



93 AUG 20 PM 1:16

STP 4B

August 12, 1993

Brian Oliva
Alameda County Department
of Environmental Health
80 Swan Way, Room 200
Oakland, CA 94621

Re: Shell Service Station
WIC #204-5508-2404
2800 Telegraph Avenue
Oakland, California
WA Job #81-700-203

Dear Mr. Oliva:

This letter describes recently completed and anticipated activities at the Shell service station referenced above (Figure 1). This status report satisfies the quarterly reporting requirements prescribed by California Administrative Code Title 23 Waters, Chapter 3, Subchapter 16, Article 5, Section 265.d. Included below are descriptions and results of activities performed in the second quarter 1993 and proposed work for the third quarter 1993.

Second Quarter 1993 Activities:

- Blaine Tech Services, Inc. (BTS) of San Jose, California measured ground water depths in ten of the eleven site wells and collected ground water samples from nine of the eleven site wells. Well S-3 is paved over and could not be located or sampled. Well SR-1 is a ground water extraction well and is not sampled. BTS' report describing these activities and the analytic report for the ground water samples are included as Attachment A.
- Weiss Associates (WA) calculated ground water elevations and compiled the analytic data (Tables 1 and 2) and prepared a ground water elevation contour map (Figure 2).
- On April 8, 1993 WA destroyed monitoring well S-2 to allow PG&E to install an electrical transformer at the site.

Brian Oliva
August 12, 1993

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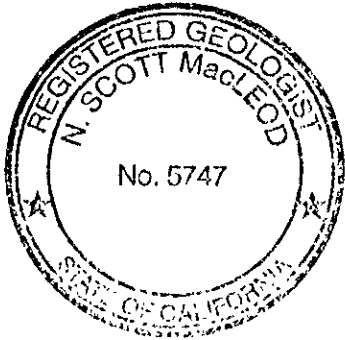
Weiss Associates



Anticipated Third Quarter 1993 Activities:

- WA will submit a report presenting the results of the third quarter 1993 ground water sampling and ground water depth measurements. The report will include tabulated chemical analytic results, ground water elevations and a ground water elevation contour map.
- WA will locate and reset the monitoring well S-3 well vault.

Please call if you have any questions.



Sincerely,
Weiss Associates

J. Michael Asport
Technical Assistant

N. Scott MacLeod, R.G.
Project Geologist

JMA/NSM:jma

J:\SHELL\700\700QM\JY3.WP

Attachments: A - Blaine Tech's Ground Water Monitoring Report

cc: Lynn Walker, Shell Oil Company, P.O. Box 5278, Concord, California 94520-9998
Richard Hiatt, Regional Water Quality Control Board - San Francisco Bay Region, 2101
Webster Street, Suite 500, Oakland, California 94612

Table 1. Ground Water Elevations - Shell Service Station WIC #204-5508-2303, 2800 Telegraph Avenue, Oakland, California

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft)	Ground Water Elevation (ft above msl)
S-1	05/04/92	35.31	9.50	25.81
	08/10/92		10.85	24.46
	11/09/92		10.34	24.97
	02/22/93		7.60	27.71
	06/07/93		8.63	26.68
S-2	05/04/92 ^c	33.91	9.44	24.47
	08/10/92		10.73	23.18
	11/09/92		10.29	23.62
	02/22/93 ^a		9.04	24.87
S-3	05/04/92	33.56	9.22	24.34
	08/10/92		---	---
	11/09/92		---	---
	02/22/93 ^b		---	---
	06/07/93 ^b		---	---
S-4	05/04/92	34.08	9.96	24.12
	08/10/92		11.32	22.76
	11/09/92		11.29	22.79
	02/22/93		9.82	24.26
	06/07/93		10.51	23.57
S-5	05/04/92	33.42	10.27	23.15
	08/10/92		10.68	22.74
	11/09/92		10.69	22.73
	02/22/93		9.45	23.97
	06/07/93		10.23	23.19
S-6	05/04/92	32.59	9.42	23.17
	08/10/92		10.40	22.19
	11/09/92		10.16	22.43
	02/22/93		7.60	24.99
	06/07/93		8.90	23.69
S-7	05/04/92	33.33	11.21	22.12
	08/10/92		12.28	21.05
	11/09/92		11.77	21.56
	02/22/93		8.86	24.47
	06/07/93		10.58	22.75

