:

Quarterly Monitoring Report - 4th Quarter 1993

Former Shell Service Station

461 Eighth Street Oakland, California

## Comments:

Transmitted herewith is the subject report.

If you have any questions, please call (707) 935-4850.

cc:

Ms. Jennifer Eberlee, Alameda County Health Care Services

Agency

Mr. Richard Hiett, Regional Water Quality Control Board

Mr. Jim Matthews, Shell Oil Company

## ALCO HAZMAT

January 11, 1994

94 JAN 12 PM 3: 20

Mr. Lynn Walker Shell Oil Company P.O. Box 5278 Concord, California 94520

RE:

Quarterly Monitoring Report Former Shell Service Station 461 Eighth Street Oakland, California

WIC #204-5508-6205

Dear Mr. Walker:

This Quarterly Monitoring Report describes the recently completed activities associated with groundwater monitoring and sampling at the referenced site (Plate 1). This report was prepared to meet quarterly reporting requirements issued by the Regional Water Quality Control Board, San Francisco Bay Region and Alameda County Health Care Services Agency.

This document presents the results of activities performed in the fourth quarter of 1993.

## **Executive Summary**

- Blaine Tech Services Inc. of San Jose California measured groundwater levels from off-site Wells S-5 and S-6 and collected water samples from Well S-6 on October 20, 1993. The water samples were transported to Anametrix Laboratories of San Jose, California. A trip blank was prepared and analyzed for quality control purposes.
- Enviros, Inc. (Enviros) evaluated water-level measurement data and chemical analytical results and prepared this report, which includes the Blaine Tech Quarterly Groundwater Sampling Report, a site plan, a groundwater elevation map and a benzene concentration map.
- Well S-4 remains inaccessible due to the presence of a chain-link fence surrounding the lot.
- Well S-5 contained separate-phase hydrocarbons at a measured thickness of 0.23 feet (2.76 inches).
- Approximately 200 gallons of groundwater and product were evacuated from Well S-5 this quarter.
- Well S-6 contained 48,000 parts per billion (ppb) TPH-G and 28,000 ppb benzene.

 Groundwater flow direction and hydraulic gradient could not be calculated based on available data.

## Site Conditions

There are currently three off-site groundwater monitoring wells; S-4, S-5, S-6 (Plate 2). These wells were installed in 1981. Wells S-1, S-2, S-3 and S-7 have been destroyed. Quarterly groundwater sampling began in October 1988.

## Fourth Quarter 1993 Sampling Evaluation

## Field Activities

Well S-4 was inaccessible. Therefore, this well was not sampled this quarter.

Depth to groundwater was measured and recorded in Wells S-5 and S-6 on October 20, 1993. Each well was checked for the presence of separate-phase petroleum hydrocarbons. Field measurements are presented in Table 1.

Monitoring well S-6 was purged prior to sampling. Groundwater samples collected from Well S-6 were sampled on October 26, 1993 and analyzed for Total Petroleum Hydrocarbons calculated as Gasoline(TPH-G) according to EPA Method 8015 (Modified) and Benzene, Toluene, Ethylbenzene and Xylenes (BTEX) according to EPA Method 8020. Additionally, a trip blank was prepared and analyzed for quality control purposes. The fourth quarter 1993 chemical analytical data for TPH-G and BTEX compounds have been included in the Historical Groundwater Quality Database (Table 2).

Groundwater samples were labeled, entered onto a chain of custody form, stored in a cooler with ice and transported to Anametrix for chemical analysis.

The following field documents are included in this report (Appendix A):

- · Blaine Tech Services Inc. Quarterly Groundwater Sampling Report
- Chain-of-Custody Record
- Anametrix Certified Analytical Report

## **Data Evaluation**

Groundwater elevations for Wells S-5 and S-6 were measured and recorded. The fourth quarter 1993 groundwater elevation map is presented on Plate 3. Groundwater flow direction and hydraulic gradient could not be calculated based on available data.

Separate-phase petroleum hydrocarbons were detected in Well S-5 at a measured thickness of 0.23 feet (2.76 inches).

Groundwater samples collected from Well S-6 contained 48,000 ppb TPH-G and 28,000 ppb benzene. Toluene, ethylbenzene and xylenes were detected at concentrations ranging from 3,200 ppb to 12,000 ppb. The trip blank was ND for all analyzed constituents. A benzene concentration map is presented on Plate 4.

