



November 17, 1994

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DEC - 2 1994

Kevin Graves
Regional Water Quality Control Board-
San Francisco Bay Region
2101 Webster Street, Suite 500
Oakland, CA 94612

PLEASANTON FIRE DEPARTMENT

Re: Shell Service Station
WIC #204-6138-0907
5251 Hopyard Road
Pleasanton, California
WA Job #81-0796-104

Dear Mr. Graves:

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:

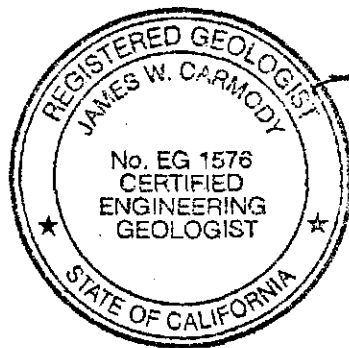
- Blaine Tech Services, Inc. (BTS) of San Jose, California measured ground water depths and collected ground water samples from the site wells. BTS' report describing these activities and the analytical report for the ground water samples are included as Attachment A.
- Weiss Associates (WA) calculated ground water elevations and compiled the analytic data (Table 1 and Attachment B) and prepared a ground water elevation contour map (Figure 2).
- WA recommended sampling frequency modifications for the site's ground water monitoring wells in our second quarter 1994 status report. Because hydrocarbons in the subsurface are fully assessed as indicated by the past seven years of ground water analytic data, and because the low permeability of the site's soils appears to be sufficiently impeding hydrocarbon migration, we recommend sampling and gauging all site wells annually. (Attachment B)

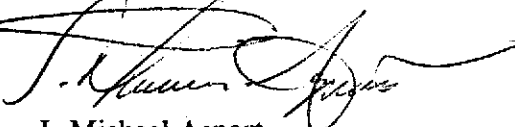
Anticipated Fourth Quarter 1994 Activities:

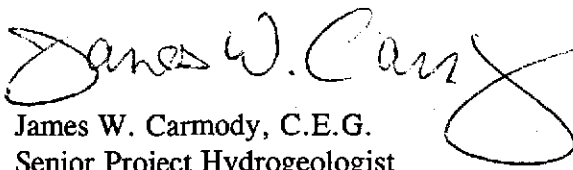
- WA will submit a report presenting a summary of recent and proposed site activities.
- Unless we hear otherwise from you, WA will implement annual well gauging and sampling beginning in the fourth quarter 1994. We will implement site-wide annual sampling beginning in the fourth quarter 1994, sampling only during the second quarter when ground water elevations and dissolved hydrocarbon concentrations are potentially highest.

Please call if you have any questions.

Sincerely,
Weiss Associates




J. Michael Asport
Staff Scientist I


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

Attachments: A - Blaine Tech's Ground Water Monitoring Report
B - Sampling Frequency Modification Criteria

cc: Dan Kirk, Shell Oil Company, P.O. Box 4023, Concord, California 94524
Ted Klenk, Pleasanton Fire Department, 4444 Railroad Street, Pleasanton, California 94566

JMA/JWC:jma
J:\SHELL\0796\QMC\796T10C4.DOC

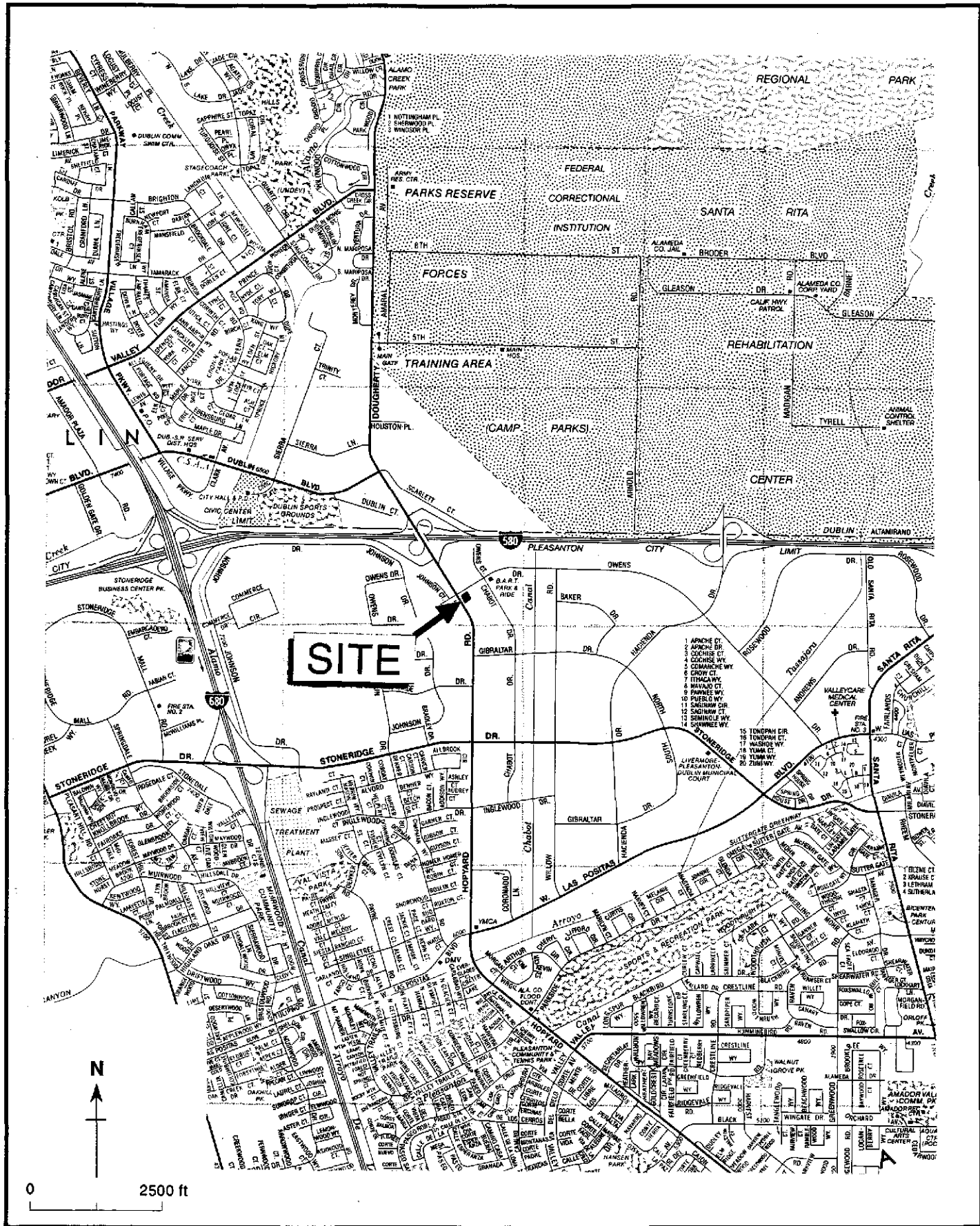


Figure 1. Site Location Map - Shell Service Station WIC# 204-6138-0907, 5251 Hopyard Road, Pleasanton, California