-- Table 1 continues on next page --

Table 1. Ground Water Elevations - Shell Service Station WIC #204-5508-2303, 2800 Telegraph Avenue, Oakland, California (continued)

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft)	Ground Water Elevation (ft above msl)
S-8	05/04/92	31.97	10.29	21.68
	08/10/92		11.12	20.85
	11/09/92		10.71	21.26
	02/22/93		6.04	25.93
	06/07/93		10.06	21.91
S-9	05/04/92	31.86	10.45	21.41
	08/10/92		11.52	20.34
	11/09/92		11.02	20.84
	02/22/93		8.00	23.86
	06/07/93		10.07	21.79
S-10	05/04/92	32.95	8.54	24.41
	08/10/92		10.43	22.52
	11/09/92		9.14	23.81
	02/22/93		6.72	26.23
	06/07/93		8.08	24.87
S-11	05/04/92	30.78	9.99	20.79
	08/10/92		10.92	19.86
	11/09/92		10.44	20.34
	02/22/93		7.30	23.48
	06/07/93		9.51	21.27
SR-1	05/04/92 ^c	---	9.02	---
	08/10/92		10.29	---
	11/09/92		10.92	---
	02/22/93		6.64	---
	06/07/93		7.36	---

Notes:

- a = Destroyed on April 8, 1993 for onsite construction
 b = Well inaccessible
 c = Top-of-Casing not surveyed