Chemical analytical data are presented in the Anametrix certified analytical report contained in Appendix A.

## Conclusions

Accessibility to Well S-4 is precluded due to the presence of a chain-link fence surrounding the property.

Concentrations of TPH-G and BTEX compounds have remained relatively constant in Well S-6. Separate-phase petroleum hydrocarbons in Well S-5 have also remained relatively constant.

On October 20, 1993, Crosby and Overton Inc. vacuumed out approximately 200 gallons of groundwater and product from Well S-5.

Negotiations for right-of-entry are proceeding between Shell Oil Company and the current property owner.

Groundwater sampling and monitoring will continue on the established schedule. Crosby and Overton will continue to coordinate evacuating separate-phase petroleum hydrocarbons from Well S-5 with Blaine Tech Services during quarterly monitoring and sampling activities.

If you have any questions regarding the contents of this document, please call.

Sincerely,

Enviros, Inc.

Jeffrey L. Peterson Hydrogeologist

Man M Sum

Diane M. Lundquist, P.E.

Senior Engineer

C46725

## **Attachments**

Table 1. Field Monitoring Data

Table 2. Historical Groundwater Quality Database

Plate 1. Vicinity Map Plate 2. Site Plan

Plate 3. Groundwater Elevation Map

Plate 4. Benzene Concentration Map

## Appendix A

Blaine Tech Services Inc. - Quarterly Groundwater Sampling Report

## **Distribution List**

Mr. Richard Hiett, San Francisco Bay Region, Regional Water Quality Control Board

Ms. Jennifer Eberlee, Alameda County Health Care Services Agency Mr. Jim Matthews, Shell Oil Company

## TABLE 1

## FIELD MONITORING DATA

# FORMER SHELL SERVICE STATION 461 EIGHTH STREET OAKLAND, CALIFORNIA 204-5508-6205

WELL NO.		CASING DIA. (IN.)	TOTAL WELL DEPTH (FT.)	WELL ELEV. (FT.)		PRODUCT THICKNESS (FT.)	STATIC WATER ELEV. (FT.)
S-4	20-Oct-93	4		11	NACCESSIBI	LE	
S-5	20-Oct-93	4		99.36	20.51	0.23	79.03*
S-6	20-Oct-93	4	36.63	100.58	21.62	0.00	78.96

## **NOTES**

Static water elevations referenced to project site datum.

Well S-4 was inaccessible.

<sup>\* =</sup> Groundwater elevation corrected to include 80 percent of the floating product thickness measured in the well.

# TABLE 2 HISTORICAL GROUNDWATER QUALITY DATABASE

# FORMER SHELL SERVICE STATION 461 EIGHTH STREET OAKLAND, CALIFORNIA WIC 204-5508-6205

WELL	SAMPLE	TPH-G	BENZENE	TOLUENE	ethyebenzene	XYLENES
DESIGNATION	DATE	(PPB)	(PPB)	(PPB)	(PPB)	(PPB)
S-2	16-Apr-87	47,000	8,200	4,700	229	3,100
S-4	26-Oct-88	130	3.8	13	4	30
	14-Feb-89	<50	0.5	<1	<1	3
	1-May-89			Dry		
	27-Jul-89			Dry		
	5-Oct-89			Dry		
	9-Jan-90			Dry		
	30-Apr-90	<50	<0.5	<0.5	<5	<1
	31-Jul-90			Dry		
	30-Oct-90			Dry		
	6-May-91			Dry		
ł	27-Jun-91	<50	<0.5	<0.5	<0.5	<0.5
	24-Sep-91			Dry		
	7-Nov-91			Dry		
	13-Feb-92	<50	<0.5	<0.5	<0.5	3
	11-May-92			Dry		
	3-Dec-92			Inaccess	ible	
	13-May-93			Inaccess	ible	
	22-Jul-93			Inaccess	ible	
	20-Oct-93			Inaccess	ible	
S-5	16-Apr-87	130,000	15,000	16,000		14,000
	26-Oct-88	110,000	20,000	25,000	2,300	10,000
	14-Feb-89	94,000	16,000	21,000	1,800	10,000
	1-May-89	120,000	29,000	35,000	3,100	15,000
	27-Jul-89	110,000	20,000	29,000	2,400	14,000
	5-Oct-89			Floating Produ	ict 0.01 ft	
	9-Jan-90			Floating Produ	ıct 0.01 ft	
	30-Apr-90	100,000	13,000	22,000	2,100	11,000
	31-Jul-90	53,000	8,300	14,000	1,200	7,400
	30-Oct-90			Floating Produ	ıct 0.03 ft	
	6-May-91			Floating Produ	ıct 0.13 ft	
	27-Jun-91			Floating Produ	ıct 0.03 ft	•
	24-Sep-91			Floating Produ	act 0.06 ft	
	7-Nov-91			Floating Produ	act 0.25 ft	
	13-Feb-92			Floating Produ		
	11-May-92			Floating Produ	ıct 0.58 ft	
	3-Dec-92			Inaccess	ible	
	13-May-93			Floating Produ	ıct 0.27 ft	
	22-Jul-93			Floating Produ	uct 0.25 ft	namanag <b>i</b> nangi <b>ar</b> onya salahan
	20-Oct-93			Floating Produ	uct0.23 ft ∓ 🕽 .	76"

