

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

50 173 -1 Finder 14

July 26, 1994

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

SID 84

Re: Shell Service Station WIC #204-2495-0101 1800 Powell Street Emeryville, California WA Job #81-794-104

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 1994 and proposed work for the third quarter 1994.

Second 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. 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 (Table 1 and Attachment B) and prepared a ground water elevation contour map (Figure 2).

Anticipated Third Quarter 1994 Activities:

WA will submit a report presenting the results of the second 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. Historical and current data will be compiled into one table.

Please call if you have any questions.

Sincerely,

Weiss Associates

John Wolf

Pechnical Assistant

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

JAW/JWC: jaw

J:\SHELL\750\794QMJY4.WP

Attachments: A

A - Blaine Tech's Ground Water Monitoring Report

B - Historical Ground Water Elevation and Analytic Data

cc: Dan Kirk, Shell Oil Company, P.O. Box 4023, Concord, California 94524
Kevin Graves, Regional Water Quality Control Board - San Francisco Bay Region, 2101

Webster Street, Suite 500, Oakland, California 94612

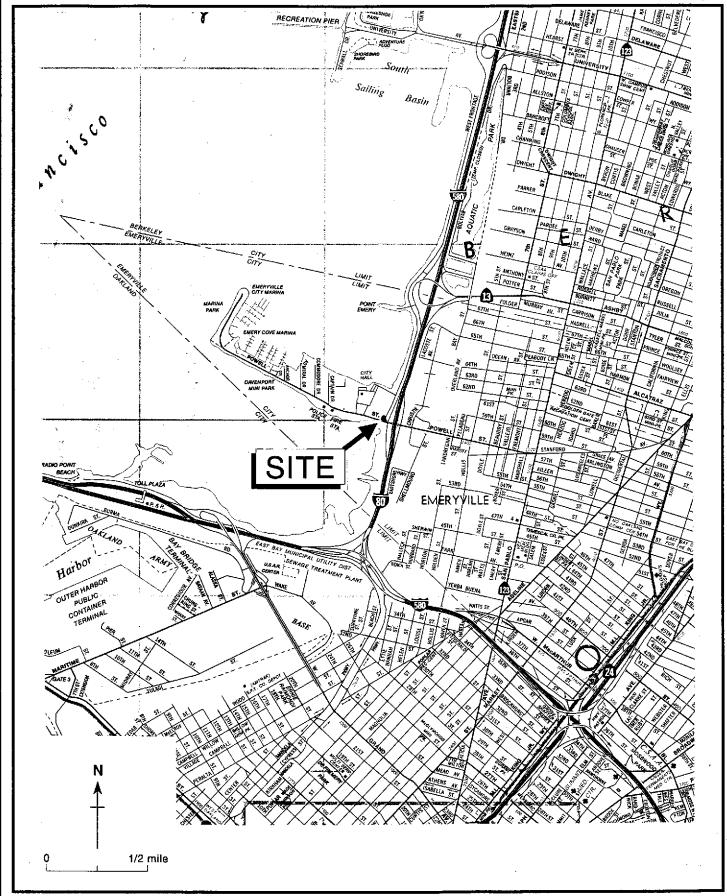


Figure 1. Site Location Map - Shell Service Station WIC# 204-2495-01, 1800 Powell Street, Emeryville, California



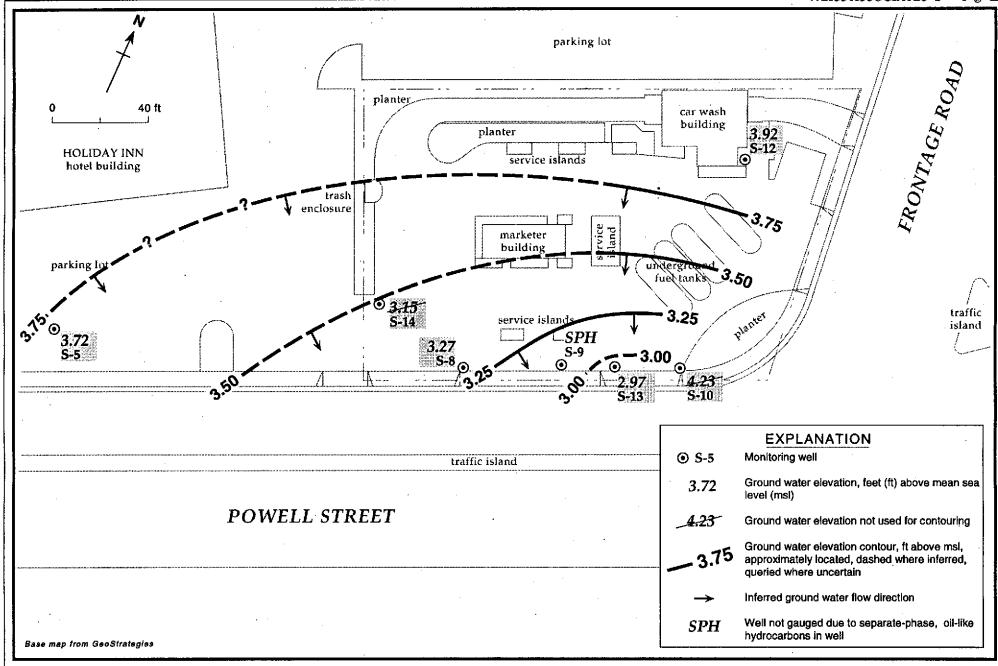


Figure 2. Monitoring Well Locations and Ground Water Elevation Contours - May 16, 1994 - Shell Service Station - WIC# 204-2495-0107, 1800 Powell Street, Emeryville, California

