

C A M B R I A

ENVIRONMENTAL  
PROTECTION  
99 SEP 17 PM 3:43

September 15, 1999

Scott Seery  
Alameda County Health Care Services Agency  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94502-6577

Re: **Second Quarter 1999 Monitoring Report**  
Shell-branded Service Station  
3790 Hopyard Road  
Pleasanton, California  
Incident #98995842  
Cambria Project #241-0497-002



Dear Mr. Seery:

On behalf of Equiva Services LLC, Cambria Environmental Technology, Inc. (Cambria) is submitting this ground water monitoring report in accordance with the reporting requirements of 23 CCR 2652d.

## SECOND QUARTER 1999 ACTIVITIES

**Ground Water Monitoring:** Blaine Tech Services, Inc. (Blaine) of San Jose, California gauged and sampled the site wells. Blaine calculated ground water elevations and compiled the analytical data. Cambria prepared a ground water elevation contour map (Figure 1). The Blaine report, presenting the laboratory report and including supporting field documents, is included as Attachment A.

## ANTICIPATED FUTURE ACTIVITIES

Oakland, CA  
Sonoma, CA  
Portland, OR  
Seattle, WA

**Cambria  
Environmental  
Technology, Inc.**

1144 65th Street  
Suite B  
Oakland, CA 94608  
Tel (510) 420-0700  
Fax (510) 420-9170

**Ground Water Monitoring:** The next sampling event is scheduled for the second quarter of 2000. At that time, Blaine will gauge and sample all wells and tabulate the data. Cambria will prepare a monitoring report.

**CLOSING**

We appreciate the opportunity to work with you on this project. Please call Darryk Ataide at (510) 420-3339 if you have any questions or comments.

Sincerely,  
**Cambria Environmental Technology, Inc**



Darryk Ataide, REA I  
Project Manager

Ailsa S. Le May, R.G.  
Senior Geologist



Figure: 1 - Ground Water Elevation Contour Map  
Attachment: A - Blaine Ground Water Monitoring Report and Field Notes

cc: Karen Petryna, Equiva Services LLC, P.O. Box 6249, Carson, California 90749-6249  
Chuck Headlee, RWQCB - SF Bay Region, 1515 Clay Street, Suite 1400, Oakland, California 94612  
Ted Klenk, Pleasanton Fire Department, 4444 Railroad Street, Pleasanton, California 94566

g:\ple3790\qm\2q99qm.doc

### EXPLANATION

- S-2 ◆ Monitoring well location
- SR-1 ○ Ground water recovery well location
- \* Data anomalous; well not contoured
- Ground water flow direction
- XX.XX Ground water elevation contour, in feet above mean sea level (msl), approximately located; dashed where inferred

Well	Well designation
ELEV	Ground water elevation (msl)
Benzene	Benzene and MTBE concentrations

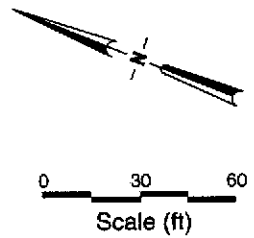
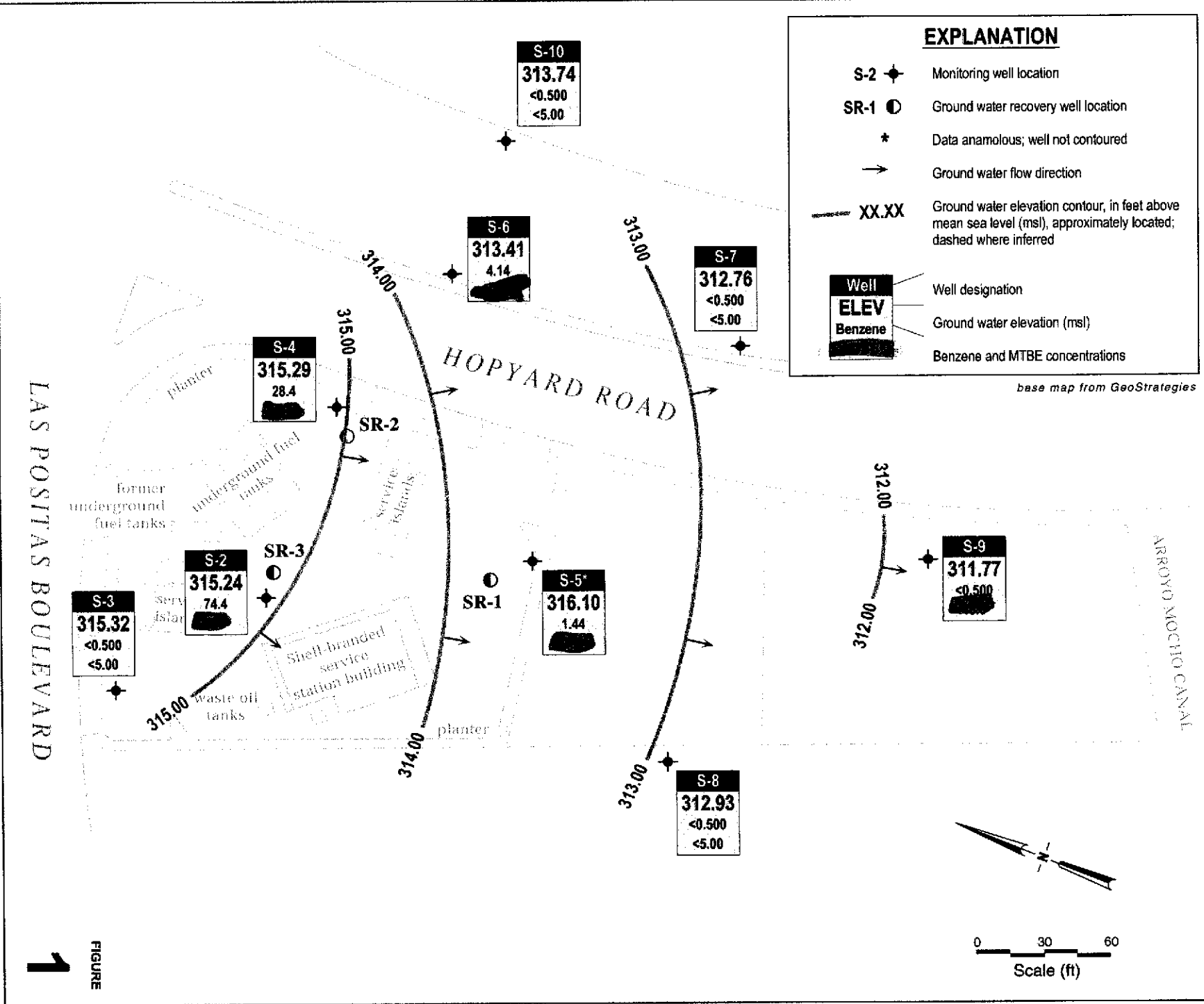


FIGURE 1

**Shell-branded Service Station**  
 3790 Hopyard Road  
 Pleasanton, California  
 Incident #98995842



C A M B R I A

**Ground Water Elevation Contours**  
 June 17, 1999

C A M B R I A



**ATTACHMENT A**

Blaine Ground Water Monitoring Report  
and Field Notes

**BLAINE**  
TECH SERVICES INC.



1680 ROGERS AVENUE  
SAN JOSE, CALIFORNIA 95112-1105  
(408) 573-7771 FAX  
(408) 573-0555 PHONE

July 29, 1999

Karen Petryna  
Equiva Services LLC  
P.O. Box 6249  
Carson, CA 90749-6249

Second Quarter 1999 Groundwater Monitoring at  
Shell-branded Service Station  
3790 Hopyard Road  
Pleasanton, CA

Monitoring performed on June 17, 1999

---

Groundwater Monitoring Report 990617-D-1

This report covers the routine monitoring of groundwater wells at this Shell-branded facility. In accordance with standard procedures that conform to Regional Water Quality Control Board requirements, routine field data collection includes depth to water, total well depth, thickness of any separate immiscible layer, water column volume, appropriate calculated purge volume (if applicable), elapsed evacuation time (if applicable), total volume of water removed (if applicable), and standard water parameter instrument readings. Sample material is collected, contained, stored, and transported to the laboratory in conformance with EPA standards. Purgewater (if applicable) is, likewise, collected and transported to the Martinez Refining Company.

Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL CONCENTRATIONS**. The full analytical report for the most recent samples and the field data sheets are attached to this report.

At a minimum, Blaine Tech Services, Inc. field personnel are certified on completion of a forty hour Hazardous Materials and Emergency Response training course per 29 CFR 1910.120. Field personnel are also enrolled in annual eight hour refresher courses.

Blaine Tech Services, Inc. conducts sampling and documentation assignments of this type 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. concentrates on objective data collection and does not participate in the interpretation of analytical results, the definition of geological or hydrological conditions, the formulation of recommendations, or the marketing of remedial systems.

Please call if you have any questions.

Yours truly,

A handwritten signature in black ink, appearing to read "Deidre Kerwin", with a long horizontal flourish extending to the right.

Deidre Kerwin  
Operations Manager

DK/ew

attachments: Cumulative Table of WELL CONCENTRATIONS  
Certified Analytical Report  
Field Data Sheets

cc: Anni Kreml  
Cambria Environmental Technology, Inc.  
1144 65<sup>th</sup> Street, Suite C  
Oakland, CA 94608-2411

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**3790 Hopyard Road**  
**Pleasanton, CA**  
**Wic #204-6138-0501**

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOB (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
---------	------	----------------	----------------	-------------	-------------	-------------	-------------	------------------------	------------------------	--------------	----------------------------	--------------------------	------------------------

S-2	03/20/1991	110	NA	30	2.2	10	7	NA	NA	329.21	NA	NA	NA
S-2	06/26/1991	50a	NA	6.3	<0.5	3.3	1.3	NA	NA	329.21	NA	NA	NA
S-2	09/05/1991	90	NA	12	3.2	2.5	2.3	NA	NA	329.21	NA	NA	NA
S-2	12/13/1991	<50	NA	12	<0.5	<0.5	<0.5	NA	NA	329.21	15.85	313.36	NA
S-2	03/11/1992	<30	NA	<0.3	<0.3	<0.3	<0.3	NA	NA	329.21	14.94	314.27	NA
S-2	06/24/1992	<50	NA	0.9	<0.5	<0.5	<0.5	NA	NA	329.21	15.78	313.43	NA
S-2	09/17/1992	78	NA	2.6	1.3	1.3	0.9	NA	NA	329.21	15.03	314.18	NA
S-2	12/11/1992	<50	NA	0.8	<0.5	<0.5	<0.5	NA	NA	329.21	14.81	314.40	NA
S-2	02/04/1993	55	NA	1.3	0.7	0.7	<0.5	NA	NA	329.21	NA	NA	NA
S-2	06/03/1993	<50	NA	0.7	<0.5	<0.5	<0.5	NA	NA	329.21	NA	NA	NA
S-2	09/15/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	329.21	14.63	314.58	NA
S-2	12/09/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	329.21	14.70	314.51	NA
S-2	06/16/1994	<50	NA	0.8	<0.5	0.7	<0.5	NA	NA	329.21	14.94	314.27	NA
S-2	09/13/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	329.21	15.17	314.04	NA
S-2	06/21/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	329.21	14.25	314.96	NA
S-2	06/12/1996	<50	NA	6.1	<0.5	<0.5	<0.5	48	NA	329.21	14.31	314.90	NA
S-2	06/25/1997	120	NA	25	0.59	2.4	8.7	130	NA	329.21	14.40	314.81	4.4
S-2	06/19/1998	450	NA	96	<2.5	4	19	180	NA	329.21	13.72	315.49	2.8
S-2	06/17/1999	312	NA	74.4	2.6	1.02	<100	107	NA	329.21	13.97	315.24	3.7

S-3	03/20/1991	70	NA	2.3	8.9	4	23	NA	NA	327.67	NA	NA	NA
S-3	06/26/1991	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	327.67	NA	NA	NA
S-3	09/05/1991	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	327.67	NA	NA	NA
S-3	12/13/1991	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	327.67	13.87	313.80	NA
S-3	03/11/1992	<30	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	327.67	13.05	314.62	NA
S-3	06/24/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	327.67	13.86	313.81	NA
S-3	09/17/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	327.67	13.01	314.66	NA

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**3790 Hopyard Road**  
**Pleasanton, CA**  
**Wic #204-6138-0501**

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOB (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
---------	------	----------------	----------------	-------------	-------------	-------------	-------------	------------------------	------------------------	--------------	----------------------------	--------------------------	------------------------

S-3	12/11/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	327.67	13.00	314.67	NA
S-3	02/04/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	327.67	NA	NA	NA
S-3	06/03/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	327.67	NA	NA	NA
S-3	09/15/1993	NA	NA	NA	NA	NA	NA	NA	NA	327.67	13.02	314.65	NA
S-3	12/09/1993	NA	NA	NA	NA	NA	NA	NA	NA	327.67	NA	NA	NA
S-3	09/13/1994	NA	NA	NA	NA	NA	NA	NA	NA	327.67	15.17	312.50	NA
S-3	06/21/1995	50	NA	4.1	<0.5	20	1.2	NA	NA	327.67	12.49	315.18	NA
S-3	06/12/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	<2.5	NA	327.67	12.53	315.14	NA
S-3	06/25/1997	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	327.67	12.64	315.03	1.8
S-3	06/19/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	327.67	11.74	315.93	4.1
S-3	06/17/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	NA	327.67	12.35	315.32	2.8

S-4	03/20/1991	1,200	NA	100	<2.0	210	130	NA	NA	328.53	NA	NA	NA
S-4	06/26/1991	220	NA	14	<0.5	34	17	NA	NA	328.53	NA	NA	NA
S-4	09/05/1991	580	NA	31	0.8	53	26	NA	NA	328.53	NA	NA	NA
S-4	12/13/1991	370	NA	24	0.9	1.3	46	NA	NA	328.53	15.20	313.33	NA
S-4	03/11/1992	1,600	NA	23	1.2	12	20	NA	NA	328.53	14.37	314.16	NA
S-4	06/24/1992	480	NA	48	<1.0	95	22	NA	NA	328.53	15.30	313.23	NA
S-4	09/17/1992	260	NA	35	1.2	51	7.8	NA	NA	328.53	14.17	314.36	NA
S-4	12/11/1992	270	NA	34	0.8	28	4.5	NA	NA	328.53	14.18	314.35	NA
S-4	02/04/1993	1,100	NA	12	<5.0	89	100	NA	NA	328.53	NA	NA	NA
S-4	06/03/1993	210	NA	48	1.1	42	4	NA	NA	328.53	NA	NA	NA
S-4	09/15/1993	700	NA	21	<1.0	110	91	NA	NA	328.53	13.86	314.67	NA
S-4	12/09/1993	250	NA	39	<0.5	3.8	2.6	NA	NA	328.53	14.16	314.37	NA
S-4	03/04/1994	150	NA	25	1.4	6.8	2.8	NA	NA	328.53	14.17	314.36	NA
S-4 (D)	03/04/1994	140	NA	28	0.8	7.9	3.2	NA	NA	328.53	14.17	314.36	NA
S-4	06/16/1994	90	NA	12	<0.5	1.8	2.4	NA	NA	328.53	14.14	314.39	NA
S-4 (D)	06/16/1994	80	NA	5.9	<0.5	1.5	0.9	NA	NA	328.53	14.14	314.39	NA



**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**3790 Hopyard Road**  
**Pleasanton, CA**  
**Wic #204-6138-0501**

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOB (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
---------	------	----------------	----------------	-------------	-------------	-------------	-------------	------------------------	------------------------	--------------	----------------------------	--------------------------	------------------------