# TABLE 2 HISTORICAL GROUNDWATER QUALITY DATABASE

# FORMER SHELL SERVICE STATION 461 EIGHTH STREET OAKLAND, CALIFORNIA WIC 204-5508-6205

WELL	SAMPLE	TPH-G	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES
DESIGNATION	DATE	(PPB)	(PPB)	(PPB)	(PPB)	(PPB)
S-6	16-Apr-87	81,000	16,000	9,000	no=	6,400
	26-Oct-88	110,000	29,000	18,000	2,500	8,200
	14-Feb-89	54,000	18,000	4,500	1,400	4,000
•	1-May-89	93,000	43,000	9,900	3,000	8,000
	27-Jul-89	52,000	20,000	3,200	1,700	5,500
	5-Oct-89	55,000	20,000	2,900	1,600	5,500
	9-Jan-90	76,000	35,000	9,100	2,300	8,600
	30-Apr-90	39,000	13,000	2,300	900	2,800
	31-Jul-90	48,000	20,000	4,600	1,500	4,900
	30-Oct-90	27,000	7,400	900	600	1,400
	6-May-91	35,000	3,900	2,700	2,300	3,500
	27-Jun-91	51,000	19,000	5,600	1,700	6,300
	24-Sep-91	42,000	14,000	4,300	1,200	4,000
	7-Nov-91	39,000	11,000	2,000	800	2,300
	13-Feb-92	64,000	21,000	6,200	1,600	5,100
	11-May-92	57,000	22,000	7,600	2,200	7,700
	3-Dec-92	110,000	26,000	9,400	2,100	8,700
	13-May-93	58,000	21,000	6,800	2,500	9,800
	22-Jul-93	70,000	31,000	14,000	3,000	13,000
	20-Oct-93	48,000	28,000	9,800	3,200	12,000

