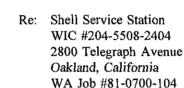
5500 Shellmound Street, Emeryville, CA 94608-2411

Fax: 510-547-5043 Phone: 510-450-6000

October 27, 1994

Brian Oliva Alameda County Department of Environmental Health 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577



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 2652.d. Included below are descriptions and results of activities performed in the third quarter 1994 and proposed work for the fourth quarter 1994.

Third Quarter 1994 Activities:

- Blaine Tech Services, Inc. (BTS) of San Jose, California measured ground water depths and collected ground water samples from the site wells. 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).

Anticipated Fourth Quarter 1994 Activities:

- WA will submit a report presenting the results of the fourth quarter 1994 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.
- California Regional Water Quality Control Board (RWQCB) personnel have indicated that the RWQCB
 will allow well sampling frequency reductions on a site specific basis if the frequency reductions are
 justified by site conditions. WA reviewed historic ground water data for this site to determine the
 appropriate well sampling frequencies. Our criteria used to determine sampling frequencies are
 described in detail in Attachment B. Our specific recommendations for this site are presented in Table

3. WA will implement these new well sampling frequencies unless we are notified otherwise within 60 days from the date of this letter.

2

Please call if you have any questions.

Sincerely,
Weiss Associates

No. EG 1576
CERTIFIED
ENGINEERING
GEOLOGIST

James W. Carmody, C.E.G.
Senior Project Hydrogeologist

JMA/JWC:jma

J:\SHELL\0700\QM\700QMAU4.WP

Attachments:

A - Blaine Tech's Ground Water Monitoring Report

B - Sampling Frequency Criteria

cc: Lynn Walker, Shell Oil Company, P.O. Box 4023, Concord, California 94524 Richard Hiett, Regional Water Quality Control Board - San Francisco Bay Region, 2101 Webster Street, Suite 500, Oakland, California 94612



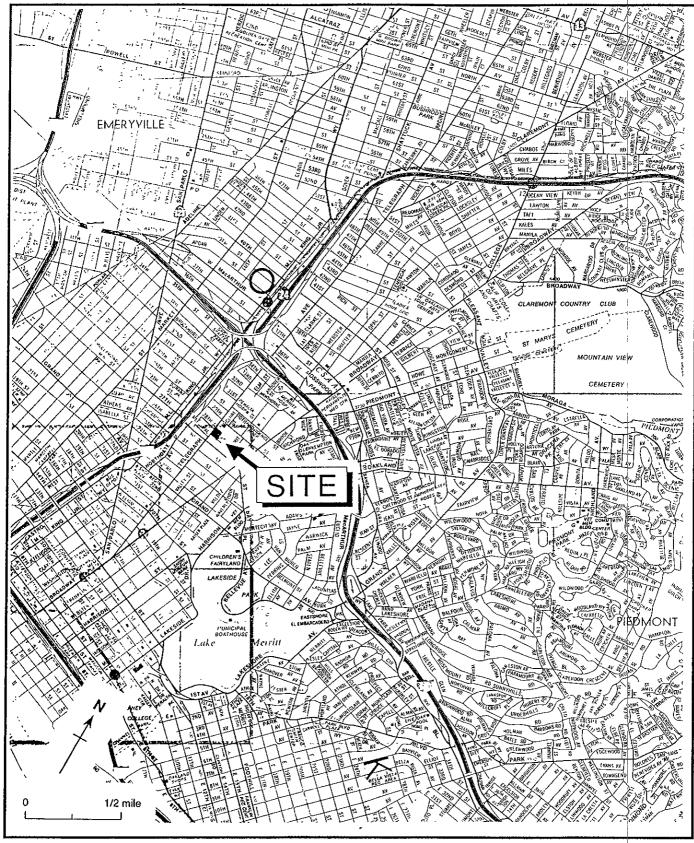


Figure 1. Site Location Map - Former Shell Service Station WIC #204-5508-2404, 2800 Telegraph Avenue, Oakland, California

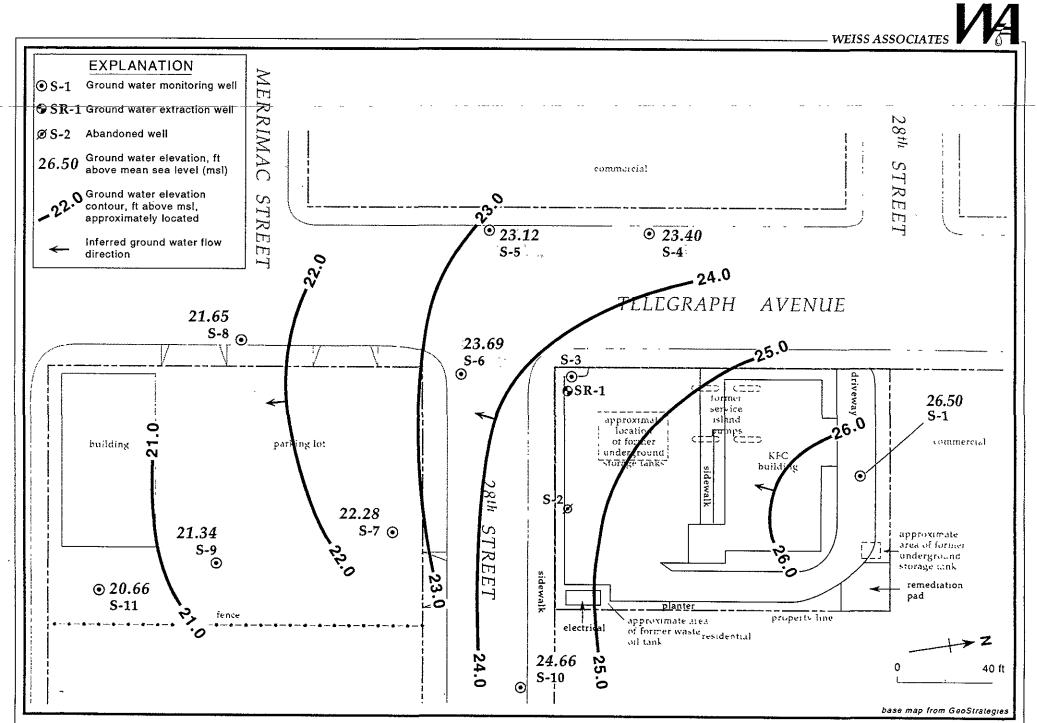


Figure 2. Monitoring Well Locations and Ground Water Elevations - August 1, 1994 - Former Shell Service Station WIC #204-5508-2404, 2800 Telegraph Avenue, Oakland, California