S-4	09/13/1994	<50	NA	23	<0.5	4.9	2.4	NA	NA	328.53	14.42	314.11	NA
S-4 (D)	09/13/1994	<50	NA	23	<0.5	4	2.3	NA	NA	328.53	14.42	314.11	NA
S-4	06/21/1995	270	NA	34	1.4	25	7.6	NA	NA	328.53	13.82	314.71	NA
S-4 (D)	06/21/1995	280	NA	35	2.1	26	8.4	NA	NA	328.53	13.82	314.71	NA
S-4	06/12/1996	360	NA	52	<0.5	<0.5	<0.5	92	NA	328.53	13.64	314.89	NA
S-4 (D)	06/12/1996	430	NA	54	<1.2	72	21	96	NA	328.53	13.64	314.89	NA
S-4	06/25/1997	6,700	NA	93	1,200	240	1,300	6,900	6,800	328.53	13.74	314.79	0.6
S-4	06/19/1998	3,500	NA	56	15	140	670	2,100	NA	328.53	12.55	315.98	0.8
S-4 (D)	06/19/1998	3,000	NA	51	14	110	530	2,000	NA	328.53	12.55	315.98	0.8
S-4	06/17/1999	1,510	NA	28	9.84	176	32	1780	NA	328.53	13.24	315.29	4.8

S-5	03/20/1991	310	NA	39	12	18	30	NA	NA	329.66	NA	NA	NA
S-5	06/26/1991	1,300	NA	250	62	120	180	NA	NA	329.66	NA	NA	NA
S-5	09/05/1991	4,700	NA	660	150	170	280	NA	NA	329.66	NA	NA	NA
S-5	12/13/1991	1,400	NA	580	19	110	80	NA	NA	329.66	17.48	312.18	NA
S-5	03/11/1992	<30	NA	<0.3	<0.3	<0.3	<0.3	NA	NA	329.66	16.22	313.44	NA
S-5	06/24/1992	1,800	NA	380	52	120	180	NA	NA	329.66	17.47	312.19	NA
S-5	09/17/1992	2,200	NA	750	91	170	170	NA	NA	329.66	16.84	312.82	NA
S-5	12/11/1992	8,700	NA	1,600	66	48	340	NA	NA	329.66	16.37	313.29	NA
S-5	02/04/1993	150	NA	156	0.7	4.7	4	NA	NA	329.66	NA	NA	NA
S-5	06/03/1993	480	NA	140	3.4	17	14	NA	NA	329.66	NA	NA	NA
S-5	09/15/1993	80	NA	2.4	0.5	1.4	2.9	NA	NA	329.66	16.20	313.46	NA
S-5	12/09/1993	120	NA	0.56	<0.5	2.2	1.2	NA	NA	329.66	16.26	313.40	NA
S-5	03/04/1994	70	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	329.66	16.25	313.41	NA
S-5	06/16/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	329.66	16.04	313.62	NA
S-5	09/13/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	329.66	11.52	318.14	NA
S-5	06/21/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	329.66	14.50	315.16	NA
S-5	06/12/1996	<500	NA	6	<5.0	<5.0	<5.0	1,400	NA	329.66	12.53	317.13	NA

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**3790 Hopyard Road**  
**Pleasanton, CA**  
**Wic #204-6138-0501**

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOB (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
S-5	06/25/1997	<250	NA	<2.5	<2.5	<2.5	<2.5	1,100	NA	329.66	15.34	314.32	1.1
S-5	06/19/1998	<50	NA	1	<0.50	<0.50	<0.50	61	NA	329.66	13.71	315.95	3.6
S-5	06/17/1999	<50.0	NA	1.4	<0.500	<0.500	<0.500	336	NA	329.66	13.56	316.10	1.4
S-6	03/20/1991	130a	NA	606	0.6	0.7	3	NA	NA	327.62	NA	NA	NA
S-6	06/26/1991	120a	NA	3.8	0.8	<0.5	1.7	NA	NA	327.62	NA	NA	NA
S-6	09/05/1991	60	NA	<0.5	0.8	<0.5	0.5	NA	NA	327.62	NA	NA	NA
S-6	12/13/1991	150	NA	2.3	<0.5	<0.5	150	NA	NA	327.62	15.11	312.51	NA
S-6	03/11/1992	<30	NA	<0.3	<0.3	<0.5	<0.3	NA	NA	327.62	16.35	311.27	NA
S-6	06/24/1992	170	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	327.62	16.51	311.11	NA
S-6	09/17/1992	190	NA	<0.5	1.6	<0.5	1.2	NA	NA	327.62	14.33	313.29	NA
S-6	12/11/1992	180	NA	<0.5	0.8	<0.5	0.7	NA	NA	327.62	14.48	313.14	NA
S-6	02/04/1993	290	NA	<0.5	<0.5	<0.5	0.7	NA	NA	327.62	NA	NA	NA
S-6	06/03/1993	100	NA	1.2	<0.5	<0.5	<0.5	NA	NA	327.62	NA	NA	NA
S-6	09/15/1993	160	NA	1.4	<0.5	0.9	2	NA	NA	327.62	14.16	313.46	NA
S-6	12/09/1993	130	NA	2.3	2.6	5.1	6.2	NA	NA	327.62	14.68	312.94	NA
S-6	03/04/1994	220	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	327.62	14.42	313.20	NA
S-6	06/16/1994	60	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	327.62	14.92	312.70	NA
S-6	09/13/1994	<50	NA	<0.5	6	<0.5	<0.5	NA	NA	327.62	14.72	312.90	NA
S-6	06/21/1995	270	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	327.62	13.86	313.76	NA
S-6	06/12/1996	200	NA	2	<0.5	<0.5	<0.5	12	NA	327.62	13.90	313.72	NA
S-6	06/25/1997	180	NA	<0.50	0.61	<0.50	0.77	28	NA	327.62	13.64	313.98	1.8
S-6 (D)	06/25/1997	130	NA	<0.50	<0.50	<0.50	<0.50	21	NA	327.62	13.64	313.98	1.8
S-6	06/19/1998	100	NA	7.6	<0.50	<0.50	<0.50	27	NA	327.62	13.81	313.81	1.7
S-6	06/17/1999	114	NA	4.14	<0.500	<0.500	<0.500	9.9	NA	327.62	14.21	313.41	1.6
S-7	03/20/1991	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	328.67	NA	NA	NA
S-7	06/26/1991	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	328.67	NA	NA	NA

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**3790 Hopyard Road**  
**Pleasanton, CA**  
**Wic #204-6138-0501**

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOB (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
---------	------	----------------	----------------	-------------	-------------	-------------	-------------	------------------------	------------------------	--------------	----------------------------	--------------------------	------------------------

S-7	09/05/1991	<50	NA	<0.5	0.6	<0.5	<0.5	NA	NA	328.67	NA	NA	NA
S-7	12/13/1991	<50	NA	<0.6	<0.5	<0.5	<0.5	NA	NA	328.67	17.70	310.97	NA
S-7	03/11/1992	<50	NA	<0.3	<0.3	<0.3	<0.3	NA	NA	328.67	17.06	311.61	NA
S-7	06/24/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	328.67	17.80	310.87	NA
S-7	09/17/1992	<50	NA	0.6	0.6	<0.5	<0.5	NA	NA	328.67	17.00	311.67	NA
S-7	12/11/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	328.67	17.35	311.32	NA
S-7	02/04/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	328.67	NA	NA	NA
S-7	06/03/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	328.67	NA	NA	NA
S-7	09/15/1993	NA	NA	NA	NA	NA	NA	NA	NA	328.67	16.65	312.02	NA
S-7	12/09/1993	NA	NA	NA	NA	NA	NA	NA	NA	328.67	NA	NA	NA
S-7	09/13/1994	NA	NA	NA	NA	NA	NA	NA	NA	328.67	16.83	311.84	NA
S-7	06/21/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	328.67	15.88	312.79	NA
S-7	06/12/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	<2.5	NA	328.67	16.22	312.45	NA
S-7	06/25/1997	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	328.67	16.12	312.55	3
S-7	06/19/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	328.67	14.81	313.86	2.6
S-7	06/17/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	NA	328.67	15.91	312.76	5.1