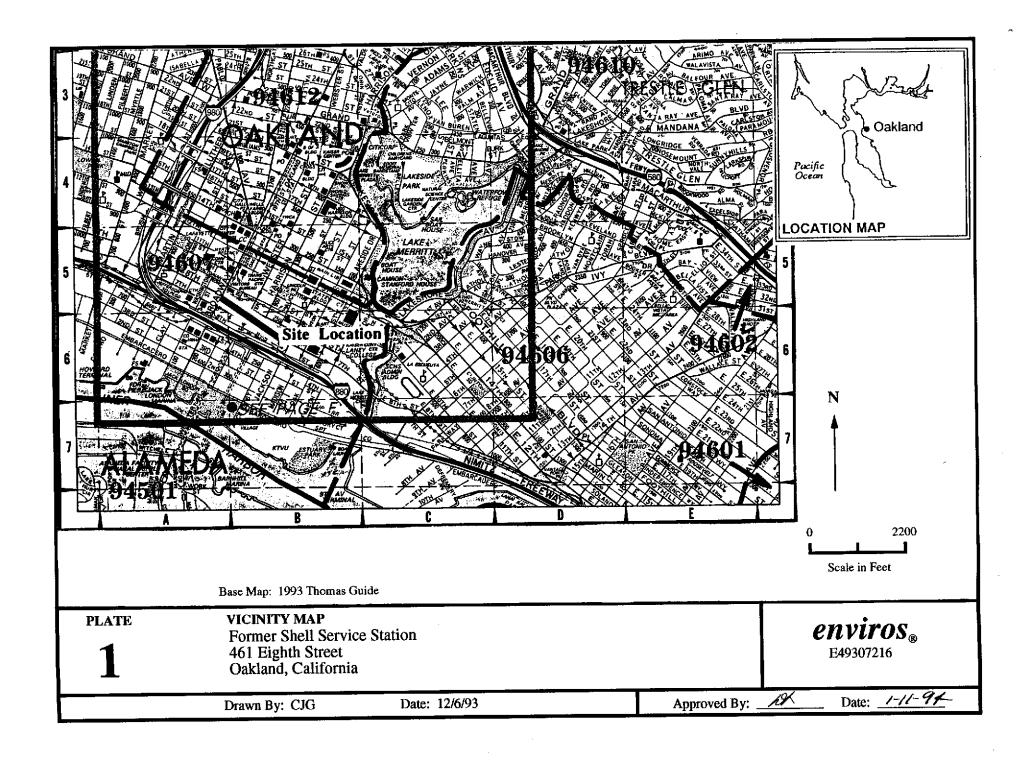
## Abbreviations:

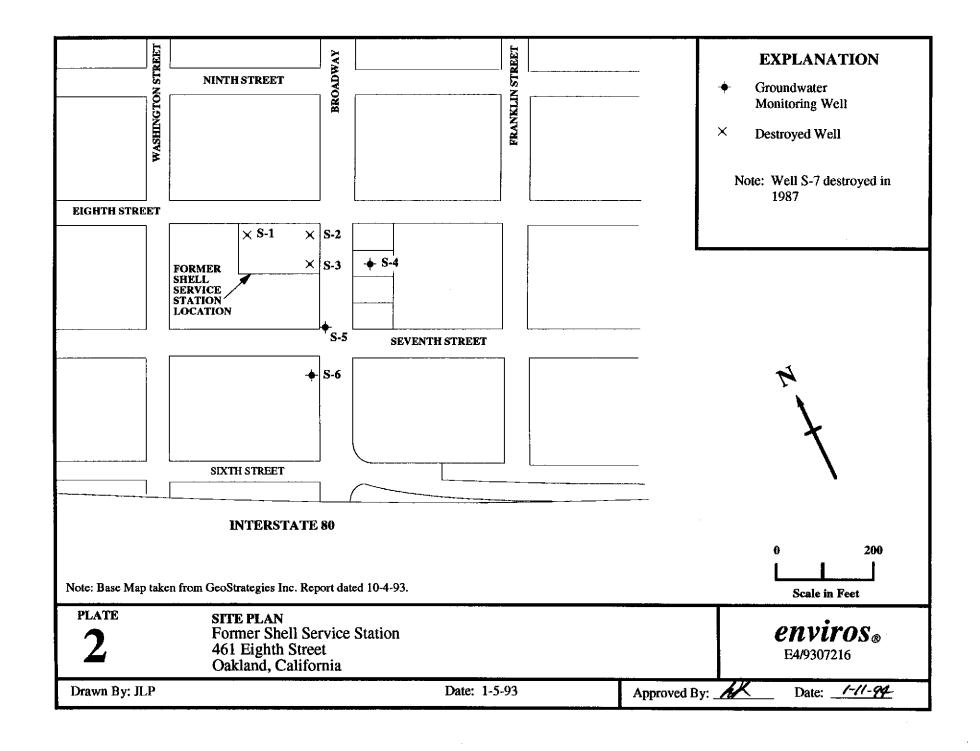
TPH-G = Total petroleum hydrocarbons as gasoline by Modified EPA Method 8015

