RO 363

Shell Oil Products US

March 28, 2003

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

Subject: **Shell-branded Service Station**
3790 Hopyard Road
Pleasanton, California

Dear Mr. Seery:

Attached for your review and comment is a copy of the *Fourth Quarter 2002 Monitoring Report* for the above referenced site. Upon information and belief, I declare, under penalty of perjury, that the information contained in the attached document is true and correct.

As always, please feel free to contact me directly at (559) 645-9306 with any questions or concerns.

Sincerely,

Shell Oil Products US

Karen Petryna

Karen Petryna
Sr. Environmental Engineer

P.O. Box 7869 Burbank, CA 91510-7869 Phone (559) 645-9306 Facsimile (559) 645-5643

CAMBRIA

March 28, 2003

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

Re: **Fourth Quarter 2002 Monitoring Report**
Shell-branded Service Station
3790 Hopyard Road
Pleasanton, California
Incident #98995842
Cambria Project #245-0497-002

Dear Mr. Seery:

This groundwater monitoring report is being submitted on behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell) by Cambria Environmental Technology, Inc. (Cambria) in accordance with the reporting requirements of 23 CCR 2652d. The site is located on the corner of Hopyard Road and Las Positas Boulevard in Pleasanton, California (Figures 1 and 2).

REMEDIATION SUMMARY

Groundwater Extraction (GWE): Beginning the week of May 14, 2001, Advanced Cleanup Technologies Inc. of Benicia, California conducted three weekly 8-hour mobile GWE events using wells S-2, S-4 and T-2. Three additional GWE events were performed in August 2001. At Shell's direction, Onyx Industrial Service initiated twice-monthly events extracting from tank backfill well T-2 beginning in April 2002. Groundwater was also extracted from well S-4 between June 2002 and September 2002; extraction from well S-4 was discontinued due to low extraction volumes. Tank backfill well T-4 was added to the twice-monthly extraction events in October 2002.

Mobile GWE vacuum operations consist of lowering dedicated stingers into monitoring wells and extracting fluids using a vacuum truck. The volume of fluid extracted is recorded and used to calculate the quantity of aqueous-phase hydrocarbon removed from the subsurface. Mass-removal data for the site is presented in Table 1. To date, approximately 9.32 pounds of MTBE have been removed by GWE at the site.

Cambria Environmental Technology, Inc.

5900 Hollis Street
Suite A
Emeryville, CA 94608
Tel (510) 420-0700
Fax (510) 420-9170

Figures 3 through 5 show MTBE concentrations and mass removal estimates over time for wells S-4, T-2 and T-4, respectively. As shown on Figure 3, MTBE concentrations in well S-4 show a decreasing trend after the initiation of GWE. MTBE concentrations have decreased approximately two-orders of magnitude in well S-4. **As shown on Figure 4, MTBE concentrations detected in well T-2 in December 2002 are three orders of magnitude lower than those detected in June 2002.** As shown on Figure 5, MTBE concentrations detected in well T-4 in December 2002 are two orders of magnitude lower than those detected in June 2002.

FOURTH QUARTER 2002 ACTIVITIES

Groundwater Monitoring: Blaine Tech Services, Inc. (Blaine) of San Jose, California gauged and sampled selected site wells, calculated groundwater elevations, and compiled the analytical data. Cambria prepared a vicinity map that includes previously reported well survey information (Figure 1) and a groundwater elevation contour map (Figure 2). Blaine's report, presenting the laboratory report and supporting field documents, is included as Attachment A.

Additional Analysis: In an October 22, 2002 letter, Mr. Scott Seery of the Alameda County Health Care Services Agency (ACHCSA) requested additional analysis of the next quarterly groundwater monitoring samples at the site for diisopropyl ether (DIPE), ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), 1,2-dichloroethane (1,2-DCA) and ethylene dibromide (EDB). The results of the additional analysis are summarized in Table 2. No DIPE, ETBE, TAME or EDB was detected in any of the groundwater samples collected. **TBA was detected in wells S-2, S-4, S-6, SR-2 and SR-3, with concentrations ranging from 1,600 parts per billion (ppb) to 10,000 ppb.** 1,2-DCA was detected in wells S-7 and S-9 only with the highest detected concentration of 4.1 ppb in well S-7.

Subsurface Investigation Status: As proposed in our June 12, 2002 *Subsurface Investigation Work Plan* and in the addendum transmitted via electronic mail to Mr. Seery of the ACHCSA on July 22, 2002, Cambria installed onsite cone penetrometer testing (CPT) boring CPT-1 near well S-3 on July 26, 2002. Cambria also installed downgradient monitoring well S-11 within Hopyard Road east of the site on August 26, 2002, and downgradient monitoring well S-12 adjacent to the Arroyo Mocho Canal on September 19, 2002. Preliminary investigation results were submitted to the ACHCSA on October 16, 2002, and CPT boring CPT-2 was installed adjacent to the Arroyo Mocho Canal on November 25, 2002. On November 6, 2003, Mr. Seery requested cross-sectional diagrams for the site, and, as noted below, preliminary cross-sections were submitted to the ACHCSA on February 5, 2003 with data from CPT-2 boring installation.

Interim Remediation Work Plan: On August 28, 2002, Cambria submitted an *Interim Remediation Work Plan* proposing the installation of a fixed GWE system at the site. The ACHCSA approved this work plan in a September 9, 2003 letter. Cambria began system installation during the fourth quarter 2003. Figure 6 shows the layout of the remediation system piping.

ANTICIPATED FIRST QUARTER 2003 ACTIVITIES

Groundwater Monitoring: Blaine will gauge and sample all wells and tabulate the data. Cambria will prepare a monitoring report.

Additional Analysis: Based on the lack of significant concentrations of DIPE, ETBE, TAME, 1,2-DCA and EDB detected during the fourth quarter 2003, Cambria recommends analyzing quarterly groundwater monitoring samples collected from site wells for TBA only, in addition to the typical sampling for total petroleum hydrocarbons as gasoline, benzene, toluene, ethylbenzene, xylenes and MTBE. Cambria will implement this additional analysis during the second quarter 2003 unless otherwise directed by the ACHCSA.

Subsurface Investigation: On February 5, 2003, Cambria submitted to Mr. Seery preliminary results from investigation activities conducted for the site during 2002. Cambria will submit a complete investigation report during the first quarter 2003. Representatives from Cambria, Shell, ACHCSA and Zone 7 Water District met on February 13, 2003 to review the data collected to date. After the meeting, Mr. Seery issued a February 27, 2003 letter requesting several action items and technical reports, including a work plan for further soil and groundwater investigation at the site. Cambria will address this letter and make recommendations for future action at the site under separate cover.

Interim Remediation: Mobile GWE events will be discontinued in March 2003 pending final fixed GWE system completion and start-up. **The GWE system is expected to start-up in April 2003.** A system installation and start-up report will be submitted under separate cover.

Extension Request: In the February 27, 2003 ACHCSA letter, Mr. Seery requests due dates for quarterly reports as follows:

April 15, 2003	First Quarter 2003 Monitoring Report
July 15, 2003	Second Quarter 2003 Monitoring Report
October 15, 2003	Third Quarter 2003 Monitoring Report
January 15, 2004	Fourth Quarter 2003 Monitoring Report

The site is currently sampled during the third month of each quarter. In order to maintain the current sampling schedule and allow time to obtain the analytical report and Blaine's field data, Cambria requests these dates be extended one month to the following schedule:

May 15, 2003	First Quarter 2003 Monitoring Report
August 15, 2003	Second Quarter 2003 Monitoring Report
November 15, 2003	Third Quarter 2003 Monitoring Report
February 15, 2004	Fourth Quarter 2003 Monitoring Report

Cambria requests written ACHCSA approval of this proposed extension.

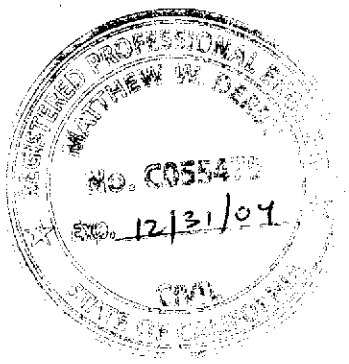
CLOSING

We appreciate the opportunity to work with you on this project. Please call Jacquelyn Jones at (510) 420-3316 if you have any questions or comments.

Sincerely,
Cambria Environmental Technology, Inc

Jacquelyn L. Jones
Project Geologist

Matthew W. Derby, P.E.
Senior Project Engineer



Figures:
1 - Vicinity/Area Well Survey Map
2 - Groundwater Elevation Contour Map
3 - MTBE and Mass Removal – Well S-4
4 - MTBE and Mass Removal – Well T-2
5 - MTBE and Mass Removal – Well T-4
6 - Remediation System Site Plan

Tables:
1 - Groundwater Extraction - Mass Removal Data
2 - Groundwater Analytical Data - Oxygenates

Attachment: A - Blaine Groundwater Monitoring Report and Field Notes

cc: Karen Petryna, Shell Oil Products US, P.O. Box 7869, Burbank, CA 91510-7869
Chuck Headlee, RWQCB, 1515 Clay Street, Suite 1400, Oakland, CA 94612
Danielle Stefani, Livermore-Pleasanton Fire Department, 3560 Nevada Street, Pleasanton, CA 94566
Matthew W. Katen, Zone 7 Water Agency, 5997 Parkside Drive, Pleasanton, CA 94588-5127
Tri-Valley Management, 3730 Hopyard Road, Pleasanton CA 94588

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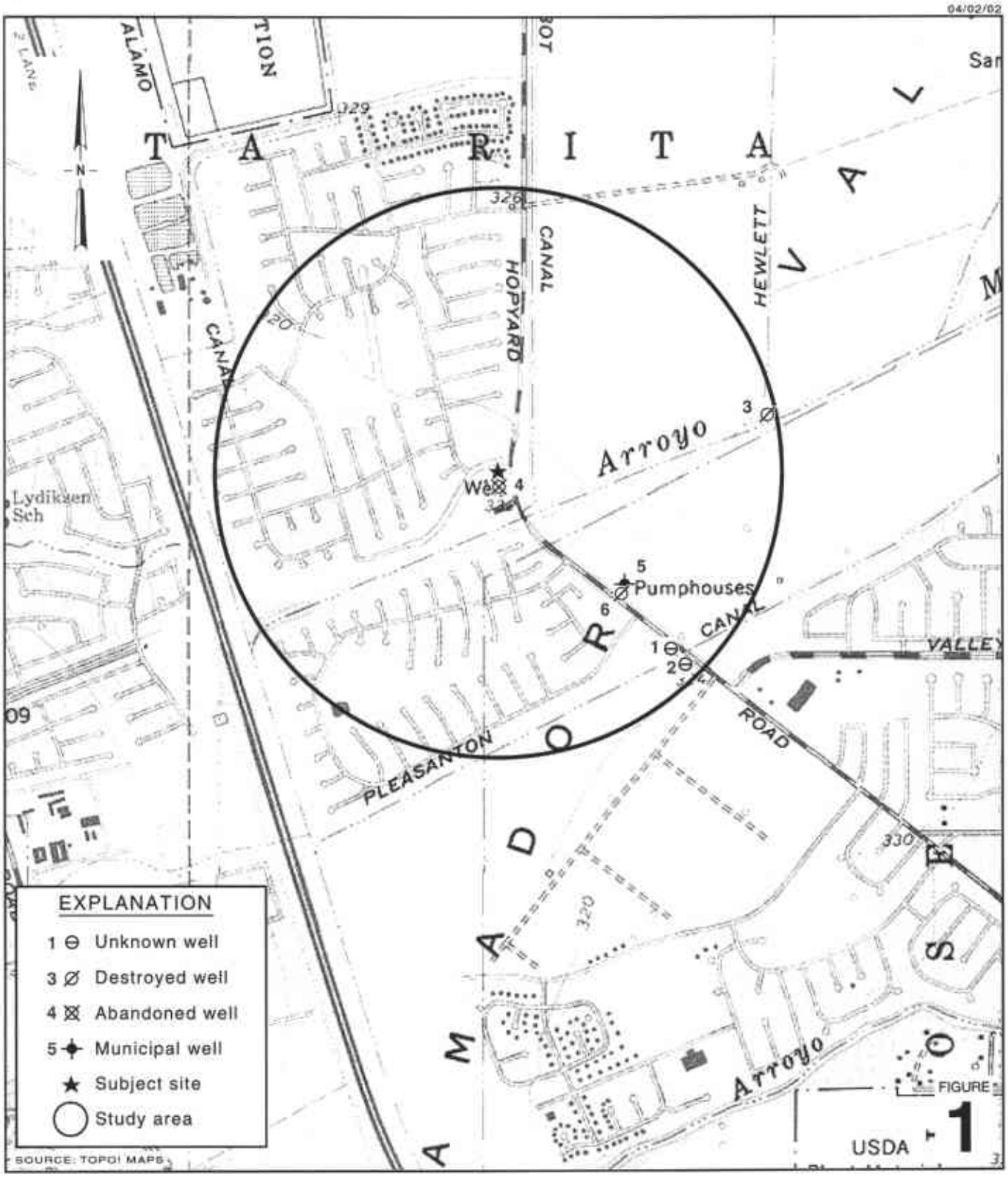