S-8	03/20/1991	<50a	NA	0.8	1.8	2.6	5.2	NA	NA	327.00	NA	NA	NA
S-8	06/26/1991	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	327.00	NA	NA	NA
S-8	09/05/1991	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	327.00	NA	NA	NA
S-8	12/13/1991	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	327.00	15.73	311.27	NA
S-8	03/11/1992	<30	NA	<0.3	<0.3	<0.3	<0.3	NA	NA	327.00	14.64	312.36	NA
S-8	06/24/1992	<50	NA	1.4	1.9	<0.5	<0.5	NA	NA	327.00	15.77	311.23	NA
S-8	09/17/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	327.00	15.37	311.63	NA
S-8	12/11/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	327.00	14.94	312.06	NA
S-8	02/04/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	327.00	NA	NA	NA
S-8	06/03/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	327.00	NA	NA	NA
S-8	09/15/1993	NA	NA	NA	NA	NA	NA	NA	NA	327.00	14.91	312.09	NA

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**3790 Hopyard Road**  
**Pleasanton, CA**  
**Wic #204-6138-0501**

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOB (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
---------	------	----------------	----------------	-------------	-------------	-------------	-------------	------------------------	------------------------	--------------	----------------------------	--------------------------	------------------------

S-8	12/09/1993	NA	NA	NA	NA	NA	NA	NA	NA	327.00	NA	NA	NA
S-8	09/13/1994	NA	NA	NA	NA	NA	NA	NA	NA	327.00	15.16	313.08	NA
S-8	06/21/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	327.00	14.11	312.89	NA
S-8	06/12/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	<2.5	NA	327.00	14.20	312.80	NA
S-8	06/25/1997	170	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	327.00	14.42	312.58	0.5
S-8	06/19/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	327.00	13.49	313.51	2.2
S-8	06/17/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	NA	327.00	14.07	312.93	0.9

S-9	03/20/1991	70a	NA	0.7	0.7	<0.5	1	NA	NA	328.24	NA	NA	NA
S-9	06/26/1991	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	328.24	NA	NA	NA
S-9	09/05/1991	<50	NA	<0.5	0.8	<0.5	<0.5	NA	NA	328.24	NA	NA	NA
S-9	12/13/1991	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	328.24	18.18	310.06	NA
S-9	03/11/1992	<30	NA	<0.3	<0.3	<0.3	<0.3	NA	NA	328.24	17.37	310.87	NA
S-9	06/24/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	328.24	18.45	309.79	NA
S-9	09/17/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	328.24	17.88	310.36	NA
S-9	12/11/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	328.24	17.34	310.90	NA
S-9	02/04/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	328.24	NA	NA	NA
S-9	06/03/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	328.24	NA	NA	NA
S-9	09/15/1993	NA	NA	NA	NA	NA	NA	NA	NA	328.24	17.42	310.82	NA
S-9	12/09/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	328.24	16.89	311.35	NA
S-9	03/04/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	328.24	17.22	311.02	NA
S-9	06/16/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	328.24	17.46	310.78	NA
S-9	09/13/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	328.24	17.59	310.65	NA
S-9	06/21/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	328.24	17.03	311.21	NA
S-9	06/12/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	<2.5	NA	328.24	16.76	311.48	NA
S-9	06/25/1997	<50	NA	<0.50	<0.50	<0.50	<0.50	2.8	NA	328.24	16.89	311.35	1
S-9	06/19/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	7.1	NA	328.24	15.59	312.65	3.8
S-9	06/17/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	NA	328.24	16.47	311.77	1.9

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**3790 Hopyard Road**  
**Pleasanton, CA**  
**Wic #204-6138-0501**

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOB (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
---------	------	----------------	----------------	-------------	-------------	-------------	-------------	------------------------	------------------------	--------------	----------------------------	--------------------------	------------------------

S-10	03/20/1991	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	326.55	NA	NA	NA
S-10	06/26/1991	50	NA	1.8	5.8	1.9	13	NA	NA	326.55	NA	NA	NA
S-10	09/05/1991	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	326.55	NA	NA	NA
S-10	12/13/1991	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	326.55	14.77	311.78	NA
S-10	03/11/1992	<30	NA	<0.3	<0.3	<0.3	<0.3	NA	NA	326.55	14.16	312.39	NA
S-10	06/24/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	326.55	14.83	311.72	NA
S-10	09/17/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	326.55	13.85	312.70	NA
S-10	12/11/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	326.55	13.90	312.65	NA
S-10	02/04/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	326.55	NA	NA	NA
S-10	06/03/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	326.55	NA	NA	NA
S-10	09/15/1993	NA	NA	NA	NA	NA	NA	NA	NA	326.55	13.66	312.89	NA
S-10	12/09/1993	NA	NA	NA	NA	NA	NA	NA	NA	326.55	NA	NA	NA
S-10	09/13/1994	NA	NA	NA	NA	NA	NA	NA	NA	326.55	13.84	312.71	NA
S-10	06/21/1995	NA	NA	NA	NA	NA	NA	NA	NA	326.55	13.08	313.47	NA
S-10	06/12/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	<2.5	NA	326.55	13.34	313.21	NA
S-10	06/25/1997	<50	NA	<0.50	<0.50	<0.50	<0.50	2.5	NA	326.55	13.28	313.27	2.4
S-10	06/19/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	326.55	12.41	314.14	1.8
S-10	06/17/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	5.00	NA	326.55	12.81	313.74	2.0

SR-1	03/04/1994	NA	NA	NA	NA	NA	NA	NA	NA	329.78	16.34	313.44	NA
SR-1	06/16/1994	NA	NA	NA	NA	NA	NA	NA	NA	329.78	16.72	313.06	NA

SR-2	03/04/1994	NA	NA	NA	NA	NA	NA	NA	NA	328.35	14.39	313.96	NA
SR-2	06/16/1994	NA	NA	NA	NA	NA	NA	NA	NA	328.35	14.48	313.87	NA

SR-3	03/04/1994	NA	NA	NA	NA	NA	NA	NA	NA	329.11	14.66	314.45	NA
SR-3	06/16/1994	NA	NA	NA	NA	NA	NA	NA	NA	329.11	14.96	314.15	NA

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**3790 Hopyard Road**  
**Pleasanton, CA**  
**Wic #204-6138-0501**

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOB (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
---------	------	----------------	----------------	-------------	-------------	-------------	-------------	------------------------	------------------------	--------------	----------------------------	--------------------------	------------------------

Abbreviations:

TPPH= Total petroleum hydrocarbons as gasoline by modified EPA Method 8015

TEPH = Total petroleum hydrocarbons as diesel by modified EPA Method 8015

BTEX = benzene, toluene, ethylbenzene, xylenes by EPA Method 8020

MTBE = methyl-tertiary-butyl ether

TOB = Top of Wellbox Elevation

SPH = Separate-Phase Hydrocarbons

GW = Groundwater

DO = Dissolved Oxygen

ug/L = parts per billion

msl = Mean sea level

ft = Feet

<n = Below detection limit

D = Duplicate sample

Notes:

a = Compounds detected within the chromatographic range of gasoline but not characteristic of the standard gasoline pattern



# Sequoia Analytical

1551 Industrial Road  
San Carlos, CA 94070-4111  
(650) 232-9600  
FAX (650) 232-9612

July 8, 1999

Ann Pember  
Blaine Tech Services  
1680 Rogers Avenue  
San Jose, CA 95112

RE: Shell(2)/L906287

Dear Ann Pember:

Enclosed are the results of analyses for sample(s) received by the laboratory on June 18, 1999. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tim Costello  
Lab Director

CA ELAP Certificate Number I-2360





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Project: Shell(2) Project Number: 3790 Hopyard Road, Pleasanton Project Manager: Ann Pember	Sampled: 6/17/99 Received: 6/18/99 Reported: 7/8/99
------------------------------------------------------------------	---------------------------------------------------------------------------------------------------	-----------------------------------------------------------

**ANALYTICAL REPORT FOR L906287**

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
S-2	L906287-01	Water	6/17/99
S-3	L906287-02	Water	6/17/99
S-4	L906287-03	Water	6/17/99
S-5	L906287-04	Water	6/17/99
S-6	L906287-05	Water	6/17/99
S-7	L906287-06	Water	6/17/99
S-8	L906287-07	Water	6/17/99
S-9	L906287-08	Water	6/17/99
S-10	L906287-09	Water	6/17/99







Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Project: Shell(2) Project Number: 3790 Hopyard Road, Pleasanton Project Manager: Ann Pember	Sampled: 6/17/99 Received: 6/18/99 Reported: 7/8/99
------------------------------------------------------------------	---------------------------------------------------------------------------------------------------	-----------------------------------------------------------

**Sample Description:** S-2  
**Laboratory Sample Number:** L906287-01

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
---------	--------------	---------------	---------------	--------------------------------------	-----------------	--------	-------	--------

**Sequoia Analytical - San Carlos**

**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT**

Purgeable Hydrocarbons as Gasoline	9060150	6/27/99	6/27/99		100	312	ug/l	1
Benzene	"	"	"		1.00	74.4	"	
Toluene	"	"	"		1.00	2.04	"	
Ethylbenzene	"	"	"		1.00	1.02	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Methyl tert-butyl ether	"	"	"		10.0	147	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	70.0-130		86.2	%	





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Project: Shell(2) Project Number: 3790 Hopyard Road, Pleasanton Project Manager: Ann Pember	Sampled: 6/17/99 Received: 6/18/99 Reported: 7/8/99
------------------------------------------------------------------	---------------------------------------------------------------------------------------------------	-----------------------------------------------------------

**Sample Description:** S-3  
**Laboratory Sample Number:** L906287-02

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
---------	--------------	---------------	---------------	--------------------------------------	-----------------	--------	-------	--------

Sequoia Analytical - San Carlos

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT

Purgeable Hydrocarbons as Gasoline	9060140	6/25/99	6/25/99		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		5.00	ND	"	
Surrogate: <i>a,a,a-Trifluorotoluene</i>	"	"	"	70.0-130		99.6	%	





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Project: Shell(2) Project Number: 3790 Hopyard Road, Pleasanton Project Manager: Ann Pember	Sampled: 6/17/99 Received: 6/18/99 Reported: 7/8/99
------------------------------------------------------------------	---------------------------------------------------------------------------------------------------	-----------------------------------------------------------

**Sample Description:** S-4  
**Laboratory Sample Number:** L906287-03

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
---------	--------------	---------------	---------------	--------------------------------------	-----------------	--------	-------	--------

Sequoia Analytical - San Carlos

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT

Purgeable Hydrocarbons as Gasoline	9060142	6/25/99	6/25/99		500	1510	ug/l	1
Benzene	"	"	"		5.00	28.4	"	
Toluene	"	"	"		5.00	9.84	"	
Ethylbenzene	"	"	"		5.00	176	"	
Xylenes (total)	"	"	"		5.00	132	"	
Methyl tert-butyl ether	"	"	"		50.0	1780	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	"	"	"	70.0-130		91.4	%	





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Project: Shell(2) Project Number: 3790 Hopyard Road, Pleasanton Project Manager: Ann Pember	Sampled: 6/17/99 Received: 6/18/99 Reported: 7/8/99
------------------------------------------------------------------	---------------------------------------------------------------------------------------------------	-----------------------------------------------------------

**Sample Description:** S-5  
**Laboratory Sample Number:** L906287-04

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
---------	--------------	---------------	---------------	--------------------------------------	-----------------	--------	-------	--------

Sequoia Analytical - San Carlos

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT

Purgeable Hydrocarbons as Gasoline	9060150	6/27/99	6/27/99		50.0	ND	ug/l	
<b>Benzene</b>	"	"	"		0.500	<b>1.44</b>	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
<b>Methyl tert-butyl ether</b>	"	"	"		5.00	<b>336</b>	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	"	"	"	70.0-130		81.6	%	





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Project: Shell(2) Project Number: 3790 Hopyard Road, Pleasanton Project Manager: Ann Pember	Sampled: 6/17/99 Received: 6/18/99 Reported: 7/8/99
------------------------------------------------------------------	---------------------------------------------------------------------------------------------------	-----------------------------------------------------------

**Sample Description:** S-6  
**Laboratory Sample Number:** L906287-05

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
---------	--------------	---------------	---------------	--------------------------------------	-----------------	--------	-------	--------

**Sequoia Analytical - San Carlos**

**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT**

Purgeable Hydrocarbons as Gasoline	9060150	6/27/99	6/27/99		50.0	114	ug/l	1
Benzene	"	"	"		0.500	4.14	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		5.00	19.9	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	70.0-130		94.0	%	





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Project: Shell(2) Project Number: 3790 Hopyard Road, Pleasanton Project Manager: Ann Pember	Sampled: 6/17/99 Received: 6/18/99 Reported: 7/8/99
------------------------------------------------------------------	---------------------------------------------------------------------------------------------------	-----------------------------------------------------------

**Sample Description:** S-7  
**Laboratory Sample Number:** L906287-06

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
---------	--------------	---------------	---------------	--------------------------------------	-----------------	--------	-------	--------

Sequoia Analytical - San Carlos

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT

Purgeable Hydrocarbons as Gasoline	9060151	6/27/99	6/27/99		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		5.00	ND	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	"	"	"	70.0-130		83.2	%	





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Project: Shell(2) Project Number: 3790 Hopyard Road, Pleasanton Project Manager: Ann Pember	Sampled: 6/17/99 Received: 6/18/99 Reported: 7/8/99
------------------------------------------------------------------	---------------------------------------------------------------------------------------------------	-----------------------------------------------------------

**Sample Description:** S-8  
**Laboratory Sample Number:** L906287-07

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
---------	--------------	---------------	---------------	--------------------------------------	-----------------	--------	-------	--------

Sequoia Analytical - San Carlos

**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT**

Purgeable Hydrocarbons as Gasoline	9060154	6/28/99	6/29/99		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		5.00	ND	"	
Surrogate: <i>a,a,a-Trifluorotoluene</i>	"	"	"	70.0-130		101	%	





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Project: Shell(2) Project Number: 3790 Hopyard Road, Pleasanton Project Manager: Ann Pember	Sampled: 6/17/99 Received: 6/18/99 Reported: 7/8/99
------------------------------------------------------------------	---------------------------------------------------------------------------------------------------	-----------------------------------------------------------

**Sample Description:** S-9  
**Laboratory Sample Number:** L906287-08

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
---------	--------------	---------------	---------------	--------------------------------------	-----------------	--------	-------	--------

**Sequoia Analytical - San Carlos**

**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT**

Purgeable Hydrocarbons as Gasoline	9060149	6/27/99	6/27/99		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
<b>Methyl tert-butyl ether</b>	"	"	"		5.00	<b>15.3</b>	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	"	"	"	70.0-130		91.5	%	







Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Project: Shell(2) Project Number: 3790 Hopyard Road, Pleasanton Project Manager: Ann Pember	Sampled: 6/17/99 Received: 6/18/99 Reported: 7/8/99
------------------------------------------------------------------	---------------------------------------------------------------------------------------------------	-----------------------------------------------------------

**Sample Description:** S-10  
**Laboratory Sample Number:** L906287-09

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
---------	--------------	---------------	---------------	--------------------------------------	-----------------	--------	-------	--------

Sequoia Analytical - San Carlos

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT

Purgeable Hydrocarbons as Gasoline	9060149	6/27/99	6/27/99		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		5.00	ND	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	"	"	"	70.0-130		93.8	%	





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Project: Shell(2) Project Number: 3790 Hopyard Road, Pleasanton Project Manager: Ann Pember	Sampled: 6/17/99 Received: 6/18/99 Reported: 7/8/99
------------------------------------------------------------------	---------------------------------------------------------------------------------------------------	-----------------------------------------------------------

**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT/Quality Control**  
**Sequoia Analytical - San Carlos**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
---------	---------------	-------------	---------------	-----------	-------	-------------------------------	----------	-----------	-------	--------