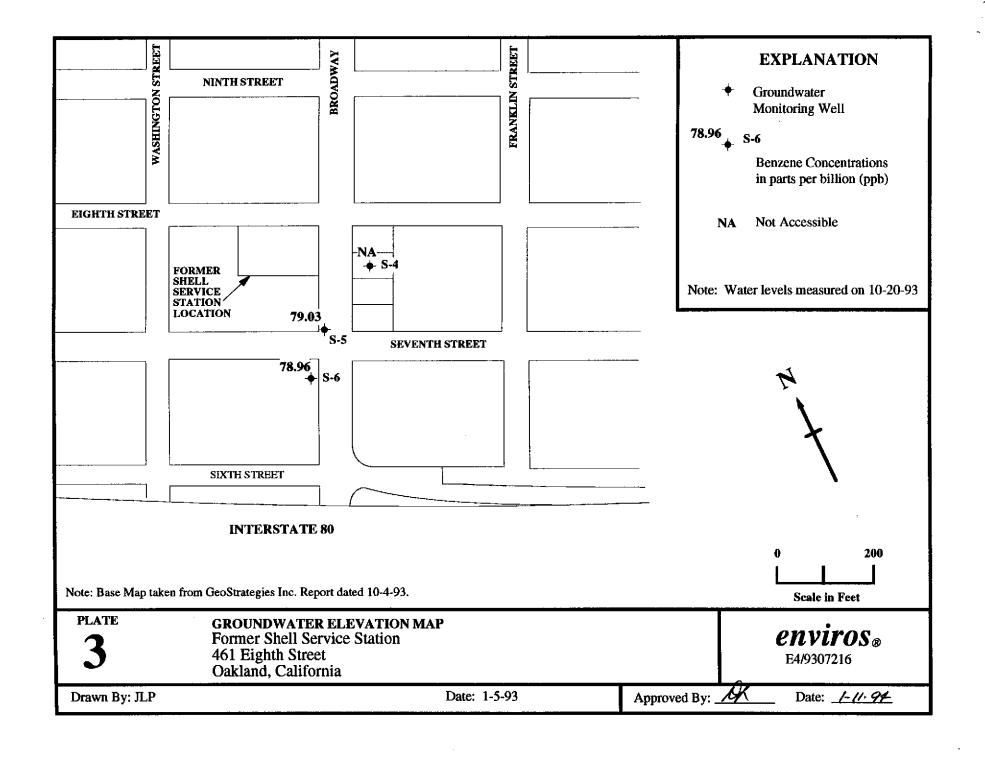
Benzene, Toluene, Ethylbenzene, and Xylenes analyzed by EPA Method 8020

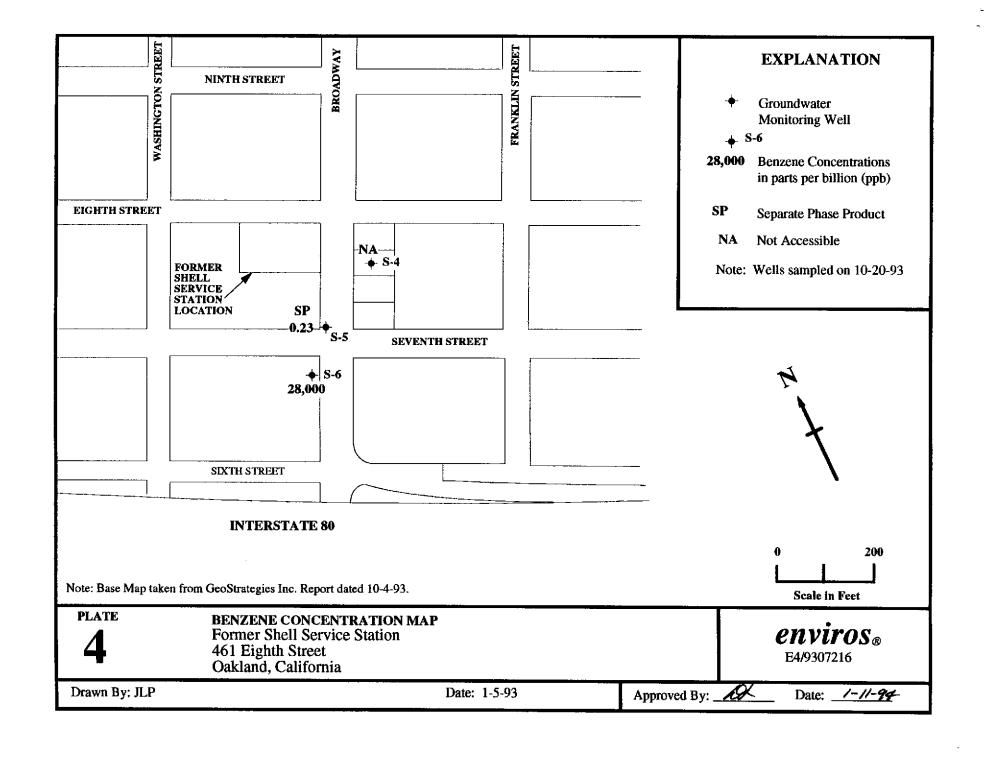
--- = Ethylbenzene and Xylenes were combined prior to May 1987