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
	08/13/93		9.20	26.11
	11/18/93		10.58	24.73
	02/10/94		8.41	26.90
	05/03/94		9.09	26.22
	08/01/94		8.81	26.50
S-2	05/04/92	33.91	9.44	24.47
	08/10/92		10.73	23.18
	11/09/92		10.29	23.62
	02/22/93*		9.04	24.87
S-3	05/04/92	33.56	9.22	24.34
	08/10/92 ^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
	08/13/93		11.05	23.03
	11/18/93		11.34	22.74
	02/10/94		9.93	24.15
	05/03/94		10.40	23.68
	08/01/94		10.68	23.40
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
	08/13/93		10.58	22.84
	11/18/93		10.70	22.72
	02/10/94		9.75	23.67
	05/03/94		10.19	23.23
	08/01/94		10.30	23.12

⁻⁻ 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-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
	08/13/93		9.39	23.20
	11/18/93		10.32	22.27
	02/10/94		8.68	23.91
	05/03/94		9.20	23.39
	08/01/94		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
	08/13/93		11.34	21.99
	11/18/93		12.00	21.33
	02/10/94		9.88	23.45
	05/03/94		10.75	22.58
	08/01/94		11.05	22.28
C 0	05/04/02	21.07	10.00	21.60
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
	08/13/93		10.56	21.41
	11/18/93		10.90	21.07
	02/10/94		9.53	22.44
	05/03/94		10.06	21.91
	08/01/94	•	10.32	21.65
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
	08/13/93		10.92	20.94
	11/18/93		11.19	20.67
	02/10/94		9.16	22.70
	05/03/94		10.03	21.83
	08/01/94			
			10.52	21.83

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-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
	08/13/93		8.83	24.12
	11/18/93		9.46	23.49
	02/10/94		7.41	25.54
	05/03/94		8.16	24.79
	08/01/94		8.29	24.66
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
	08/13/93		10.39	20.39
	11/18/93		10.64	20.14
	02/10/94		8.50	22.28
	05/03/94		9.42	21.36
	08/01/94		10.12	20.66
SR-1	05/04/92°	an de ca	9.02	
	08/10/92		10.29	
	11/09/92		10.92	
	02/22/93		6.64	
	06/07/93		7.36	
	08/13/93		7.96	
	11/18/93		10.02	
	02/10/94			'
	05/03/94		8.28	
	08/01/94		7.98	

Notes:

a = Destroyed on April 8, 1993 for onsite construction

b = Well inaccessible since August 1992

c = Top-of-Casing not surveyed

Sample 10	Date	Depth to Water (ft)	TPH-G <	Вp	ϵ varts per billion (μ	T g/L)	χ >
WELLS							
S-1	05/04/92 08/10/92 11/09/92 02/23/93 06/07/93 08/13/93 11/18/93 02/10/94 05/03/94 08/01/94	9.50 10.85 10.34 7.60 8.63 9.20 10.58 8.41 9.09 8.81	<50 <50 <50 <50 <50 <50 <50 <50 <50	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <0.7 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <0.5 1.35 <0.5 <0.5 <0.5 <0.5	\$55555555555 \$0000000000000000000000000
5-2	05/04/92 08/10/92 09/11/92 02/23/93 06/07/93	9.44 10.73 10.29 9.04 Well destroyed	1.600 <50 84 16.000	190 4.1 19 1.600	240 <0.5 2.2 850	6 <0.5 0.7 480	54 <0.5 4.3 1.800
S-3	05/04/92 08/10/92	9.22				577	
5-4	05/04/92 08/10/92 11/09/92 02/23/93 06/07/93 08/13/93 11/18/93 02/10/94 05/03/94	9.96 11.32 -11.29 9.82 10.51 11.05 11.34 9.93 10.40 10.68	<50 <50 <50 <50 <50 <50 <50 <50 <50	<pre><0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5</pre>	<pre><0.5 <0.5 <0.5 <0.5 <0.3 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5</pre>	<pre><0.55 <0.55 <0.55 50.55 <0.55 <</pre>	<0.55 <0.55 <0.55 <14 .5 <0.56 <0.56 <0.55
5-5 	05/04/92 08/10/92 11/09/92 02/23/93 06/07/93 08/13/93 11/18/93 02/10/94 05/03/94 08/01/94	10.27 10.68 10.69 9.45 10.23 10.58 10.70 9.75 10.19 10.30	<50 <50 <50 <50 <50 <50 <50 <50 <50	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	\$5555555555555 \$00000000000000000000000
5-6	05/04/92 08/10/92 11/09/92	9.42 10.40 10.16	3,100 3,400 2,000	640 430 320	23 26 15	22 27 15	97 120 100