<b>Batch: 9060140</b>	<b>Date Prepared: 6/25/99</b>		<b>Extraction Method: EPA 5030B [P/T]</b>							
<b>Blank</b>	<b>9060140-BLK1</b>									
Purgeable Hydrocarbons as Gasoline	6/25/99			ND	ug/l	50.0				
Benzene	"			ND	"	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	0.500				
Methyl tert-butyl ether	"			ND	"	5.00				
Surrogate: a,a,a-Trifluorotoluene	"	10.0		10.6	"	70.0-130	106			

<b>Batch: 9060142</b>	<b>Date Prepared: 6/25/99</b>		<b>Extraction Method: EPA 5030B [P/T]</b>							
<b>Blank</b>	<b>9060142-BLK1</b>									
Purgeable Hydrocarbons as Gasoline	6/25/99			ND	ug/l	50.0				
Benzene	"			ND	"	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	0.500				
Methyl tert-butyl ether	"			ND	"	5.00				
Surrogate: a,a,a-Trifluorotoluene	"	10.0		9.67	"	70.0-130	96.7			

<b>Batch: 9060149</b>	<b>Date Prepared: 6/27/99</b>		<b>Extraction Method: EPA 5030B [P/T]</b>							
<b>Blank</b>	<b>9060149-BLK1</b>									
Purgeable Hydrocarbons as Gasoline	6/27/99			ND	ug/l	50.0				
Benzene	"			ND	"	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	0.500				
Methyl tert-butyl ether	"			ND	"	5.00				
Surrogate: a,a,a-Trifluorotoluene	"	10.0		8.36	"	70.0-130	83.6			

<b>LCS</b>	<b>9060149-BS1</b>									
Purgeable Hydrocarbons as Gasoline	6/27/99	250		253	ug/l	70.0-130	101			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		15.9	"	70.0-130	159			3

<b>Matrix Spike</b>	<b>9060149-MS1</b>		<b>L906287-08</b>							
Purgeable Hydrocarbons as Gasoline	6/27/99	250	ND	255	ug/l	60.0-140	102			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		12.8	"	70.0-130	128			

<b>Matrix Spike Dup</b>	<b>9060149-MSD1</b>		<b>L906287-08</b>							
Purgeable Hydrocarbons as Gasoline	6/27/99	250	ND	244	ug/l	60.0-140	97.6	25.0	4.41	
Surrogate: a,a,a-Trifluorotoluene	"	10.0		13.1	"	70.0-130	131			3





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Project: Shell(2) Project Number: 3790 Hopyard Road, Pleasanton Project Manager: Ann Pember	Sampled: 6/17/99 Received: 6/18/99 Reported: 7/8/99
------------------------------------------------------------------	---------------------------------------------------------------------------------------------------	-----------------------------------------------------------

**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT/Quality Control**  
**Sequoia Analytical - San Carlos**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
<b>Batch: 9060150</b>		<b>Date Prepared: 6/27/99</b>			<b>Extraction Method: EPA 5030B [P/T]</b>					
<b>Blank</b>		<b>9060150-BLK1</b>								
Purgeable Hydrocarbons as Gasoline	6/27/99			ND	ug/l	50.0				
Benzene	"			ND	"	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	0.500				
Methyl tert-butyl ether	"			ND	"	5.00				
Surrogate: a,a,a-Trifluorotoluene	"	10.0		8.17	"	70.0-130	81.7			
<b>LCS</b>		<b>9060150-BS1</b>								
Purgeable Hydrocarbons as Gasoline	6/27/99	250		218	ug/l	70.0-130	87.2			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		8.03	"	70.0-130	80.3			
<b>Matrix Spike</b>		<b>9060150-MS1</b>		<b>L906279-02</b>						
Purgeable Hydrocarbons as Gasoline	6/27/99	250	ND	232	ug/l	60.0-140	92.8			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		8.16	"	70.0-130	81.6			
<b>Matrix Spike Dup</b>		<b>9060150-MSD1</b>		<b>L906279-02</b>						
Purgeable Hydrocarbons as Gasoline	6/27/99	250	ND	222	ug/l	60.0-140	88.8	25.0	4.41	
Surrogate: a,a,a-Trifluorotoluene	"	10.0		7.73	"	70.0-130	77.3			
<b>Batch: 9060151</b>		<b>Date Prepared: 6/27/99</b>			<b>Extraction Method: EPA 5030B [P/T]</b>					
<b>Blank</b>		<b>9060151-BLK1</b>								
Purgeable Hydrocarbons as Gasoline	6/27/99			ND	ug/l	50.0				
Benzene	"			ND	"	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	0.500				
Methyl tert-butyl ether	"			ND	"	5.00				
Surrogate: a,a,a-Trifluorotoluene	"	10.0		7.93	"	70.0-130	79.3			
<b>LCS</b>		<b>9060151-BS1</b>								
Purgeable Hydrocarbons as Gasoline	6/27/99	250		249	ug/l	70.0-130	99.6			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		9.88	"	70.0-130	98.8			
<b>Matrix Spike</b>		<b>9060151-MS1</b>		<b>L906287-06</b>						
Purgeable Hydrocarbons as Gasoline	6/27/99	250	ND	269	ug/l	60.0-140	108			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		9.42	"	70.0-130	94.2			
<b>Matrix Spike Dup</b>		<b>9060151-MSD1</b>		<b>L906287-06</b>						
Purgeable Hydrocarbons as Gasoline	6/27/99	250	ND	235	ug/l	60.0-140	94.0	25.0	13.9	





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Project: Shell(2) Project Number: 3790 Hopyard Road, Pleasanton Project Manager: Ann Pember	Sampled: 6/17/99 Received: 6/18/99 Reported: 7/8/99
------------------------------------------------------------------	---------------------------------------------------------------------------------------------------	-----------------------------------------------------------

**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT/Quality Control  
Sequoia Analytical - San Carlos**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
<b>Matrix Spike Dup (continued)</b>										
<b>9060151-MSD1 L906287-06</b>										
Surrogate: a,a,a-Trifluorotoluene	6/27/99	10.0		8.29	ug/l	70.0-130	82.9			
<b>Batch: 9060154 Date Prepared: 6/28/99 Extraction Method: EPA 5030B [P/T]</b>										
<b>Blank 9060154-BLK1</b>										
Purgeable Hydrocarbons as Gasoline	6/28/99			ND	ug/l	50.0				
Benzene	"			ND	"	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	0.500				
Methyl tert-butyl ether	"			ND	"	5.00				
Surrogate: a,a,a-Trifluorotoluene	"	10.0		9.83	"	70.0-130	98.3			
<b>LCS 9060154-BS1</b>										
Benzene	6/28/99			8.63	ug/l	70.0-130	86.3			
Toluene	"			8.52	"	70.0-130	85.2			
Ethylbenzene	"			9.05	"	70.0-130	90.5			
Xylenes (total)	"			26.9	"	70.0-130	80.7			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		9.13	"	70.0-130	91.3			
<b>Matrix Spike 9060154-MS1</b>										
Benzene	6/28/99	10.0		13.4	ug/l	60.0-140	134			
Toluene	"	10.0		10.7	"	60.0-140	107			
Ethylbenzene	"	10.0		13.7	"	60.0-140	137			
Xylenes (total)	"	30.0		41.1	"	60.0-140	137			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		9.13	"	70.0-130	91.3			
<b>Matrix Spike Dup 9060154-MSD1</b>										
Benzene	6/28/99	10.0		13.9	ug/l	60.0-140	139	25.0	3.66	
Toluene	"	10.0		11.1	"	60.0-140	111	25.0	3.67	
Ethylbenzene	"	10.0		14.2	"	60.0-140	142	25.0	3.58	2
Xylenes (total)	"	30.0		56.7	"	60.0-140	189	25.0	31.9	2
Surrogate: a,a,a-Trifluorotoluene	"	10.0		11.8	"	70.0-130	118			





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Project: Shell(2) Project Number: 3790 Hopyard Road, Pleasanton Project Manager: Ann Pember	Sampled: 6/17/99 Received: 6/18/99 Reported: 7/8/99
------------------------------------------------------------------	---------------------------------------------------------------------------------------------------	-----------------------------------------------------------

**Notes and Definitions**

#	Note
---	------

- 1 Chromatogram pattern: C6-C12
- 2 The MS/MSD % recovery and/or RPD were outside established control limits. The blank spike will validate the batch.
- 3 The surrogate recovery was above established control limits due to sample matrix effect.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- Recov. Recovery
- RPD Relative Percent Difference



# BLAINE

TECH SERVICES INC.