Shell-branded Service Station
3790 Hopyard Road
Pleasanton, California
Incident #98995842

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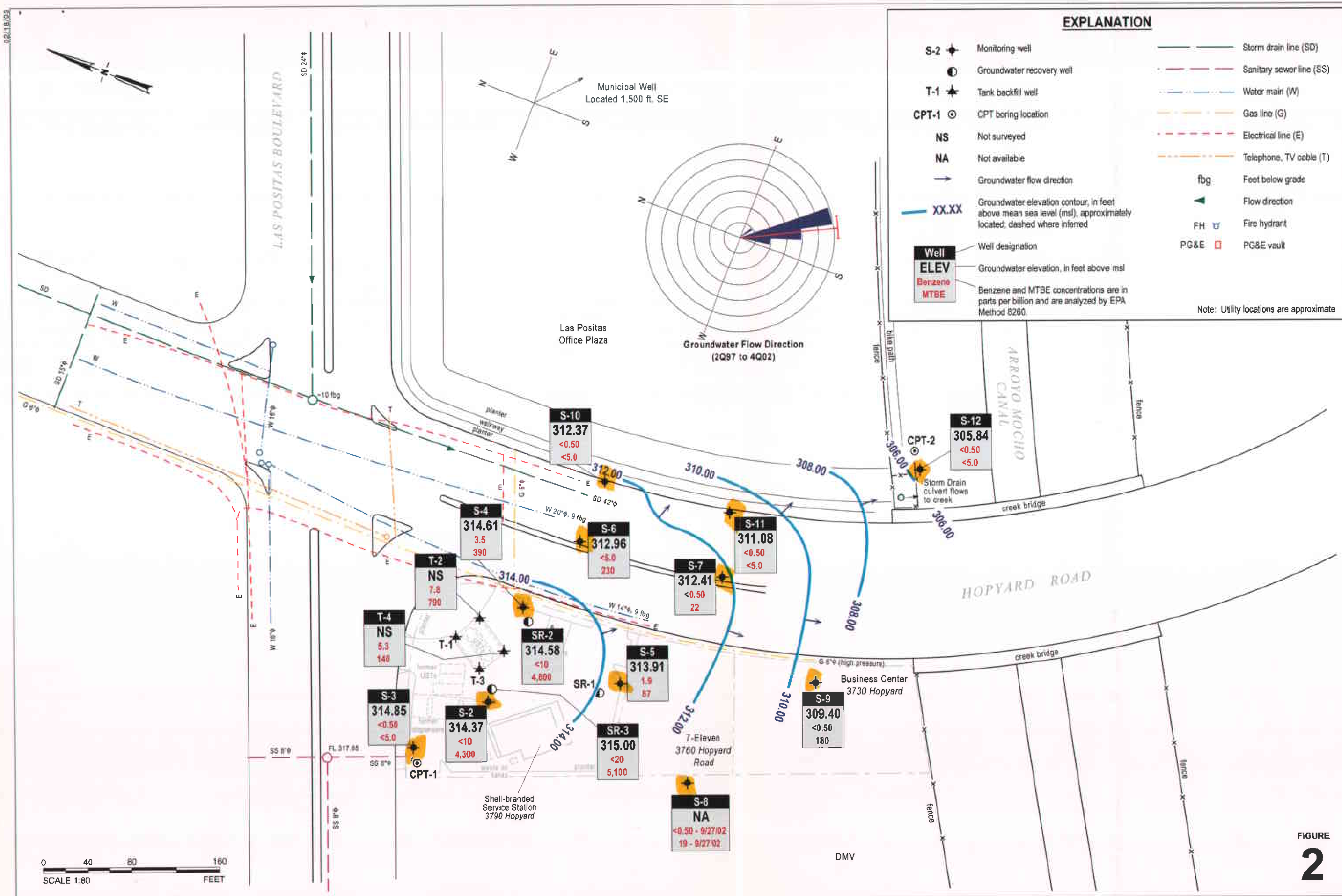
Vicinity/Area Well Survey Map
1/2 Mile Radius



EXPLANATION
S-2 Monitoring well
Groundwater recovery well
T-1 Tank backfill well
CPT-1 CPT boring location
NS Not surveyed
NA Not available
Groundwater flow direction
XX.XX Groundwater elevation contour, in feet above mean sea level (msl), approximately located; dashed where inferred
Well designation
Groundwater elevation, in feet above msl
Benzene and MTBE concentrations are in parts per billion and are analyzed by EPA Method 8260.
Well
ELEV
Benzene
MTBE
Storm drain line (SD)
Sanitary sewer line (SS)
Water main (W)
Gas line (G)
Electrical line (E)
Telephone, TV cable (T)
fbg Feet below grade
Flow direction
FH Fire hydrant
PG&E PG&E vault
Note: Utility locations are approximate
Municipal Well
Located 1,500 ft. SE
Las Positas
Office Plaza
Groundwater Flow Direction
(2Q97 to 4Q02)
LAS POSITAS BOULEVARD
HOPYARD ROAD
ARROYO MOCHO CANAL
S-10 312.37 <0.50 <5.0
S-12 305.84 <0.50 <5.0
S-4 314.61 3.5 390
S-6 312.96 <5.0 230
S-11 311.08 <0.50 <5.0
S-7 312.41 <0.50 22
T-2 NS 7.8 790
T-4 NS 5.3 140
SR-2 314.58 <10 4,800
S-5 313.91 1.9 87
S-3 314.85 <0.50 <5.0
S-2 314.37 <10 4,300
SR-3 315.00 <20 5,100
S-9 309.40 <0.50 180
S-8 NA <0.50 - 9/27/02 19 - 9/27/02
T-1
T-3
SR-1
CPT-1
CPT-2
314.00
312.00
310.00
308.00
306.00
Storm Drain culvert flows to creek
creek bridge
fence
bike path
Business Center
3730 Hopyard
7-Eleven
3760 Hopyard Road
Shell-branded Service Station
3790 Hopyard
DMV
planter
walkway
SD 42"Φ
SD 24"Φ
G 6"Φ (high pressure)
FL 317.85
SS 8"Φ
10 fbg
0 40 80 160
SCALE 1:80 FEET

FIGURE **2**

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Groundwater Elevation Contour Map

December 27, 2002

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Shell-branded Service Station

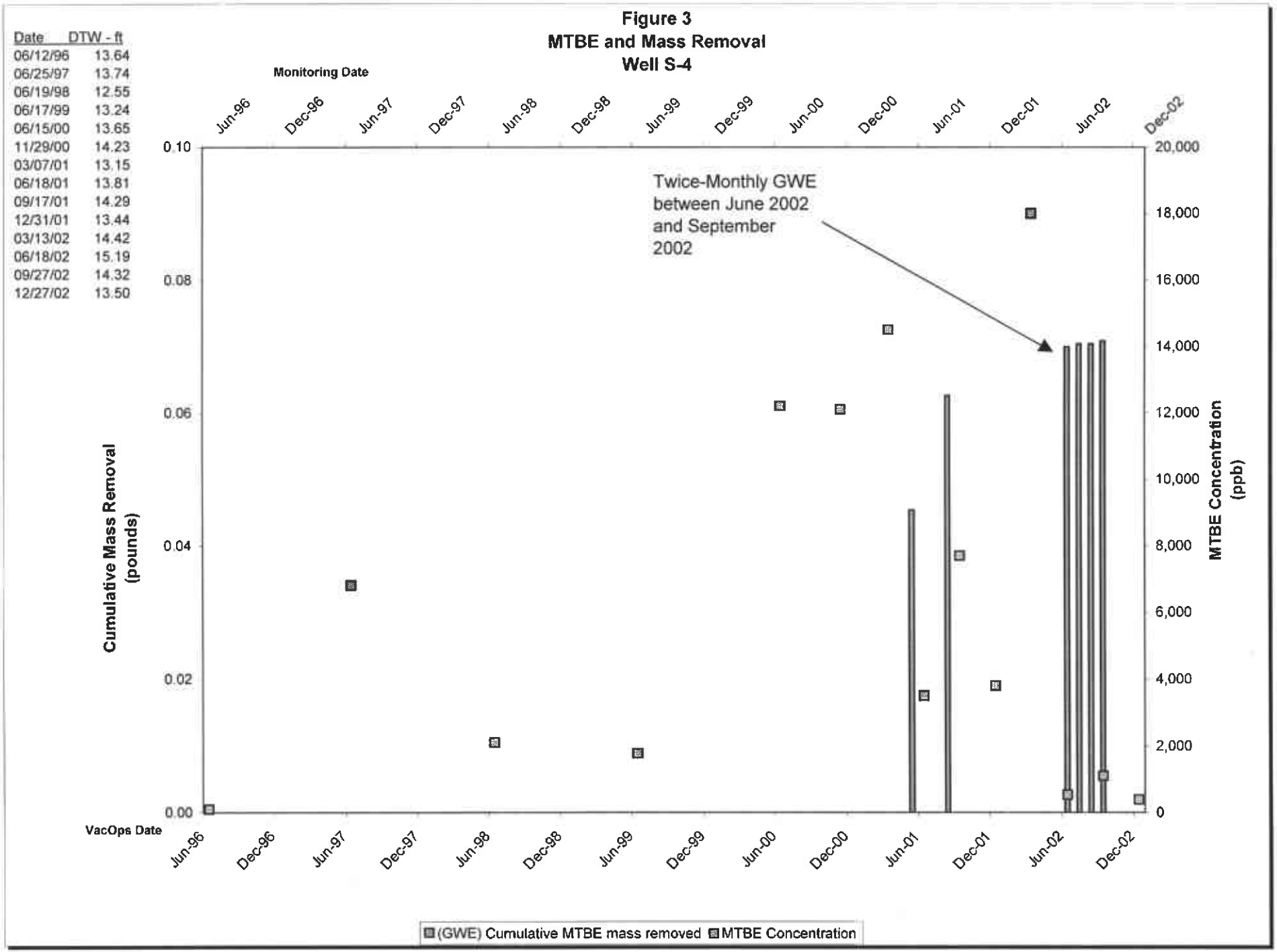
3790 Hopyard Road

Pleasanton, California

Incident #98995842

Figure 3
MTBE and Mass Removal
Well S-4

Date	DTW - ft
06/12/96	13.64
06/25/97	13.74
06/19/98	12.55
06/17/99	13.24
06/15/00	13.65
11/29/00	14.23
03/07/01	13.15
06/18/01	13.81
09/17/01	14.29
12/31/01	13.44
03/13/02	14.42
06/18/02	15.19
09/27/02	14.32
12/27/02	13.50