⁻⁻ Table 2 continues on next page --

Sample ID	Date	Depth to Water (ft)	TPH-G <	В	Ε Parts per billion (μ	g/L)	X
	02/23/93 06/07/93 08/13/93 11/18/93 02/10/94 05/03/94 08/01/94	7.60 8.90 9.39 10.32 8.68 9.20 8.90 8.90	14.000 3.900 4.000 ^b 80 4.100 4.700 2,900 2,600	780 1.400 890 5.0 370 550 370 340	380 83 <0.5 <0.5 21 85 11 7.7	180 56 16 <0.5 23 28 11 8.8	1.300 210 41 <0.5 90 340 43 33
S-7	05/04/92 08/10/92 11/09/92 02/23/93 06/07/93 08/13/93 11/18/93 02/10/94 05/03/94 08/01/94	11.21 12.28 11.77 8.86 10.58 11.34 12.00 9.88 10.75 11.05	180 190 280 210 90 140 440 250 ⁶ 130	1 6 18 16 13 1.2 4.0 43 <0.5 <0.5 4.8	1.5 4.7 7.8 5.4 1.0 <0.5 0.9 1.8 <0.5 <0.5	<0.5 1 4 2.2 2.5 0.8 4.9 <0.5 <0.5	3 8.5 21 12 <0.5 0.5 4.2 <0.5 <0.5 <0.5
S-8	05/05/92 08/10/92 11/09/92 02/23/93 06/07/93 08/13/93 11/18/93 02/10/94 02/10/94 05/03/94 05/03/94 08/01/94	10.29 11.12 10.71 6.04 10.06 10.56 10.90 9.53 9.53 10.06 10.06	1,600 1,500 710 3,800 1,200 1,300 870 2,400 2,400 3,100 3,000 1,500	20 19 5.7 40 13 21 16 11 11 12 21 20	96 60 28 68 65 49 59 120 100 130 120 39	420 37 24 54 19 23 55.3 55 46 27 25 18	330 250 120 260 150 250 230 530 440 370 340 190
S-9	05/05/92 08/10/92 11/09/92 02/23/92 06/07/93 08/13/93 11/18/93 02/10/94 05/03/94	10.45 11.52 11.02 8.00 10.07 10.92 11.19 9.16 10.03	<50 <50 <50 <50 <50 140° 170 140° <50	<pre><0 5 <0 5</pre>	<pre><0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5</pre>	<pre><0 5 <0 5 <0 5 <0 5 <0 5 <0 6 <0 6</pre>	<0.5 <0.5 <0.7 <0.5 <0.5 <0.5 <0.5
S-10	05/05/92 08/10/92	8 54 10.43	<50 <50	<0 5 <0 5	<0 5 <0 5	<0 5 <0 5	<0.5 <0.5

⁻⁻ Table 2 continues on next page --

Table 2. Analytic Results for Ground Water. Former Shell Service Station. WIC #204-5508-2404. 2800 Telegraph Ave.. Oakland. California (continued)

Sample ID	Date	Depth to Water (ft)	TPH-G <	В	. ${\sf E}$ parts per billion (μ	T g/L)	X
	11/09/92 02/22/93 06/07/93 08/13/93 11/18/93 02/10/94 05/03/94 08/01/94	9.14 6.72 8.08 8.83 9.46 7.41 8.16 8.29	<50 <50 <50 <50 <50 <50 <5 0	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<pre>\$0.55 \$</pre>	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5
S-11	05/04/92 08/10/92 11/09/92 02/23/93 06/07/93 06/07/93 08/13/93 08/13/93 01/18/93 02/10/94 05/03/94 08/01/94	9.99 10.92 10.44 7.30 9.51 9.51 10.39 10.39 10.64 8.50 9.42 10.12	1.500 750 4.100 760 1.700 1.600 60 70 150 4.400 65 240	55 29 32 15 40 51 0.9 2.1 7.8 53 1.5	57 43 120 37 100 83 0.8 0.9 9.0 160 0.53 6.9	32 13 62 13 16 16 <0.5 <0.5 1.0 19 <0.5 6.7	190 120 1.100 140 360 300 1.2 2.1 12 390 0.59
SR-1	11/18/93 11/18/93dup	10.02 10.02	<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5
Trip Blank	06/04/93 08/13/93 11/18/93 02/10/94 05/03/94 08/01/94		<50 <50 <50 <50 <50 <50	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5
DTSC MCLs			NE	1.0	680	100°	1,750

ociates

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

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</pre>

dup = Duplicate sample

Notes:

- a = Well paved over, inaccessible since August, 1992.
- b = The concentration reported as gasoline is primarily due to the presence of a combination of gasoline and a discrete peak not indicative of gasoline.
- c = The concentration reported as gasoline is primarily due to the
- presence of a discrete peak not indicative of gasoline.

 d = DTSC recommended action level for drinking water: MCL not established

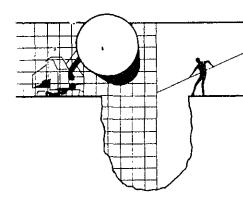


Table 3. Recommended Sampling Frequency Modifications for Ground Water Monitoring Wells Shell Service Station #WIC 204-5508-2404, 2800 Telegraph Ave, Oakland, California

Monitoring Well	Current Sampling Frequency	Recommended Sampling Frequency	Rationale for Recommended Sampling Frequency
S-1	Quarterly	Annually	Clean upgradient well, hydrocarbon concentrations below MCLs for eight of nine quarters
S-4	Quarterly	Annually	Clean crossgradient well, hydrocarbon concentrations below MCLs for eight of nine quarters
S-5	Quarterly	Biannually	Clean down and crossgradient well, hydrocarbon concentrations below MCLs for nine quarters
S-6	Quarterly	Annually	Intermediate well, stable hydrocarbon concentrations for nine quarters
S-7	Quarterly	Biannually	Intermediate well, stable hydrocarbon concentrations for nine quarters
S-8	Quarterly	Quarterly	Downgradient well, stable hydrocarbon concentrations for 10 quarters
S-9	Quarterly	Annually	Intermediate well, hydrocarbon concentrations below MCLs for nine quarters
S-10	Quarterly	Annually	Clean crossgradient well, hydrocarbon concentrations below MCLs for 10 quarters
S-11	Quarterly	Quarterly	Down and crossgradient well, stable hydrocarbon concentrations for 10 quarters

ATTACHMENT A

GROUND WATER MONITORING REPORT AND ANALYTIC REPORT



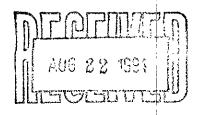
BLAINE TECH SERVICES INC.

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

August 19, 1994

Shell Oil Company P.O. Box 4023 Concord, CA 94524

Attn: Lynn Walker



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

QUARTER: 3rd quarter of 1994

QUARTERLY GROUNDWATER SAMPLING REPORT 940801-K-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 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 removed 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 National Environmental Testing, Inc. in Santa Rosa, California. NET is a California Department of Health Services certified Hazardous Materials Testing Laboratory and is listed as DOHS HMTL #178.