1680 ROGERS AVENUE  
SAN JOSE, CALIFORNIA 95112-1105  
FAX (408) 573-7771  
PHONE (408) 573-0555

## CONDUCT ANALYSIS TO DETECT

CHAIN OF CUSTODY		
CLIENT Equiva - Karen Petryna		
SITE 3790 Hopyard Road Pleasanton, CA		
SAMPLE I.D.	MATRIX S = SOIL W = H2O	CONTAINERS TOTAL

C = COMPOSITE ALL CONTAINERS

TPH - gas, BTEX, MTBE	MTBE by 8020	MTBE by 8260	TPH - diesel	Oxygenates by 8260	1,2-DCA & EDB by 8010
-----------------------	--------------	--------------	--------------	--------------------	-----------------------

LAB Equiva DHS # \_\_\_\_\_

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND

EPA  RWQCB REGION \_\_\_\_\_

LIA

OTHER L906287

SPECIAL INSTRUCTIONS

Send invoice to Equiva

Incident # 98995842

Send report to Blaine Tech Services

Attn: Ann Pember

SAMPLE I.D.	DATE	TIME	MATRIX	CONTAINERS	TPH - gas, BTEX, MTBE	MTBE by 8020	MTBE by 8260	TPH - diesel	Oxygenates by 8260	1,2-DCA & EDB by 8010	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
X S-2 *	6/17/99	13:20	W	3 # 01	X	X								
X S-3		13:02		3 02	X	X								
X S-4		13:40		3 03	X	X								
X S-5		12:40		3 04	X	X								
X S-6		10:40		3 05	X	X								
X S-7		10:20		3 06	X	X								
X S-8		11:55		3 07	X	X								
X S-9		8:40		3 08	X	X								
X S-10		11:05		3 09	X	X								

USE 6/18/99  
completion date

SAMPLING COMPLETED	DATE	TIME	SAMPLING PERFORMED BY	RESULTS NEEDED NO LATER THAN	
	6/17/99	14:00	Wayne Row	As contracted	
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Wayne Row	6/18/99	8:31	Fisher	6/18/99	8:31
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Fisher	6/19/99	12:35	Muller	6/23/99	16:00
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
SHIPPED VIA	DATE SENT	TIME SENT	COOLER #		



## SHELL WELL MONITORING DATA SHEET

Project #: <u>990617-01</u>	WIC #: <u>204-6138-0501</u>
Sampler: <u>Layne</u>	Date: <u>6-17-99</u>
Well I.D.: <u>S-2</u>	Well Diameter: 2 <u>(3)</u> 4 6 8 <u>   </u>
Total Well Depth: <u>35.12</u>	Depth to Water: <u>13.97</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC <u>Grade</u>	D.O. Meter (if req'd): <u>YSI</u> HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius <sup>2</sup> * 0.163

Purge Method: Bailer      Sampling Method: Bailer  
Middleburg      Extraction Port  
Electric Submersible      Other: \_\_\_\_\_  
Extraction Pump  
 Other: \_\_\_\_\_

<u>7.8</u>	x	<u>3</u>	=	<u>23.4</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
13:12	71.2	6.8	3068	> 200	8	green odor
13:13	70.7	6.9	3435	> 200	16	
13:14	71.0	6.9	3591	> 200	24	

Did well dewater? Yes  No       Gallons actually evacuated: 24

Sampling Time: 13:20      Sampling Date: 6-17-99

Sample I.D.: S-2      Laboratory: Sequoia Crosby

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: \_\_\_\_\_ @ \_\_\_\_\_ Time Duplicate I.D.: \_\_\_\_\_

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

D.O. (if req'd): Pre-purge: \_\_\_\_\_ mg/l Post-purge: 3.7



## SHELL WELL MONITORING DATA SHEET

Project #: <u>990617-01</u>	WIC #: <u>204-6138-0501</u>
Sampler: <u>Layne</u>	Date: <u>6-17-99</u>
Well I.D.: <u>S-3</u>	Well Diameter: 2 <u>3</u> 4 6 8 <u>    </u>
Total Well Depth: <u>35.05</u>	Depth to Water: <u>12.35</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC <u>Grade</u>	D.O. Meter (if req'd): <u>YSI</u> HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius <sup>2</sup> * 0.163

Purge Method: Bailer                      Sampling Method: Bailer  
Middleburg                                              Extraction Port  
Electric Submersible                                              Other: \_\_\_\_\_  
 Extraction Pump

Other: \_\_\_\_\_

<u>8.4</u>	X	<u>3</u>	=	<u>25.2</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
<del>12:31</del>	70.8	6.7	2781	>200	9	
<del>12:32</del>	70.2	6.8	3834	>200	18	
<del>12:34</del>	70.2	6.8	4073	>200	27	

Did well dewater? Yes  No                      Gallons actually evacuated: 27

Sampling Time: ~~12:40~~ 13:02                      Sampling Date: 6-17-99

Sample I.D.: S-3                      Laboratory: Sequoia Crosby

Analyzed for: TPH-G BTEX MTBE TPH-D Other: \_\_\_\_\_

Equipment Blank I.D.: \_\_\_\_\_ @ \_\_\_\_\_ Time                      Duplicate I.D.: \_\_\_\_\_

Analyzed for: TPH-G BTEX MTBE TPH-D Other: \_\_\_\_\_

D.O. (if req'd):                      Pre-purge: \_\_\_\_\_ mg/l                      Post-purge: 2.8 mg

## SHELL WELL MONITORING DATA SHEET

Project #: <u>990617-01</u>	WIC #: <u>204-6138-0501</u>
Sampler: <u>Layne</u>	Date: <u>6-17-99</u>
Well I.D.: <u>S-4</u>	Well Diameter: 2 <u>(3)</u> 4 6 8 <u>   </u>
Total Well Depth: <u>36.06</u>	Depth to Water: <u>13.24</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC <u>Grade</u>	D.O. Meter (if req'd): <u>YSI</u> HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius <sup>2</sup> * 0.163

Purge Method: Bailer      Sampling Method: Bailer  
Middleburg      Extraction Port  
Electric Submersible      Other: \_\_\_\_\_  
Extraction Pump

Other: \_\_\_\_\_

<u>8.4</u>	x	<u>3</u>	=	<u>25.2</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
13:30	70.6	6.9	1725	> 200	9	grey, odor
13:31	70.2	6.8	1837	> 200	18	
13:33	70.5	6.8	2416 <sup>uv</sup>	> 200	27	
13:34	71.0	6.8	2497	> 200	36	

Did well dewater? Yes  No       Gallons actually evacuated: ~~25.2~~ 36

Sampling Time: 13:40      Sampling Date: 6-17-99

Sample I.D.: S-4      Laboratory: Sequoia Crosby

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: \_\_\_\_\_ @ \_\_\_\_\_ Time      Duplicate I.D.: \_\_\_\_\_

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

D.O. (if req'd):      Pre-purge: \_\_\_\_\_ mg/L      Post-purge: 4.8 mg/L

## SHELL WELL MONITORING DATA SHEET

Project #: <u>990617-01</u>	WIC #: <u>204-6138-0501</u>
Sampler: <u>Layne</u>	Date: <u>6-17-99</u>
Well I.D.: <u>S-5</u>	Well Diameter: 2 <u>3</u> 4 6 8 <u>    </u>
Total Well Depth: <u>35.95</u>	Depth to Water: <u>13.56</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC <u>Grade</u>	D.O. Meter (if req'd): <u>YSI</u> HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius <sup>2</sup> * 0.163

Purge Method: Bailer      Sampling Method: Bailer  
Middleburg      Extraction Port  
Electric Submersible      Other: \_\_\_\_\_  
 Extraction Pump