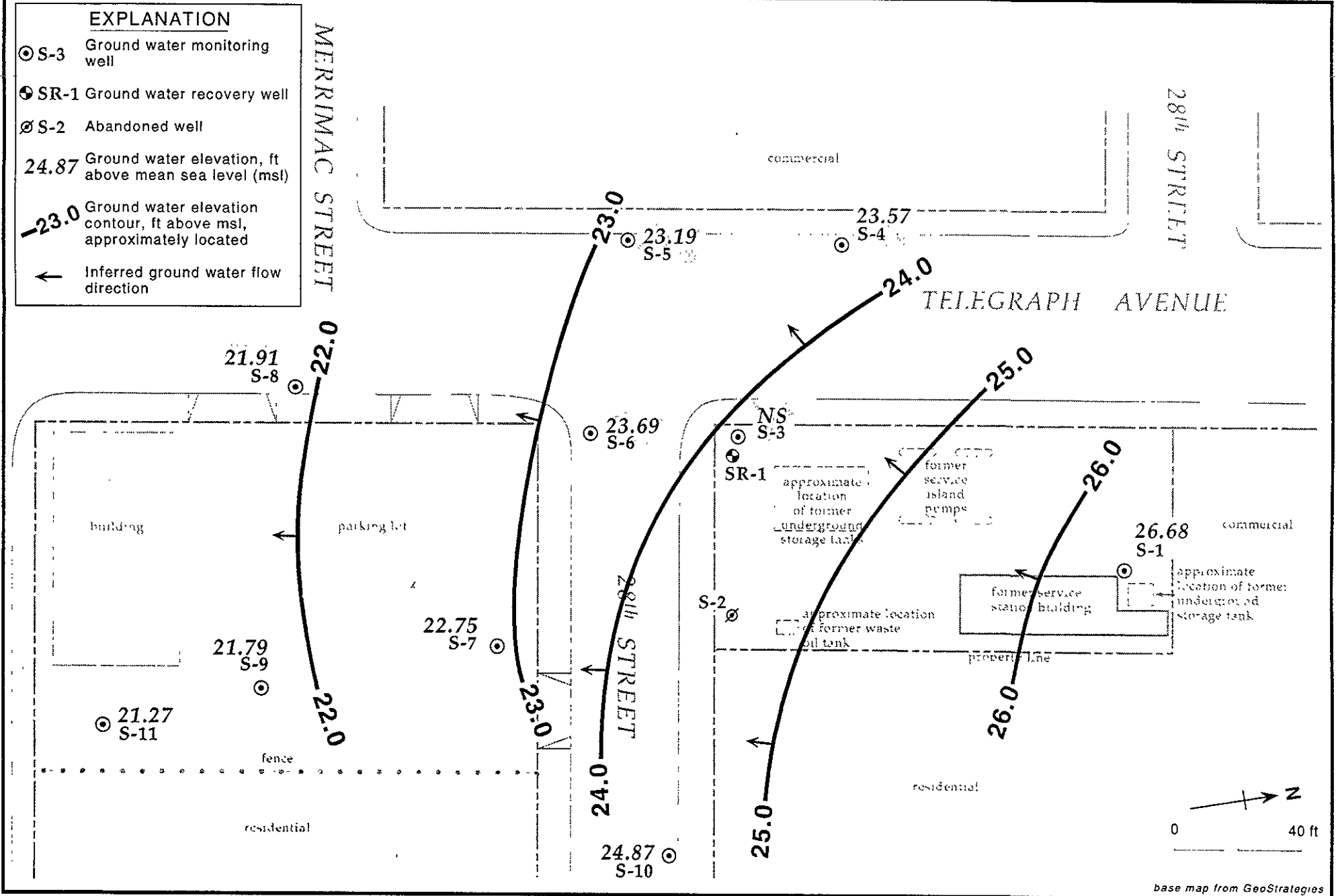


Figure 2. Monitoring Well Locations and Ground Water Elevations - June 7, 1993 - Former Shell Service Station WIC #204-5508-2404, 2800 Telegraph Avenue, Oakland, California