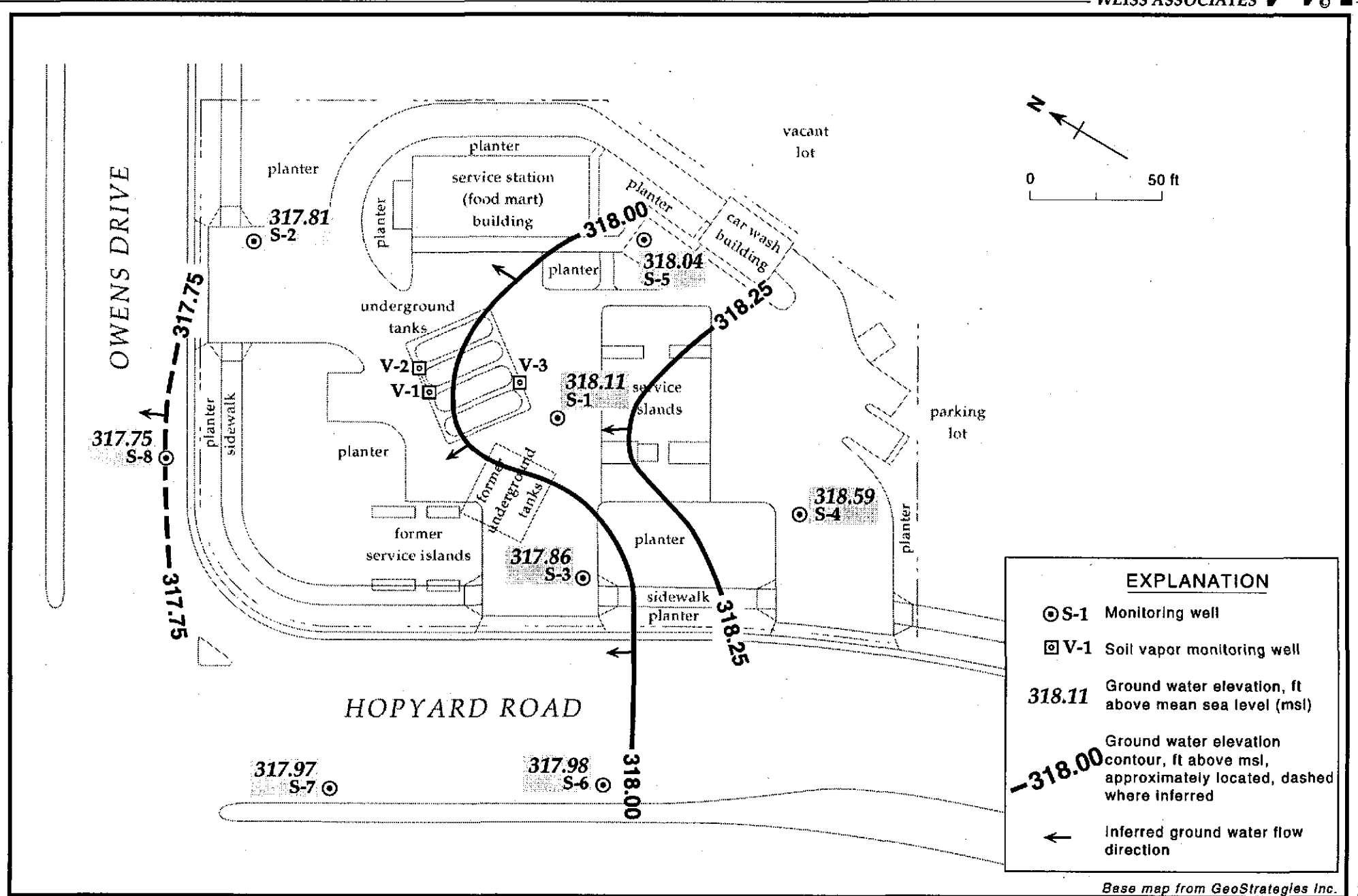


Figure 2. Monitoring Well Locations and Ground Water Elevation Contours - September 13, 1994 - Shell Service Station WIC# 204-6138-0907, 5251 Hopyard Road, Pleasanton, California

Table 1. Ground Water Elevations and Analytic Results - Shell Service Station WIC #204-6138-0907, 5251 Hopyard Road, Pleasanton, California

Well ID	Sampling Date	Top-of-Casing (ft msl)	Depth to Water (ft)	Ground Water Elevation (ft msl)	←————— parts per billion (µg/L) —————→					
					TPH-G	TPH-D	B	T	E	X
S-1	01/25/91	326.73	---	---	2,500	1,500	460	<25	130	36
	04/06/91		---	---	6,700	2,600 ^a	2,600	14	580	250
	07/24/91		---	---	8,800	3,800 ^a	2,300	30	640	220
	10/18/91		8.85	317.88	12,000	3,300 ^a	3,600	380	990	580
	01/23/92		---	---	1,600	890	450	3.0	120	17
	04/27/92		---	---	1,100 ^b	500 ^a	610	<10	110	10
	07/21/92		---	---	5,100	290 ^c	1,900	54	460	140
	10/16/92		---	---	13,000	390 ^c	3,200	310	780	360
	01/23/93		7.96	318.77	2,300	30 ^d	640	<5	110	13
	04/28/93		9.07	317.66	4,600	390	780	<0.5	250	<0.5
	09/22/93		8.68	318.05	3,000	610 ^a	660	28	160	17
	12/08/93		8.23	318.50	520	280	210	<2.5	49	<2.5
	03/04/94		8.81	317.92	640	---	190	1.4	18	1.3
	03/04/94 ^{dup}		8.81	317.92	640	---	180	1.7	17	1.3
	06/16/94		8.80	317.93	2,500	---	390	9.5	31	7.5
	06/16/94 ^{dup}		8.80	317.93	2,000	---	410	7.8	120	20
	09/13/94		8.62	318.11	1,400	---	310	7.7	29	8.5
09/13/94 ^{dup}		8.62	318.11	1,400	---	240	7.9	44	6.3	
S-2	01/25/91	326.59	---	---	<50	<50	<0.5	<0.5	<0.5	<0.5
	04/16/91		---	---	<50	<50	<0.5	<0.5	<0.5	<0.5
	07/24/91		---	---	<50	<50	<0.5	<0.5	<0.5	<0.5
	10/18/91		8.83	317.76	<50	<50	<0.5	<0.5	<0.5	<0.5
	01/23/92		---	---	<50	<50	<0.5	<0.5	<0.5	<0.5
	04/27/92		---	---	<50	<50	<0.5	<0.5	<0.5	<0.5
	07/17/92		---	---	<50	<50	<0.5	<0.5	<0.5	<0.5
	10/16/92		---	---	<50	<50	<0.5	<0.5	<0.5	<0.5
	01/23/93		8.10	318.49	<50	140 ^b	<0.5	<0.5	<0.5	<0.5
	04/28/93		9.06	317.53	<50	<50	<0.5	<0.5	<0.5	<0.5

— Table 1 continues on next page —



Table 1. Ground Water Elevations and Analytic Results - Shell Service Station WIC #204-6138-0907, 5251 Hopyard Road, Pleasanton, California (continued)

Well ID	Sampling Date	Top-of-Casing (ft msl)	Depth to Water (ft)	Ground Water Elevation (ft msl)	TPH-G	TPH-D	B	T	E	X
	09/22/93		8.91	317.68	---	---	---	---	---	---
	12/08/93		9.07	317.52	---	---	---	---	---	---
	03/04/94		8.90	317.69	---	---	---	---	---	---
	06/16/94		8.98	317.61	---	---	---	---	---	---
	09/13/94		8.78	317.81	<50	---	<0.5	2.5	<0.5	<0.5
S-3	01/25/91	327.38	---	---	870	330	230	<2.5	130	<2.5
	04/16/91		---	---	190	140 ^a	12	0.8	6.2	1.5
	07/24/91		---	---	1,700	1,200 ^a	450	4.4	150	2.9
	10/18/91		9.64	317.74	1,900	500	370	3.1	120	220
	01/23/92		---	---	2,000	650 ^a	580	3.0	200	<0.5
	04/27/92		---	---	1,100	230 ^a	150	<3	76	14
	07/17/92		---	---	810	58	200	<2.5	57	3.8
	10/16/92		---	---	440	190 ^c	79	1.8	18	4.6
	01/23/93		8.81	318.57	670	170 ^d	79	1.5	46	15
	04/28/93		9.87	317.51	2,000	<50	300	3.4	210	38
	09/22/93		9.65	317.73	4,800	670 ^a	2,000	34	150	51
	12/08/93		9.26	318.12	1,200	11	440	<5.0	120	29
	03/04/94		9.64	317.74	630	---	130	<0.5	17	0.80
	06/16/94		9.78	317.60	1,800	---	430	19	35	21
S-4	01/25/91	327.38	---	---	<50	<50	<0.5	1.5	<0.5	2.8
	04/16/91		---	---	<50	0.7	<0.5	<0.5	<0.5	<0.5
	07/24/91		---	---	<50	<50	<0.5	<0.5	<0.5	<0.5
	10/18/91		8.82	318.56	<50	<50	<0.5	<0.5	<0.5	<0.5
	01/23/92		---	---	<50	<50	<0.5	<0.5	<0.5	<0.5
	04/27/92		---	---	<50	<50	<0.5	<0.5	<0.5	<0.5
	07/17/92		---	---	<500	74	<0.5	<0.5	<0.5	<0.5
	10/16/92		---	---	<500	<50	<0.5	<0.5	<0.5	<0.5