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/lp

attachments: table of well gauging data

chain of custody

certified analytical report

cc: Weiss Associates

5500 Shellmound Street

SEmeryville, CA 94608-2411

ATTN: Michael Asport

SHELL OIL COMPANY 1721 CHAIN OF CUSTODY RECORD Serial No: 940801 - K/ RETAIL ENVIRONMENTAL ENGINEERING - WEST Sile Address: Page 012 2800 Telegraph Ave., Oakland Analysis Required Ver LAB: WIC#: 204-5508-2303 CHECK OHE (1) TOX OHEY CT/DI THE CHUOSA HELT Shell Engineer: Phone No.: (510) gaholaaki yhehauO 675-6169 Fax #: 675-6172 Lynn Walker 24 hours [Consulloni Nome & Address: Blaine Tech Services, Inc. 985 Timothy Drive San Jose, CA Sie laverligation ☐ ¥41 44 hours Combination TPH 8015 & BTEX 8020 Sol Cloudy/Disposal D suz 16 days X (Normal) Consultant Contact: Phone No.: (408) Wofet 8240) □ +440 TPH (EPA 8015 Mod, Diesel). Closelly/Disposal Jim Keller 995-5535 |Fax #: 293-8773 Sol/Ak tem or Sys. D 5412 Commonis: (EPA NOTE: Holly Lab as soon as fourble of 24/48 hrs. TAT. Water tem, or lys. TPH (EPA 8015 Mod. BIEX (EPA 8020/602) D kus Volalie Organics Sampled by: Disposal Preparation Used Ϋ́ Container Size Printed Name: KejiL Brown Asbestos SAMPLE .. MATERIAL Sample ID CONDITIONA Dale No. of \$ludge DESCRIPTION Soll Molet 1fA conts. COMMENTS 5-1 3 5-4 3 5-5 3 5.6 3 5-7 3 5-8 3 5-10 Rollinguishod & w (2000 huro): Printed Name: 1 Date: 8/2/7 (Received (sto) rature): free (Date: 9/2/6 Received (sto) rature): Printed Rame:

Of LUMBLE
Printed Name: Kelt Dote: 8/2/7 Relinguished By (stone lure): Pilnled Nome: lime: Dre: 16130 Dale: Relinquished By (signature): Printed Name: Dale: Received (signature): Ilme: Printed Name: Dale 2/3/44 Ilme: Alorse Via NCS THE LABORATORY MUST PROVIDE A COPY OF THIS CHAM-OF-CUSTODY WITH INVOICE AND RESULTS Time: 08! 30

RETAIL ENVIRO	NMENTA	L ENGINE	ERING	- WE	ST						_		10	DY 8c	RE(2/-	CORD	Dala Pag	0: .8/1/44 0 2 01 2
WIC#: 204-5508-2				+-			An	aly	sls R	eqt	ilre	d 7	 _			LAB:	Xe	<u>~~~~</u>
Lynn Walker Consultant Name & Address Blaine Tech Services, 985 Timothy Drive Sa Consultant Contact: Jim Keller Comments: Sampled by: KCB Printed Name: KeitL Sample ID Date EB TB	: Inc. n Jose, C	Phone No 995–5535 Fax #: 29	5_61 <i>72</i> -: (408) 3_8773		TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volaille Organics (EPA 8240)	. Tost for Disposal	Combination TPH 8015 & BTEX 8020			- Asbesfos	Container Size	Preparation Used	Compostle Y/N	Cluedady Montering Site Investigation Soit Closeky/Obposed Water Closeky/Obposed Soit/Ab term or Sys. O & M Oder Chart MATERIAL DESCRIPTION	LLI] LLI] LLI] LLI] LLI]	TUEN AROUNO NMI 24 hours 44 hours 54 hours 64 ho
Illinguished By (signghure):	Printed Name	i UMBLA	ے	Dale: Ilme: Dale:	# L	153	Recei	V 00 (ng n	ture);	,			Pil	oled Z	Berne: Lun IR & Name:		Oole: \$\frac{72}{7}\$

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 (mi)	DEPTH TO WATER (feet)	DEPTH TO WELL BOTTOM (feet)
			Carractiy	(1001)	(1001)	(IIII)	(1001)	(1001)
S-1	8/1/94	TOB	-	NONE	-	•	8.81	27.20
S-4	8/1/94	TOB		NONE	-	-	86.01	30.36
\$-\$	8/1/94	TOB	·	NONE	_	-	10.30	30.55
S-6 *	8/1/94	TOB	ODOR	NONE		-	8.90	22.14
S-7	8/1/94	TOB	-	NONE	-	⊶	11.05	30.72
\$-8	8/1/94	TOB	ODOR	NONE		-	10.32	19.15
S-9	8/1/94	TOB	-	NONE	_	_	10.52	30.00
S-10	8/1/94	TOB	-	NONE	-	-	8.29	24.24
S-11	8/1/94	TOB	-	NONE		_	10.12	19.12
SR-1	8/1/94	· TOB	-	NONE		_	7.98	34.35

^{*} Sample DUP was a duplicate sample taken from well S-6.



Santa Rosa Division 435 Tesconi Circle Santa Rosa, CA 95401

Tel: (707) 526-7200 Fax: (707) 526-9623

Jim Keller Blaine Tech Services 985 Timothy Dr. San Jose, CA 95133 Date: 08/15/1994

NET Client Acct. No: 1821 NET Pacific Job No: 94,03378

Received: 08/03/1994

Client Reference Information

SHELL, 2800 Telegraph Ave., Oakland, Job No. 940801-K1

Sample analysis in support of the project referenced above has been completed and results are presented on following pages. Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Should you have questions regarding procedures or results, please feel welcome to contact Client Services.

Approved by:

Judy Ridley Project Coordinator

Operations Manager

Jim Hoch

Enclosure(s)





Client Name: Blaine Tech Services

NET Job No: 94.03378

Date: 08/15/1994 ELAP Certificate: 1386

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Ref: SHELL, 2800 Telegraph Ave., Oakland, Job No. 940801-K1

SAMPLE DESCRIPTION: S-1

Date Taken: 08/01/1994

Time Taken:

•		Reportin	g		Date	Date
<u>Parameter</u>	Results Flags	Limit	Units	Method	Extracted	Analyzed
TPH (Gas/BTXE, Liquid)						İ
METHOD 5030/M8015	~ =					08/10/1994
DILUTION FACTOR*	1					08/10/1994
as Gasoline	ND	50	ug/L	5030		08/10/1994
Carbon Range:	ND					08/10/1994
METHOD 8020 (GC, Liquid)						08/10/1994
Benzene	ND	0.5	ug/L	8020		08/10/1994
Toluene	ND	0.5	ug/L	8020		08/10/1994
Ethylbenzene	ND	0.5	ug/L	8020		08/10/1994
Xylenes (Total)	ND	0.5	ug/L	8020		08/10/1994
SURROGATE RESULTS						08/10/1994
Bromofluorobenzene (SURR)	88		% Rec.	5030		08/10/1994