		Top-of-	Depth to	Separate- Phase	Ground Water	TPH-G	TPH-D	В	T	E .	X
Well ID	Sampling Date	Casing (ft msl)	Water (ft)	Hydrocarbon Thickness (ft)	Elevation (ft msl)	<		parts per b	oillion (μg,	/L)	>
S-5	02/21/94 ^{dup} 05/16/94	11.72	7.95 8.00		3.77 3.72	1,300 1,200		220 230	<5 <5	<5 <5	11 ≺5
S-8	02/21/94 05/16/94 05/16/94 ^{dup}	12.76	9.52 9.49 9.49		3.24 3.27 3.27	3,200 1.000 1.000		480 220 280	52 7.3 10	<5 <5 <5	130 28 29
s-9	02/24/94 ^{SPH} 05/16/94 ^{SPH}			 1.5	 ::::::::::::::::::::::::::::::::::	 (1001 31 5.750000	 30847888		 2005-5		
i-10	02/21/94 05/16/94	12.58	8.32 8,35		4.26 4.23	1,400 300		190 45	9.9 8.6	<2.5 6.2	19 19
G-12	02/21/94 05/16/94	12.84	8.22 8.92		4.62 3.92	240ª 96	2,200 ^b 2,200	0.7 1.5	<0.5 <0.5	<0.5 <0.5	3.6 2.0
S-13	02/21/94 05/16/94	12.59	9.26 9.62		3.33 2.97	700 650	1,800 ^b 1,700	200 180	<5 2.5	<5 <2,5	45 21
5-14	02/21/94 05/16/94	12.69	9.30 9.54		3.39 3.15	2,800° 310	3,600 ^b 6,700	<5.0 <2.5	<5 <2.5	<5 <2.5	14 3.1
rip Blank	02/21/94 05/16/94					<50 <50	<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5
OTSC MCLs						NE	NE	1	100 ^c	680	1,750

Abbreviations:

ft msl = Feet above mean sea level

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

TPH-D = Total petroleum hydrocarbons as diesel by Modified EPA Method 8015

B = Benzene by EPA Method 8020

T = Toluene by EPA Method 8020

E = Ethylbenzene by EPA Method 8020

X = Xylenes by EPA Method 8020

NE = Not established

DTSC MCLs = California Department of Toxic Substances Control maximum contaminant levels for drinking water

<n = Not detected at detection limits of n ppb</pre>

dup = Duplicate sample

SPH = Separate-phase hydrocarbons present

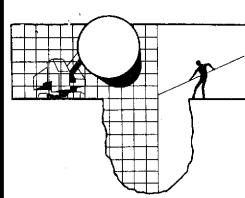
--- = Not analyzed/not measured

Notes:

- a = The concentrations reported as gasoline for samples S-12 and S-14 are primarily due to the presence of a discrete peak and underline of gasoline
- b = The concentrations reported as diesel for samples S-12, S-13 and S-14 are due to the presence of a combination of diesel and a heavier petroleum product of hydrocarbon range C18 - C36, possibly motor oil
- c = DTSC recommended action level; MCL not established

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

June 2, 1994

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

Attn: Daniel T. Kirk

SITE: Shell WIC #204-2495-0101 1800 Powell Street Emeryville, California

QUARTER: 2nd quarter of 1994

QUARTERLY GROUNDWATER SAMPLING REPORT 940516-A-2

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 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 Sequoia Analytical Laboratory in Redwood City, California. Sequoia Analytical Laboratory is a California Department of Health Services certified Hazardous Materials Testing Laboratory and is listed as DOHS HMTL #1210.

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.

RCB/lp

attachments: table of well gauging data

chain of custody

certified analytical report

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

amis alle for

TABLE OF WELL GAUGING DATA

WELL I.D.	DATA COLLECTION DATE	MEASUREMENT REFERENCED TO	QUALITATIVE OBSERVATIONS (sheen)	DEPTH TO FIRST IMMISCIBLES LIQUID (FPZ) (feel)	THICKNESS OF IMMISCIBLES LIQUID ZONE (feet)	VOLUME OF IMMISCIBLES REMOVED (ml)	DEPTH TO WATER (feet)	DEPTH TO WELL BOTTOM (feet)
\$-5	5/16/94	тов	<u>-</u>	NONE	.	-	8.00	12.46
S-8 "	5/16/94	ТОВ	ODOR	NONE	-	-	9.49	18.66
S-9	5/16/94	TOB	FREE PRODUCT		1.5	- .	-	-
S-10	5/16/94	TOB		NONE	- ,		8.35	19.58
S-12	5/16/94	TOB	_	NONE	-		8.92	24.32
S-13	5/16/94	TOB		NONE	 ,		9.62	20.64
\$-14	5/16/94	TOB	ODOR	NONE	-		9.54	23.82

^{*} Sample DUP was a duplicate sample taken from well S-8.