3790 Hopyard Road, Pleasanton, California

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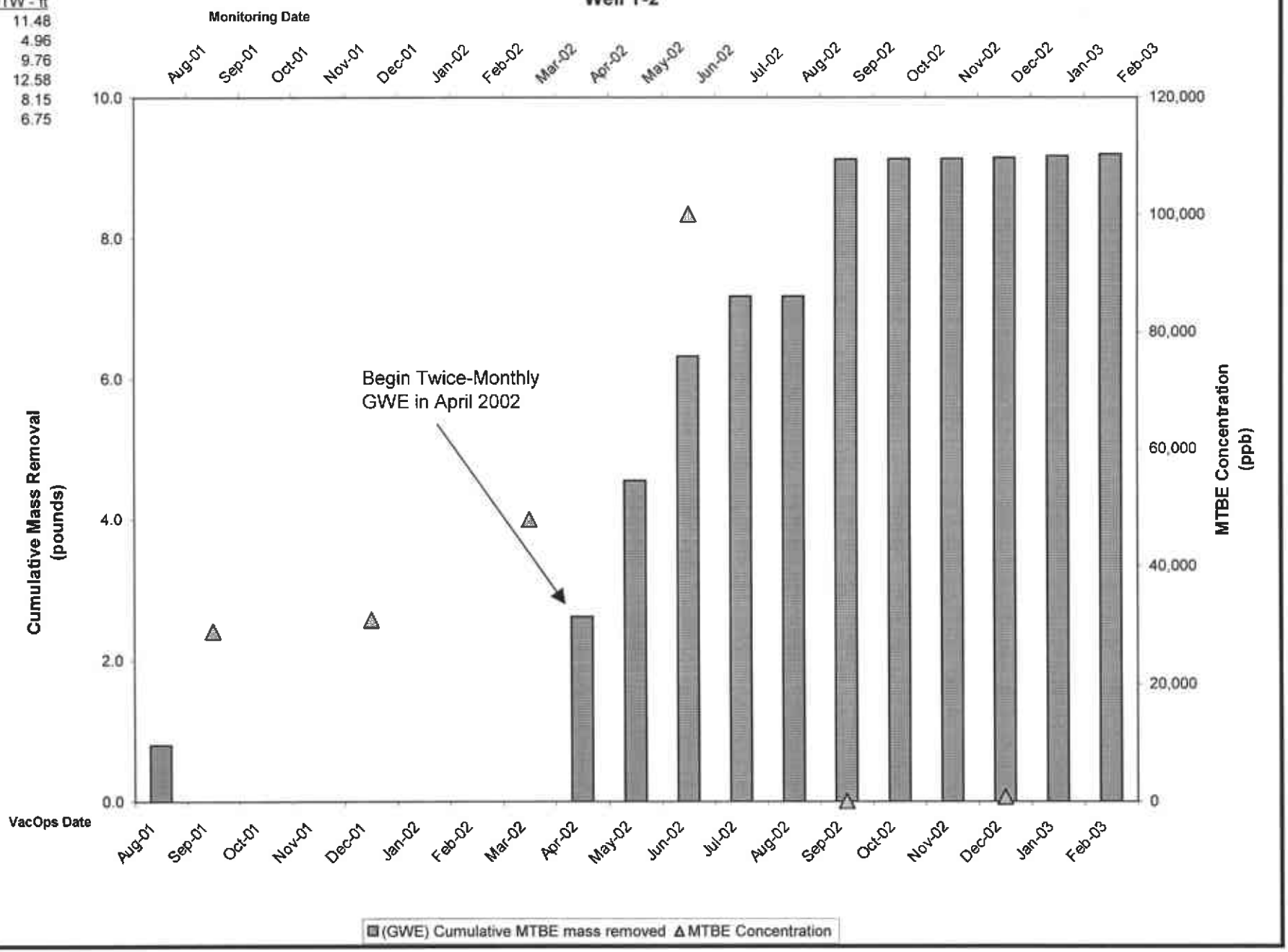
Figure 4
MTBE and Mass Removal
Well T-2

Date	DTW - ft
09/17/00	11.48
12/31/01	4.96
03/13/01	9.76
06/18/02	12.58
09/27/02	8.15
12/27/02	6.75



3790 Hopyard Road, Pleasanton, California

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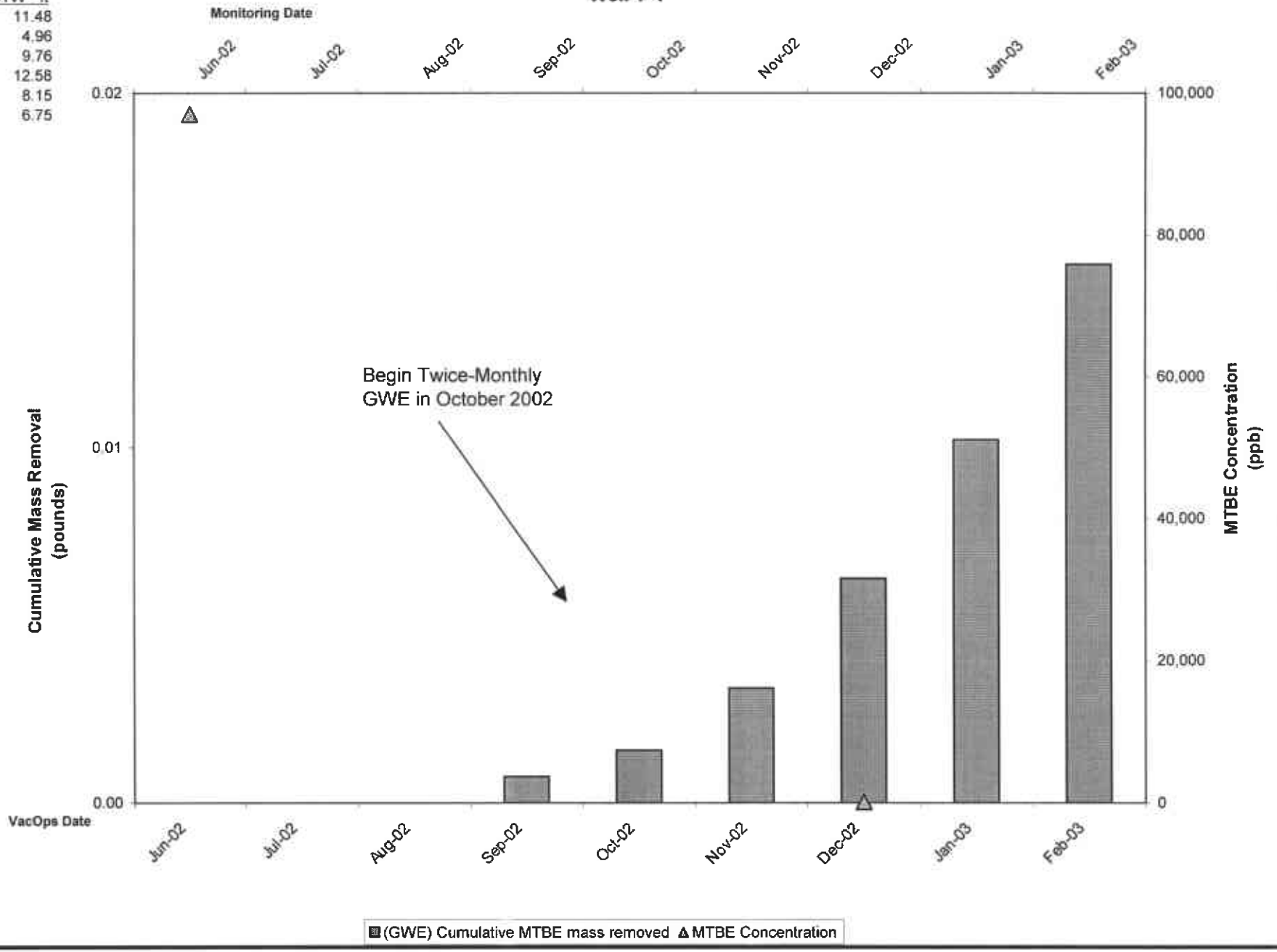
Figure 5
MTBE and Mass Removal
Well T-4

Date	DTW - ft
09/17/00	11.48
12/31/01	4.96
03/13/01	9.76
06/18/02	12.58
09/27/02	8.15
12/27/02	6.75



3790 Hopyard Road, Pleasanton, California

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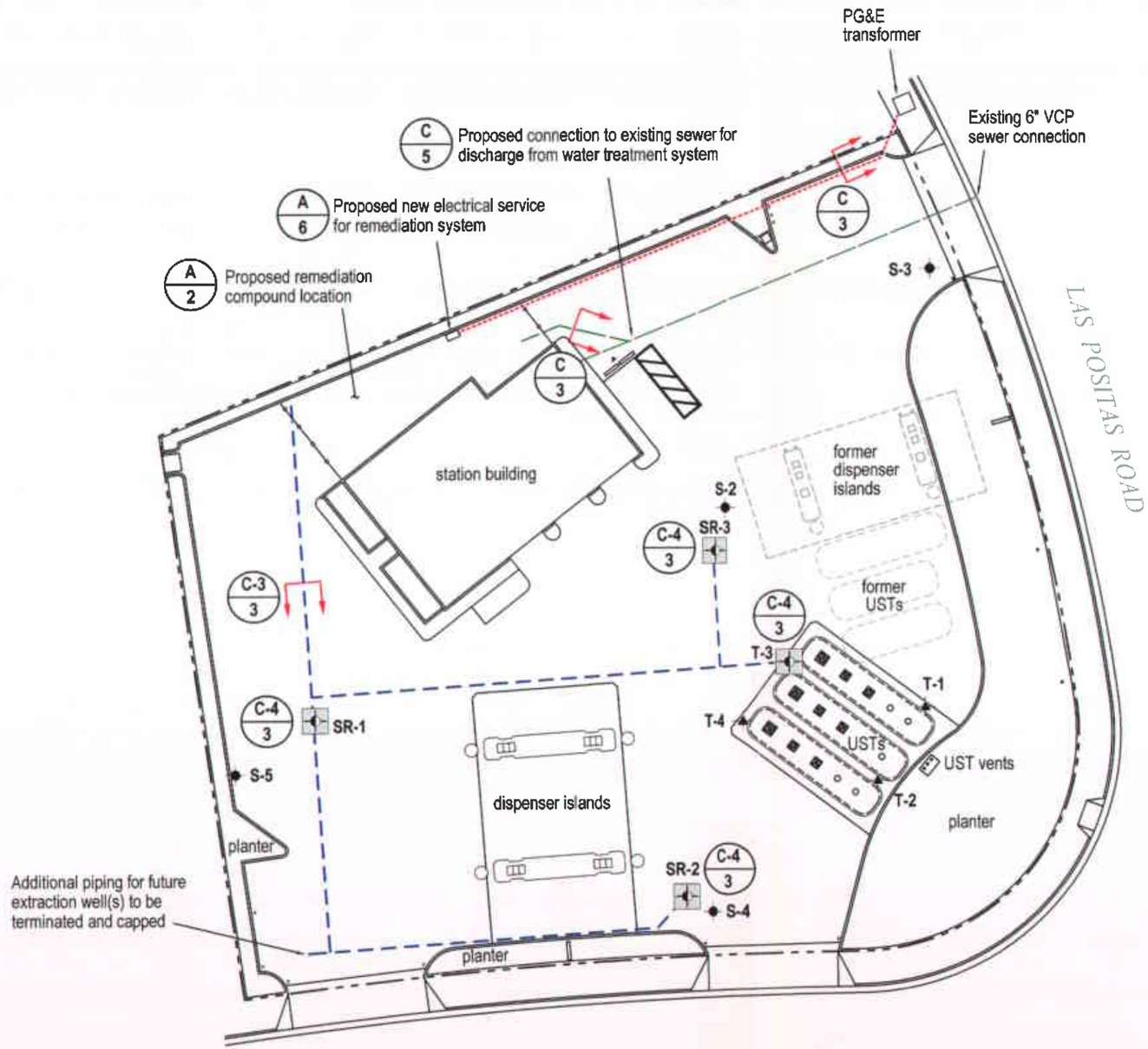
03/26/03



EXPLANATION

- MW-1 — Monitoring well location
- SR-1 — Wells proposed for shallow groundwater extraction
- T-1 — Existing Tank Backfill Well
- Proposed electrical service trench location
- Proposed water discharge connection
- Proposed fence
- Proposed remediation trench location
- D 3 — Denotes Shell Standard Detail Drawing Number
- D 3 — Cross-Section Indicator & Detail Designator

0 15 30 60

Scale (ft)

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Groundwater Extraction System Layout

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Shell-branded Service Station
3790 Hopyard Road
Pleasanton, California
Incident# 89995842

FIGURE
6

Table 1: Groundwater Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995842, 3790 Hopyard Road, Pleasanton, California