Client Name: Blaine Tech Services

NET Job No: 94.03378

Date: 08/15/1994

ELAP Certificate: 1386

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Ref: SHELL, 2800 Telegraph Ave., Oakland, Job No. 940801-Kl

SAMPLE DESCRIPTION: S-4

Date Taken: 08/01/1994

Time Taken:

		Reporti	ng		Date	Date
Parameter	Results Flag	s Limit	Units	Method	Extracted	Analyzed
TPH (Gas/BTXE, Liquid)						
METHOD 5030/M8015						08/09/1994
DILUTION FACTOR*	· 1					08/09/1994
as Gasoline	ND	50	ug/L	5030		08/09/1994
Carbon Range:	ND					08/09/1994
METHOD 8020 (GC, Liquid)						08/09/1994
Benzene	ND	0.5	ug/L	8020		08/09/1994.
Toluene	ND	0.5	ug/L	8020		08/09/1994
Ethylbenzene	ИD	0.5	ug/L	8020		08/09/1994
Xylenes (Total)	ND	0.5	ug/L	8020		08/09/1994
SURROGATE RESULTS						08/09/1994
Bromofluorobenzene (SURR)	90		% Rec.	5030		08/09/1994



Client Name: Blaine Tech Services

NET Job No: 94.03378

Date: 08/15/1994

ELAP Certificate: 1386

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Ref: SHELL, 2800 Telegraph Ave., Oakland, Job No. 940801-K1

SAMPLE DESCRIPTION: S-5

Date Taken: 08/01/1994

Time Taken:

		Reportin	g		Date	Date
Parameter	Results Flags	Limit	Units	Method	Extracted	Analyzed
TPH (Gas/BTXE, Liquid)						
METHOD 5030/M8015						08/09/1994
DILUTION FACTOR*	1					08/09/1994
as Gasoline	ND	50	ug/L	5030		08/09/1994
Carbon Range:	ND					08/09/1994
METHOD 8020 (GC, Liquid)						08/09/1994
Benzene	ND	0.5	ug/L	8020		08/09/1994
Toluene	ND	0.5	ug/L	8020		08/09/1994
Ethylbenzene	ND	0.5	ug/L	8020		08/09/1994
Xylenes (Total)	ИD	0.5	ug/L	8020		08/09/1994
SURROGATE RESULTS						08/09/1994
Bromofluorobenzene (SURR)	85		% Rec.	5030		08/09/1994



Client Name: Blaine Tech Services

NET Job No: 94.03378

Date: 08/15/1994

ELAP Certificate: 1386

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Ref: SHELL, 2800 Telegraph Ave., Oakland, Job No. 940801-K1

SAMPLE DESCRIPTION: S-6

Date Taken: 08/01/1994

Time Taken:

NET Sample No: 210834

			Reportin	ıg		Date	Date
Parameter	Results	Flags	Limit	Units	Method	Extracted	Analyzed
TPH (Gas/BTXE, Liquid)							\
METHOD 5030/M8015							08/10/1994
DILUTION FACTOR*	ı						08/09/1994
as Gasoline '	2,900	FC	50	ug/L	5030		08/09/1994
Carbon Range:	C5-C14						08/09/1994
METHOD 8020 (GC, Liquid)							08/09/1994
Benzene	370	FC	0.5	ug/L	8020		08/09/1994
Toluene	11		0.5	ug/L	8020		08/10/1994
Ethylbenzene	11		0.5	ug/L	8020		08/10/1994
Xylenes (Total)	43		0.5	ug/L	8020		08/10/1994
SURROGATE RESULTS							08/09/1994
Bromofluorobenzene (SURR)	93			% Rec.	5030		08/09/1994

FC : Compound quantitated at a 10% dilution factor.



Client Name: Blaine Tech Services

NET Job No: 94.03378

Date: 08/15/1994

ELAP Certificate: 1386

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Ref: SHELL, 2800 Telegraph Ave., Oakland, Job No. 940801-K1

SAMPLE DESCRIPTION: S-7

Date Taken: 08/01/1994

Time Taken:

		Reportin	g.		Date	Date
Parameter	Results Flags	Limit	Units	Method	Extracted	Analyzed
TPH (Gas/BTXE, Liquid)						
METHOD 5030/M8015						08/09/1994
DILUTION FACTOR*	1					08/09/1994
as Gasoline	250	50	ug/L	5030		08/09/1994
Carbon Range:	C5-C14					08/09/1994
METHOD 8020 (GC, Liquid)						08/09/1994
Benzene	4,8	0.5	ug/L	8020		08/09/1994
Toluene	ND	0.5	ug/L	8020		08/09/1994
Ethylbenzene	ND	0.5	ug/L	8020		08/09/1994
Xylenes (Total)	ND	0.5	ug/L	8020		08/09/1994
SURROGATE RESULTS						08/09/1994
Bromofluorobenzene (SURR)	98		% Rec.	5030		08/09/1994



Client Name: Blaine Tech Services

NET Job No: 94.03378

Date: 08/15/1994

ELAP Certificate: 1386

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Ref: SHELL, 2800 Telegraph Ave., Oakland, Job No. 940801-K1

SAMPLE DESCRIPTION: S-8

Date Taken: 08/01/1994

Time Taken:

NET Sample No: 210836

			Reportin	g		Date	Date
Parameter	Results	Flags	Limit	Units	Method	Extracted	Analyzed
TPH (Gas/BTXE, Liquid)							i I
METHOD 5030/M8015							08/12/1994
DILUTION FACTOR*	1						08/12/1994
as Gasoline	1,500		50	ug/L	5030		08/12/1994
Carbon Range:	C5-C14						08/12/1994
METHOD 8020 (GC, Liquid)							08/12/1994
Benzene	20		0.5	ug/L	8020		08/12/1994
Toluene	18		0.5	ug/L	8020		08/12/1994
Ethylbenzene	39	FC	0.5	ug/L	8020		08/12/1994
Xylenes (Total)	190	FC	0.5	ug/L	8020		08/12/1994
SURROGATE RESULTS					•		08/12/1994
Bromofluorobenzene (SURR)	86			% Rec.	5030		08/12/1994

FC : Compound quantitated at a 10% dilution factor.