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WICK:	4-2495-												T	.	\neg			LAB: Anametri	
Shell Enginoor: Dan Kirk Consultoni Namo 8 Blaine Tech Se 985 Timothy Dr Consultoni Conlac Jim Keller	ive S	is: Inc. an Jose		951 951	No.: 168 675- 33 No.: 535 293-	6160	Ges)	Diesel).		(6240)		5 & BTEX 8020						Site layer liquides Self Close by JOh posed Wide at Close by JOh posed	6441 24 hours
Sampled by: Je	. 11	ETI uits	5			'	(EPA 8015 Mod. 0	(EPA 8015 Mod. L	(EPA 8020/602)	le Organics (EPA	or Disposal	Combination IPH 5015			108	Container Size	Composite Y/N	Other	24/48 hrs. TAL
Sample ID	Dole	Sludge	Soll	Woles	Ylt	No. of conts,	1PH (17H G	XIII	Volcille	Test for I	SEO	· 		Aspesios	Conta	Co	DESCRIPTION	COMMENT
5.5	5/11/	/		W		3					-	X						ground	9405 A59
5.8						3						X						water	
-5-10			•			3		i				X							
. 3-12						5		X				X			i				
. 5-13				1		5		У				Х			_	·			_
. 5.14						5		ý			·	X		_	7	<u> </u>	1		
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) Powe	11 Stre	et,	Emery	ville	•						is R							LAB: MANUFELLIX	
WICH: 204 Shell Engineer: Dan Kirk Consultant Name & Blaine Tech Ser 985 Timothy Dri Consultant Contact: Jim Keller Comments: Sampled by: 999 Pulnted Name: 599	ve S	s: Inc.	. CA	951	33 No.: 535 293-	(510) 6160 (408) 8773	TPH (EPA 8015 Mod. Gas)	17H (EPA 8015 Mod, Diesel).	61EX (5PA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Combination 17H 8015 & BTEX 8020			Asbestos	Container Size	Preparation Used	Composite Y/N	CHECK OHE (I) FOX OHLY CITY Quarterly Mantering X 644 110 Investigation 444 102 Chosely/Disposed 444 Water Chosely/Disposed 444 102/Ale Rein, or Tyr. 444 Water Rein, or Tyr. 444 Other 444 MATERIAL DESCRIPTION	24 hours 12 14 hours 12 15 days XXXIIII am 12 16 days XXXIIII am 13 14 hours 12 15 16 days XXXIIII am 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18
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Blaine Tech Services, Inc. 985 Timothy Drive San Jose, ČA 95133 Attention: Jim Keller

Project: 940516-A2, Shell, 1800 Powell St.

Enclosed are the results from 9 water samples received at Sequoia Analytical on May 18,1994. The requested analyses are listed below:

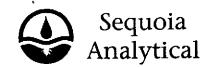
SAMPLE #	SAMPLE DESCRIPTION	DATE OF COLLECTION	TEST METHOD
4EA5901	Water, S-5	5/17/94	EPA 5030/8015 Mod./8020
4EA5902	Water, S-8	5/17/94	EPA 5030/8015 Mod./8020
4EA5903	Water, S-10	5/17/94	EPA 5030/8015 Mod./8020
4EA5904	Water, S-12	5/17/94	EPA 3510/3520/8015 Mod. EPA 5030/8015 Mod./8020
4EA5905	Water, S-13	5/17/94	EPA 3510/3520/8015 Mod. EPA 5030/8015 Mod./8020
4EA5906	Water, S-14	5/17/94	EPA 3510/3520/8015 Mod. EPA 5030/8015 Mod./8020
4EA5907	Water, EB	5/17/94	EPA 5030/8015 Mod./8020
4EA5908	Water, DUP	5/17/94	EPA 5030/8015 Mod./8020
4EA5909	Water, Trip Blank	5/17/94	EPA 5030/8015 Mod./8020

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA ANALYTICAL

Suzanne Chin **Project Manager**



680 Chesapeake Drive 1900 Bates Avenue, Suite L. Concord, CA 94520 819 Striker Avenue, Suite 8 Sacramento, CA 95834

Redwood City, CA 94063

(415) 364-9600 (510) 686-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

Blaine Tech Services, Inc. 985 Timothy Drive

Client Project ID:

940516-A2, Shell, 1800 Powell St.

Sampled: Received: May 17, 1994 May 18, 1994

San Jose, CA 95133

Sample Matrix: Analysis Method: Water EPA 5030/8015 Mod./8020

Reported:

May 27, 1994

First Sample #: Attention: Jim Keller

4EA5901

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit μg/L	Sample I.D. 4EA5901 S-5	Sample I.D. 4EA5902 S-8	Sample I.D. 4EA5903 S-10	Sample I.D. 4EA5904 S-12	Sample I.D. 4EA5905 S-13	Sample I.D. 4EA5906 S-14
Purgeable Hydrocarbons	50	1,200	1,000	300	96	650	310
Benzene	0.50	230	220	45	1.5	180	N.D.
Toluene	0.50	N.D.	7.3	8.6	N.D.	2.5	N.D.
Ethyl Benzene	0.50	N.D.	N.D.	6.2	N.D.	N.D.	N.D.
Total Xylenes	0.50	N.D.	28	19	2.0	21	3.1
Chromatogram Pa	ttern:	C6 - C12	C6 - C12	C6 - C12	C6 - C12	C6 - C12	C8 - C12

Quality Control Data

Report Limit Multiplication Factor:	10	10	2.0	1.0	5.0	5.0
Date Analyzed:	5/23/94	5/23/94	5/24/94	5/24/94	5/24/94	5/24/94
Instrument Identification:	GCHP-2	GCHP-2	GCHP-2	GCHP-2	GCHP-3	GCHP-17
Surrogate Recovery, %: (QC Limits = 70-130%)	94	89	104	96	124	97

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard. Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL

Suzanne Chin Project Manager



680 Chesapeake Drive 1900 Bates Avenue, Suite L 819 Striker Avenue, Suite 8

Redwood City, CA 94063 Concord, CA 94520 Sacramento, CA 95834

(415) 364-9600 (510) 686-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

Blaine Tech Services, Inc. 985 Timothy Drive

Client Project ID:

940516-A2, Shell, 1800 Powell St.