					TPPH			Benzene			MTBE		
Date Purged	Well ID	Volume Pumped (gal)	Cumulative Volume Pumped (gal)	Date Sampled	TPPH Concentration (ppb)	TPPH Removed (pounds)	TPPH Removed To Date (pounds)	Benzene Concentration (ppb)	Benzene Removed (pounds)	Benzene Removed To Date (pounds)	MTBE Concentration (ppb)	MTBE Removed (pounds)	MTBE Removed To Date (pounds)
05/17/01	S-2	20	20	03/07/01	<500	0.00004	0.00004	14.7	0.00000	0.00000	8,610	0.00144	0.00144
05/22/01	S-2	100	120	03/07/01	<500	0.00021	0.00025	14.7	0.00001	0.00001	8,610	0.00718	0.00862
05/29/01	S-2	75	195	03/07/01	<500	0.00016	0.00041	14.7	0.00001	0.00002	8,610	0.00539	0.01401
08/08/01	S-2	50	245	06/18/01	<2,000	0.00042	0.00082	<20	0.00000	0.00003	**7,100**	0.00296	0.01697
08/17/01	S-2	20	265	06/18/01	<2,000	0.00017	0.00099	<20	0.00000	0.00003	**7,100**	0.00118	0.01816
08/31/01	S-2	250	515	06/18/01	<2,000	0.00209	0.00308	<20	0.00002	0.00005	**7,100**	0.01481	0.03297
05/17/01	S-4	100	100	03/07/01	<500	0.00021	0.00021	5.44	0.00000	0.00000	**14,500**	0.01210	0.01210
05/22/01	S-4	150	250	03/07/01	<500	0.00031	0.00052	5.44	0.00001	0.00001	**14,500**	0.01815	0.03025
05/29/01	S-4	125	375	03/07/01	<500	0.00026	0.00078	5.44	0.00001	0.00002	**14,500**	0.01512	0.04537
08/08/01	S-4	50	425	06/18/01	<1,000	0.00021	0.00099	<10	0.00000	0.00002	**3,500**	0.00146	0.04683
08/17/01	S-4	40	465	06/18/01	<1,000	0.00017	0.00116	<10	0.00000	0.00002	**3,500**	0.00117	0.04800
08/31/01	S-4	500	965	06/18/01	<1,000	0.00209	0.00324	<10	0.00002	0.00004	**3,500**	0.01460	0.06260
06/26/02	S-4	1,669	2,634	06/18/02	<100	0.00070	0.00394	1.1	0.00001	0.00005	**530**	0.00738	0.06998
07/10/02	S-4	100	2,734	06/18/02	<100	0.00004	0.00398	1.1	0.00000	0.00005	**530**	0.00044	0.07043
07/24/02	S-4	0	2,734	06/18/02	<100	0.00000	0.00398	1.1	0.00000	0.00005	**530**	0.00000	0.07043
08/12/02	S-4	0	2,734	06/18/02	<100	0.00000	0.00398	1.1	0.00000	0.00005	**530**	0.00000	0.07043
09/09/02	S-4	100	2,834	06/18/02	<100	0.00004	0.00402	1.1	0.00000	0.00005	**530**	0.00044	0.07087
05/17/01	T-2	2,300	2,300	NA	NA	0.00000	0.00000	NA	0.00000	0.00000	NA	0.00000	0.00000
05/22/01	T-2	0	2,300	NA	NA	0.00000	0.00000	NA	0.00000	0.00000	NA	0.00000	0.00000
05/29/01	T-2	0	2,300	NA	NA	0.00000	0.00000	NA	0.00000	0.00000	NA	0.00000	0.00000
08/08/01	T-2	1,300	3,600	09/17/01	<5,000	0.02712	0.02712	<25	0.00014	0.00014	**29,000**	0.31458	0.31458
08/17/01	T-2	10	3,610	09/17/01	<5,000	0.00021	0.02733	<25	0.00000	0.00014	**29,000**	0.00242	0.31700
08/31/01	T-2	2,000	5,610	09/17/01	<5,000	0.04172	0.06905	<25	0.00021	0.00035	**29,000**	0.48397	0.80097
04/11/02	T-2	2,465	8,075	03/13/02	<5,000	0.05142	0.12047	<50	0.00051	0.00086	**48,000**	0.98730	1.78828
04/24/02	T-2	2,074	10,149	03/13/02	<5,000	0.04327	0.16374	<50	0.00043	0.00129	**48,000**	0.83070	2.61898
05/15/02	T-2	2,410	12,559	03/13/02	<5,000	0.05027	0.21401	<50	0.00050	0.00179	**48,000**	0.96528	3.58425

Table 1: Groundwater Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995842, 3790 Hopyard Road, Pleasanton, California

					TPPH			Benzene			MTBE		
Date Purged	Well ID	Volume Pumped (gal)	Cumulative Volume Pumped (gal)	Date Sampled	TPPH Concentration (ppb)	TPPH Removed (pounds)	TPPH Removed To Date (pounds)	Benzene Concentration (ppb)	Benzene Removed (pounds)	Benzene Removed To Date (pounds)	MTBE Concentration (ppb)	MTBE Removed (pounds)	MTBE Removed To Date (pounds)
05/29/02	T-2	2,408	14,967	03/13/02	<5,000	0.05023	0.26424	<50	0.00050	0.00230	**48,000**	0.96447	4.54873
06/12/02	T-2	2,338	17,305	03/13/02	<5,000	0.04877	0.31302	<50	0.00049	0.00278	**48,000**	0.93644	5.48516
06/26/02	T-2	1,000	18,305	06/18/02	<20,000	0.08344	0.39646	<200	0.00083	0.00362	**100,000**	0.83444	6.31960
07/10/02	T-2	1,025	19,330	06/18/02	<20,000	0.08553	0.48199	<200	0.00086	0.00447	**100,000**	0.85530	7.17489
07/24/02	T-2	0	19,330	06/18/02	<20,000	0.00000	0.48199	<200	0.00000	0.00447	**100,000**	0.00000	7.17489
08/12/02	T-2	0	19,330	06/18/02	<20,000	0.00000	0.48199	<200	0.00000	0.00447	**100,000**	0.00000	7.17489
09/09/02	T-2	2,336	21,666	06/18/02	<20,000	0.19492	0.67692	<200	0.00195	0.00642	**100,000**	1.94924	9.12414
09/30/02	T-2	2,295	23,961	09/27/02	240	0.00460	0.68151	0.55	0.00001	0.00643	**39**	0.00075	9.12488
10/07/02	T-2	2,312	26,273	09/27/02	240	0.00463	0.68614	0.55	0.00001	0.00645	**39**	0.00075	9.12564
10/21/02	T-2	2,355	28,628	09/27/02	240	0.00472	0.69086	0.55	0.00001	0.00646	**39**	0.00077	9.12640
11/05/02	T-2	2,532	31,160	09/27/02	240	0.00507	0.69593	0.55	0.00001	0.00647	**39**	0.00082	9.12723
11/19/02	T-2	2,439	33,599	09/27/02	240	0.00488	0.70081	0.55	0.00001	0.00648	**39**	0.00079	9.12802
12/06/02	T-2	2,362	35,961	09/27/02	240	0.00473	0.70554	0.55	0.00001	0.00649	**39**	0.00077	9.12879
12/28/02	T-2	2,005	37,966	12/27/02	2,100	0.03513	0.74068	7.8	0.00013	0.00662	**790**	0.01322	9.14201
01/17/03	T-2	1,770	39,736	12/27/02	2,100	0.03102	0.77169	7.8	0.00012	0.00674	**790**	0.01167	9.15367
01/29/03	T-2	2,096	41,832	12/27/02	2,100	0.03673	0.80842	7.8	0.00014	0.00687	**790**	0.01382	9.16749
02/12/03	T-2	2,353	44,185	12/27/02	2,100	0.04123	0.84965	7.8	0.00015	0.00702	**790**	0.01551	9.18300
02/26/03	T-2	2,012	46,197	12/27/02	2,100	0.03526	0.88491	7.8	0.00013	0.00716	**790**	0.01326	9.19626
09/09/02	T-4*	0	0	09/27/02	240	0.00000	0.00000	0.55	0.00000	0.00000	**39**	0.00000	0.00000
09/09/02	T-4*	2,264	2,264	09/27/02	240	0.00453	0.00453	0.55	0.00001	0.00001	**39**	0.00074	0.00074
10/21/02	T-4*	2,329	4,593	09/27/02	240	0.00466	0.00920	0.55	0.00001	0.00002	**39**	0.00076	0.00149
11/05/02	T-4*	2,657	7,250	09/27/02	240	0.00532	0.01452	0.55	0.00001	0.00003	**39**	0.00086	0.00236
11/05/02	T-4*	2,657	9,907	09/27/02	240	0.00532	0.01984	0.55	0.00001	0.00005	**39**	0.00086	0.00322
12/06/02	T-4*	1,657	11,564	09/27/02	240	0.00332	0.02316	0.55	0.00001	0.00005	**39**	0.00054	0.00376
12/28/02	T-4	2,175	13,739	12/27/02	550	0.00998	0.03314	5.3	0.00010	0.00015	**140**	0.00254	0.00630
01/17/03	T-4	1,664	15,403	12/27/02	550	0.00764	0.04078	5.3	0.00007	0.00022	**140**	0.00194	0.00825
01/29/03	T-4	1,679	17,082	12/27/02	550	0.00771	0.04848	5.3	0.00007	0.00030	**140**	0.00196	0.01021

Table 1: Groundwater Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995842, 3790 Hopyard Road, Pleasanton, California

					TPPH			Benzene			MTBE		
Date Purged	Well ID	Volume Pumped (gal)	Cumulative Volume Pumped (gal)	Date Sampled	TPPH Concentration (ppb)	TPPH Removed (pounds)	TPPH Removed To Date (pounds)	Benzene Concentration (ppb)	Benzene Removed (pounds)	Benzene Removed To Date (pounds)	MTBE Concentration (ppb)	MTBE Removed (pounds)	MTBE Removed To Date (pounds)
02/12/03	T-4	2,276	19,358	12/27/02	550	0.01045	0.05893	5.3	0.00010	0.00040	**140**	0.00266	0.01287
02/26/03	T-4	1,969	21,327	12/27/02	550	0.00904	0.06796	5.3	0.00009	0.00048	**140**	0.00230	0.01517
Total Gallons Extracted:			**70,873**		**Total Pounds Removed:**		**0.95998**			**0.00774**			**9.31527**
					Total Gallons Removed:		**0.15737**			**0.00106**			**1.50246**

Abbreviations & Notes:

TPPH = Total purgeable hydrocarbons as gasoline
MtBE = Methyl tert-butyl ether
ppb = Parts per billion
gal = Gallon
* = Concentrations for tank backfill well T-4 taken from nearest sampled tank backfill well, T-2.
Mass removed based on the formula: volume extracted (gal) x Concentration (µg/L) x ($g/10^6 \mu g$) x (pound/453.6g) x (3.785 L/gal)
Volume removal data based on the formula: density (in gms/cc) x 9.339 (ccxlbs/gmsxgals)
TPPH, benzene analyzed by EPA Method 8015/8020
MTBE analyzed by EPA Method 8260 in bold font, all other MTBE analyzed by EPA Method 8020
Concentrations based on most recent groundwater monitoring results
Groundwater extracted by vacuum trucks provided by ACTI. Water disposed of at a Martinez Refinery.

Table 2. **Groundwater Analytical Data - Oxygenates** - Shell-branded Service Station, Incident #98995842, 3790 Hopyard Road, Pleasanton, California

Sample ID	Date Sampled	MTBE	DIPE	ETBE	TAME	TBA	Ethanol	1,2-DCA	EDB
		← (Concentrations in ppb) →							
S-2	09/17/01	7,500	<10	<10	<10	680	<500	---	---
	12/27/02	**4,300**	**<10**	**<10**	**<10**	**5,600**	**---**	**<10**	**<10**
S-3	**12/27/02**	**<5.0**	**<2.0**	**<2.0**	**<2.0**	**<50**	**---**	**<2.0**	**<2.0**
S-4	**12/27/02**	**390**	**<2.5**	**<2.5**	**<5.0**	**9,000**	**---**	**<2.5**	**<2.5**
S-5	**12/27/02**	**87**	**<2.0**	**<2.0**	**<2.0**	**<50**	**---**	**<2.0**	**<2.0**
S-6	09/17/01	5.7	<2.0	<2.0	<2.0	<50	<500	---	---
	12/27/02	**230**	**<5.0**	**<5.0**	**<5.0**	**10,000**	**---**	**<5.0**	**<5.0**
S-7	**12/27/02**	**22**	**<2.0**	**<2.0**	**<2.0**	**<50**	**---**	**4.1**	**<2.0**
S-9	**12/27/02**	**180**	**<2.0**	**<2.0**	**<2.0**	**<50**	**---**	**2.8**	**<2.0**
S-10	**12/27/02**	**<5.0**	**<2.0**	**<2.0**	**<2.0**	**<50**	**---**	**<2.0**	**<2.0**
S-11	**12/27/02**	**<5.0**	**<2.0**	**<2.0**	**<2.0**	**<50**	**---**	**<2.0**	**<2.0**
S-12	**12/27/02**	**<5.0**	**<2.0**	**<2.0**	**<2.0**	**<50**	**---**	**<2.0**	**<2.0**
SR-2	**12/27/02**	**4,600**	**<10**	**<10**	**<10**	**1,900**	**---**	**<10**	**<10**
SR-3	**12/27/02**	**5,100**	**<20**	**<20**	**<20**	**4,600**	**---**	**<20**	**<20**

Table 2. **Groundwater Analytical Data - Oxygenates** - Shell-branded Service Station, Incident #98995842, 3790 Hopyard Road, Pleasanton, California

Sample ID	Date Sampled	MTBE	DIPE	ETBE	TAME	TBA	Ethanol	1,2-DCA	EDB
		← (Concentrations in ppb) →							
T-2	12/27/02	790	<2.0	<2.0	2.7	1,200	---	<2.0	<2.0
T-4	12/27/02	140	<2.0	<2.0	<2.0	120	---	<2.0	<2.0

Abbreviations:

MTBE = Methyl tert-butyl ether, analyzed by EPA Method 8260
DIPE = Di-isopropyl ether, analyzed by EPA Method 8260
ETBE = Ethyl tert-butyl ether, analyzed by EPA Method 8260
TAME = Tert-amyl methyl ether, analyzed by EPA Method 8260
TBA = Tert-butyl alcohol, analyzed by EPA Method 8260
Ethanol analyzed by EPA Method 8260
1,2-DCA = 1,2-dichloroethane, analyzed by EPA Method 8260
EDB = 1,2-dibromomethane or ethlyene dibromide, analyzed by EPA Method 8260
ppb = Parts per billion
--- = Not analyzed

ATTACHMENT A

Blaine Groundwater Monitoring Report and Field Notes

BLAINE
TECH SERVICES, INC.