Other: \_\_\_\_\_

<u>8.3</u> <del>8.3</del>	x	<u>3</u>	=	<u>24.9</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
12:31	71.6	6.8	1670	>200	9	
12:32	70.7	6.8	1432	>200	18	
12:34	70.7	6.8	1398	>200	27	

Did well dewater? Yes  No      Gallons actually evacuated: 27

Sampling Time: 12:40      Sampling Date: 6-17-99

Sample I.D.: S-5      Laboratory: Sequoia Crosby

Analyzed for: TPH-G BTEX MTBE TPH-D Other: \_\_\_\_\_

Equipment Blank I.D.: \_\_\_\_\_ @ \_\_\_\_\_ Time      Duplicate I.D.: \_\_\_\_\_

Analyzed for: TPH-G BTEX MTBE TPH-D Other: \_\_\_\_\_

D.O. (if req'd): Pre-purge: \_\_\_\_\_ mg/L      Post-purge: 1.4 mg/L



## SHELL WELL MONITORING DATA SHEET

Project #: <u>990617-01</u>	WIC #: <u>204-6138-0501</u>
Sampler: <u>Layne</u>	Date: <u>6-17-99</u>
Well I.D.: <u>S-7</u>	Well Diameter: 2 <u>3</u> 4 6 8 <u>    </u>
Total Well Depth: <u>34.80</u>	Depth to Water: <u>15.91</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC <u>Grade</u>	D.O. Meter (if req'd): <u>YSI</u> HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius <sup>2</sup> * 0.163

Purge Method: Bailer      Sampling Method: Bailer  
Middleburg      Extraction Port  
Electric Submersible      Other: \_\_\_\_\_  
 Extraction Pump

Other: \_\_\_\_\_

<u>7.0</u>	x	<u>3</u>	=	<u>21</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
<u>10:14</u>	<u>68.0</u>	<u>6.8</u>	<u>2320</u>	<u>7200 <del>22</del></u>	<u>7</u>	<u>grey</u>
<u>10:15</u>	<u>67.9</u>	<u>6.8</u>	<u>3049</u>	<u>7200 <del>22</del></u>	<u>14</u>	
<u>10:16</u>	<u>68.6</u>	<u>6.7</u>	<u>3105</u>	<u>7200 <del>22</del></u>	<u>21</u>	

Did well dewater? Yes No      Gallons actually evacuated: 21

Sampling Time: 10:20      Sampling Date: 6-17-99

Sample I.D.: S-7      Laboratory: Sequoia Crosby

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ \_\_\_\_\_ Duplicate I.D.:

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

D.O. (if req'd): ~~5.1~~      Pre-purge: \_\_\_\_\_ mg/L      Post-purge: 5.1 mg/L

## SHELL WELL MONITORING DATA SHEET

Project #: <u>990617-D1</u>	WIC #: <u>204-6138-0501</u>
Sampler: <u>Layne</u>	Date: <u>6-17-99</u>
Well I.D.: <u>S-8</u>	Well Diameter: 2 <u>(3)</u> 4 6 8 <u>   </u>
Total Well Depth: <u>34.48</u>	Depth to Water: <u>14.07</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC <u>Grade</u>	D.O. Meter (if req'd): <u>YSI</u> HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius <sup>2</sup> * 0.163

Purge Method: Bailer      Sampling Method: Bailer  
Middleburg      Extraction Port  
Electric Submersible  
 Extraction Pump  
 Other: \_\_\_\_\_

<u>7.6</u>	X	<u>3</u>	=	<u>22.8</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
11:47	70.8	6.6	3480	>200	<del>8</del>	grey, odor
11:48	70.7	6.7	4516	>200	16	
11:49	70.7	6.7	4721	>200	24	

Did well dewater? Yes  No  Gallons actually evacuated: 24

Sampling Time: 11:55      Sampling Date: 6-17-99

Sample I.D.: S-8      Laboratory: Sequoia Crosby

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: \_\_\_\_\_ @ \_\_\_\_\_ Time Duplicate I.D.: \_\_\_\_\_

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

D.O. (if req'd): Pre-purge: \_\_\_\_\_ mg/L Post-purge: 0.9 mg/L

## SHELL WELL MONITORING DATA SHEET

Project #: <u>990617-01</u>	WIC #: <u>204-6138-0501</u>
Sampler: <u>Layne</u>	Date: <u>6-17-99</u>
Well I.D.: <u>S-9</u>	Well Diameter: 2 <u>3</u> 4 6 8 <u>    </u>
Total Well Depth: <u>35.03</u>	Depth to Water: <u>16.47</u>
Depth to Free Product: <u>    </u>	Thickness of Free Product (feet): <u>    </u>
Referenced to: PVC <u>Grade</u>	D.O. Meter (if req'd): <u>YSI</u> HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius <sup>2</sup> * 0.163

Purge Method: Bailer                      Sampling Method: Bailer  
Middleburg                                              Extraction Port  
Electric Submersible                                              Other:       
Extraction Pump

Other:     

<u>6.9</u>	x	<u>3</u>	=	<u>20.7</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
<u>8:28</u>	<u>68.0</u>	<u>6.6</u>	<u>3779</u>	<u>95.8</u>	<u>7</u>	<u>brown</u>
<u>8:29</u>	<u>68.6</u>	<u>6.7</u>	<u>3966</u>	<u><del>2200</del><sup>154.5</sup></u>	<u>14</u>	<u> </u>
<u>8:31</u>	<u>68.8</u>	<u>6.7</u>	<u>3920</u>	<u>170.8</u>	<u>21</u>	<u> </u>

Did well dewater? Yes      No                      Gallons actually evacuated: 21

Sampling Time: 8:40                                      Sampling Date: 6-17-99

Sample I.D.: S-9                                              Laboratory: Sequoia Crosby

Analyzed for: TPH-G BTEX MTBE TPH-D Other:     

Equipment Blank I.D.:      @      Time                      Duplicate I.D.:     

Analyzed for: TPH-G BTEX MTBE TPH-D Other:     

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge: <del>1.9</del> <u>1.9</u> mg/L
------------------	------------	------	--------------------------------------------

## SHELL WELL MONITORING DATA SHEET

Project #: 990617-01	WIC #: 204-6138-0501
Sampler: Layne	Date: 6-17-99
Well I.D.: S-10	Well Diameter: 2 (3) 4 6 8
Total Well Depth: 34.29	Depth to Water: 12.81
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC <u>Grade</u>	D.O. Meter (if req'd): <u>YSI</u> HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius <sup>2</sup> * 0.163

Purge Method: Bailer      Sampling Method: Bailer  
Middleburg      Extraction Port  
Electric Submersible      Other: \_\_\_\_\_  
Extraction Pump

Other: \_\_\_\_\_

<u>7.9</u>	x	<u>3</u>	=	<u>23.7</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
10:58	68.3	6.9	2008	> 200	8	black, odor
10:59	67.3	6.9	1732 <sup>✓</sup>	> 200	16	
11:00	67.5	7.0	1827	> 200	24	

Did well dewater? Yes No      Gallons actually evacuated: 24

Sampling Time: 11:05      Sampling Date: 6-17-99

Sample I.D.: S-10      Laboratory: Sequoia Crosby

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ \_\_\_\_\_ Time Duplicate I.D.:

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

D.O. (if req'd): Pre-purge: \_\_\_\_\_ mg/L      Post-purge: 2.0 mg/L



WELL HEAD INSPECTION CHECKLIST AND REPAIR ORDER

Client Shell / Equiva Site # 204-6138-0501

Inspection date: 6-17-99

Site address 3790 Hopyard Rd  
Pleasanton, Alameda

Inspected by: Layne

BTS Event # 990617-01

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-9	Needs new cap Lock missing	Replaced " "
S-6, S-10	Water standing in well box	Removed
S-8	Lock not functional	Replaced
S-4	No lock, cap broken	Replaced both

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
S-6	Top of well	BTS to repair		
S-7	Casings loose,			
S-10	4" to 2" reducer is not glued on			

Office review and assignments made by \_\_\_\_\_ date \_\_\_\_\_