< x =Not detected at detection limit of x

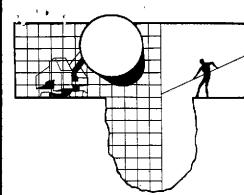








# Appendix A Blaine Tech Services Inc. Quarterly Groundwater Sampling Report



## BLAINE TECH SERVICES INC.

985 TIMOTHY DRIVE SAN JOSE, CA 95133 (408) 995-5535 FAX (408) 293-8773

November 5, 1993

Shell Oil Company P.O. Box 5278 Concord, CA 94520-9998

Attn: Lynn Walker

SITE: Shell WIC #204-5508-6200 461 8th Street Oakland, California

QUARTER: 4th quarter of 1993

## QUARTERLY GROUNDWATER SAMPLING REPORT 931020-J-1

This report contains data collected during routine inspection, gauging and sampling of groundwater monitoring wells performed by Blaine Tech Services, Inc. in reponse to the request of the consultant who is overseeing work at this site on behalf of our mutual client, Shell Oil Company. Data collected in the course of our field work is presented in a TABLE OF WELL GAUGING DATA. The field information was collected during our preliminary gauging and inspection of the wells, the subsequent evacuation of each well prior to sampling, and at the time of sampling.

Measurements taken include the total depth of the well and the depth to water. The surface of water was further inspected for the presence of immiscibles which may be present as a thin film (a sheen on the surface of the water) or as a measurable free product zone (FPZ). At intervals during the evacuation phase, the purge water was monitored with instruments that measure electrical conductivity (EC), potential hydrogen (pH), temperature (degrees Fahrenheit), and turbidity (NTU). In the interest of simplicity, fundamental information is tabulated here, while the bulk of the information is turned over directly to the consultant who is making professional interpretations and evaluations of the conditions at the site.

## STANDARD PROCEDURES

#### Evacuation

Groundwater wells are thoroughly purged before sampling to insure that the sample is collected from water that has been newly drawn into the well from the surrounding geologic formation. The selection of equipment to evacuate each well is based on the physical characteristics of the well and what is known about the performance of the formation in which the well has been installed. There are several suitable devices which can be used for evacuation. The most commonly employed devices are air or gas actuated pumps, electric submersible pumps, and hand or mechanically actuated bailers. Our personnel frequently employ USGS/Middleburg positive displacement pumps or similar air actuated pumps which do not agitate the water standing in the well.

Normal evacuation removes three case volumes of water from the well. More than three case volumes of water are removed in cases where more evacuation is needed to achieve stabilization of water parameters and when requested by the local implementing agency. Less water may be obtained in cases where the well dewaters and does not recharge to 80% of its original volume within two hours and any additional time our personnel have reason to remain at the site. In such cases, our personnel return to the site within twenty four hours and collect sample material from the water which has recharged into the well case.

## Decontamination

All apparatus is brought to the site in clean and serviceable condition. The equipment is decontaminated after each use and before leaving the site. Effluent water from purging and on-site equipment cleaning is collected and transported to Shell's Martinez Manufacturing COmplex in Martinez, California.

#### Free Product Skimmer

The column headed, VOLUME OF IMMISCIBLES REMOVED (ml) is included in the TABLE OF WELL GAUGING DATA to cover situations where a free product skimming device must be removed from the well prior to gauging. Skimmers are installed in wells with a free product zone on the surface of the water. The skimmer is a free product recovery device which often prevents normal well gauging and free product zone measurements. The 2.0" and 3.0" PetroTraps fall into the category of devices that obstruct normal gauging. In cases where the consultant elects to have our personnel pull the skimmers out of the well and gauge the well, our personnel perform the additional task of draining the accumulated free product out of the PetroTrap before putting it back in the well. This

recovered free product is measured and logged in the VOLUME OF IMMISCIBLES REMOVED column. Gauging at such sites is performed in accordance with specific directions from the professional consulting firm overseeing work at the site on Shell's behalf.