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January 24, 2003

Karen Petryna
Shell Oil Products US
P.O. Box 7869
Burbank, CA 91510-7869

Fourth Quarter 2002 Groundwater Monitoring at
Shell-branded Service Station
3790 Hopyard Road
Pleasanton, CA

Monitoring performed on December 27, 2002 and
January 7, 2003

Groundwater Monitoring Report **021227-SS-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, 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. Our activities at this site consisted of objective data and sample collection only. No interpretation of analytical results, defining of hydrological conditions or formulation of recommendations was performed.

Please call if you have any questions.

Yours truly,

Leon Gearhart
Project Coordinator

LG/jt

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

cc: Anni Kreml
Cambria Environmental Technology, Inc.
5900 Hollis Street, Suite A
Oakland, CA 94608

WELL CONCENTRATIONS
Shell-branded Service Station
3790 Hopyard Road
Pleasanton, CA

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)	TOC (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	2.04	1.02	<1.00	147	NA	329.21	13.97	315.24	3.7
S-2	06/15/2000	1,050	NA	261	<5.00	7.54	11.4	13,500	9,850b	329.21	14.25	314.96	3.3
S-2	11/29/2000	<250	NA	3.75	<2.50	<2.50	<2.50	12,400	10,700b	329.21	14.82	314.39	2.2
S-2	03/07/2001	<500	NA	14.7	<5.00	<5.00	<5.00	8,610	NA	329.21	13.70	315.51	2.3
S-2	06/18/2001	<2,000	NA	<20	<20	<20	<20	NA	7,100	329.21	14.56	314.65	NA
S-2	09/17/2001	<2,000	NA	<10	<10	<10	<10	NA	7,500	329.21	15.18	314.03	NA
S-2	12/31/2001	<1,000	NA	<10	<10	<10	<10	NA	3,800	329.21	13.19	316.02	NA
S-2	03/13/2002	<1,000	NA	65	<10	13	<10	NA	6,500	329.21	15.03	314.18	NA
S-2	06/18/2002	520	NA	28	<5.0	<5.0	<5.0	NA	2,800	329.21	15.60	313.61	NA

WELL CONCENTRATIONS
Shell-branded Service Station
3790 Hopyard Road
Pleasanton, CA

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)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
S-2	09/27/2002	<1,000	NA	<10	<10	<10	<10	NA	4,200	328.77	14.90	313.87	NA
S-2	**12/27/2002**	**<1,000**	**NA**	**<10**	**<10**	**<10**	**<10**	**NA**	**4,300**	**328.77**	**14.40**	**314.37**	**NA**
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
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-3	06/15/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	327.67	12.51	315.16	3.2
S-3	11/29/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	327.67	12.84	314.83	1.0
S-3	03/07/2001	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	327.67	12.42	315.25	2.8
S-3	06/18/2001	<50	NA	0.66	1.1	<0.50	0.51	NA	0.66	327.67	13.74	313.93	NA
S-3	09/17/2001	<50	NA	0.73	0.96	<0.50	0.61	NA	<5.0	327.67	13.25	314.42	NA
S-3	12/31/2001	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	327.67	12.38	315.29	NA

WELL CONCENTRATIONS
Shell-branded Service Station
3790 Hopyard Road
Pleasanton, CA

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)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
S-3	03/13/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	327.67	13.16	314.51	NA
S-3	06/18/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	327.67	13.55	314.12	NA
S-3	09/27/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	327.40	13.32	314.08	NA
S-3	**12/27/2002**	**<50**	**NA**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**NA**	**<5.0**	**327.40**	**12.55**	**314.85**	**NA**
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
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

WELL CONCENTRATIONS
Shell-branded Service Station
3790 Hopyard Road
Pleasanton, CA

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)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
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	28.4	9.84	176	132	1,780	NA	328.53	13.24	315.29	4.8
S-4	06/15/2000	<500	NA	12.0	<5.00	31.0	22.8	12,200	NA	328.53	13.65	314.88	2.1
S-4	11/29/2000	<500	NA	<5.00	<5.00	<5.00	<5.00	12,100	NA	328.53	14.23	314.30	1.8
S-4	03/07/2001	<500	NA	5.44	<5.00	6.49	<5.00	11,400	14,500	328.53	13.15	315.38	2.4
S-4	06/18/2001	<1,000	NA	<10	<10	<10	<10	NA	3,500	328.53	13.81	314.72	NA
S-4	09/17/2001	<500	NA	<5.0	<5.0	<5.0	<5.0	NA	7,700	328.53	14.29	314.24	NA
S-4	12/31/2001	<1,000	NA	<10	<10	<10	<10	NA	3,800	328.53	13.44	315.09	NA
S-4	03/13/2002	<2,500	NA	<25	<25	<25	<25	NA	18,000	328.53	14.42	314.11	NA
S-4	06/18/2002	<100	NA	1.1	<1.0	<1.0	<1.0	NA	530	328.53	15.19	313.34	NA
S-4	09/27/2002	<200	NA	<2.0	<2.0	<2.0	<2.0	NA	1,100	328.11	14.32	313.79	NA
S-4	**12/27/2002**	**280**	**NA**	**3.5**	**<2.5**	**17**	**4.7**	**NA**	**390**	**328.11**	**13.50**	**314.61**	**NA**
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

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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
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	1.44	<0.500	<0.500	<0.500	336	NA	329.66	13.56	316.10	1.4
S-5	06/15/2000	<50.0	NA	0.820	<0.500	<0.500	<0.500	221	NA	329.66	15.00	314.66	2.7
S-5	11/29/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	183	NA	329.66	16.29	313.37	0.7
S-5	03/07/2001	<50.0	NA	<0.500	<0.500	<0.500	<0.500	7.55	NA	329.66	15.49	314.17	2.5
S-5	06/18/2001	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	11	329.66	15.50	314.16	NA
S-5	09/17/2001	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	17	329.66	16.35	313.31	NA
S-5	12/31/2001	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	329.66	12.80	316.86	NA
S-5	03/13/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	93	329.66	16.32	313.34	NA
S-5	06/18/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	130	329.66	17.00	312.66	NA
S-5	09/27/2002	<50	NA	0.88	<0.50	<0.50	<0.50	NA	280	329.36	16.34	313.02	NA
S-5	**12/27/2002**	**<50**	**NA**	**1.9**	**<0.50**	**<0.50**	**<0.50**	**NA**	**87**	**329.36**	**15.45**	**313.91**	**NA**
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

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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	19.9	NA	327.62	14.21	313.41	1.6
S-6	06/15/2000	367	NA	17.5	<0.500	<0.500	<0.500	1,050	NA	327.62	14.51	313.11	1.8
S-6	11/29/2000	154	NA	0.754	16.4	<0.500	1.05	5,470	NA	327.62	14.32	313.30	2.1
S-6	03/07/2001	183	NA	0.971	25.1	0.636	0.996	6,830	NA	327.62	15.39	312.23	1.7
S-6	06/18/2001	<2,000	NA	<20	<20	<20	<20	NA	8,200	327.62	14.72	312.90	NA
S-6	09/17/2001 c	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	5.7	327.62	16.69	310.93	NA
S-6	12/31/2001	260	NA	<0.50	<0.50	<0.50	<0.50	NA	11,000	327.62	13.99	313.63	NA
S-6	03/13/2002	440	NA	<2.5	<2.5	<2.5	<2.5	NA	930	327.62	15.10	312.52	NA
S-6	06/18/2002	340	NA	<1.0	<1.0	<1.0	<1.0	NA	560	327.62	15.24	312.38	NA
S-6	09/27/2002	<250	NA	<2.5	<2.5	<2.5	<2.5	NA	580	327.26	14.34	312.92	NA
S-6	**12/27/2002**	**<500**	**NA**	**<5.0**	**<5.0**	**<5.0**	**<5.0**	**NA**	**230**	**327.26**	**14.30**	**312.96**	**NA**
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
S-7	09/05/1991	<50	NA	<0.5	0.6	<0.5	<0.5	NA	NA	328.67	NA	NA	NA

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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	<.050	<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-7	06/15/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	7.32	NA	328.67	16.14	312.53	2.0
S-7	11/29/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	328.67	16.89	311.78	3.6
S-7	03/07/2001	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	328.67	16.55	312.12	2.1
S-7	06/18/2001	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	2.5	328.67	16.30	312.37	NA
S-7	09/17/2001 c	150	NA	<0.50	55	<0.50	<0.50	NA	8,300	328.67	14.23	314.44	NA
S-7	12/31/2001	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	328.67	16.28	312.39	NA
S-7	03/13/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	5.9	328.67	17.41	311.26	NA
S-7	06/18/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	12	328.67	17.63	311.04	NA
S-7	09/27/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	10	328.41	16.96	311.45	NA
S-7	**12/27/2002**	**<50**	**NA**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**NA**	**22**	**328.41**	**16.00**	**312.41**	**NA**
S-8	03/20/1991	<50a	NA	0.8	1.8	2.6	5.2	NA	NA	327.00	NA	NA	NA

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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
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-8	06/15/2000	Well inaccessible		NA	NA	NA	NA	NA	NA	327.00	NA	NA	NA
S-8	06/21/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	21.0	NA	327.00	14.43	312.57	NA
S-8	11/29/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	9.46	NA	327.00	14.44	312.56	2.2
S-8	03/07/2001	<50.0	NA	<0.500	<0.500	<0.500	<0.500	4.21	NA	327.00	13.69	313.31	2.1
S-8	06/18/2001	<50	NA	0.55	0.92	<0.50	0.51	NA	13	327.00	14.60	312.40	NA
S-8	09/17/2001	Unable to sample		NA	NA	NA	NA	NA	NA	327.00	15.07	311.93	NA
S-8	09/18/2001	Unable to sample		NA	NA	NA	NA	NA	NA	327.00	NA	NA	NA
S-8	12/31/2001	<50	NA	1.1	1.4	<0.50	<0.50	NA	8.4	327.00	14.02	312.98	NA
S-8	03/13/2002	Unable to sample		NA	NA	NA	NA	NA	NA	327.00	14.92	312.08	NA
S-8	06/18/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	19	327.00	15.37	311.63	NA

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S-8	09/27/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	19	326.14	14.60	311.54	NA
S-8	**12/27/2002**	**Well inaccessible**		**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**326.14**	**NA**	**NA**	**NA**
S-8	**01/07/2003**	**Well inaccessible**		**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**326.14**	**NA**	**NA**	**NA**
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	15.3	NA	328.24	16.47	311.77	1.9
S-9	06/15/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	57.2	NA	328.24	16.11	312.13	1.1
S-9	11/29/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	76.5	NA	328.24	17.30	310.94	1.1
S-9	03/07/2001	<50.0	NA	<0.500	<0.500	<0.500	<0.500	84.9	NA	328.24	19.42	308.82	1.1

WELL CONCENTRATIONS
Shell-branded Service Station
3790 Hopyard Road
Pleasanton, CA

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)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
S-9	06/18/2001	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	86	328.24	17.22	311.02	NA
S-9	09/17/2001	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	130	328.24	17.66	310.58	NA
S-9	12/31/2001	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	120	328.24	17.65	310.59	NA
S-9	03/13/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	130	328.24	17.75	310.49	NA
S-9	06/18/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	160	328.24	19.59	308.65	NA
S-9	09/27/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	180	327.85	17.65	310.20	NA
S-9	**12/27/2002**	**<50**	**NA**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**NA**	**180**	**327.85**	**18.45**	**309.40**	**NA**
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	2.8	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
S-10	06/15/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	326.55	13.27	313.28	2.1