— Table I continues on next page —



Table 1. Ground Water Elevations and Analytic Results - Shell Service Station WIC #204-6138-0907, 5251 Hopyard Road, Pleasanton, California (continued)

Well ID	Sampling Date	Top-of-Casing (ft msl)	Depth to Water (ft)	Ground Water Elevation (ft msl)	TPH-G	TPH-D	B	T	E	X
	01/23/93		8.32	319.06	<500	94 ^b	<0.5	<0.5	<0.5	<0.5
	04/28/93		9.76	317.62	<50	<50	<0.5	<0.5	<0.5	<0.5
	09/22/93		9.30	318.08	---	---	---	---	---	---
	12/08/93		9.74	317.64	---	---	---	---	---	---
	03/04/94		9.60	317.78	---	---	---	---	---	---
	06/16/94		9.42	317.96	---	---	---	---	---	---
S-5	01/25/91	327.76	---	---	<50	<50	<0.5	<0.5	<0.5	0.7
	04/16/91		---	---	<50	<50	<0.5	<0.5	<0.5	0.8
	07/24/91		---	---	<50	<50	<0.5	<0.5	<0.5	<0.5
	10/18/91		10.00	317.76	120 ^c	<50	4.3	<0.5	1.0	0.7
	01/23/92		---	---	<50	<50	<0.5	<0.5	<0.5	<0.5
	04/27/92		---	---	50	<50	<0.5	<0.5	<0.5	0.6
	07/17/92		---	---	<50	70	<0.5	<0.5	<0.5	<0.5
	10/16/92		---	---	230	57	13	<0.5	4.9	4.3
	01/23/93		8.88	318.88	<50	150 ^b	<0.5	<0.5	<0.5	<0.5
	04/28/93		10.20	317.56	<50	<50	<0.5	<0.5	<0.5	<0.5
	09/22/93		9.92	317.84	<50	<50	<0.5	<0.5	<0.5	<0.5
	12/08/93		10.19	317.57	<50	<50	<0.5	<0.5	<0.5	<0.5
	03/04/94		9.95	317.81	<50	---	<0.5	<0.5	<0.5	<0.5
	06/16/94		10.02	317.74	<50	---	0.9	<0.5	<0.5	<0.5
S-6	01/25/91	326.56	---	---	<50	<50	<0.5	1.7	<0.5	2.8
	04/16/91		---	---	<50	<50	<0.5	<0.5	<0.5	0.6
	07/24/91		---	---	<50	<50	<0.5	<0.5	<0.5	0.5
	10/18/91		8.84	317.22	<50	<50	<0.5	<0.5	<0.5	0.5
	01/23/92		---	---	<50	<50	<0.5	<0.5	<0.5	0.5
	04/27/92		---	---	<50	<50	<0.5	<0.5	<0.5	<0.5
	07/17/92		---	---	400	130	<0.5	<0.5	<0.5	<0.5

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Table 1. Ground Water Elevations and Analytic Results - Shell Service Station WIC #204-6138-0907, 5251 Hopyard Road, Pleasanton, California (continued)

Well ID	Sampling Date	Top-of-Casing (ft msl)	Depth to Water (ft)	Ground Water Elevation (ft msl)	TPH-G	TPH-D	B	T	E	X
	10/16/92		---	---	<50	<50	<0.5	<0.5	<0.5	<0.5
	01/23/93		7.82	318.74	<50	230 ^b	<0.5	<0.5	<0.5	<0.5
	04/28/93		9.00	317.56	<50	<50	<0.5	<0.5	<0.5	<0.5
	09/22/93		8.61	317.96	<50	<50	<0.5	<0.5	<0.5	<0.5
	12/08/93		10.02	316.54	<50	<50	<0.5	<0.5	<0.5	<0.5
	03/04/94		8.88	317.68	<50	---	<0.5	<0.5	<0.5	<0.5
	06/16/94		9.04	317.52	<50	---	<0.5	<0.5	<0.5	<0.5
S-7	01/25/91	326.49	---	---	<50	<50	<0.5	<0.5	<0.5	<0.5
	04/16/91		---	---	<50	<50	<0.5	<0.5	<0.5	<0.5
	07/24/91		---	---	<50	<50	<0.5	<0.5	<0.5	<0.5
	10/18/91		8.92	317.57	<50	140 ^f	<0.5	<0.5	<0.5	<0.5
	01/23/92		---	---	<50	140 ^f	<0.5	<0.5	<0.5	<0.5
	04/27/92		---	---	<50	<50	<0.5	<0.5	<0.5	<0.5
	07/17/92		---	---	<50	<50	<0.5	1.8	0.6	4.1
	10/16/92		---	---	<50	<50	<0.5	<0.5	<0.5	<0.5
	01/23/93		8.06	318.43	<50	110 ^b	<0.5	<0.5	<0.5	<0.5
	04/28/93		8.94	317.55	<50	<50	<0.5	<0.5	<0.5	<0.5
	09/22/93		8.57	317.92	---	---	---	---	---	---
	12/08/93		9.00	317.49	---	---	---	---	---	---
	03/04/94		8.96	317.53	---	---	---	---	---	---
	06/16/94		9.12	317.37	---	---	---	---	---	---
S-8	01/25/91	325.32	---	---	<50	<50	<0.5	<0.5	<0.5	<0.5
	04/16/91		---	---	<50	<50	<0.5	<0.5	<0.5	<0.5
	07/24/91		---	---	<50	<50	<0.5	<0.5	<0.5	<0.5
	10/18/91		7.62	317.70	<50	360 ^f	<0.5	<0.5	<0.5	<0.5
	01/23/92		---	---	<50	90	<0.5	<0.5	<0.5	<0.5
	04/27/92		---	---	<50	<50	<0.5	<0.5	<0.5	<0.5

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Table 1. Ground Water Elevations and Analytic Results - Shell Service Station WIC #204-6138-0907, 5251 Hopyard Road, Pleasanton, California (continued)

Well ID	Sampling Date	Top-of-Casing (ft msl)	Depth to Water (ft)	Ground Water Elevation (ft msl)	TPH-G	TPH-D	parts per billion (µg/L)			
							B	T	E	X
	07/17/92	---	---	---	53	<50	<0.5	1.0	<0.5	1.8
	10/16/92	---	---	---	<50	<50	<0.5	<0.5	<0.5	<0.5
	01/23/93		7.00	318.32	<50	<50	<0.5	<0.5	<0.5	<0.5
	04/28/93		7.77	317.55	<50	<50	<0.5	<0.5	<0.5	<0.5
	09/22/93		7.67	317.65	<50	160	<0.5	<0.5	<0.5	<0.5
	12/08/93		7.76	317.56	<50	210	<0.5	<0.5	<0.5	<0.5
	03/04/94		7.66	317.66	<50	---	<0.5	<0.5	<0.5	<0.5
	06/16/94		7.78	317.54	<50	---	<0.5	<0.5	<0.5	<0.5
Trip Blank	03/04/94				<50		<0.5	<0.5	<0.5	<0.5
	06/16/94				<50		<0.5	<0.5	<0.5	<0.5
DTSC MCLs					NE	NE	1	100 ^h	680	1,750

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Table 1. Ground Water Elevations and Analytic Results - Shell Service Station WIC #204-6138-0907, 5251 Hopyard Road, Pleasanton, California (continued)

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 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
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
dup = Duplicate sample
--- = Not analyzed

Notes:

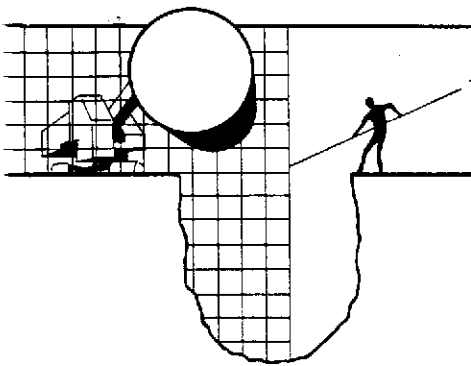
a = Compounds detected as diesel appear to be the less volatile constituents of gasoline.
b = The concentration reported as diesel primarily due to the presence of a heavier petroleum product.
c = The concentration reported as diesel due to the presence of a lighter petroleum product.
d = Concentrations reported as diesel includes a heavier petroleum product.
e = Compounds detected within the chromatographic range of gasoline but not characteristic of the standard gasoline pattern.
f = Compounds detected within the chromatographic range of diesel but not characteristic of the standard diesel pattern.
g = The chromatographic pattern of the purgeable hydrocarbons found in the sample is similar to the pattern of weathered gasoline.
h = DTSC recommended action level; MCL not established