## Sample Containers

Sample material is collected in specially prepared containers which are provided by the laboratory that performs the analyses.

## Sampling

Sample material is collected in stainless steel bailer type devices normally fitted with both a top and a bottom check valve. Water is promptly decanted into new sample containers in a manner which reduces the loss of volatile constituents and follows the applicable EPA standard for handling volatile organic and semi-volatile compounds.

Following collection, samples are promptly placed in an ice chest containing prefrozen blocks of an inert ice substitute such as Blue Ice or Super Ice. The samples are maintained in either an ice chest or a refrigerator until delivered into the custody of the laboratory.

## Sample Designations

All sample containers are identified with a site designation and a discrete sample identification number specific to that particular groundwater well. Additional standard notations (e.g. time, date, sampler) are also made on the label.

## Chain of Custody

Samples are continuously maintained in an appropriate cooled container while in our custody and until delivered to the laboratory under a standard Shell Oil Company chain of custody. If the samples are taken charge of by a different party (such as another person from our office, a courier, etc.) prior to being delivered to the laboratory, appropriate release and acceptance records are made on the chain of custody (time, date, and signature of the person releasing the samples followed by the time, date and signature of the person accepting custody of the samples).

## Hazardous Materials Testing Laboratory

The samples obtained at this site were delivered to Anametrix, Inc. in San Jose, California. Anametrix, Inc. is a California Department of Health Services certified Hazardous Materials Testing Laboratory and is listed as DOHS HMTL #1234.

## **Objective Information Collection**

Blaine Tech Services, Inc. performs specialized environmental sampling and documentation as an independent third party. In order to avoid compromising the objectivity necessary for the proper and disinterested performance of this work, Blaine Tech Services, Inc. performs no consulting and does not become involved in the marketing or installation of remedial systems of any kind. Blaine Tech Services, Inc. is concerned only with the generation of objective information, not with the use of that information to support evaluations and recommendations concerning the environmental condition of the site. Even the straightforward interpretation of objective analytical data is better performed by interested regulatory agencies, and those engineers and geologists who are engaged in the work of providing professional opinions about the site and proposals to perform additional investigation or design remedial systems.

## Reportage

Submission of this report and the attached laboratory report to interested regulatory agencies is handled by the consultant in charge of the project. Any professional evaluations or recommendations will be made by the consultant under separate cover.

Please call if we can be of any further assistance.

Richard C. Blaine

RCB/dk

attachments: table of well gauging data

chain of custody

certified analytical report

cc: Enviros, Inc.

P.O. Box 259

Sonoma, CA 95476-0259 ATTN: Diane Lundquist

## TABLE OF WELL GAUGING DATA

WELL I.D.	DATA COLLECTION DATE	MEASUREMENT REFERENCED TO	QUALITATIVE OBSERVATIONS (sheen)	DEPTH TO FIRST IMMISCIBLES LIQUID (FPZ) (feet)	THICKNESS OF IMMISCIBLES LIQUID ZONE (feet)	VOLUME OF IMMISCIBLES REMOVED (ml)	DEPTH TO WATER (feet)	DEPTH TO WELL BOTTOM (feet)
<b>S-4</b>	10/20/93	INACCESSIBLE						
S-5	10/20/93	TOB	FREE PRODUCT	20.28	0.23	VACUMED	20.51	
S-6	10/20/93	TOB	ODOR	NONE		_	21.62	36.63

2.2

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	WIC#: 204-	-5508-	-6200												•	- '				CHECK OHE (1) TOX OHLY	١	TURN A	ROUND THAT
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1961 Concourse Drive Tel: 408-432-8192 Fax: 408-432-8198

MR. JIM KELLER BLAINE TECH 985 TIMOTHY DRIVE SAN JOSE, CA 95133 Workorder # : 9310318 Date Received: 10/21/93 Project ID: 204-5508-6200

Purchase Order: MOH-B813

The following samples were received at Anametrix, Inc. for analysis:

ANAMETRIX ID	CLIENT SAMPLE ID
9310318- 1	S-6
9310318- 2	TB

This report consists of 4 pages not including the cover letter, and is organized in sections according to the specific Anametrix laboratory group or section which performed the analysis(es) and generated the data. The Report Summary that precedes each section will help you determine which Anametrix group is responsible for those test results, and will bear the signatures of the department supervisor and the chemist who have reviewed the analytical data. Please refer all questions to the department supervisor who signed the form.