WELL CONCENTRATIONS
Shell-branded Service Station
3790 Hopyard Road
Pleasanton, CA

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)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
S-10	11/29/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	326.55	13.98	312.57	2.4
S-10	03/07/2001	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	326.55	13.40	313.15	2.5
S-10	06/18/2001	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	3.7	326.55	13.29	313.26	NA
S-10	09/17/2001	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	326.55	13.61	312.94	NA
S-10	12/31/2001	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	326.55	13.48	313.07	NA
S-10	03/13/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	326.55	14.66	311.89	NA
S-10	06/18/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	326.55	14.59	311.96	NA
S-10	09/27/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	325.87	13.21	312.66	NA
S-10	**12/27/2002**	**<50**	**NA**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**NA**	**<5.0**	**325.87**	**13.50**	**312.37**	**NA**
S-11	09/23/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	16.93	NA	NA
S-11	09/27/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	16.95	NA	NA
S-11	**12/27/2002**	**<50**	**NA**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**NA**	**<5.0**	**327.48**	**16.40**	**311.08**	**NA**
S-12	09/23/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	14.74	NA	NA
S-12	09/27/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	17.95	NA	NA
S-12	**12/27/2002**	**<50**	**NA**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**NA**	**<5.0**	**322.76**	**16.92**	**305.84**	**NA**
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-1	12/31/2001	NA	NA	NA	NA	NA	NA	NA	NA	329.78	15.31	314.47	NA
SR-1	03/11/2002 d	NA	NA	NA	NA	NA	NA	NA	NA	329.13	NA	NA	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-2	12/31/2001	NA	NA	NA	NA	NA	NA	NA	NA	328.35	13.62	314.73	NA
SR-2	09/27/2002	<1,000	NA	<10	<10	<10	<10	NA	5,000	327.91	14.20	313.71	NA

WELL CONCENTRATIONS
Shell-branded Service Station
3790 Hopyard Road
Pleasanton, CA

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)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
SR-2	**12/27/2002**	**<1,000**	**NA**	**<10**	**<10**	**<10**	**<10**	**NA**	**4,800**	**327.91**	**13.33**	**314.58**	**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
SR-3	12/31/2001	NA	NA	NA	NA	NA	NA	NA	NA	329.11	13.60	315.51	NA
SR-3	09/27/2002	<2,500	NA	<25	<25	<25	<25	NA	11,000	328.65	14.75	313.90	NA
SR-3	**12/27/2002**	**<2,000**	**NA**	**<20**	**<20**	**<20**	**<20**	**NA**	**5,100**	**328.65**	**13.65**	**315.00**	**NA**
T-1	06/18/2002	<5,000	NA	<50	<50	<50	<50	NA	20,000	NA	12.31	NA	NA
T-2	09/17/2001	<5,000	NA	<25	<25	<25	<25	NA	29,000	NA	11.48	NA	NA
T-2	12/31/2001	<5,000	NA	<50	<50	<50	<50	NA	31,000	NA	4.96	NA	NA
T-2	03/13/2002	<5,000	NA	<50	<50	<50	<50	NA	48,000	NA	9.76	NA	NA
T-2	06/18/2002	<20,000	NA	<200	<200	<200	<200	NA	100,000	NA	12.58	NA	NA
T-2	09/27/2002	240	NA	0.55	2.8	1.8	2.6	NA	39	NA	8.15	NA	NA
T-2	**12/27/2002**	**2,100**	**NA**	**7.8**	**17**	**<0.50**	**11**	**NA**	**790**	**NA**	**6.75**	**NA**	**NA**
T-3	06/18/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	Dry	NA	NA
T-4	06/18/2002	<10,000	NA	<100	<100	<100	<200	NA	97,000	NA	13.50	NA	NA
T-4	**12/27/2002**	**550**	**NA**	**5.3**	**16**	**0.60**	**39**	**NA**	**140**	**NA**	**7.65**	**NA**	**NA**

WELL CONCENTRATIONS
Shell-branded Service Station
3790 Hopyard Road
Pleasanton, CA

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)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)

Abbreviations:
TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B; prior to June 18, 2001, analyzed by EPA Method 8015.
BTEX = benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B; prior to June 18, 2001, analyzed by EPA Method 8020.
MTBE = Methyl-tertiary-butyl ether
TOB = Top of Wellbox Elevation
TOC = Top of Casing Elevation
SPH = Separate-Phase Hydrocarbons
GW = Groundwater
DO = Dissolved Oxygen
ppm = Parts per million
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
b = This sample was analyzed outside of the EPA recommended holding time.
c = Samples for wells S-6 and S-7 may have been switched.
d = Survey date only.
Well T-2 is a backfill well.
Beginning September 23, 2002, depth to water referenced to Top of Casing.
All wells except S-11, S-12, and T-1 through T-4 surveyed March 11, 2002, by Virgil Chavez Land Surveying of Vallejo, California.

KIFF ANALYTICAL LLC

Report Number : 30654
Date : 02/12/2003

Leon Gearhart
Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112-1105

Subject : 14 Water Samples
Project Name : 3790 Hopyard Rd., Pleasanton
Project Number : 021227-SS1
P.O. Number : 98995842

Dear Mr. Gearhart,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Joel Kiff

Joel Kiff

KIFF ANALYTICAL LLC

Report Number : 30654
Date : 02/12/2003

Subject : 14 Water Samples
Project Name : 3790 Hopyard Rd., Pleasanton
Project Number : 021227-SS1
P.O. Number : 98995842

Case Narrative

Matrix Spike/Matrix Spike Duplicate Results associated with samples S-6, S-4 for the analytes Methyl-t-butyl ether and Tert-butanol were affected by the analyte concentrations already present in the un-spiked sample.

Approved By: Joel Kiff

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 30654

Date : 02/12/2003

Project Name : **3790 Hopyard Rd., Pleasanton**

Project Number : **021227-SS1**

Sample : **S-2** Matrix : Water Lab Number : 30654-01

Sample Date :12/27/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 10**	10	ug/L	EPA 8260B	01/03/2003
Toluene	**< 10**	10	ug/L	EPA 8260B	01/03/2003
Ethylbenzene	**< 10**	10	ug/L	EPA 8260B	01/03/2003
Total Xylenes	**< 10**	10	ug/L	EPA 8260B	01/03/2003
Methyl-t-butyl ether (MTBE)	**4300**	10	ug/L	EPA 8260B	01/03/2003
Diisopropyl ether (DIPE)	**< 10**	10	ug/L	EPA 8260B	01/03/2003
Ethyl-t-butyl ether (ETBE)	**< 10**	10	ug/L	EPA 8260B	01/03/2003
Tert-amyl methyl ether (TAME)	**< 10**	10	ug/L	EPA 8260B	01/03/2003
Tert-Butanol	**5600**	100	ug/L	EPA 8260B	01/03/2003
TPH as Gasoline	**< 1000**	1000	ug/L	EPA 8260B	01/03/2003
1,2-Dichloroethane	**< 10**	10	ug/L	EPA 8260B	01/03/2003
1,2-Dibromoethane	**< 10**	10	ug/L	EPA 8260B	01/03/2003
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	01/03/2003
4-Bromofluorobenzene (Surr)	98.6		% Recovery	EPA 8260B	01/03/2003
Dibromofluoromethane (Surr)	107		% Recovery	EPA 8260B	01/03/2003
1,2-Dichloroethane-d4 (Surr)	99.7		% Recovery	EPA 8260B	01/03/2003

Joel Kiff

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 30654
Date : 02/12/2003

Project Name : **3790 Hopyard Rd., Pleasanton**
Project Number : **021227-SS1**

Sample : **S-3** Matrix : Water Lab Number : 30654-02
Sample Date :12/27/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	12/31/2002
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	12/31/2002
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	12/31/2002
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	12/31/2002
Methyl-t-butyl ether (MTBE)	**< 5.0**	5.0	ug/L	EPA 8260B	12/31/2002
Diisopropyl ether (DIPE)	**< 2.0**	2.0	ug/L	EPA 8260B	12/31/2002
Ethyl-t-butyl ether (ETBE)	**< 2.0**	2.0	ug/L	EPA 8260B	12/31/2002
Tert-amyl methyl ether (TAME)	**< 2.0**	2.0	ug/L	EPA 8260B	12/31/2002
Tert-Butanol	**< 50**	50	ug/L	EPA 8260B	12/31/2002
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	12/31/2002
1,2-Dichloroethane	**< 2.0**	2.0	ug/L	EPA 8260B	12/31/2002
1,2-Dibromoethane	**< 2.0**	2.0	ug/L	EPA 8260B	12/31/2002
Toluene - d8 (Surr)	99.9		% Recovery	EPA 8260B	12/31/2002
4-Bromofluorobenzene (Surr)	98.1		% Recovery	EPA 8260B	12/31/2002
Dibromofluoromethane (Surr)	102		% Recovery	EPA 8260B	12/31/2002
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	EPA 8260B	12/31/2002

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 30654
Date : 02/12/2003

Project Name : **3790 Hopyard Rd., Pleasanton**
Project Number : **021227-SS1**

Sample : **S-4** Matrix : Water Lab Number : 30654-03
Sample Date :12/27/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**3.5**	2.5	ug/L	EPA 8260B	01/03/2003
Toluene	**< 2.5**	2.5	ug/L	EPA 8260B	01/03/2003
Ethylbenzene	**17**	2.5	ug/L	EPA 8260B	01/03/2003
Total Xylenes	**4.7**	2.5	ug/L	EPA 8260B	01/03/2003
Methyl-t-butyl ether (MTBE)	**390**	5.0	ug/L	EPA 8260B	01/03/2003
Diisopropyl ether (DIPE)	**< 2.5**	2.5	ug/L	EPA 8260B	01/03/2003
Ethyl-t-butyl ether (ETBE)	**< 2.5**	2.5	ug/L	EPA 8260B	01/03/2003
Tert-amyl methyl ether (TAME)	**< 5.0**	5.0	ug/L	EPA 8260B	01/03/2003
Tert-Butanol	**9000**	50	ug/L	EPA 8260B	01/03/2003
TPH as Gasoline	**280**	250	ug/L	EPA 8260B	01/03/2003
1,2-Dichloroethane	**< 2.5**	2.5	ug/L	EPA 8260B	01/03/2003
1,2-Dibromoethane	**< 2.5**	2.5	ug/L	EPA 8260B	01/03/2003
Toluene - d8 (Surr)	97.5		% Recovery	EPA 8260B	01/03/2003
4-Bromofluorobenzene (Surr)	104		% Recovery	EPA 8260B	01/03/2003
Dibromofluoromethane (Surr)	100		% Recovery	EPA 8260B	01/03/2003
1,2-Dichloroethane-d4 (Surr)	102		% Recovery	EPA 8260B	01/03/2003

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 30654

Date : 02/12/2003

Project Name : **3790 Hopyard Rd., Pleasanton**

Project Number : **021227-SS1**

Sample : **S-5** Matrix : Water Lab Number : 30654-04

Sample Date :12/27/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**1.9**	0.50	ug/L	EPA 8260B	12/31/2002
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	12/31/2002
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	12/31/2002
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	12/31/2002
Methyl-t-butyl ether (MTBE)	**87**	5.0	ug/L	EPA 8260B	12/31/2002
Diisopropyl ether (DIPE)	**< 2.0**	2.0	ug/L	EPA 8260B	12/31/2002
Ethyl-t-butyl ether (ETBE)	**< 2.0**	2.0	ug/L	EPA 8260B	12/31/2002
Tert-amyl methyl ether (TAME)	**< 2.0**	2.0	ug/L	EPA 8260B	12/31/2002
Tert-Butanol	**< 50**	50	ug/L	EPA 8260B	12/31/2002
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	12/31/2002
1,2-Dichloroethane	**< 2.0**	2.0	ug/L	EPA 8260B	12/31/2002
1,2-Dibromoethane	**< 2.0**	2.0	ug/L	EPA 8260B	12/31/2002
Toluene - d8 (Surr)	98.6		% Recovery	EPA 8260B	12/31/2002
4-Bromofluorobenzene (Surr)	96.3		% Recovery	EPA 8260B	12/31/2002
Dibromofluoromethane (Surr)	101		% Recovery	EPA 8260B	12/31/2002
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	EPA 8260B	12/31/2002