ATTACHMENT A

BLAINE TECH'S GROUND WATER MONITORING REPORT

ATTACHMENT B

SAMPLING FREQUENCY MODIFICATION CRITERIA



September 30, 1994

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

Attn: Daniel T. Kirk

SITE:
Shell WIC #204-6138-0907
5251 Hopyard Road
Pleasanton, California

QUARTER:
3rd quarter of 1994

QUARTERLY GROUNDWATER SAMPLING REPORT 940913-L-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 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. 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 based 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
Emeryville, CA 94608-2411
ATTN: Michael Asport

TABLE OF WELL GAUGING DATA

WELL I.D.	DATA COLLECTION DATE	MEASUREMENT REFERENCED TO	QUALITATIVE OBSERVATIONS (sheen)	DEPTH TO FIRST IMMISCIBLES LIQUID (FPZ) (feet)	THICKNESS OF IMMISCIBLES LIQUID ZONE (feet)	VOLUME OF IMMISCIBLES REMOVED (ml)	DEPTH TO WATER (feet)	DEPTH TO WELL BOTTOM (feet)
S-1 *	9/13/94	TOB	ODOR	NONE	--	--	8.62	29.93
S-2	9/13/94	TOB	--	NONE	--	--	8.78	24.58
S-3	9/13/94	TOB	ODOR	NONE	--	--	9.52	24.81
S-4	9/13/94	TOB	--	NONE	--	--	8.79	24.52
S-5	9/13/94	TOB	--	NONE	--	--	9.72	24.72
S-6	9/13/94	TOB	--	NONE	--	--	8.58	26.02
S-7	9/13/94	TOB	--	NONE	--	--	8.52	25.32
S-8	9/13/94	TOB	--	NONE	--	--	7.57	25.23

* Sample DUP was a duplicate sample taken from well S-1.



SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Serial No: 940913-L1

Date: 9-13-94

Page 1 of 2

Silo Address: 5251 Hopyard Road, Pleasanton, CA

WIC#: 204-6138-0907

Shell Engineer: Dan Kirk
Phone No.: (510) 575-6168
Fax #: 675-6160

Consultant Name & Address: Blaine Tech Services, Inc.
985 Timothy Drive San Jose, CA 95133

Consultant Contact: Jim Keller
Phone No.: (408) 995-5535
Fax #: 293-8773

Comments:

Sampled by: LAD B OLVER

Printed Name: LAD B OLVER

Analysis Required

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
					X				
					X				
					X				
					X				
					X				
					X				
					X				
					X				
					X				
					X				

LAB: NET

CHECK ONE (IF BOX ONLY) C/D/I TURN AROUND TIME

Quality Monitoring 6441 24 hours

Site Investigation 6441 48 hours

Soil Classify/Disposal 6443 16 days (alternate)

Water Classify/Disposal 6443 Other

Soil/Air Rem. of Sp. O & M 6442

Water Rem. of Sp. O & M 6443

Other

NOTE: Hasty Lab as soon as Possible of 24/48 hrs. 1AL.

Sample ID	Date	Sludge	Soil	Water	Air	No. of conls.
S-1	9/13			X		3
S-2				X		3
S-3				X		3
S-4				X		3
S-5				X		3
S-6				X		3
S-7				X		3
S-8				X		3

MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS

Relinquished By (Signature): [Signature]
Printed Name: LAD B OLVER
Date: 9/13/94
Time: 1:30

Received (Signature): [Signature]
Printed Name: GT LUMBER
Date: 9/13/94
Time: 1:30

Relinquished By (Signature): [Signature]
Printed Name: [Signature]
Date: 9/13/94
Time: 1:30

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN OF CUSTODY WITH INVOICE AND RESULTS



SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Serial No: 940913-L1

Date: 9-13-94

Page 2 of 2

Silo Address: 5251 Hopyard Road, Pleasanton, CA

WIC#: 204-6138-0907

Shell Engineer: Dan Kirk
Phone No.: (510) 75-6168
Fax #: 675-6160

Consultant Name & Address: Blaine Tech Services, Inc.
985 Timothy Drive San Jose, CA 95133

Consultant Contact: Jim Keller
Phone No.: (408) 995-5535
Fax #: 293-8773

Comments:

Sampled by: LAD B OLVER

Printed Name: LAD B OLVER

Analysis Required

TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/802)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020	Asbestos	Container Size	Preparation Used	Composite Y/N

LAB: NET

CHECK ONE (IF BOX ONLY)	CI/DI	TURF AROUND BML
Quarterly Monitoring <input checked="" type="checkbox"/>	8441	24 hours <input type="checkbox"/>
Site Investigation <input type="checkbox"/>	8441	48 hours <input type="checkbox"/>
Soil Classfy/Disposal <input type="checkbox"/>	8442	15 days <input checked="" type="checkbox"/> (Normal)
Water Classfy/Disposal <input type="checkbox"/>	8443	Other <input type="checkbox"/>
Soil/Air Rem. or Sys. O & M <input type="checkbox"/>	8443	
Water Rem. or Sys. O & M <input type="checkbox"/>	8443	
Other <input type="checkbox"/>		

NOTE: Notify Lab as soon as possible of 24/48 hrs. IAL

Sample ID	Date	Sludge	Soil	Water	Air	No. of conis.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/802)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020	Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS	
DUP	9/13			X		3						X							
E.B.	1			X		3						X							
T.B.	1			X		2						X							

CUSTOMER SEALED
[Signature]
Date: 9/13/94

Relinquished By (Signature): [Signature]
Printed Name: LAD B OLVER
Date: 9/14
Time: 12:30

Relinquished By (Signature): [Signature]
Printed Name: GT LUMPK
Date: 9/14
Time: 12:30

Relinquished By (Signature): [Signature]
Printed Name: [Signature]
Date: 9/15/94
Time: 08:40

Received (Signature): [Signature]
Printed Name: GT LUMPK
Date: 9/14
Time: 12:30

Received (Signature): [Signature]
Printed Name: [Signature]
Date: 9/15/94
Time: 08:40

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN OF CUSTODY WITH INVOICE AND RESULTS.



NATIONAL
ENVIRONMENTAL
TESTING, INC.

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

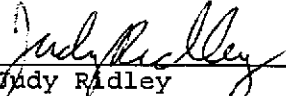
Date: 09/28/1994
NET Client Acct. No: 1821
NET Pacific Job No: 94.04222
Received: 09/15/1994

Client Reference Information

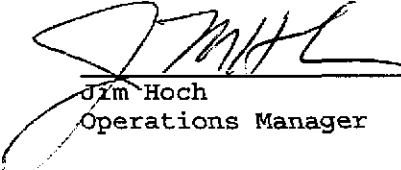
SHELL 5251 Hopyard Rd., Pleasanton, 940913-L1

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 Radley
Project Coordinator



Jim Hoch
Operations Manager

Enclosure (s)





Client Name: Blaine Tech Services

Date: 09/28/1994

Client Acct: 1821

ELAP Cert: 1386

NET Job No: 94.04222

Page: 2

Ref: SHELL 5251 Hopyard Rd., Pleasanton, 940913-L1

SAMPLE DESCRIPTION: S-1

Date Taken: 09/13/1994

Time Taken:

NET Sample No: 216227

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
TPH (Gas/BTEX, Liquid)							
METHOD 5030/M8015	--						09/25/1994
DILUTION FACTOR*	1						09/25/1994
as Gasoline	1,400		50	ug/L	5030		09/25/1994
Carbon Range:	C5-C12						09/25/1994
METHOD 8020 (GC, Liquid)	--						09/25/1994
Benzene	310	FC	0.5	ug/L	8020		09/26/1994
Toluene	7.7		0.5	ug/L	8020		09/25/1994
Ethylbenzene	29		0.5	ug/L	8020		09/25/1994
Xylenes (Total)	8.5		0.5	ug/L	8020		09/25/1994
SURROGATE RESULTS	--						09/25/1994
Bromofluorobenzene (SURR)	120			% Rec.	5030		09/25/1994

FC : Compound quantitated at a 10X 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
Client Acct: 1821
NET Job No: 94.04222

Date: 09/28/1994
ELAP Cert: 1386
Page: 3

Ref: SHELL 5251 Hopyard Rd., Pleasanton, 940913-L1

SAMPLE DESCRIPTION: S-2
Date Taken: 09/13/1994
Time Taken:
NET Sample No: 216228

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
TPH (Gas/BTEX, Liquid)							
METHOD 5030/M8015	--						09/25/1994
DILUTION FACTOR*	1						09/25/1994
as Gasoline	ND		50	ug/L	5030		09/25/1994
Carbon Range:	--						09/25/1994
METHOD 8020 (GC, Liquid)	--						09/25/1994
Benzene	ND		0.5	ug/L	8020		09/25/1994
Toluene	2.5	C	0.5	ug/L	8020		09/25/1994
Ethylbenzene	ND		0.5	ug/L	8020		09/25/1994
Xylenes (Total)	ND		0.5	ug/L	8020		09/25/1994
SURROGATE RESULTS	--						09/25/1994
Bromofluorobenzene (Surr)	100			% Rec.	5030		09/25/1994

C : Positive result confirmed by secondary column or GC/MS analysis.