ATTACHMENT A
GROUND WATER MONITORING REPORT AND ANALYTIC REPORT

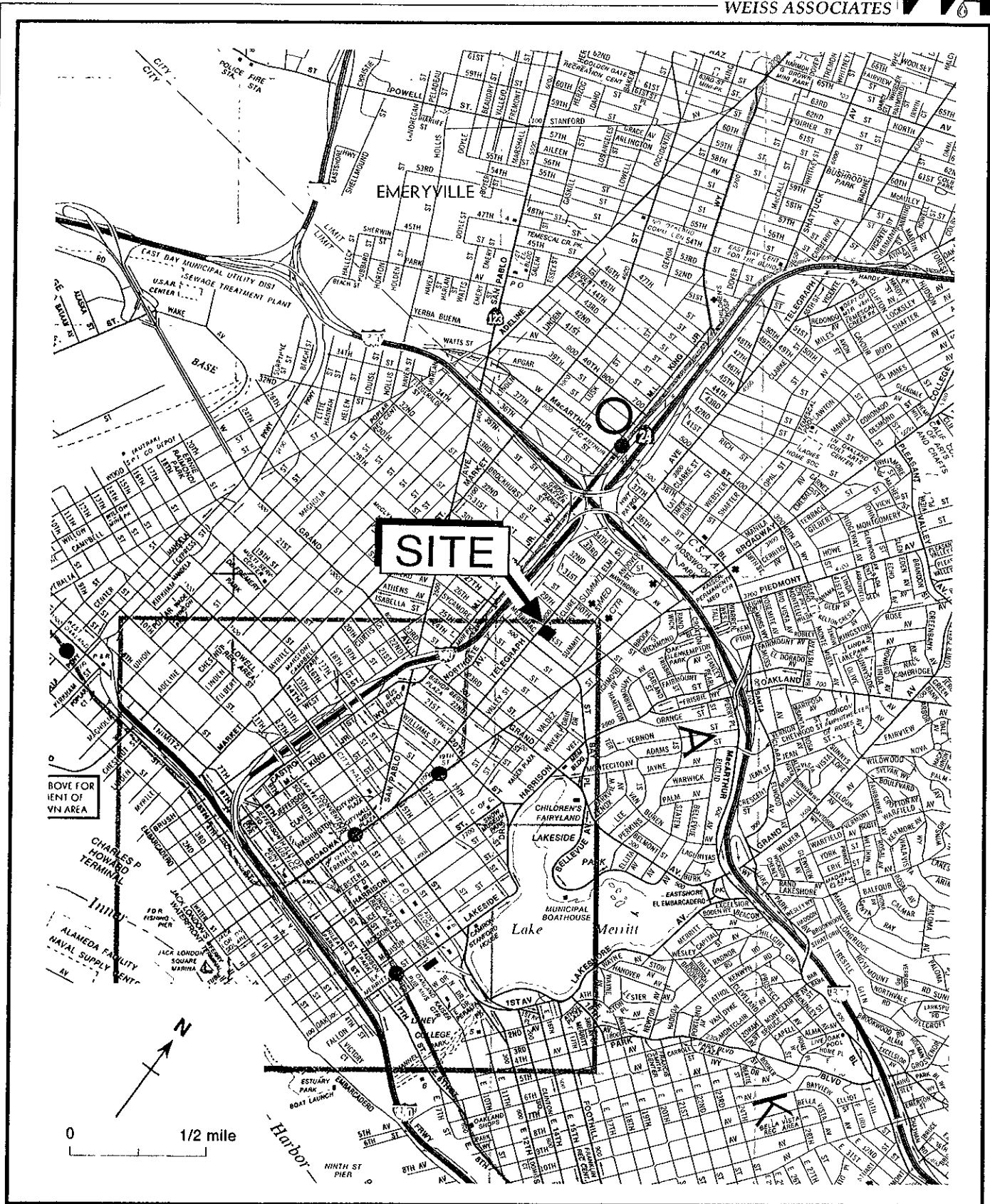


Figure 1. Site Location Map - Former Shell Service Station WIC #204-5508-2303, 2800 Telegraph Avenue, Oakland, California

Table 2. Analytic Results for Ground Water, Former Shell Service Station, WIC #204-5508-2404, 2800 Telegraph Avenue, Oakland, California

Sample ID	Date	Depth to Water (ft)	TPH-G					X
			-----parts per billion (µg/L)-----					
WELLS								
S-1	05/04/92	9.50	<50	<0.5	<0.5	<0.5	<0.5	
	08/10/92	10.85	<50	<0.5	<0.5	<0.5	<0.5	
	11/09/92	10.34	<50	<0.5	<0.5	<0.5	<0.5	
	02/23/93	7.60	<50	<0.5	<0.5	<0.5	<0.5	
	06/07/93	8.63	<50	2.8	0.7	1.3	3.0	
S-2	05/04/92	9.44	1,600	190	240	6	54	
	08/10/92	10.73	<50	4.1	<0.5	<0.5	<0.5	
	09/11/92	10.29	84	19	2.2	0.7	4.3	
	02/23/93	9.04	16,000	1,600	850	480	1,800	
	06/07/93	---	---	---	---	---	---	
S-3	05/04/92	9.22	---	---	---	---	---	
	08/10/92	---	---	---	---	---	---	
	11/09/92	---	---	---	---	---	---	
	02/23/93	---	---	---	---	---	---	
	06/07/93	---	---	---	---	---	---	
S-4	05/04/92	9.96	<50	<0.5	<0.5	<0.5	<0.5	
	08/10/92	11.32	<50	<0.5	<0.5	<0.5	<0.5	
	11/09/92	11.29	<50	<0.5	<0.5	<0.5	<0.5	
	02/23/93	9.82	<50	<0.5	<0.5	<0.5	<0.5	
	06/07/93	10.51	50	9.2	3.3	5.5	14	
S-5	05/04/92	10.27	<50	<0.5	<0.5	<0.5	<0.5	
	08/10/92	10.68	<50	<0.5	<0.5	<0.5	<0.5	
	11/09/92	10.69	<50	<0.5	<0.5	<0.5	<0.5	
	02/23/93	9.45	<50	<0.5	<0.5	<0.5	<0.5	
	06/07/93	10.23	<50	<0.5	<0.5	<0.5	<0.5	
S-6	05/04/92	9.42	3,100	640	23	22	97	
	08/10/92	10.40	3,400	430	26	27	120	
	11/09/92	10.16	2,000	320	15	15	100	
	02/23/93	7.60	14,000	780	380	180	1,300	
	06/07/93	8.90	3,900	1,400	83	56	210	
S-7	05/04/92	11.21	180	1.6	1.5	<0.5	3	
	08/10/92	12.28	190	8	4.7	1.4	8.5	
	11/09/92	11.77	280	16	7.8	4	21	
	02/23/93	8.86	210	13	5.4	2.2	12	
	06/07/93	10.58	90	1.2	1.0	2.5	<0.5	