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Name: Blaine Tech Services

NET Job No: 94.03378

Date: 08/15/1994

ELAP Certificate: 1386

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Ref: SHELL, 2800 Telegraph Ave., Oakland, Job No. 940801-K1

SAMPLE DESCRIPTION: S-9

Date Taken: 08/01/1994

Time Taken:

-			Reportin	g		Date	Date
Parameter	Results F	laqs	<u>Limit</u>	Units	Method	Extracted	Analyzed
TPH (Gas/BTXE, Liquid)							
METHOD 5030/M8015							08/09/1994
DILUTION FACTOR*	1						08/09/1994
as Gasoline	ND		50	ug/L	5030		08/09/1994
Carbon Range:	ND						08/09/1994
METHOD 8020 (GC, Liquid)							08/09/1994
Benzene	ND		0.5	ug/L	8020		08/09/1994
Toluene	ND		0.5	ug/L	8020		08/09/1994
Ethylbenzene	ND		0.5	ug/L	8020		08/09/1994
Xylenes (Total)	ND		0.5	ug/L	8020		08/09/1994
SURROGATE RESULTS							08/09/1994
Bromofluorobenzene (SURR)	95			% Rec.	5030		08/09/1994



Client Name: Blaine Tech Services

NET Job No: 94.03378

Date: 08/15/1994

ELAP Certificate: 1386

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Ref: SHELL, 2800 Telegraph Ave., Oakland, Job No. 940801-K1

SAMPLE DESCRIPTION: S-10

Date Taken: 08/01/1994

Time Taken:

			Reportin	g		Date	Date
Parameter	Results	Flags	Limit	Units	Method	Extracted	Analyzed
TPH (Gas/BTXE, Liquid)							!
METHOD 5030/M8015							08/09/1994
DILUTION FACTOR*	1						08/09/1994
as Gasoline	ND		50	ug/L	5030		08/09/1994
Carbon Range:	ND						08/09/1994
METHOD 8020 (GC, Liquid)							08/09/1994
Benzene	ND		0.5	ug/L	8020		08/09/1994
Toluene	ND		0.5	ug/L	8020		08/09/1994
Ethylbenzene	ND		0.5	ug/L	8020		08/09/1994
Xylenes (Total)	ND		0.5	ug/L	8020		08/09/1994
SURROGATE RESULTS	~ ~						08/09/1994
Bromofluorobenzene (SURR)	93			% Rec.	5030		08/09/1994



Client Name: Blaine Tech Services

NET Job No: 94.03378

Date: 08/15/1994 ELAP Certificate: 1386

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Ref: SHELL, 2800 Telegraph Ave., Oakland, Job No. 940801-K1

SAMPLE DESCRIPTION: S-11

Date Taken: 08/01/1994

Time Taken:

			Reportin	g		Date	Date
Parameter	Results	Flags	Limit	Units	Method	Extracted	Analyzed
TPH (Gas/BTXE, Liquid)							
METHOD 5030/M8015							08/10/1994
DILUTION FACTOR*	1						08/10/1994
as Gasoline	240		50	ug/L	5030		08/10/1994
Carbon Range:	C5~C14						08/10/1994
METHOD 8020 (GC, Liquid)							08/10/1994
Benzene	18		0.5	ug/L	8020		08/10/1994
Toluene	6.7		0.5	ug/L	8020		08/10/1994
Ethylbenzene	6.9		0.5	ug/L	8020		08/10/1994
Xylenes (Total)	18		0.5	ug/L	8020		08/10/1994
SURROGATE RESULTS							08/10/1994
Bromofluorobenzene (SURR)	93			% Rec.	5030		08/10/1994



Client Name: Blaine Tech Services

NET Job No: 94.03378

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Ref: SHELL, 2800 Telegraph Ave., Oakland, Job No. 940801-K1

SAMPLE DESCRIPTION: DUP

Date Taken: 08/01/1994

Time Taken:

NET Sample No: 210840

			Reporting	r		Date	Date
Parameter	Results	Flags	<u>Limi</u> t	Units	Method	Extracted	Analyzed
TPH (Gas/BTXE, Liquid)							0
METHOD 5030/M8015							08/10/1994
DILUTION FACTOR*	1						08/09/1994
as Gasoline	2,600	FC	50	ug/L	5030		08/09/1994
Carbon Range:	C5-C14						08/09/1994;
METHOD 8020 (GC, Liquid)							08/09/1994
Benzene	340	FC	0.5	ug/L	8020		08/09/1994
Toluene	8.8		0.5	ug/L	8020		08/10/1994
Ethylbenzene	7.7		0.5	ug/L	8020		08/10/1994
Xylenes (Total)	33		0.5	ug/L	8020		08/10/1994
SURROGATE RESULTS							08/09/1994
Bromofluorobenzene (SURR)	93			% Rec.	5030		08/09/1994

FC : Compound quantitated at a 10% dilution factor.

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Name: Blaine Tech Services

Ref: SHELL, 2800 Telegraph Ave., Oakland, Job No. 940801-K1

NET Job No: 94.03378

Date: 08/15/1994 ELAP Certificate: 1386

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SAMPLE DESCRIPTION: EB

Date Taken: 08/01/1994

Time Taken:

						1
		Reporting	3		Date	Date
Parameter	Results Flags	Limit	Units	Method	Extracted	Analyzed
TPH (Gas/BTXE, Liquid)						
METHOD 5030/M8015						08/09/1994
DILUTION FACTOR*	1					08/09/1994
as Gasoline	ND	50	ug/L	5030		08/09/1994
Carbon Range:	ND					08/09/1994
METHOD 8020 (GC, Liquid)						08/09/1994
Benzene	ND	0.5	ug/L	8020		08/09/1994
Toluene	ND	0.5	ug/L	8020		08/09/1994
Ethylbenzene	ND	0.5	ug/L	8020		08/09/1994
Xylenes (Total)	ND	0.5	ug/L	8020		08/09/1994
SURROGATE RESULTS						08/09/1994
Bromofluorobenzene (SURR)	91		% Rec.	5030		08/09/1994