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



Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 94.04222

Date: 09/28/1994
ELAP Cert: 1386
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Ref: SHELL 5251 Hopyard Rd., Pleasanton, 940913-L1

SAMPLE DESCRIPTION: S-3
Date Taken: 09/13/1994
Time Taken:
NET Sample No: 216229

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
TPH (Gas/BTEX, Liquid)							
METHOD 5030/M8015	--						09/25/1994
DILUTION FACTOR*	1						09/25/1994
as Gasoline	1,800		50	ug/L	5030		09/25/1994
Carbon Range:	C5-C12						09/25/1994
METHOD 8020 (GC, Liquid)	--						09/25/1994
Benzene	430	FE	0.5	ug/L	8020		09/26/1994
Toluene	6.7		0.5	ug/L	8020		09/25/1994
Ethylbenzene	15		0.5	ug/L	8020		09/25/1994
Xylenes (Total)	7.3		0.5	ug/L	8020		09/25/1994
SURROGATE RESULTS	--						09/25/1994
Bromofluorobenzene (SURR)	119			‡ Rec.	5030		09/25/1994

FE : Compound quantitated at a 50X 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
Client Acct: 1821
NET Job No: 94.04222

Date: 09/28/1994
ELAP Cert: 1386
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Ref: SHELL 5251 Hopyard Rd., Pleasanton, 940913-L1

SAMPLE DESCRIPTION: S-4
Date Taken: 09/13/1994
Time Taken:
NET Sample No: 216230

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
TPH (Gas/BTEXE, Liquid)							
METHOD 5030/M8015	--						09/25/1994
DILUTION FACTOR*	1						09/25/1994
as Gasoline	ND		50	ug/L	5030		09/25/1994
Carbon Range:	--						09/25/1994
METHOD 8020 (GC, Liquid)	--						09/25/1994
Benzene	ND		0.5	ug/L	8020		09/25/1994
Toluene	ND		0.5	ug/L	8020		09/25/1994
Ethylbenzene	ND		0.5	ug/L	8020		09/25/1994
Xylenes (Total)	ND		0.5	ug/L	8020		09/25/1994
SURROGATE RESULTS	--						09/25/1994
Bromofluorobenzene (SURR)	99			% Rec.	5030		09/25/1994

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



Client Name: Blaine Tech Services

Date: 09/28/1994

Client Acct: 1821

ELAP Cert: 1386

NET Job No: 94.04222

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Ref: SHELL 5251 Hopyard Rd., Pleasanton, 940913-L1

SAMPLE DESCRIPTION: S-5

Date Taken: 09/13/1994

Time Taken:

NET Sample No: 216231

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
TPH (Gas/BTXE,Liquid)							
METHOD 5030/M8015	--						09/25/1994
DILUTION FACTOR*	1						09/25/1994
as Gasoline	ND		50	ug/L	5030		09/25/1994
Carbon Range:	--						09/25/1994
METHOD 8020 (GC,Liquid)	--						09/25/1994
Benzene	ND		0.5	ug/L	8020		09/25/1994
Toluene	ND		0.5	ug/L	8020		09/25/1994
Ethylbenzene	ND		0.5	ug/L	8020		09/25/1994
Xylenes (Total)	ND		0.5	ug/L	8020		09/25/1994
SURROGATE RESULTS	--						09/25/1994
Bromofluorobenzene (SURR)	102			* Rec.	5030		09/25/1994

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



Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 94.04222

Date: 09/28/1994
ELAP Cert: 1386
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Ref: SHELL 5251 Hopyard Rd., Pleasanton, 940913-L1

SAMPLE DESCRIPTION: S-6
Date Taken: 09/13/1994
Time Taken:
NET Sample No: 216232

Parameter	Results	Flags	Reporting		Method	Date	Date
			Limit	Units		Extracted	Analyzed
TPH (Gas/BTEX, Liquid)							
METHOD 5030/M8015	--						09/25/1994
DILUTION FACTOR*	1						09/25/1994
as Gasoline	ND		50	ug/L	5030		09/25/1994
Carbon Range:	--						09/25/1994
METHOD 8020 (GC, Liquid)	--						09/25/1994
Benzene	ND		0.5	ug/L	8020		09/25/1994
Toluene	0.9	C	0.5	ug/L	8020		09/25/1994
Ethylbenzene	ND		0.5	ug/L	8020		09/25/1994
Xylenes (Total)	ND		0.5	ug/L	8020		09/25/1994
SURROGATE RESULTS	--						09/25/1994
Bromofluorobenzene (SURR)	101			µg Rec.	5030		09/25/1994

C : Positive result confirmed by secondary column or GC/MS analysis.

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



Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 94.04222

Date: 09/28/1994
ELAP Cert: 1386
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Ref: SHELL 5251 Hopyard Rd., Pleasanton, 940913-L1

SAMPLE DESCRIPTION: S-7

Date Taken: 09/13/1994

Time Taken:

NET Sample No: 216233

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
TPH (Gas/BTXE, Liquid)							
METHOD 5030/M8015	--						09/25/1994
DILUTION FACTOR*	1						09/25/1994
as Gasoline	ND		50	ug/L	5030		09/25/1994
Carbon Range:	--						09/25/1994
METHOD 8020 (GC, Liquid)	--						09/25/1994
Benzene	ND		0.5	ug/L	8020		09/25/1994
Toluene	ND		0.5	ug/L	8020		09/25/1994
Ethylbenzene	ND		0.5	ug/L	8020		09/25/1994
Xylenes (Total)	ND		0.5	ug/L	8020		09/25/1994
SURROGATE RESULTS	--						09/25/1994
Bromofluorobenzene (SURR)	96			% Rec.	5030		09/25/1994

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



Client Name: Blaine Tech Services

Date: 09/28/1994

Client Acct: 1821

ELAP Cert: 1386

NET Job No: 94.04222

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Ref: SHELL 5251 Hopyard Rd., Pleasanton, 940913-L1

SAMPLE DESCRIPTION: S-8

Date Taken: 09/13/1994

Time Taken:

NET Sample No: 216234

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
TPH (Gas/BTXE,Liquid)							
METHOD 5030/M8015	--						09/25/1994
DILUTION FACTOR*	1						09/25/1994
as Gasoline	ND		50	ug/L	5030		09/25/1994
Carbon Range:	--						09/25/1994
METHOD 8020 (GC,Liquid)	--						09/25/1994
Benzene	ND		0.5	ug/L	8020		09/25/1994
Toluene	ND		0.5	ug/L	8020		09/25/1994
Ethylbenzene	ND		0.5	ug/L	8020		09/25/1994
Xylenes (Total)	ND		0.5	ug/L	8020		09/25/1994
SURROGATE RESULTS	--						09/25/1994
Bromofluorobenzene (SURR)	101			µg Rec.	5030		09/25/1994

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



Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 94.04222

Date: 09/28/1994
ELAP Cert: 1386
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Ref: SHELL 5251 Hopyard Rd., Pleasanton, 940913-L1

SAMPLE DESCRIPTION: DUP

Date Taken: 09/13/1994

Time Taken:

NET Sample No: 216235

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
TPH (Gas/BIXE,Liquid)							
METHOD 5030/M8015	--						09/25/1994
DILUTION FACTOR*	1						09/25/1994
as Gasoline	1,400		50	ug/L	5030		09/25/1994
Carbon Range:	C5-C12						09/25/1994
METHOD 8020 (GC,Liquid)	--						09/25/1994
Benzene	240	FC	0.5	ug/L	8020		09/26/1994
Toluene	7.9		0.5	ug/L	8020		09/25/1994
Ethylbenzene	44		0.5	ug/L	8020		09/25/1994
Xylenes (Total)	6.3		0.5	ug/L	8020		09/25/1994
SURROGATE RESULTS	--						09/25/1994
Bromofluorobenzene (SURR)	113			% Rec.	5030		09/25/1994

FC : Compound quantitated at a 10X 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
Client Acct: 1821
NET Job No: 94.04222

Date: 09/28/1994
ELAP Cert: 1386
Page: 11

Ref: SHELL 5251 Hopyard Rd., Pleasanton, 940913-L1

SAMPLE DESCRIPTION: EB
Date Taken: 09/13/1994
Time Taken:
NET Sample No: 216236

Parameter	Results	Flags	Reporting		Method	Date	Date
			Limit	Units		Extracted	Analyzed
TPH (Gas/BTXE,Liquid)							
METHOD 5030/MB015	--						09/25/1994
DILUTION FACTOR*	1						09/25/1994
as Gasoline	ND		50	ug/L	5030		09/25/1994
Carbon Range:	--						09/25/1994
METHOD 8020 (GC,Liquid)	--						09/25/1994
Benzene	ND		0.5	ug/L	8020		09/25/1994
Toluene	ND		0.5	ug/L	8020		09/25/1994
Ethylbenzene	ND		0.5	ug/L	8020		09/25/1994
Xylenes (Total)	ND		0.5	ug/L	8020		09/25/1994
SURROGATE RESULTS	--						09/25/1994
Bromofluorobenzene (SURR)	96			% Rec.	5030		09/25/1994

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



Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 94.04222

Date: 09/28/1994
ELAP Cert: 1386
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Ref: SHELL 5251 Hopyard Rd., Pleasanton, 940913-L1

SAMPLE DESCRIPTION: TB

Date Taken: 09/13/1994
Time Taken:
NET Sample No: 216237

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
TPH (Gas/BTXE,Liquid)							
METHOD 5030/M8015	--						09/25/1994
DILUTION FACTOR*	1						09/25/1994
as Gasoline	ND		50	ug/L	5030		09/25/1994
Carbon Range:	--						09/25/1994
METHOD 8020 (GC,Liquid)	--						09/25/1994
Benzene	ND		0.5	ug/L	8020		09/25/1994
Toluene	ND		0.5	ug/L	8020		09/25/1994
Ethylbenzene	ND		0.5	ug/L	8020		09/25/1994
Xylenes (Total)	ND		0.5	ug/L	8020		09/25/1994
SURROGATE RESULTS	--						09/25/1994
Bromofluorobenzene (SURR)	100			% Rec.	5030		09/25/1994

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



Client Name: Elaine Tech Services
 Client Acct: 1821
 NET Job No: 94.04222

Date: 09/28/1994
 ELAP Cert: 1386
 Page: 13

Ref: SHELL 5251 Hopyard Rd., Pleasanton, 940913-L1

CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

Parameter	CCV	CCV	CCV	Units	Date Analyzed	Analyst Initials
	Standard % Recovery	Standard Amount Found	Standard Amount Expected			
TPH (Gas/BTXE,Liquid)						
as Gasoline	96.0	0.96	1.00	mg/L	09/25/1994	dfw
Benzene	87.8	4.39	5.00	ug/L	09/25/1994	dfw
Toluene	98.4	4.92	5.00	ug/L	09/25/1994	dfw
Ethylbenzene	91.0	4.55	5.00	ug/L	09/25/1994	dfw
Xylenes (Total)	92.7	13.90	15.0	ug/L	09/25/1994	dfw
Bromofluorobenzene (SURR)	93.0	93	100	% Rec.	09/25/1994	dfw
TPH (Gas/BTXE,Liquid)						
as Gasoline	104.0	1.04	1.00	mg/L	09/26/1994	lss
Benzene	90.0	4.50	5.00	ug/L	09/26/1994	lss
Toluene	104.2	5.21	5.00	ug/L	09/26/1994	lss
Ethylbenzene	98.4	4.92	5.00	ug/L	09/26/1994	lss
Xylenes (Total)	97.5	14.62	15.0	ug/L	09/26/1994	lss
Bromofluorobenzene (SURR)	98.0	98	100	% Rec.	09/26/1994	lss

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



Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 94.04222

Date: 09/28/1994
ELAP Cert: 1386
Page: 14

Ref: SHELL 5251 Hopyard Rd., Pleasanton, 940913-L1

METHOD BLANK REPORT

<u>Parameter</u>	<u>Method</u> <u>Blank</u> <u>Amount</u> <u>Found</u>	<u>Reporting</u> <u>Limit</u>	<u>Units</u>	<u>Date</u> <u>Analyzed</u>	<u>Analyst</u> <u>Initials</u>
TPH (Gas/BTXE,Liquid)					
as Gasoline	ND	0.05	mg/L	09/25/1994	dfw
Benzene	ND	0.5	ug/L	09/25/1994	dfw
Toluene	ND	0.5	ug/L	09/25/1994	dfw
Ethylbenzene	ND	0.5	ug/L	09/25/1994	dfw
Xylenes (Total)	ND	0.5	ug/L	09/25/1994	dfw
Bromofluorobenzene (SURR)	76		% Rec.	09/25/1994	dfw
TPH (Gas/BTXE,Liquid)					
as Gasoline	ND	0.05	mg/L	09/26/1994	lss
Benzene	ND	0.5	ug/L	09/26/1994	lss
Toluene	ND	0.5	ug/L	09/26/1994	lss
Ethylbenzene	ND	0.5	ug/L	09/26/1994	lss
Xylenes (Total)	ND	0.5	ug/L	09/26/1994	lss
Bromofluorobenzene (SURR)	103		% Rec.	09/26/1994	lss

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



Client Name: Blaine Tech Services

Date: 09/28/1994

Client Acct: 1821

ELAP Cert: 1386

NET Job No: 94.04222

Page: 15

Ref: SHELL 5251 Hopyard Rd., Pleasanton, 940913-L1

MATRIX SPIKE / MATRIX SPIKE DUPLICATE

Parameter	Matrix Spike			Spike Amount	Sample Conc.	Matrix Spike		Units	Date Analyzed	Analyst Initials
	Matrix Spike % Rec.	Spike Dup % Rec.	RPD			Matrix Spike Conc.	Spike Dup Conc.			
TPH (Gas/BTXE, Liquid)										
as Gasoline	99.0	101.0	1.9	1.00	ND	0.99	1.01	mg/L	09/25/1994	dfw
Benzene	107.7	109.2	1.4	33.6	ND	36.2	36.7	ug/L	09/25/1994	dfw
Toluene	106.9	106.9	0.0	102	ND	109	109	ug/L	09/25/1994	dfw
TPH (Gas/BTXE, Liquid)										
as Gasoline	116.0	113.0	2.6	1.00	ND	1.16	1.13	mg/L	09/26/1994	lss
Benzene	96.1	96.9	0.8	38.2	ND	36.7	37.0	ug/L	09/26/1994	lss
Toluene	100.0	100.0	0.0	111	ND	111	111	ug/L	09/26/1994	lss
TPH (Gas/BTXE, Liquid)										
as Gasoline	107.0	105.0	1.9	1.00	ND	1.07	1.05	mg/L	09/26/1994	lss
Benzene	91.1	93.5	2.6	38.2	ND	34.8	35.7	ug/L	09/26/1994	lss
Toluene	92.8	92.8	0.0	111	ND	103	103	ug/L	09/26/1994	lss

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



® 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, $100 \text{ [Value 1 - Value 2] / mean value}$.
- 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.