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 30654
Date : 02/12/2003

Project Name : **3790 Hopyard Rd., Pleasanton**
Project Number : **021227-SS1**

Sample : **S-6** Matrix : Water Lab Number : 30654-05
Sample Date :12/27/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 5.0**	5.0	ug/L	EPA 8260B	01/03/2003
Toluene	**< 5.0**	5.0	ug/L	EPA 8260B	01/03/2003
Ethylbenzene	**< 5.0**	5.0	ug/L	EPA 8260B	01/03/2003
Total Xylenes	**< 5.0**	5.0	ug/L	EPA 8260B	01/03/2003
Methyl-t-butyl ether (MTBE)	**230**	5.0	ug/L	EPA 8260B	01/03/2003
Diisopropyl ether (DIPE)	**< 5.0**	5.0	ug/L	EPA 8260B	01/03/2003
Ethyl-t-butyl ether (ETBE)	**< 5.0**	5.0	ug/L	EPA 8260B	01/03/2003
Tert-amyl methyl ether (TAME)	**< 5.0**	5.0	ug/L	EPA 8260B	01/03/2003
Tert-Butanol	**10000**	50	ug/L	EPA 8260B	01/03/2003
TPH as Gasoline	**< 500**	500	ug/L	EPA 8260B	01/03/2003
1,2-Dichloroethane	**< 5.0**	5.0	ug/L	EPA 8260B	01/03/2003
1,2-Dibromoethane	**< 5.0**	5.0	ug/L	EPA 8260B	01/03/2003
Toluene - d8 (Surr)	103		% Recovery	EPA 8260B	01/03/2003
4-Bromofluorobenzene (Surr)	98.3		% Recovery	EPA 8260B	01/03/2003
Dibromofluoromethane (Surr)	103		% Recovery	EPA 8260B	01/03/2003
1,2-Dichloroethane-d4 (Surr)	99.2		% Recovery	EPA 8260B	01/03/2003

Joel Kiff

Approved By: Joel Kiff

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KIFF ANALYTICAL LLC

Report Number : 30654
Date : 02/12/2003

Project Name : **3790 Hopyard Rd., Pleasanton**
Project Number : **021227-SS1**

Sample : **S-7** Matrix : Water Lab Number : 30654-06
Sample Date :12/27/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	12/31/2002
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	12/31/2002
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	12/31/2002
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	12/31/2002
Methyl-t-butyl ether (MTBE)	**22**	5.0	ug/L	EPA 8260B	12/31/2002
Diisopropyl ether (DIPE)	**< 2.0**	2.0	ug/L	EPA 8260B	12/31/2002
Ethyl-t-butyl ether (ETBE)	**< 2.0**	2.0	ug/L	EPA 8260B	12/31/2002
Tert-amyl methyl ether (TAME)	**< 2.0**	2.0	ug/L	EPA 8260B	12/31/2002
Tert-Butanol	**< 50**	50	ug/L	EPA 8260B	12/31/2002
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	12/31/2002
1,2-Dichloroethane	**4.1**	2.0	ug/L	EPA 8260B	12/31/2002
1,2-Dibromoethane	**< 2.0**	2.0	ug/L	EPA 8260B	12/31/2002
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	12/31/2002
4-Bromofluorobenzene (Surr)	98.3		% Recovery	EPA 8260B	12/31/2002
Dibromofluoromethane (Surr)	101		% Recovery	EPA 8260B	12/31/2002
1,2-Dichloroethane-d4 (Surr)	99.7		% Recovery	EPA 8260B	12/31/2002

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KIFF ANALYTICAL LLC

Report Number : 30654
Date : 02/12/2003

Project Name : **3790 Hopyard Rd., Pleasanton**
Project Number : **021227-SS1**

Sample : **S-9** Matrix : Water Lab Number : 30654-07
Sample Date :12/27/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	12/31/2002
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	12/31/2002
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	12/31/2002
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	12/31/2002
Methyl-t-butyl ether (MTBE)	**180**	5.0	ug/L	EPA 8260B	12/31/2002
Diisopropyl ether (DIPE)	**< 2.0**	2.0	ug/L	EPA 8260B	12/31/2002
Ethyl-t-butyl ether (ETBE)	**< 2.0**	2.0	ug/L	EPA 8260B	12/31/2002
Tert-amyl methyl ether (TAME)	**< 2.0**	2.0	ug/L	EPA 8260B	12/31/2002
Tert-Butanol	**< 50**	50	ug/L	EPA 8260B	12/31/2002
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	12/31/2002
1,2-Dichloroethane	**2.8**	2.0	ug/L	EPA 8260B	12/31/2002
1,2-Dibromoethane	**< 2.0**	2.0	ug/L	EPA 8260B	12/31/2002
Toluene - d8 (Surr)	99.6		% Recovery	EPA 8260B	12/31/2002
4-Bromofluorobenzene (Surr)	98.7		% Recovery	EPA 8260B	12/31/2002
Dibromofluoromethane (Surr)	101		% Recovery	EPA 8260B	12/31/2002
1,2-Dichloroethane-d4 (Surr)	100		% Recovery	EPA 8260B	12/31/2002

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Report Number : 30654
Date : 02/12/2003

Project Name : **3790 Hopyard Rd., Pleasanton**
Project Number : **021227-SS1**

Sample : **S-10** Matrix : Water Lab Number : 30654-08
Sample Date :12/27/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	12/31/2002
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	12/31/2002
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	12/31/2002
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	12/31/2002
Methyl-t-butyl ether (MTBE)	**< 5.0**	5.0	ug/L	EPA 8260B	12/31/2002
Diisopropyl ether (DIPE)	**< 2.0**	2.0	ug/L	EPA 8260B	12/31/2002
Ethyl-t-butyl ether (ETBE)	**< 2.0**	2.0	ug/L	EPA 8260B	12/31/2002
Tert-amyl methyl ether (TAME)	**< 2.0**	2.0	ug/L	EPA 8260B	12/31/2002
Tert-Butanol	**< 50**	50	ug/L	EPA 8260B	12/31/2002
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	12/31/2002
1,2-Dichloroethane	**< 2.0**	2.0	ug/L	EPA 8260B	12/31/2002
1,2-Dibromoethane	**< 2.0**	2.0	ug/L	EPA 8260B	12/31/2002
Toluene - d8 (Surr)	98.8		% Recovery	EPA 8260B	12/31/2002
4-Bromofluorobenzene (Surr)	98.6		% Recovery	EPA 8260B	12/31/2002
Dibromofluoromethane (Surr)	101		% Recovery	EPA 8260B	12/31/2002
1,2-Dichloroethane-d4 (Surr)	103		% Recovery	EPA 8260B	12/31/2002

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Report Number : 30654
Date : 02/12/2003

Project Name : **3790 Hopyard Rd., Pleasanton**
Project Number : **021227-SS1**

Sample : **S-11** Matrix : Water Lab Number : 30654-09
Sample Date :12/27/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	12/31/2002
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	12/31/2002
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	12/31/2002
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	12/31/2002
Methyl-t-butyl ether (MTBE)	**< 5.0**	5.0	ug/L	EPA 8260B	12/31/2002
Diisopropyl ether (DIPE)	**< 2.0**	2.0	ug/L	EPA 8260B	12/31/2002
Ethyl-t-butyl ether (ETBE)	**< 2.0**	2.0	ug/L	EPA 8260B	12/31/2002
Tert-amyl methyl ether (TAME)	**< 2.0**	2.0	ug/L	EPA 8260B	12/31/2002
Tert-Butanol	**< 50**	50	ug/L	EPA 8260B	12/31/2002
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	12/31/2002
1,2-Dichloroethane	**< 2.0**	2.0	ug/L	EPA 8260B	12/31/2002
1,2-Dibromoethane	**< 2.0**	2.0	ug/L	EPA 8260B	12/31/2002
Toluene - d8 (Surr)	98.9		% Recovery	EPA 8260B	12/31/2002
4-Bromofluorobenzene (Surr)	99.5		% Recovery	EPA 8260B	12/31/2002
Dibromofluoromethane (Surr)	101		% Recovery	EPA 8260B	12/31/2002
1,2-Dichloroethane-d4 (Surr)	102		% Recovery	EPA 8260B	12/31/2002

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Report Number : 30654
Date : 02/12/2003

Project Name : **3790 Hopyard Rd., Pleasanton**
Project Number : **021227-SS1**

Sample : **S-12** Matrix : Water Lab Number : 30654-10
Sample Date :12/27/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	12/31/2002
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	12/31/2002
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	12/31/2002
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	12/31/2002
Methyl-t-butyl ether (MTBE)	**< 5.0**	5.0	ug/L	EPA 8260B	12/31/2002
Diisopropyl ether (DIPE)	**< 2.0**	2.0	ug/L	EPA 8260B	12/31/2002
Ethyl-t-butyl ether (ETBE)	**< 2.0**	2.0	ug/L	EPA 8260B	12/31/2002
Tert-amyl methyl ether (TAME)	**< 2.0**	2.0	ug/L	EPA 8260B	12/31/2002
Tert-Butanol	**< 50**	50	ug/L	EPA 8260B	12/31/2002
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	12/31/2002
1,2-Dichloroethane	**< 2.0**	2.0	ug/L	EPA 8260B	12/31/2002
1,2-Dibromoethane	**< 2.0**	2.0	ug/L	EPA 8260B	12/31/2002
Toluene - d8 (Surr)	99.6		% Recovery	EPA 8260B	12/31/2002
4-Bromofluorobenzene (Surr)	98.7		% Recovery	EPA 8260B	12/31/2002
Dibromofluoromethane (Surr)	100		% Recovery	EPA 8260B	12/31/2002
1,2-Dichloroethane-d4 (Surr)	98.7		% Recovery	EPA 8260B	12/31/2002

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Report Number : 30654
Date : 02/12/2003

Project Name : **3790 Hopyard Rd., Pleasanton**
Project Number : **021227-SS1**

Sample : **T-2** Matrix : Water Lab Number : 30654-11
Sample Date :12/27/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**7.8**	0.50	ug/L	EPA 8260B	12/31/2002
Toluene	**17**	0.50	ug/L	EPA 8260B	12/31/2002
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	12/31/2002
Total Xylenes	**11**	0.50	ug/L	EPA 8260B	12/31/2002
Methyl-t-butyl ether (MTBE)	**790**	5.0	ug/L	EPA 8260B	01/02/2003
Diisopropyl ether (DIPE)	**< 2.0**	2.0	ug/L	EPA 8260B	12/31/2002
Ethyl-t-butyl ether (ETBE)	**< 2.0**	2.0	ug/L	EPA 8260B	12/31/2002
Tert-amyl methyl ether (TAME)	**2.7**	2.0	ug/L	EPA 8260B	12/31/2002
Tert-Butanol	**1200**	50	ug/L	EPA 8260B	12/31/2002
TPH as Gasoline	**2100**	50	ug/L	EPA 8260B	12/31/2002
1,2-Dichloroethane	**< 2.0**	2.0	ug/L	EPA 8260B	12/31/2002
1,2-Dibromoethane	**< 2.0**	2.0	ug/L	EPA 8260B	12/31/2002
Toluene - d8 (Surr)	103		% Recovery	EPA 8260B	12/31/2002
4-Bromofluorobenzene (Surr)	99.1		% Recovery	EPA 8260B	12/31/2002
Dibromofluoromethane (Surr)	100		% Recovery	EPA 8260B	12/31/2002
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	EPA 8260B	12/31/2002

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KIFF ANALYTICAL LLC

Report Number : 30654
Date : 02/12/2003

Project Name : **3790 Hopyard Rd., Pleasanton**
Project Number : **021227-SS1**

Sample : **T-4** Matrix : Water Lab Number : 30654-12
Sample Date :12/27/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**5.3**	0.50	ug/L	EPA 8260B	01/02/2003
Toluene	**16**	0.50	ug/L	EPA 8260B	01/02/2003
Ethylbenzene	**0.60**	0.50	ug/L	EPA 8260B	01/02/2003
Total Xylenes	**39**	0.50	ug/L	EPA 8260B	01/02/2003
Methyl-t-butyl ether (MTBE)	**140**	5.0	ug/L	EPA 8260B	01/02/2003
Diisopropyl ether (DIPE)	**< 2.0**	2.0	ug/L	EPA 8260B	01/02/2003
Ethyl-t-butyl ether (ETBE)	**< 2.0**	2.0	ug/L	EPA 8260B	01/02/2003
Tert-amyl methyl ether (TAME)	**< 2.0**	2.0	ug/L	EPA 8260B	01/02/2003
Tert-Butanol	**120**	50	ug/L	EPA 8260B	01/02/2003
TPH as Gasoline	**550**	50	ug/L	EPA 8260B	01/02/2003
1,2-Dichloroethane	**< 2.0**	2.0	ug/L	EPA 8260B	01/02/2003
1,2-Dibromoethane	**< 2.0**	2.0	ug/L	EPA 8260B	01/02/2003
Toluene - d8 (Surr)	103		% Recovery	EPA 8260B	01/02/2003
4-Bromofluorobenzene (Surr)	99.8		% Recovery	EPA 8260B	01/02/2003
Dibromofluoromethane (Surr)	108		% Recovery	EPA 8260B	01/02/2003
1,2-Dichloroethane-d4 (Surr)	102		% Recovery	EPA 8260B	01/02/2003