Client Name: Blaine Tech Services

NET Job No: 94.03378

Date: 08/15/1994

ELAP Certificate: 1386

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Ref: SHELL, 2800 Telegraph Ave., Oakland, Job No. 940801-K1

SAMPLE DESCRIPTION: TB

Date Taken: 08/01/1994

Time Taken:

		Reportin	g	•	Date	Date
Parameter	Results Flags	Limit	Units	Method	Extracted	Analyzed
TPH (Gas/BTXE, Liquid)						
METHOD 5030/M8015						08/09/1994
DILUTION FACTOR*	1					08/09/1994
as Gasoline	ND	50	ug/L	5030		08/09/1994
Carbon Range:						08/09/1994
METHOD 8020 (GC, Liquid)						08/09/1994
Benzene	ND	0.5	ug/L	8020		08/09/1994
Toluene	ND	0.5	ug/L	8020		08/09/1994
Ethylbenzene	ND	0.5	ug/L	8020		08/09/1994
Xylenes (Total)	ND	0.5	ug/L	8020		08/09/1994
SURROGATE RESULTS						08/09/1994
Bromofluorobenzene (SURR)	84		% Rec.	5030		08/09/1994



Client Name: Blaine Tech Services

NET Job No: 94.03378

Date: 08/15/1994 ELAP Certificate: 1386

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Ref: SHELL, 2800 Telegraph Ave., Oakland, Job No. 940801-K1

CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

		CCV	CCV			;
	CCV	Standard	Standard			
	Standard	Amount	Amount		Date	Analyst
Parameter	% Recovery	Found	Expected	Units	Analyzed	<u>Initíals</u>
TPH (Gas/BTXE, Liquid)						
as Gasoline	107.0	1.07	1.00	mg/L	08/09/1994	lss
Benzene	105.0	5.25	5.00	ug/L	08/09/1994	lss
Toluene	108.2	5.41	5.00	ug/L	08/09/1994	lss
Ethylbenzene	92.2	4.61	5.00	ug/L	08/09/1994	lss
Xylenes (Total)	98.9	14.84	15.0	ug/L	08/09/1994	lss
Bromofluorobenzene (SURR)	102.0	102	100	% Rec.	08/09/1994	lss
TPH (Gas/BTXE, Liquid)						•
as Gasoline	104.0	1.04	1.00	mg/L	08/09/1994	aal
Benzene	108.0	5.40	5.00	ug/L	08/09/1994	aal
Toluene	85.4	4.27	5.00	ug/L	08/09/1994	aal
Ethylbenzene	89.8	4.49	5.00	ug/L	08/09/1994	aal
Xylenes (Total)	90.0	13.5	15.0	ug/L	08/09/1994	aal
Bromofluorobenzene (SURR)	102.0	102	100	% Rec.	08/09/1994	aal ¦
TPH (Gas/BTXE, Liquid)						
as Gasoline	100.0	1.00	1.00	mg/L	08/10/1994	aal
Benzene	100.0	5.00	5.00	ug/L	08/10/1994	aal
Toluene	93.6	4.68	5.00	ug/L	08/10/1994	aal
Ethylbenzene	98.4	4.92	5.00	ug/L	08/10/1994	aal
Xylenes (Total)	96.7	14.5	15.0	ug/L	08/10/1994	aal
Bromofluorobenzene (SURR)	104.0	104	100	% Rec.	08/10/1994	aal
TPH (Gas/BTXE, Liquid)						
as Gasoline	103.0	1.03	1.00	mg/L	08/12/1994	lss
Benzene	89.8	4.49	5.00	ug/L	0,8/12/1994	lss
Toluene	94.6	4.73	5.00	ug/L	08/12/1994	lss
Ethylbenzene	91.8	4.59	5.00	ug/L	08/12/1994	lss
Xylenes (Total)	94.7	14.2	15.0	ug/L	08/12/1994	lss
Bromofluorobenzene (SURR)	89.0	89	100	% Rec.	08/12/1994	lss



Client Name: Blaine Tech Services

NET Job No: 94.03378

Date: 08/15/1994 ELAP Certificate: 1386

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Ref: SHELL, 2800 Telegraph Ave., Oakland, Job No. 940801-K1

METHOD BLANK REPORT

Method Blank

	Amount	Reporting	•		Date	Analyst
Parameter	Found	Limit	<u>U</u>	nits	Analyzed	<u>Initials</u>
TPH (Gas/BTXE, Liquid)						
as Gasoline	, MD	0.05	m	ıg/L	08/09/1994	lss
Benzene	ND	0.5	u	g/L	08/09/1994	lss
Toluene	ND	0.5	u	ıg/L	08/09/1994	lss
Ethylbenzene	ND	0.5	u	g/L	08/09/1994	lss
Xylenes (Total)	ND	0.5	u	g/L	08/09/1994	lss
Bromofluorobenzene (SURR)	78		*	Rec.	08/09/1994	lss
TPH (Gas/BTXE, Liquid)						
as Gasoline	ND	0.05	m	ıg/L	08/09/1994	aal
Benzene	ND	0,5	u	g/L	08/09/1994	aal
Toluene	ND	0.5	u	g/L	08/09/1994	aal
Ethylbenzene	ND	0.5	น	g/L	08/09/1994	aal
Xylenes (Total)	ND	0.5	u	g/L	08/09/1994	aal
Bromofluorobenzene (SURR)	103		*	Rec.	08/09/1994	aal
TPH (Gas/BTXE, Liquid)						
as Gasoline	ND	0.05	m	g/L	08/10/1994	aal
Benzene	ND	0.5	u	g/L	08/10/1994	aal
Toluene	ND	0.5	u	g/L	08/10/1994	aal
Ethylbenzene	ND	0.5	u	g/L	08/10/1994	aal
Xylenes (Total)	ND	0.5	u	g/L	08/10/1994	aal
Bromofluorobenzene (SURR)	97		8	Rec.	08/10/1994	aal
TPH (Gas/BTXE, Liquid)						
as Gasoline	ND	0.05) m	g/L	08/12/1994	lss
Benzene	ND	0.5	u	g/L	08/12/1994	lss
Toluene	ND	0.5	u	g/L,	08/12/1994	lss
Ethylbenzene	ND	0.5	u	g/L	08/12/1994	lss
Xylenes (Total)	ND	0.5	u	g/L	08/12/1994	lss
Bromofluorobenzene (SURR)	83		*	Rec.	08/12/1994	lss