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

COOLER RECEIPT FORM

Project: Shell-Pleasanton CA 940913-L1 Log No: 2572
Cooler received on: 9/15/94 and checked on 9/15/94 by [Signature]
(signature)

- Were custody papers present?..... YES NO
 - Were custody papers properly filled out?..... YES NO
 - Were the custody papers signed?..... YES NO
 - Was sufficient ice used?..... YES NO 4.5°C
 - Did all bottles arrive in good condition (unbroken)?..... YES NO
 - Did bottle labels match COC?..... YES NO
 - Were proper bottles used for analysis indicated?..... YES NO
 - Correct preservatives used?..... YES NO
 - VOA vials checked for headspace bubbles?..... YES NO
- Note which voas (if any) had bubbles:*

Sample descriptor:

Number of vials:

N/A

N/A

*All VOAs with headspace bubbles have been set aside so they will not be used for analysis..... YES NO

List here all other jobs received in the same cooler:

Client Job #

NET log #

(coolerrec)

SHELL WELL MONITORING DATA SHEET

Project #: 940913-L1		Vic # 204 6138 0907	
Sampler: LAD		Date Sampled: 9/13/94	
Well I.D.: 5-1		Well Diameter: (circle one) 2 3 4 6	
Total Well Depth: Before 29.93 After		Depth to Water: Before 8.62 After	
Depth to Free Product:		Thickness of Free Product (feet):	
Measurements referenced to: PVC Grade Other --			

Volume Conversion Factor (VCF):
 $VCF = (L^2/n) \times \pi / 2.31$
 where
 L = length
 n = diameter (in.)
 π = 3.1416
 2.31 = constant

Well dia.	VCF
2"	0.26
3"	0.37
4"	0.49
5"	0.61
6"	0.74
8"	1.01
10"	1.31

<u>7.9</u>	\times	<u>3</u>	$=$	<u>23.7</u>	gallons
1 Case Volume		Specified Volumes			

Purging: Bailer Middleburg Electric Submersible Suction Pump Type of Installed Pump _____

Sampling: Bailer Middleburg Electric Submersible Suction Pump Installed Pump

TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
1213	65.6	7.6	2800.	173.	8.	STRONG ODOR
1215	65.6	7.6	2890.	110.	16.	
1217	65.6	7.7	3010.	110.	24.	

Did Well Dewater? **NO** If yes, gals. Gallons Actually Evacuated: **24.**

Sampling Time: **1223**

Sample I.D.: **5-1** Laboratory: **NET**

Analyzed for: **TPHG, BTEX**

Duplicate I.D.: **DUP** Cleaning Blank I.D.:

Analyzed for: **TPHG, BTEX**

Shipping Notations:

Additional Notations: **DO. 3.3 mg/l.**

SHELL WELL MONITORING DATA SHEET

Project #: 940913-L1	Wic # 2046138 0907
Sampler: LAD	Date Sampled: 9/13/94
Well I.D.: S-2	Well Diameter: (circle one) 2 (3) 4 6
Total Well Depth: Before 24.58 After	Depth to Water: Before 8.78 After
Depth to Free Product:	Thickness of Free Product (feet):
Measurements referenced to:	FVC <input type="checkbox"/> Grade <input checked="" type="checkbox"/> Other -- <input type="checkbox"/>

Volume Conversion Factor (VCF):
 $VCF = (d^2/4) \times \pi \times H$
 where
 H = ft./foot
 d = diameter (in.)
 $\pi = 3.1416$
 VCF = gal/gal

Well dia.	VCF
2"	0.34
3"	0.77
4"	1.07
6"	3.07
8"	4.08
10"	7.77

5.8	x	3	=	17.4
1 Case Volume		Specified Volumes		gallons

Purging: Bailer <input type="checkbox"/> Middleburg <input type="checkbox"/> Electric Submersible <input checked="" type="checkbox"/> Suction Pump <input type="checkbox"/> Type of Installed Pump _____	Sampling: Bailer <input checked="" type="checkbox"/> Middleburg <input type="checkbox"/> Electric Submersible <input type="checkbox"/> Suction Pump <input type="checkbox"/> Installed Pump <input type="checkbox"/>
--	--

TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
1036	66.2	7.2	5110.	>200	6.	
1038	63.2	7.3	4640.	>200.	17.	
1041	62.8	7.2	4590.	>200.	18.	
		DO =	5.1	MG/L		

Did Well Dewater? **NO** If yes, gals. Gallons Actually Evacuated: **18.**

Sampling Time: 1045
Sample I.D.: S-2 Laboratory: NET
Analyzed for: TPH6, BTEX
Duplicate I.D.: _____ Cleaning Blank I.D.: _____
Analyzed for: _____
Shipping Notations: _____
Additional Notations: DO. 5.1 mg/l. NEW 4" CAP & LOCK

SHELL WELL MONITORING DATA SHEET

Project #: 940913-L1		Wic # 204 6138 0907	
Sampler: LAD		Date Sampled: 9/13/94	
Well I.D.: 5-3		Well Diameter: (circle one) 2 3 4 6	
Total Well Depth: Before 24.81 After		Depth to Water: Before 9.52 After	
Depth to Free Product:		Thickness of Free Product (feet):	
Measurements referenced to:		PVC <input type="checkbox"/> Grade <input checked="" type="checkbox"/> Other --	

Volume Conversion Factor (VCF):
 $VCF = (d^2/A) \times \pi / 2.31$
 where:
 d = diameter (in.)
 A = diameter (sq.)
 $\pi = 3.1416$
 2.31 = ft/2.31

Well dia.	VCF
2"	0.16
3"	0.35
4"	0.58
6"	1.07
8"	1.57
10"	2.07
12"	2.57

5.7	x	3	=	17.1
1 Case Volume		Specified Volumes		gallons

Purging: Bailer Middleburg Electric Submersible Suction Pump Type of Installed Pump _____

Sampling: Bailer Middleburg Electric Submersible Suction Pump Installed Pump

TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
1144	66.0	7.5	2650.	80.	6.	ODOR
1146	66.6	7.4	2670.	85.	12.	
1150	65.8	7.5	2830	91.	18.	

Did Well Dewater? **NO** if yes, gals. Gallons Actually Evacuated: **18.**

Sampling Time: **1155**

Sample I.D.: **5-3** Laboratory: **NET**

Analyzed for: **TPHG, BTEX**

Duplicate I.D.: _____ Cleaning Blank I.D.: _____

Analyzed for: _____

Shipping Notations: _____

Additional Notations: **D.O. 3.6 mg/l, NEW LOCK**

SHELL WELL MONITORING DATA SHEET

Project #: 940913-L1	Wic # 204 6138 0907
Sampler: LAD	Date Sampled: 9/13/94
Well I.D.: 5-4	Well Diameter: (circle one) 2 3 4 6
Total Well Depth: Before 24.52 After	Depth to Water: Before 8.79 After
Depth to Free Product:	Thickness of Free Product (feet):
Measurements referenced to:	PVC <input type="checkbox"/> Grade <input checked="" type="checkbox"/> Other -- <input type="checkbox"/>

Volume Conversion Factor (VCF):
 $VCF = (d^2/4) \times \pi / 338$
 where
 $d = \text{inches}$
 $\pi = 3.1416$
 $VCF = \text{in}^3/\text{gal}$

Well dia.	VCF
2"	0.24
3"	0.37
4"	0.51
5"	0.77
6"	1.04
8"	1.37

5.8	x	3	=	17.4
1 Case Volume		Specified Volumes		gallons

Purging: Bailer <input type="checkbox"/> Middleburg <input type="checkbox"/> Electric Submersible <input checked="" type="checkbox"/> Suction Pump <input type="checkbox"/> Type of Installed Pump _____	Sampling: Bailer <input checked="" type="checkbox"/> Middleburg <input type="checkbox"/> Electric Submersible <input type="checkbox"/> Suction Pump <input type="checkbox"/> Installed Pump <input type="checkbox"/>
--	--

TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
1120	62.6	7.5	2160.	>200.	6.	
1122	63.8	7.5	2120.	198.	12.	
1126	64.2	7.5	1970.	128.	18.	