Weiss Associates



Table 2. Analytic Results for Ground Water, Former Shell Service Station, WIC #204-5510-0303, 5755 Broadway, Oakland, California (continued)

Sample ID	Date	Depth to Water (ft)	TPH-G B E T X				
			-----parts per billion (µg/L)-----				
S-8	05/05/92	10.29	1,600	20	96	420	330
	08/10/92	11.12	1,500	19	60	37	250
	11/09/92	10.71	710	5.7	28	24	120
	02/23/93	6.04	3,800	40	68	54	260
	06/07/93	10.06	1,200	13	65	19	150
S-9	05/05/92	10.45	<50	<0.5	<0.5	<0.5	<0.5
	08/10/92	11.52	<50	<0.5	<0.5	<0.5	<0.5
	11/09/92	11.02	<50	<0.5	<0.5	<0.5	0.7
	02/23/92	8.00	<50	<0.5	<0.5	<0.5	<0.5
	06/07/93	10.07	<50	<0.5	<0.5	<0.5	<0.5
S-10	05/05/92	8.54	<50	<0.5	<0.5	<0.5	<0.5
	08/10/92	10.43	<50	<0.5	<0.5	<0.5	<0.5
	11/09/92	9.14	<50	<0.5	<0.5	<0.5	<0.5
	02/22/93	6.72	<50	<0.5	<0.5	<0.5	<0.5
	06/07/93	8.08	<50	<0.5	<0.5	<0.5	<0.5
S-11	05/04/92	9.99	1,500	55	57	32	190
	08/10/92	10.92	750	29	43	13	120
	11/09/92	10.44	4,100	32	120	62	1,100
	02/23/93	7.30	760	15	37	13	140
	06/07/93	9.51	1,700	40	100	16	360
	06/07/93**	9.51	1,600	51	83	16	300
DTSC MCLs			NE	1.0	680	100*	1,750

Abbreviations:

TPH-G = Total petroleum hydrocarbons as gasoline by Modified EPA Method 8015
 B = Benzene by EPA Method 8020
 E = Ethylbenzene by EPA Method 8020
 T = Toluene by EPA Method 8020
 X = Xylenes by EPA Method 8020
 --- = Not analyzed
 DTSC MCLs = California Department of Toxic Substances Control maximum contaminant levels for drinking water
 NE = Not established
 <n = Not detected at detection limits of n ppb
 dup = Duplicate sample

Notes:

a = DTSC recommended action level for drinking water; MCL not established





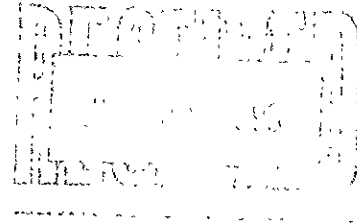
BLAINE TECH SERVICES INC.

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

June 28, 1993

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

Attn: Daniel T. Kirk



SITE:
Shell WIC # 204-5508-2303
2800 Telegraph Ave.
Oakland, California

QUARTER:
2nd quarter of 1993

QUARTERLY GROUNDWATER SAMPLING REPORT 930607-W-1

This report contains data collected during routine inspection, gauging and sampling of groundwater monitoring wells performed by Blaine Tech Services, Inc. in response 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 the 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.