Sampled: Received: May 17, 1994

San Jose, CA 95133

Sample Matrix: Analysis Method: Water EPA 5030/8015 Mod./8020

Reported:

May 18, 1994 May 27, 1994

Attention: Jim Keller

First Sample #:

4EA5907

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit μg/L	Sample I.D. 4EA5907 EB	Sample I.D. 4EA5908 DUP	Sample I.D. 4EA5909 Trip Blank	
Purgeable Hydrocarbons	50	N.D.	1,000	N.D.	
Benzene	0.50	N.D.	280	N.D.	
Toluene	0.50	N.D.	10	N.D.	
Ethyl Benzene	0.50	N.D.	N.D.	N.D.	
Total Xylenes	0.50	N.D.	29	N.D.	
Chromatogram Pat	tern:		C6 - C12	**	

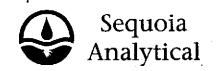
Quality Control Data

Report Limit Multiplication Factor:	1.0	10	1.0
Date Analyzed:	5/23/94	5/23/94	5/23/94
Instrument Identification:	GCHP-17	GCHP-17	GCHP-17
Surrogate Recovery, %: (QC Limits = 70-130%)	91	91	93

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard. Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL

Suzanne Chin Project Manager



680 Chesapeake Drive 1900 Bates Avenue, Suite L. Concord, CA 94520 819 Striker Avenue, Suite 8 Sacramento, CA 95834

Redwood City, CA 94063

(415) 364-9600 (510) 686-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

Blaine Tech Services, Inc.

Client Project ID:

940516-A2, Shell, 1800 Powell St.

Sampled: May 17, 1994

985 Timothy Drive San Jose, CA 95133 Sample Matrix: Water Analysis Method:

EPA 3510/3520/8015 Mod.

Received: May 18, 1994

Attention: Jim Keller

First Sample #:

4EA5904

Reported: May 27, 1994

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit µg/L	Sample I.D. 4EA5904 S-12	Sample I.D. 4EA5905 S-13	Sample I.D. 4EA5906 S-14	
Extractable Hydrocarbons	50	2,200	1,700	6,700	
Chromatogram Pa	ttern:	C10 - C24	C10 - C24	C10 - C24	

Quality Control Data

Report Limit				
Multiplication Factor:	1.0	1.0	1.0	
Date Extracted:	5/19/94	5/19/94	5/19/94	
Date Analyzed:	5/20/94	5/20/94	5/20/94	
Instrument Identification:	GCHP-5	GCHP-5	GCHP-5	·

Extractable Hydrocarbons are quantitated against a fresh dieset standard. Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL

Suzanne Chin Project Manager

4EA5901.BLA <3>



680 Chesapeake Drive 1900 Bates Avenue, Suite L Concord, CA 94520 819 Striker Avenue, Suite 8

Redwood City, CA 94063 Sacramento, CA 95834

(415) 364-9600 (510) 686-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

Blaine Tech Services, Inc.

Client Project ID:

Matrix:

940516-A2, Shell, 1800 Powell St.

985 Timothy Drive San Jose, CA 95133 Liquid -

Attention: Jim Keller

QC Sample Group: 4EA5903, 04

Reported:

May 27, 1994

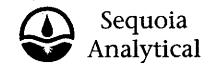
QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl	Xylenes	
ANALITE	Dettzene	10/00/16	Benzene	Дуюньа	
1					
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	₹
Analyst:	J. Minkel	J. Minkel	J. Minkel	J. Minkel	
MS/MSD				+	•
Batch#:	4EC0702	4EC0702	4EC0702	4EC0702	
Date Prepared:	N.A.	N.A.	N.A.	N.A.	
Date Analyzed:	5/24/94	5/24/94	5/24/94	5/24/94	•
Instrument I.D.#:	GCHP-2	GCHP-2	GCHP-2	GCHP-2	
Conc. Spiked:	10 μg/L	10 μg/L	10 μg/L	30 μg/L	
Matrix Spike % Recovery:	110	110	110	107	
Matrix Spike Duplicate % Recovery:	110	110	100	103	
Relative % Difference:	0.0	0.0	9.5	3.8	
LCS Batch#:	-	-	.	•	
Date Prepared:	-	-	-	-	
Date Analyzed:	•	-	-	-	•
Instrument I.D.#:	•	-	•	•	
_ LCS %					
Recovery:	-	•	•	-	•
% Recovery				·	
Control Limits:	71-133	72-128	72-130	71-120	

SEQUOIA ANALYTICAL

Project Manager

Please Note:



680 Chesapeake Drive 1900 Bates Avenue, Suite L Concord, CA 94520 819 Striker Avenue, Suite 8 Sacramento, CA 95834

Redwood City, CA 94063

(415) 364-9600 (510) 686-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

Blaine Tech Services, Inc. 985 Timothy Drive

Client Project ID:

940516-A2, Shell, 1800 Powell St.