Anametrix is certified by the California Department of Health Services (DHS) to perform environmental testing under Certificate Number 1234. A detailed list of the approved fields of testing can be obtained by calling our office, or the DHS Environmental Laboratory Accreditation Program at (415)540-2800.

If you have any further questions or comments on this report, please give us a call as soon as possible. Thank you for using Anametrix.

Laboratory Director

## REPORT SUMMARY ANAMETRIX, INC. (408)432-8192

MR. JIM KELLER BLAINE TECH 985 TIMOTHY DRIVE SAN JOSE, CA 95133 Workorder # : 9310318
Date Received : 10/21/93
Project ID : 204-5508-6200
Purchase Order: MOH-B813

Department : GC Sub-Department: TPH

## SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9310318- 1	S-6	WATER	10/20/93	TPHgBTEX
9310318- 2	ТВ	WATER	10/20/93	TPHgBTEX

## REPORT SUMMARY ANAMETRIX, INC. (408)432-8192

MR. JIM KELLER BLAINE TECH 985 TIMOTHY DRIVE SAN JOSE, CA 95133

Workorder # : 9310318 Date Received: 10/21/93
Project ID: 204-5508-6200
Purchase Order: MOH-B813

Department : GC Sub-Department: TPH

QA/QC SUMMARY :

- No QA/QC problems encountered for these samples.

11/3/c3 Department Supervisor

Chemist Date

# ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS (GASOLINE WITH BTEX) ANAMETRIX, INC. - (408) 432-8192

Anametrix W.O.: 9310318 Project Number: 204-5508-6200

Matrix : WATER Date Released : 11/03/93

Date Sampled: 10/20/93

	Reporting Limit	Sample I.D.# S-6	Sample I.D.# TB	Sample I.D.# BO2502E2	 
COMPOUNDS	(ug/L)	-01	-02 	BLANK	 
Benzene Toluene Ethylbenzene Total Xylenes TPH as Gasoline  % Surrogate Rec Instrument I. Date Analyzed RLMF	overy D.	28000 9800 3200 12000 48000 115% HP8 10/26/93 500	ND ND ND ND ND 109% HP8 10/25/93	ND ND ND ND ND 108* HP8 10/25/93	

ND - Not detected at or above the practical quantitation limit for the method.

TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using modified EPA Method 8015 following sample purge and trap by EPA Method 5030.

BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA Method 8020 following sample purge and trap by EPA Method 5030.

RLMF - Reporting Limit Multiplication Factor (Dilution).

Anametrix control limits for surrogate p-Bromofluorobenzene recovery are 61-139%.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

lucia Shor 11/3/93 Analyst Date Cheryl Balma 11/3/53
Supervisor Date

## TOTAL VOLATILE HYDROCARBON LABORATORY CONTROL SAMPLE REPORT EPA METHOD 5030 WITH GC/PID ANAMETRIX, INC. (408) 432-8192

Sample I.D. : LAB CONTROL SAMPLE

Anametrix I.D.: MO2501E3
Analyst: \( \subseteq : WATER Matrix Date Sampled : N/A

Supervisor : 
Date Released : 11/01/93
Instrument I.D.: HP8 Date Analyzed : 10/25/93

COMPOUND	SPIKE AMT. (ug/L)	LCS (ug/L)	REC LCS	%REC LIMITS *
Benzene Toluene Ethylbenzene Total Xylenes	20.0 20.0 20.0 20.0	20.2 20.7 21.9 23.3	101% 103% 110% 117%	52-133 57-136 56-139 56-141
P-BFB			109%	61-139

<sup>\*</sup> Quality control limits established by Anametrix, Inc.