Did Well Dewater? **NO** If yes, gals. Gallons Actually Evacuated: **18.**

Sampling Time: **1130**

Sample I.D.: **5-4** Laboratory: **NET**

Analyzed for: **TPH6, BTEX**

Duplicate I.D.: Cleaning Blank I.D.:

Analyzed for:

Shipping Notations:

Additional Notations: **DO: 4.0 mg/l.**

SHELL WELL MONITORING DATA SHEET

Project #: 940913-L1		Wic # 204 6138 0907	
Sampler: LAD		Date Sampled: 9/13/94	
Well I.D.: S-5		Well Diameter: (circle one) 2 3 4 6	
Total Well Depth: Before 24.72 After		Depth to Water: Before 9.72 After	
Depth to Free Product:		Thickness of Free Product (feet):	
Measurements referenced to: PVC Grade Other --			

Volume Conversion Factor (VCF):
 $VCF = (d^2/4) \times \pi / 2.31$
 Where
 d = diameter (in.)
 $\pi = 3.1416$
 2.31 = in²/gal

Well dia.	VCF
2"	0.26
3"	0.35
4"	0.48
6"	1.07
8"	1.80
12"	4.08

<u>5.6</u>	x	<u>3</u>	=	<u>16.8</u>	gallons
1 Case Volume		Specified Volumes			

Purging: Bailer Middleburg Electric Submersible Suction Pump Type of Installed Pump _____

Sampling: Bailer Middleburg Electric Submersible Suction Pump Installed Pump

TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
1100	60.2	7.4	1968.	>200.	6.	
1102	59.4	7.4	1592.	>200.	12.	
1105	59.2	7.3	1556.	>200.	17.	

Did Well Dewater? **NO** If yes, gals. Gallons Actually Evacuated: **17.**

Sampling Time: **1110**

Sample I.D.: **S-5** Laboratory: **NET**

Analyzed for: **TPHG, BTEX**

Duplicate I.D.: _____ Cleaning Blank I.D.: _____

Analyzed for:

Shipping Notations:

Additional Notations: **D.O. 3.9 mg/l. , NEW 4" CAP + NEW LOCK**

SHELL WELL MONITORING DATA SHEET

Project #: 940913-L1		Wic # 204 6138 0907	
Sampler: LAD		Date Sampled: 9/13/94	
Well I.D.: S-6		Well Diameter: (circle one) 2 (3) 4 6	
Total Well Depth: Before 26.02 After		Depth to Water: Before 8.58 After	
Depth to Free Product:		Thickness of Free Product (feet):	
Measurements referenced to: PVC <input type="checkbox"/> Grade <input checked="" type="checkbox"/> Other -- <input type="checkbox"/>			

Volume Conversion Factor (VCF):
 $VCF = (d^2/4) \times \pi / 2.31$
 Where:
 d = diameter (in.)
 $\pi = 3.1416$
 2.31 = in/ft

Well dia.	VCF
2"	0.16
3"	0.32
4"	0.48
6"	1.07
8"	1.90
10"	2.47

6.5	x	3	=	19.5
1 Case Volume		Specified Volumes		gallons

Purging: Bailer Middleburg Electric Submersible Suction Pump Type of Installed Pump _____

Sampling: Bailer Middleburg Electric Submersible Suction Pump Installed Pump

TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
915	67.2	7.1	1212.	152.	7.	
917	67.0	6.8	1134.	>200.	13.	
921	66.2	6.9	1113.	>200.	20.	

Did Well Dewater? **NO** If yes, gals. Gallons Actually Evacuated: **20.**

Sampling Time: **925**

Sample I.D.: **S-6** Laboratory: **NET**

Analyzed for: **TPHG, BTEX**

Duplicate I.D.: _____ Cleaning Blank I.D.: _____

Analyzed for: _____

Shipping Notations: **NEW 4" CAP**

Additional Notations: **D.O. 4.0 mg/l.**

SHELL WELL MONITORING DATA SHEET

Project #: 940913-L1	Wic # 204 6138 0907
Sampler: LAD	Date Sampled: 9/13/94
Well I.D.: S-7	Well Diameter: (circle one) 2 ③ 4 6
Total Well Depth: Before 25.32 After	Depth to Water: Before 8.52 After
Depth to Free Product:	Thickness of Free Product (feet):
Measurements referenced to:	FVC <input type="checkbox"/> Grade <input checked="" type="checkbox"/> Other -- <input type="checkbox"/>

Volume Conversion Factor (VCF):
 $(2.31 \times (d^2/4) \times \pi) / 231$
 where
 $d = \text{in./foot}$
 $d = \text{diameter (in.)}$
 $\pi = 3.1416$
 $231 = \text{in}^3/\text{gal}$

Well dia.	VCF
2"	0.20
3"	0.27
4"	0.45
6"	1.02
8"	1.68
10"	2.54

6.2	x	3	=	18.6
1 Case Volume		Specified Volumes		gallons

Purging: Bailer <input type="checkbox"/> Middleburg <input type="checkbox"/> Electric Submersible <input checked="" type="checkbox"/> Suction Pump <input type="checkbox"/> Type of Installed Pump _____	Sampling: Bailer <input checked="" type="checkbox"/> Middleburg <input type="checkbox"/> Electric Submersible <input type="checkbox"/> Suction Pump <input type="checkbox"/> Installed Pump <input type="checkbox"/>
--	--

TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
940	67.6	7.4	1345.	>200.	7.	
942	67.0	7.3	1537.	>200.	13.	
947	66.4	7.4	1564.	>200.	19.	

Did Well Dewater? **NO** If yes, gals. Gallons Actually Evacuated: **19.**

Sampling Time: 950
Sample I.D.: S-7 Laboratory: NET
Analyzed for: TPH6, BTEX
Duplicate I.D.: Cleaning Blank I.D.: EB AT 930
Analyzed for: TPH6, BTEX AFTER S-6
Shipping Notations:
Additional Notations: D.O. 3.9 mg/l. , NEW 4" CAP, NEW LOCK

SHELL WELL MONITORING DATA SHEET

Project #: 940913-L1	Wic # 204 6138 0907
Sampler: LAD	Date Sampled: 9/13/94
Well I.D.: S-8	Well Diameter: (circle one) 2 3 4 6
Total Well Depth: Before 25.23 After	Depth to Water: Before 7.57 After
Depth to Free Product:	Thickness of Free Product (feet):
Measurements referenced to:	PVC Grade Other --

Volume Conversion Factor (VCF):
 $VCF = (d^2/4) \times \pi / 2.31$
 where
 $d = \text{in./ft.}$
 $d = \text{diameter (in.)}$
 $\pi = 3.1416$
 $2.31 = \text{in./ft.}$

Well dia.	VCF
2"	0.24
3"	0.37
4"	0.48
6"	1.07
8"	1.59
10"	2.44

6.5	x	3	=	19.5
1 Case Volume		Specified Volumes		gallons

Purging: Bailer Middleburg Electric Submersible Suction Pump Type of Installed Pump _____

Sampling: Bailer Middleburg Electric Submersible Suction Pump Installed Pump

TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
1005	64.0	7.0	5980.	>200	7.	
1007	63.8	6.9	7110.	>200.	13.	
1012	62.4	7.0	6980.	>200.	20.	

Did Well Dewater? **NO** If yes, gals. Gallons Actually Evacuated: **20.**

Sampling Time: **1015**

Sample I.D.: **S-8** Laboratory: **NET**

Analyzed for: **TPHG, BTEX**

Duplicate I.D.: _____ Cleaning Blank I.D.: _____

Analyzed for:

Shipping Notations:

Additional Notations: **D.O. 3.9 mg/l. , NEW 4" CAP**

WELL HEAD INSPECTION CHECKLIST AND REPAIR ORDER

Client SHELL Site # 20461380907

Inspection date: 9-13-94

Site address 5251 HOPYARD RD,
PLEASANTON, CA

Inspected by: LAD B OLVER

BTS Event # 940913-41

1. Lid on the box? Yes No	5. Water standing in the well box?	7. Can cap be pulled loose?
2. Lid whole?	5a. Standing above well top?	8. Can cap seal out water?
3. Lid secure?	5b. Standing below well top?	9. Padlock present?
4. Lid seal intact?	5c. Water even with top of well cap?	10. Padlock found locked?
	6. Well cap/plug present?	11. Padlock functional?

Check box if *no deficiencies* were found. Note below deficiencies you were able to correct.

Well I.D.	Deficiency	Corrective Action Taken
S-2	11 (NO)	NEW 4" CAP + NEW LOCK
S-5	CAP IS NOT A	" "
S-7	LOCKING TYPE	" "
S-3	11 (NO)	NEW LOCK
S-6	CAP IS NOT A	NEW 4" CAP
S-8	LOCKING TYPE	" "

Note below all deficiencies that could not be corrected and *still need to be corrected*.

Well I.D.	Persisting Deficiency	BTS Office assigns or defers Correction to:	Date assigned	Date corrected

Office review and assignments made by _____ date _____