Matrix:

Liquid

San Jose, CA 95133 Attention: Jim Keller

QC Sample Group: 4EA5905

Reported:

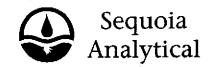
May 27, 1994

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes	
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	
Analyst:	J. Minkel	J. Minkel	J. Minkel	J. Minkel	
MS/MSD					
Batch#:	4EC0701	4EC0701	4EC0701	4EC0701	
Date Prepared:	N.A.	N.A.	N.A.	N.A.	
Date Analyzed:	5/24/94	5/24/94	5/24/94	5/24/94	
Instrument I.D.#:	GCHP-3	GCHP-3	GCHP-3	GCHP-3	•
Conc. Spiked:	10 μg/L	10 μg/L	10 µg/L	30 µg/L	
Matrix Spike % Recovery:	110	110	100	107	
Matrix Spike Duplicate % Recovery:	100	100	100	. 103	
Relative % Difference:	9.5	9.5	0.0	3.8	
LCS Batch#:	-	-		-	
Date Prepared:	•		•	-	
Date Analyzed:	-	•	-	-	
Instrument i.D.#:	-		- '	•	
LCS % Recovery:	•	•	•	•	
% Recovery Control Limits:	71-133	72-128	72-130	71-120	

SEQUOIA ANALYTICAL

Suzanne Chin Project Manager Please Note:



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Blaine Tech Services, Inc. 985 Timothy Drive

Client Project ID:

940516-A2, Shell, 1800 Powell St.

Matrix:

Liquid

San Jose, CA 95133 Attention: Jim Keller

QC Sample Group: 4EA5901, 02

Reported:

May 27, 1994

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl	Xylenes	
			Benzene	•	
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	
Analyst:	R. Vincent	R. Vincent	R. Vincent	R. Vincent	
MS/MSD					
Batch#:	4E94702	4E94702	4E94702	4E94702	•
Date Prepared:	N.A.	N.A.	N.A.	N.A.	
Date Analyzed:	5/23/94	5/23/94	5/23/94	5/23/94	
Instrument I.D.#:	GCHP-2	GCHP-2	GCHP-2	GCHP-2	
Conc. Spiked:	10 μg/L	10 µg/L	10 µg/L	30 μg/L	
Matrix Spike					
% Recovery:	97	96	96	97	
Matrix Spike		·			
Duplicate %	·				
Recovery:	94	94	93	97	
Relative %		·			
Difference:	3.1	2.1	3.2	0.0	
LCS Batch#:	-	-	•	-	
Date Prepared:	-	_ ,	-	-	·
Date Analyzed:	-	-	-	-	
Instrument I.D.#:	•	•	•	-	
LCS %					
Recovery:	•	-	•	-	
% Recovery					·
Control Limits:	71-133	72-128	72-130	71-120	•

SEQUOIA ANALYTICAL

Suzanne Chin Project Manager Please Note:



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Blaine Tech Services, Inc. 985 Timothy Drive

Client Project ID:

940516-A2, Shell, 1800 Powell St.

Matrix:

Liquid

San Jose, CA 95133 Attention: Jim Keller

QC Sample Group: 4EA5906

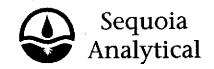
Reported: May 27, 1994

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes	
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	
Analyst:	J. Minkel	J. Minkel	J. Minkel	J. Minkel	
MS/MSD					•
Batch#:	4EC0506	4EC0506	4EC0506	4EC0506	
Date Prepared:	N.A.	N.A.	N.A.	N.A.	
Date Analyzed:	5/24/94	5/24/94	5/24/94	5/24/94	
nstrument I.D.#:	GCHP-17	GCHP-17	GCHP-17	GCHP-17	•
Conc. Spiked:	10 µg/L	10 μg/L	10 μg/L	30 μg/L	
Matrix Spike % Recovery:	97	97	99	100	
Matrix Spike Duplicate % Recovery:	98	98	100	100	
Relative % Difference:	1.0	1.0	1.0	0.0	
LCS Batch#:	-	-		-	
Date Prepared:	•	-	-		
Date Analyzed:	•	•	-	-	
Instrument I.D.#:	•	-	-	-	
LCS % Recovery:	<u>.</u>	-	-	-	
% Recovery Control Limits:	71-133	72-128	72-130	71-120	

SEQUOIA ANALYTICAL

Suzanne Chin **Project Manager** Please Note:



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Blaine Tech Services, Inc.

Client Project ID:

Matrix:

940516-A2, Shell, 1800 Powell St.

985 Timothy Drive San Jose, CA 95133 Liquid

Attention: Jim Keller

QC Sample Group: 4EA5907-09

Reported:

May 27, 1994

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl	Xylenes	
			Benzene		*
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	•
Analyst:	R. Vincent	R. Vincent	R, Vincent	R. Vincent	
MS/MSD					
Batch#:	4E94703	4E94703	4E94703	4E94703	
Date Prepared:	N.A.	N.A.	N.A.	N.A.	·
Date Analyzed:	5/23/94	5/23/94	5/23/94	5/23/94	•
nstrument l.D.#:	GCHP-17	GCHP-17	GCHP-17	GCHP-17	
Conc. Spiked:	10 μg/L	10 μg/L	10 μg/L	30 μg/L	
Matrix Spike				4	
% Recovery:	91	91	91	90	
Matrix Spike	•				
Duplicate %					
Recovery:	98	97	97	97	
Relative %					
Difference:	7.4	6.4	6.4	7.5	
LCS Batch#:			-	_	
LOG Baloli#.					
Date Prepared:	•	-	-	• -	
Date Analyzed:	-	-	-	-	
Instrument I.D.#:	-	•	•	-	
LCS %					
Recovery:	-	-	•	-	
% Recovery					
Control Limits:	71-133	72-128	72-130	71-120	