TABLE OF WELL GAUGING DATA

WELL I.D.	WELL DIAMETER (inches)	DATA COLLECTION DATE	MEASUREMENTS REFERENCED TO	QUALITATIVE OBSERVATIONS (sheen)	DEPTH TO FIRST IMMISCIBLE LIQUID (FPZ) (feet)	THICKNESS OF IMMISCIBLE LIQUID ZONE (feet)	VOLUME OF IMMISCIBLES REMOVED (ml)	DEPTH TO WATER (feet)	DEPTH TO WELL BOTTOM (feet)
S-1	3	06-07-93	TOB	--	NONE	--	--	8.63	27.81
S-2	--	06-07-93	WELL WAS DESTROYED.						--
S-3	--	06-07-93	UNABLE TO LOCATE.						--
S-4	3	06-07-93	TOB	--	NONE	--	--	10.51	30.42
S-5	3	06-07-93	TOB	--	NONE	--	--	10.23	30.58
S-6	3	06-07-93	TOB	ODOR	NONE	--	--	8.90	22.16
S-7	3	06-07-93	TOB	--	NONE	--	--	10.58	30.74
S-8	3	06-07-93	TOB	ODOR	NONE	--	--	10.06	19.18
S-9	3	06-07-93	TOB	--	NONE	--	--	10.07	30.02
S-10	3	06-07-93	TOB	--	NONE	--	--	8.08	24.24

TABLE OF WELL GAUGING DATA

WELL I.D.	WELL DIAMETER (inches)	DATA COLLECTION DATE	MEASUREMENTS REFERENCED TO	QUALITATIVE OBSERVATIONS (seen)	DEPTH TO FIRST IMMISCIBLE LIQUID (FPZ) (feet)	THICKNESS OF IMMISCIBLE LIQUID ZONE (feet)	VOLUME OF IMMISCIBLES REMOVED (ml)	DEPTH TO WATER (feet)	DEPTH TO WELL BOTTOM (feet)
S-11 *	3	06-07-93	TOB	ODOR	NONE	--	--	9.51	19.17
SR-1	6	06-07-93	TOB	--	NONE	--	--	7.36	34.70

* Sample DUP is a duplicate sample taken from well S-11.

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 may be removed in cases where more evacuation is needed to achieve stabilization of water parameters. Less than three case volumes of water may be obtained in cases where the well dewateres 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.

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 site 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. Either the requested analyses or the specific analytes are written on the sample label (e.g. TPH-G, BTEX).

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.


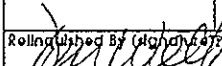
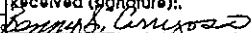


Sigrud Blaine
for Richard C. Blaine

RCB/cdk

attachments: chain of custody
certified analytical report

cc: Weiss Associates
5500 Shellmound Street
Emeryville, CA 94608-2411
ATTN: Michael Asport

9306112 (18)

 SHELL OIL COMPANY RETAIL ENVIRONMENTAL ENGINEERING - WEST		CHAIN OF CUSTODY RECORD Serial No: _____				Date: 6/1/93 Page 2 of 2																																																																																														
Site Address: 2800 Telegraph Oakland		Analysis Required				LAB: Parametrix																																																																																														
WIC#: 204-5508-2303		TPH (EPA 8015 Mod. Gas) TPH (EPA 8015 Mod. Diesel) BTEX (EPA 8020/602) Volatile Organics (EPA 8240) Test for Disposal Combination TPH 8015 & BTEX 8020 Asbestos Container Size Preparation Used Composite Y/N	CHECK ONE (1) BOX ONLY Quantity Monitoring <input checked="" type="checkbox"/> 641 Site Investigation <input type="checkbox"/> 641 Soil Classy/Disposal <input type="checkbox"/> 642 Water Classy/Disposal <input type="checkbox"/> 643 Soil/Water Rem. or Syst. O & M <input type="checkbox"/> 642 Water Rem. or Syst. O & M <input type="checkbox"/> 643 Other <input type="checkbox"/>		TURN AROUND TIME 24 hours <input type="checkbox"/> 48 hours <input type="checkbox"/> 15 days <input checked="" type="checkbox"/> (Normal) Other <input type="checkbox"/>																																																																																															
Shell Engineer: Dan Kirk Phone No.: 510 675-6168 Fax #: _____			24 hours <input type="checkbox"/> 48 hours <input type="checkbox"/> 15 days <input checked="" type="checkbox"/> (Normal) Other <input type="checkbox"/>		NOTE: Halty Lab or soon as Possible of 24/48 hrs. TAT.																																																																																															
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Consultant Contact: Jim Keller Phone No.: 408 945-5535 Fax #: _____			24 hours <input type="checkbox"/> 48 hours <input type="checkbox"/> 15 days <input checked="" type="checkbox"/> (Normal) Other <input type="checkbox"/>		NOTE: Halty Lab or soon as Possible of 24/48 hrs. TAT.																																																																																															
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Sampled by: Don Weitz Printed Name: DON WEITZ		24 hours <input type="checkbox"/> 48 hours <input type="checkbox"/> 15 days <input checked="" type="checkbox"/> (Normal) Other <input type="checkbox"/>		NOTE: Halty Lab or soon as Possible of 24/48 hrs. TAT.																																																																																																
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Relinquished By (signature):  Printed Name: DON WEITZ		Date: 6-8-93 Time: 1305		Received (signature):  Printed Name: BENNY S. CARRIZOSA		Date: 6-8-93 Time: 1305																																																																																														
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Relinquished By (signature): _____ Printed Name: _____		Date: _____ Time: _____		Received (signature): _____ Printed Name: _____		Date: _____ Time: _____																																																																																														