Client Name: Blaine Tech Services

NET Job No: 94.03378

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Ref: SHELL, 2800 Telegraph Ave., Oakland, Job No. 940801-K1

MATRIX SPIKE / MATRIX SPIKE DUPLICATE

		Matrix					Matrix			
	Matrix	Spike				Matrix	Spike		1	
	Spike	Dup		Spike	Sample	Spike	Dup.		Date	Analyst
Parameter	₹ Rec.	% Rec.	RPD	Amount	Conc.	Conc.	Conc.	Units	Analyzed	Initials
TPH (Gas/BTXE, Liquid)									1	
as Gasoline	90.0	102.0	12.4	1.00	ИD	0.90	1.02	mg/L	08/09/1994)as
Benzene	83.8	102.9	20.4	34.0	ND	28.5	35.0	ug/L	08/09/1994	lss
Toluene	90.4	102.3	12.3	94.7	ND	85.6	96.9	ug/L	08/09/1994	lss
TPH (Gas/BTXE, Liquid)									1	
as Gasoline	79.0	96.0	19.4	1.00	ND	0.79	0.96	mg/L	08/09/1994	aal
Benzene	78.9	95.2	18.7	33.1	ND	26.1	31.5	ug/L	08/09/1994	aal
Toluene	80.5	94.5	16.0	102.8	ND	82.8	97.1	ug/L	08/09/1994	aal
TPH (Gas/BTXE, Liquid)									I .	
as Gasoline	89.0	95.0	6.5	1.00	ND	0.89	0.95	mg/L	08/08/1994	jmh
Benzene	89.6	94.8	5.6	32.8	ND	29.4	31.1	ug/L	08/08/1994	jmh
Toluene	91.6	96.2	4.9	73.8	ND	67.6	71.0	ug/L	08/08/1994	jmh
TPH (Gas/BTXE, Liquid)									1	
as Gasoline	100.0	100.0	0.0	1.00	ND	1.00	1.00	mg/L	08/09/1994	aal
Benzene	94.9	97.3	2.5	33.1	ND	31.4	32.2	$na \backslash \Gamma$	08/09/1994	aal
Toluene	95.6	96.9	1.4	102.8	ND	98.3	99.6	ug/L	08/09/1994	aal
TPH (Gas/BTXE, Liquid)										
as Gasoline	92.0	96.0	4.3	1.00	ND	0.92	0.96	mg/L	08/10/1994	aal
Benzene	93.1	97.2	4.3	31.9	ND	29.7	31.0	ug/L	08/10/1994	aal
Toluene	93.0	97.0	4.2	98.8	ND	91.9	95.8	ug/L	08/10/1994	aal
TPH (Gas/BTXE, Liquid)									1	
as Gasoline	101.0	101.0	0.0	1.00	ND	1.01	1.01	mg/L	08/12/1994	lss
Benzene	97.6	104.2	6.4	33.3	ND	32.5	34.7	ug/L	08/12/1994	lss
Toluene	96.4	100.2	3.8	96.2	ND	92.7	96.4	ug/L	08/12/1994	lss



KEY TO ABBREVIATIONS and METHOD REFERENCES

: Less than; When appearing in results column indicates analyte not detected at the value following. This datum supercedes the listed Reporting Limit.

Reporting Limits are a function of the dilution factor for any given sample. Actual reporting limits and results have been multiplied by the listed dilution factor. Do not multiply the reporting limits or reported values by the dilution factor.

dw : Result expressed as dry weight.

mean : Average; sum of measurements divided by number of measurements.

mg/Kg (ppm): Concentration in units of milligrams of analyte per kilogram of sample, wet-weight basis (parts per million).

_

mg/L : Concentration in units of milligrams of analyte per liter of sample.

mL/L/hr : Milliliters per liter per hour.

MPN/100 mL : Most probable number of bacteria per one hundred milliliters of sample.

N/A : Not applicable.

NA : Not analyzed.

ND : Not detected; the analyte concentration is less than the applicable

listed reporting limit.

NTU : Nephelometric turbidity units.

RPD : Relative percent difference, 100 [Value 1 - Value 2]/mean value.

SNA : Standard not available.

ug/Kg (ppb) : Concentration in units of micrograms of analyte per kilogram of sample,

wet-weight basis (parts per billion).

ug/L : Concentration in units of micrograms of analyte per liter of sample.

umhos/cm : Micromhos per centimeter.

Method References

Methods 100 through 493: see "Methods for Chemical Analysis of Water & Wastes", U.S. EPA, 600/4-79-020, Rev. 1983.

Methods 601 through 625: see "Guidelines Establishing Test Procedures for the Analysis of Pollutants" U.S. EPA, 40 CFR, Part 136, Rev. 1988.

Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", U.S. EPA SW-846, 3rd edition, 1986., Rev. 1, December 1987.

 \underline{SM} : see "Standard Methods for the Examination of Water & Wastewater, 17th Edition, APHA, 1989.

Revised September, 1993 abb.93

COOLER RECEIPT FORM

Project: Sholl 2800 Telegraph A Cooler received on: 8/3/94 an	we. Oakland d checked on 8/3/9	4 by Alop	2 /
	(signa	Alorse ature)	
Were custody papers present?		VES	ИО
Were custody papers properly fil	led out?	YES	NO
Were the custody papers signed?.		YES	ИО
Was sufficient ice used?		YES	NO 0.1°C
Did all bottles arrive in good c	ondition (unbroker	1)?YES	ИО
Did bottle labels match COC?		VES	NO
Were proper bottles used for ana	lysis indicated?	XES	ИО
Correct preservatives used?		XES	ио
VOA vials checked for headspace Note which voas (if any)	bubbles? had bubbles:*		NO
Sample descriptor:	Number of vials:		
		····	i I
		_	i .
			1
	······································		1
			1
*All VOAs with headspace bubbles used for analysis	have been set as:	ide so they wi	ll not be
List here all other jobs receive	d in the same cool	ler:	•
Client Job #	NET log #		
			t .
			i

(coolerrec)