SEQUOIA ANALYTICAL

Suzanné Chin Project Manager Please Note:



680 Chesapeake Drive 1900 Bates Avenue, Suite L

Redwood City, CA 94063 Concord, CA 94520 819 Striker Avenue, Suite 8 . Sacramento, CA 95834

(415) 364-9600 (510) 686-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

Blaine Tech Services, Inc.

Client Project ID:

Matrix:

940516-A2, Shell, 1800 Powell St.

985 Timothy Drive San Jose, CA 95133 Liquid

Attention: Jim Keller

QC Sample Group: 4EA5904-06

Reported:

May 27, 1994

QUALITY CONTROL DATA REPORT

ANALYTE

Diesel

Method:

EPA 8015 Mod.

Analyst:

M. Cassidy

MS/MSD

Batch#:

4E97915

Date Prepared:

5/19/94

Date Analyzed:

5/20/94

Instrument I.D.#:

GCHP-5

Conc. Spiked:

600 µg/L

Matrix Spike

% Recovery:

58

Matrix Spike

Duplicate % Recovery:

65

Relative %

Difference:

11

LCS Batch#:

Date Prepared:

Date Analyzed:

Instrument I.D.#:

LCS %

Recovery:

% Recovery

SEQUOIA ANALYTICAL

Control Limits:

28-122

Please Note:

The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

Suzanne Chin

Project Manager

ATTACHMENT B

HISTORICAL GROUND WATER ELEVATION AND ANALYTIC DATA

Table 1
SUMMARY OF GROUND WATER ELEVATIONS AND WATER SAMPLE ANALYTICAL RESULTS

Well	Sampling	ТОВ	DTW	GWE	TPHg	В	T	E	X (ppb)	TPHd (ppb)	TPHmo (ppb)
Number	_	(feet)	(feet)	(feet)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	יטקקי	(ррол
		11.72			3000	660	20	20	70	NA	NA
S-5	10/27/88	11.72			2900	550	20	20	30	NA	NA
,	2/10/89	11.72			4300	750	10	20	<30	NA	NA ·
	4/28/89 7/7/89	11.72			1500	300	8.0	7	9	NA	NA
	10/25/89	11.72			2100	760	10	40	50	NA	NA
	1/4/90	11.72			1300	520	9.0	8	10	NA	NA
	7/6/90	11.72	8.36	3.36	1400	500	10	4	<10	NA	NA
	10/19/90	11.72			4200	1100	9.0	14	7	NA	NA NA
	1/14/91	11.72			4500	1100	15	30	25	6100	NA NA
	4/23/91	11.72			2800	500	8.0	14	10	NA	
	7/8/91	11.72	9.15	2.57	3200	1000	16	9	12.	NA	NA
	10/11/91	11.72	9.67	2.05	1700	16	5.7	5.2	8.9	NA	NA NA
	2/12/92	11.72	9.00	2.72	1300	300	5.0	<5.0	<5	NA	
	5/11/92	11.72	8.61	3.11	1900	490	<5.0	<5.0	<5	NA	NA
	9/1/92	11.72	9.61	2.11	6700	760	26	<25	<25	NA	NA
	12/4/92	11.72	9.47	2.25	2900	890	5.3	7.3	13	NA	NA
	2/17/93	11.72	8.29	3.43	1300	280	3.0	3.4	9.4	NA NA	NA
	5/29/93	11.72	9.16	2.56	460	130	<0.5	<0.5	2.9	NA	NA
	8/11/93	11.72	9.30	2.42	1700	530	5.5	<5.0	5.8	NA	NA
	0/11/33	11.72	7.50			1700	50	80	420	NA	NA
S-6	10/27/88		_	_	6000	1700	20	20	140	NA	NA
	2/10/89				2800	740	30	50 50	210	NA	NA ·
	4/28/89				6500	2400	30 34	55	200	NA	NA
•	7/7/89				3700	1700	<5.0	<5.0	10	NA	NA -
	10/25/89			. —	<50	. 23	<3.0	₹3.0	10		
	11/10/89				Well aban	doned					
					50	1.1	<1.0	<1.0	4	NA	NA
S-7	10/27/88				.50	0.9	<1.0	<1.0	<3	NA	NA
	2/10/89		_		<50	1.0	<1.0	<1.0	<3	NA	NA
	4/28/89	_			70	2.2	<1.0	<1.0	<3 .	NA	NA
	7/7/89				6200	2200	130·	190	660	NA	NA
	10/25/89				Well aban		.,,	,			
	11/10/89				TYELL AUGIL	uonea _.					