Inchcape Testing Services

Anamatrix Laboratories

1961 Concourse Drive #E
 San Jose, CA 95131
 Tel: 408-432-8192
 Fax: 408-432-8198

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

Workorder # : 9306112
 Date Received : 06/08/93
 Project ID : 204-5508-2303
 Purchase Order: MOH-B813


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


ANAMATRIX ID	CLIENT SAMPLE ID
9306112- 1	S-1
9306112- 2	S-4
9306112- 3	S-5
9306112- 4	S-9
9306112- 5	S-11
9306112- 6	S-8
9306112- 7	S-10
9306112- 8	S-7
9306112- 9	S-6
9306112-10	DUP
9306112-11	EB
9306112-12	TB

This report consists of 8 pages not including the cover letter, and is organized in sections according to the specific Anamatrix 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 Anamatrix 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.

Anamatrix 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 Anamatrix.


 Sarah Schoen, Ph.D.
 Laboratory Director


 06/22/93
 Date

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

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

Workorder # : 9306112
Date Received : 06/08/93
Project ID : 204-5508-2303
Purchase Order: MOH-B813
Department : GC
Sub-Department: TPH

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9306112- 1	S-1	WATER	06/07/93	TPHgBTEX
9306112- 2	S-4	WATER	06/07/93	TPHgBTEX
9306112- 3	S-5	WATER	06/07/93	TPHgBTEX
9306112- 4	S-9	WATER	06/07/93	TPHgBTEX
9306112- 5	S-11	WATER	06/07/93	TPHgBTEX
9306112- 6	S-8	WATER	06/07/93	TPHgBTEX
9306112- 7	S-10	WATER	06/07/93	TPHgBTEX
9306112- 8	S-7	WATER	06/07/93	TPHgBTEX
9306112- 9	S-6	WATER	06/07/93	TPHgBTEX
9306112-10	DUP	WATER	06/07/93	TPHgBTEX
9306112-11	EB	WATER	06/07/93	TPHgBTEX
9306112-12	TB	WATER	06/04/93	TPHgBTEX

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

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

Workorder # : 9306112
Date Received : 06/08/93
Project ID : 204-5508-2303
Purchase Order: MOH-B813
Department : GC
Sub-Department: TPH

QA/QC SUMMARY :

- No QA/QC problems encountered for these samples.

Cheryl E. ... 6/22/93
Department Supervisor Date

Reggie Dawson 6/22/93
Chemist Date

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

Anamatrix W.O.: 9306112
Matrix : WATER
Date Sampled : 06/07/93

Project Number : 204-5508-2303
Date Released : 06/22/93

	Reporting Limit	Sample I.D.# S-1	Sample I.D.# S-4	Sample I.D.# S-5	Sample I.D.# S-9	Sample I.D.# S-11
COMPOUNDS	(ug/L)	-01	-02	-03	-04	-05
Benzene	0.5	2.8	9.2	ND	ND	40
Toluene	0.5	1.3	5.5	ND	ND	16
Ethylbenzene	0.5	0.7	3.3	ND	ND	100
Total Xylenes	0.5	3.0	14	ND	ND	360
TPH as Gasoline	50	ND	50	ND	ND	1700
% Surrogate Recovery		114%	116%	113%	109%	110%
Instrument I.D.		HP21	HP21	HP21	HP21	HP21
Date Analyzed		06/12/93	06/12/93	06/12/93	06/12/93	06/13/93
RLMF		1	1	1	1	5

- ND - Not detected at or above the practical quantitation limit for the method.
- TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GC/FID 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.

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

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

Peggie Davison 6/22/93
Analyst Date

Cheryl Balmer 6/22/93
Supervisor Date

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

Anamatrix W.O.: 9306112
Matrix : WATER
Date Sampled : 06/07/93

Project Number : 204-5508-2303
Date Released : 06/22/93

Reporting Limit	Sample I.D.# S-8	Sample I.D.# S-10	Sample I.D.# S-7	Sample I.D.# S-6	Sample I.D.# DUP	
COMPOUNDS (ug/L)	-06	-07	-08	-09	-10	
Benzene	0.5	13	ND	1.2	1400	51
Toluene	0.5	19	ND	2.5	56	16
Ethylbenzene	0.5	65	ND	1.0	83	83
Total Xylenes	0.5	150	ND	ND	210	300
TPH as Gasoline	50	1200	ND	90	3900	1600
% Surrogate Recovery	119%	111%	105%	125%	123%	
Instrument I.D.	HP21	HP21	HP21	HP21	HP21	
Date Analyzed	06/13/93	06/12/93	06/12/93	06/14/93	06/14/93	
RLMF	10	1	1	25	10	

- ND - Not detected at or above the practical quantitation limit for the method.
- TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GC/FID 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.

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

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

Peggie Dawson 6/22/93
Analyst Date

Chavil Balman 6/22/93
Supervisor Date

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

Anamatrix W.O.: 9306112
Matrix : WATER
Date Sampled : 06/04 & 07/93

Project Number : 204-5508-2303
Date Released : 06/22/93

	Reporting Limit	Sample I.D.# EB	Sample I.D.# TB	Sample I.D.# BU1201E2	Sample I.D.# BU1401E2
COMPOUNDS	(ug/L)	-11	-12	BLANK	BLANK
Benzene	0.5	ND	ND	ND	ND
Toluene	0.5	ND	ND	ND	ND
Ethylbenzene	0.5	ND	ND	ND	ND
Total Xylenes	0.5	ND	ND	ND	ND
TPH as Gasoline	50	ND	ND	ND	ND
% Surrogate Recovery		115%	112%	113%	116%
Instrument I.D.		HP21	HP21	HP21	HP21
Date Analyzed		06/12/93	06/12/93	06/12/93	06/14/93
RLMF		1	1	1	1

- 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.

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

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

Reggie Dawson 6/22/93
Analyst Date

Charles B. ... 6/22/93
Supervisor Date

TOTAL VOLATILE HYDROCARBON MATRIX SPIKE REPORT
 EPA METHOD 5030 WITH GC/FID
 ANAMETRIX, INC. (408) 432-8192

Sample I.D. : 204-5508-23-3 S-10
 Matrix : WATER
 Date Sampled : 06/07/93
 Date Analyzed : 06/12/93

Anamatrix I.D. : 06112-7
 Analyst : *RD*
 Supervisor : *J*
 Date Released : 06/22/93
 Instrument ID : HP21

COMPOUND	SPIKE AMT (ug/L)	SAMPLE AMT (ug/L)	REC MS (ug/L)	% REC MS	REC MD (ug/L)	% REC MD	RPD	% REC LIMITS
GASOLINE	500	0	530	106%	510	102%	-4%	48-149
P-BFB				102%		104%		61-139

* Limits established by Anamatrix, Inc.

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

Sample I.D. : LAB CONTROL SAMPLE
 Matrix : WATER
 Date Sampled : N/A
 Date Analyzed : 06/12/93

Anamatrix I.D. : LCSW0612
 Analyst : RD
 Supervisor : CS
 Date Released : 06/22/93
 Instrument I.D.: HP21

COMPOUND	SPIKE AMT. (ug/L)	REC LCS (ug/L)	%REC LCS	% REC LIMITS
GASOLINE	500	540	108%	67-127
SURROGATE			106%	61-139

* Quality control established by Anamatrix, Inc.