Page 1 of 5

 $\label{table 1} \label{table 1}$ Summary of ground water elevations and water sample analytical results

Well Number	Sampling Date	TOB (feet)	DTW (feet)	GWE (feet)	TPHg (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	TPHd (ppb)	TPHmo (ppb)
				,				•		,	
S-8	10/27/88	12.76			1000	610	9	1.0	42	NA	NA
	2/10/89	12.76			500	160	5	<2.0	17	NA	NA
	4/28/89	12.76			2700	1500	20	10	40	NA	NA
	7/7/89	12.76	. —		440	180	5	2.0	12	NA	ŅA
	10/25/89	12.76	·		2000	1100	17	5.0	70	NA	NA
	1/4/90	12.76		_	1900	1300	20	<10	70	NA	NA
	7/6/90	12.76	9.50	3.26	1600	920	30	<10	60	NA	NA
	10/19/90	12.76			1400	-640	<10	<10	30	NA	NA
	1/14/91	12.76	-		670 -	190	5.8	<0.5	19	760	600
	4/23/91	12.76			2400	740	54	5.7	59	NA	NA
	7/8/91	12.76	10.45	2.31	1100	450	15.	<2.5	42	NA	ŊĄ
	10/11/91	12.76	10.83	1.93	340	4	0.6	<0.5	17	NA	NA
	2/12/92	12.76	10.44	2.32	<1000	260	<10	<10	11	NA	NA
	5/11/92	12.76	10.17	2.59	1800	700	14	<5.0	46	NA	NA
	9/1/92	12.76	10.81	1.95	Floating pro	duct				NA	NA
	12/4/92	12.76	10.81	1.95	960	250	4.3	<2.5	14	NA	NA
	2/17/93	12.76	9.65	3.11	2700	800	35	10	83	NA	NA
	5/29/93	12,76	10.46	2.30	960	710	25	84 .	80	NA	NA
	8/11/93	12.76	10.59	2.17	1300	630	17	<5.0	46	NA	NA
S-9	10/27/88	12.75			Floating pro	xduct: thickn	ess not mea	sured			
	2/10/89	12.75			Floating pro	duct: 1.30 fe	et measure	d thickness			
	4/28/89	12.75			Floating pro	zduct: 1.25 fe	et measure	d thickness			
	7/7/89	12.75			Floating pro	xduct: 1.20 fe	et measure	d thickness			
	10/25/89	12.75				xduct: unable					
	1/4/90	12.75				xduct: unable					
	4/12/90	12.75				xduct: unable					
	7/6/90	12.75	9.67	3.08	· Floating pro						
	10/19/90	12.75	·			oduct: unable					
	1/14/91	12.75				xduct: unable					
	4/23/91	12.75				oduct: unable					
•	7/8/91	12.75		·		oduct: unable					
	10/11/91	12.75	22.30	-9.55		oduct: unable				w recharge.	

Table 1
SUMMARY OF GROUND WATER ELEVATIONS AND WATER SAMPLE ANALYTICAL RESULTS

Well Number	Sampling Date	TOB (feet)	DTW (feet)	GWE (feet)	TPHg (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	TPHd (ppb)	TPHmo (ppb)
S-10	10/27/88	12.58			700000	37000	100000	20000	110000	. NA	NA
J 10	2/10/89	12.58		_	6500	480	700	100	1800	NA	NA
	4/28/89	12.58			13000	1300	500	600	3700	NA	NA
	7/7/89	12.58			14000	1300	310	270	2400	NA	NA
	10/25/89	12.58			4200	580	34	4.0	440	NA	NA.
	1/4/90	12.58			1700	360	10	7.8	170	NA	NA
	4/12/90	12.58			Floating pro	duct: 0.01 fe	et measure	d thickness			•
	7/6/90	12.58	9.16	3.42	Floating pro	xduct: 0.01 fe	et measure	d thickness			
	10/19/90	12.58			Floating pro	xduct: 0.03 fe	et measure	d thickness			
	1/14/91	12.58			Floating pro	xduct: 0.03fe	et measured	l thickness			•
	4/23/91	12.58	_		Floating pro	xduct: 0.01 fe	et measure	d thickness			
	7/8/91	12.58	9.41	3.17	Floating pro	xduct: 0.03 fe	et measure	d thickness			
	10/11/91	12.58	7.77	4.81	Not sample						
	2/12/92	12.58	6.41	6.17	1200	470	16	< 5.0	14	NA	NA
•	5/11/92	12.58	9.04	3.54	1100	100	6	4.0	19	NA	NA
•	9/1/92	12.58	9.38	3.20	Floating pro	educt: 0.01 fe	eet measure	d thickness	,		
•	12/4/92	12.58	6.89	5.69	Floating pro	xduct	•				
	2/17/93	12.58	7.34	5.24	530	89	8.5	1.6	4.5	NA	NA
	5/29/93	12.58	6.60	5.98	240	65	3.8	2.2	8.6	NA	NA
	8/11/93	12.58	9.09	3.49	250	23	4.1	<1.0	6.4	NA	NA
S-12	11/17/89	12.84			<250	18	<2.0	<2.0	<5	1400	NA
. 5-14	1/4/90	12.84			<250	24	2.0	<2.0	<5	NA	NA
	7/6/90	12.84	8.27	4.57	80	15	0.7	<0.5	2	NA	NA
	• •	12.84	•		150	12	9.0	< 0.5	3.6	NA	NA
•	10/19/90				120	3.6	0.8	<0.5	2.9	1000	600
	1/14/91	12.84			100	3.7	3.8	0.8	11	820^	800
	4/23/91	12.84		2.24	70	2.5	0.8	<0.5	2.4	.NA	NA
	7/8/91	12.84	9.50	3.34			0.7	<0.5	1.2	2500	5100
	10/11/91	12.84	9.90	2.94	220	2.1		<0.5	1.3	2500	1400
	2/12/92	12.84	9.43	3.41	110	0.8	<0.5		2.5	3800^	NA
	5/11/92	12.84	8.65	4.19	140	0.8	0.8	<0.5		2600^	NA NA
	9/1/92	12.84	9.86	2.98	190	3.0	15	0.5	4.5	2000	TAV

Page 3 of 5

Table 1
SUMMARY OF GROUND WATER ELEVATIONS AND WATER SAMPLE ANALYTICAL RESULTS

Well Number	Sampling Date	TOB (feet)	DTW (feet)	GWE (feet)	TPHg (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	TPHd (ppb)	TPHmo (ppb)
			0.00	0.01	180	1.2	1.0	1.0	7.7	3900^	NÄ
S-12	12/4/92	12.84	9.93	2.91	350*	0.6	<0.5	0.5	5.5	2100^	NA
	2/17/93	12.84	8.08	4.76 3.76	290	2.0	1.6	4.4	6.0	2200	NA
	5/29/93	12.84	9.08		240	0.7	<0.5	<0.5	1.1	720	NA
	8/11/93	12.84	9.35	3.49	240	0.7	~0.5	70.5		720	
S-13	11/17/89	12.59	 .		1900	700	160	70	340	2000	5000
5-13	1/4/90	12.59			2800	1400	130	10	500	NA	NA
	7/6/90	12.59	9.47	3.12	3100	1800	60	40	270	NA	NA
	10/24/90	12.59		J.11	3400	1500	28	28	250	NA	NA
		12.59			1900	830	15	<10	99	900	1600
	1/14/91	12.59			2900*	1100	20	30	140	770**	640
-	4/23/91	12.59	10.38	2.21	1500	880	10	6.0	160	NA	ŃΑ
	7/8/91		10.78	1.81	480	830	15	<0.5	120	2400	4900
	10/11/91	12.59		2.11	1300	510	<10	<10	86	1300	1300
	2/12/92	12.59	10.48		1000	470	<5.0	<5.0	50	1300^	NA
	5/11/92	12.59	9.48	3.11			<5.0	73.0	, 30	1000	
	9/1/92	12.59	10.74	1.85	Free product	290	4.6	<2.5	20	2400^	NA
	12/4/92	12.59	10.30	2.29	900 840 *	310	3.5	<2.5	27	1200^	NA
•	2/17/93	12.59	7.60	4.99		1100	3.3 19	50	350	4600	NA
	5/29/93	12.59	10.60	1.99^^	2100	230	16	6.9	65	2300	NA
•	8/11/93	12.59	10.58	2.01^^	900	250	10	0.7		2000	
S-14	11/17/89	12.69			<250	3.0	<2.0	<2.0	<5	<400	3000
5-14	1/4/90	12.69			<250	3.0	2.0	<2.0	<5	NA	NA 1
	4/23/91	12.69			1200	7.4	2.7	15	110	18000**	<5000
	7/8/91	12.69	10.32	2.37	190	6.5	0.6	1.9	26	NA	NA
	• •	12.69	10.77	1.92	4900	7.0	1.2	<0.5	25	21000	<500
	10/11/91	12.69	10.77	2.29	370	4.6	<2.5	<2.5	26	12000*	. 2500
	2/12/92	12.69	9.66	3.03	660	2.9	<2.5	<2.5	24	2200^	NA -
	5/11/92	12.69	10.74	1.95	700	3.2	<2.5	<2.5	15	7900	NA
	9/1/92		10.74	2.00	210	<0.5	<0.5	0.8	6.8	11000^	NA
	12/4/92	12.69	10.03	2.00	210	20.0		5.0			

Table 1

SUMMARY OF GROUND WATER ELEVATIONS AND WATER SAMPLE ANALYTICAL RESULTS

Shell Service Station 1800 Powell Street Emeryville, California WIC#204-2495-0101

Well	Sampling	TOB	DTW	GWE	TPHg	B	T	E	X	TPHd	TPHmo
Number	Date	(feet)	(feet)	(feet)	(ppb)						
S-14	2/17/93	12.69	9.69	3.00	130*	<0.5	<0.5	<0.5	4.4	5700^	NA
	5/29/93	12.69	10.42	2.27	770	<0.5	<0.5	<0.5	4.5	5200	NA
	8/11/93	12.69	10.54	2.15	920	<1.0	<1.0	1.6	17	8800	NA

Notes:

TOB:	Ton of	well i	box	referenced	to mean	sea	level
IQD i	TOPOL	AA CIT	~	CICICICCO	10 1110411		

DTW: Depth to water

GWE: Ground water elevation. Ground water elevation data available for certain dates only.

TPHg: Total petroleum hydrocarbons as gasoline by EPA Method 8015 (modified)
BTEX: Benzene, toluene, ethylbenzene and total xylenes by EPA Method 8020
TPHd: Total petroleum hydrocarbons as diesel by EPA Method 8015 (modified)
TPHmo Total petroleum hydrocarbons as motor oil by EPA Method 8015 (modified)

NA: Not analyzed

* Compounds detected within the chromatographic range of gasoline but not characteristic of the standard gasoline pattern.

^ Compounds detected within the chromatographic range of diesel with pattern typical of weathered diesel.

** Compounds detected within the chromatographic range of diesel appears to include gasoline compounds.

Ground water elevation not used to define contours on Figure 3. See text.