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Report Number : 30654
Date : 02/12/2003

Project Name : **3790 Hopyard Rd., Pleasanton**
Project Number : **021227-SS1**

Sample : **SR-2** Matrix : Water Lab Number : 30654-13
Sample Date :12/27/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 10**	10	ug/L	EPA 8260B	01/03/2003
Toluene	**< 10**	10	ug/L	EPA 8260B	01/03/2003
Ethylbenzene	**< 10**	10	ug/L	EPA 8260B	01/03/2003
Total Xylenes	**< 10**	10	ug/L	EPA 8260B	01/03/2003
Methyl-t-butyl ether (MTBE)	**4800**	10	ug/L	EPA 8260B	01/03/2003
Diisopropyl ether (DIPE)	**< 10**	10	ug/L	EPA 8260B	01/03/2003
Ethyl-t-butyl ether (ETBE)	**< 10**	10	ug/L	EPA 8260B	01/03/2003
Tert-amyl methyl ether (TAME)	**< 10**	10	ug/L	EPA 8260B	01/03/2003
Tert-Butanol	**1600**	100	ug/L	EPA 8260B	01/03/2003
TPH as Gasoline	**< 1000**	1000	ug/L	EPA 8260B	01/03/2003
1,2-Dichloroethane	**< 10**	10	ug/L	EPA 8260B	01/03/2003
1,2-Dibromoethane	**< 10**	10	ug/L	EPA 8260B	01/03/2003
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	01/03/2003
4-Bromofluorobenzene (Surr)	99.6		% Recovery	EPA 8260B	01/03/2003
Dibromofluoromethane (Surr)	108		% Recovery	EPA 8260B	01/03/2003
1,2-Dichloroethane-d4 (Surr)	104		% Recovery	EPA 8260B	01/03/2003

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KIFF ANALYTICAL LLC

Report Number : 30654
Date : 02/12/2003

Project Name : **3790 Hopyard Rd., Pleasanton**
Project Number : **021227-SS1**

Sample : **SR-3** Matrix : Water Lab Number : 30654-14
Sample Date :12/27/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 20**	20	ug/L	EPA 8260B	01/03/2003
Toluene	**< 20**	20	ug/L	EPA 8260B	01/03/2003
Ethylbenzene	**< 20**	20	ug/L	EPA 8260B	01/03/2003
Total Xylenes	**< 20**	20	ug/L	EPA 8260B	01/03/2003
Methyl-t-butyl ether (MTBE)	**5100**	20	ug/L	EPA 8260B	01/03/2003
Diisopropyl ether (DIPE)	**< 20**	20	ug/L	EPA 8260B	01/03/2003
Ethyl-t-butyl ether (ETBE)	**< 20**	20	ug/L	EPA 8260B	01/03/2003
Tert-amyl methyl ether (TAME)	**< 20**	20	ug/L	EPA 8260B	01/03/2003
Tert-Butanol	**4600**	200	ug/L	EPA 8260B	01/03/2003
TPH as Gasoline	**< 2000**	2000	ug/L	EPA 8260B	01/03/2003
1,2-Dichloroethane	**< 20**	20	ug/L	EPA 8260B	01/03/2003
1,2-Dibromoethane	**< 20**	20	ug/L	EPA 8260B	01/03/2003
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	01/03/2003
4-Bromofluorobenzene (Surr)	99.0		% Recovery	EPA 8260B	01/03/2003
Dibromofluoromethane (Surr)	108		% Recovery	EPA 8260B	01/03/2003
1,2-Dichloroethane-d4 (Surr)	99.5		% Recovery	EPA 8260B	01/03/2003

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Report Number : 30654

Date : 02/12/2003

QC Report : Method Blank Data

Project Name : **3790 Hopyard Rd., Pleasanton**

Project Number : **021227-SS1**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/30/2002
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/30/2002
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/30/2002
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/30/2002
Methyl-t-butyl ether (MTBE)	< 5.0	5.0	ug/L	EPA 8260B	12/30/2002
Diisopropyl ether (DIPE)	< 2.0	2.0	ug/L	EPA 8260B	12/30/2002
Ethyl-t-butyl ether (ETBE)	< 2.0	2.0	ug/L	EPA 8260B	12/30/2002
Tert-amyl methyl ether (TAME)	< 2.0	2.0	ug/L	EPA 8260B	12/30/2002
Tert-Butanol	< 50	50	ug/L	EPA 8260B	12/30/2002
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/30/2002
1,2-Dichloroethane	< 2.0	2.0	ug/L	EPA 8260B	12/30/2002
1,2-Dibromoethane	< 2.0	2.0	ug/L	EPA 8260B	12/30/2002
Toluene - d8 (Surr)	98.4		%	EPA 8260B	12/30/2002
4-Bromofluorobenzene (Surr)	99.2		%	EPA 8260B	12/30/2002
Dibromofluoromethane (Surr)	101		%	EPA 8260B	12/30/2002
1,2-Dichloroethane-d4 (Surr)	102		%	EPA 8260B	12/30/2002
Benzene	< 0.50	0.50	ug/L	EPA 8260B	01/02/2003
Toluene	< 0.50	0.50	ug/L	EPA 8260B	01/02/2003
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	01/02/2003
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	01/02/2003
Methyl-t-butyl ether (MTBE)	< 5.0	5.0	ug/L	EPA 8260B	01/02/2003
Diisopropyl ether (DIPE)	< 2.0	2.0	ug/L	EPA 8260B	01/02/2003
Ethyl-t-butyl ether (ETBE)	< 2.0	2.0	ug/L	EPA 8260B	01/02/2003
Tert-amyl methyl ether (TAME)	< 2.0	2.0	ug/L	EPA 8260B	01/02/2003
Tert-Butanol	< 50	50	ug/L	EPA 8260B	01/02/2003
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	01/02/2003
1,2-Dichloroethane	< 2.0	2.0	ug/L	EPA 8260B	01/02/2003
1,2-Dibromoethane	< 2.0	2.0	ug/L	EPA 8260B	01/02/2003
Toluene - d8 (Surr)	103		%	EPA 8260B	01/02/2003
4-Bromofluorobenzene (Surr)	99.2		%	EPA 8260B	01/02/2003
Dibromofluoromethane (Surr)	107		%	EPA 8260B	01/02/2003
1,2-Dichloroethane-d4 (Surr)	102		%	EPA 8260B	01/02/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	01/02/2003
Toluene	< 0.50	0.50	ug/L	EPA 8260B	01/02/2003
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	01/02/2003
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	01/02/2003
Methyl-t-butyl ether (MTBE)	< 5.0	5.0	ug/L	EPA 8260B	01/02/2003
Diisopropyl ether (DIPE)	< 2.0	2.0	ug/L	EPA 8260B	01/02/2003
Ethyl-t-butyl ether (ETBE)	< 2.0	2.0	ug/L	EPA 8260B	01/02/2003
Tert-amyl methyl ether (TAME)	< 2.0	2.0	ug/L	EPA 8260B	01/02/2003
Tert-Butanol	< 50	50	ug/L	EPA 8260B	01/02/2003
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	01/02/2003
1,2-Dichloroethane	< 2.0	2.0	ug/L	EPA 8260B	01/02/2003
1,2-Dibromoethane	< 2.0	2.0	ug/L	EPA 8260B	01/02/2003
Toluene - d8 (Surr)	103		%	EPA 8260B	01/02/2003
4-Bromofluorobenzene (Surr)	98.8		%	EPA 8260B	01/02/2003
Dibromofluoromethane (Surr)	108		%	EPA 8260B	01/02/2003
1,2-Dichloroethane-d4 (Surr)	101		%	EPA 8260B	01/02/2003
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/31/2002
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/31/2002
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/31/2002
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/31/2002
Methyl-t-butyl ether (MTBE)	< 5.0	5.0	ug/L	EPA 8260B	12/31/2002
Diisopropyl ether (DIPE)	< 2.0	2.0	ug/L	EPA 8260B	12/31/2002
Ethyl-t-butyl ether (ETBE)	< 2.0	2.0	ug/L	EPA 8260B	12/31/2002
Tert-amyl methyl ether (TAME)	< 2.0	2.0	ug/L	EPA 8260B	12/31/2002
Tert-Butanol	< 50	50	ug/L	EPA 8260B	12/31/2002
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/31/2002
1,2-Dichloroethane	< 2.0	2.0	ug/L	EPA 8260B	12/31/2002
1,2-Dibromoethane	< 2.0	2.0	ug/L	EPA 8260B	12/31/2002
Toluene - d8 (Surr)	99.1		%	EPA 8260B	12/31/2002
4-Bromofluorobenzene (Surr)	97.8		%	EPA 8260B	12/31/2002
Dibromofluoromethane (Surr)	102		%	EPA 8260B	12/31/2002
1,2-Dichloroethane-d4 (Surr)	102		%	EPA 8260B	12/31/2002

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St. Suite 300 Davis. CA 95616 530-297-4800

Report Number : 30654

Date : 02/12/2003

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **3790 Hopyard Rd.,**

Project Number : **021227-SS1**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Benzene	30641-26	<0.50	40.0	40.0	40.3	38.9	ug/L	EPA 8260B	12/30/02	101	97.3	3.58	70-130	25
Toluene	30641-26	<0.50	40.0	40.0	38.3	36.9	ug/L	EPA 8260B	12/30/02	95.8	92.2	3.80	70-130	25
Tert-Butanol	30641-26	<5.0	200	200	207	204	ug/L	EPA 8260B	12/30/02	103	102	1.66	70-130	25
Methyl-t-Butyl Ether	30641-26	8.5	40.0	40.0	45.7	45.6	ug/L	EPA 8260B	12/30/02	93.0	92.6	0.404	70-130	25
Benzene	30648-03	180	40.0	40.0	221	221	ug/L	EPA 8260B	1/2/03	105	104	0.334	70-130	25
Toluene	30648-03	38	40.0	40.0	72.0	74.9	ug/L	EPA 8260B	1/2/03	83.9	91.0	8.12	70-130	25
Tert-Butanol	30648-03	2100	200	200	2340	2260	ug/L	EPA 8260B	1/2/03	120	78.8	41.3	70-130	25
Methyl-t-Butyl Ether	30648-03	2600	40.0	40.0	2550	2650	ug/L	EPA 8260B	1/2/03	0.00	13.9	200	70-130	25
Benzene	30654-12	5.3	40.0	40.0	44.6	43.3	ug/L	EPA 8260B	1/2/03	98.4	95.0	3.54	70-130	25
Toluene	30654-12	16	40.0	40.0	55.9	54.2	ug/L	EPA 8260B	1/2/03	100	96.5	4.14	70-130	25
Tert-Butanol	30654-12	120	200	200	316	313	ug/L	EPA 8260B	1/2/03	96.9	95.2	1.80	70-130	25
Methyl-t-Butyl Ether	30654-12	140	40.0	40.0	185	186	ug/L	EPA 8260B	1/2/03	104	106	2.15	70-130	25
Benzene	30649-10	<0.50	40.0	40.0	40.9	39.8	ug/L	EPA 8260B	12/31/02	102	99.4	2.85	70-130	25
Toluene	30649-10	<0.50	40.0	40.0	39.8	37.7	ug/L	EPA 8260B	12/31/02	99.5	94.3	5.36	70-130	25
Tert-Butanol	30649-10	<5.0	200	200	197	190	ug/L	EPA 8260B	12/31/02	98.6	95.1	3.63	70-130	25
Methyl-t-Butyl Ether	30649-10	6.2	40.0	40.0	49.2	50.0	ug/L	EPA 8260B	12/31/02	108	109	1.73	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 30654

Date : 02/12/2003

QC Report : Laboratory Control Sample (LCS)

Project Name : **3790 Hopyard Rd.,**

Project Number : **021227-SS1**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	12/30/02	89.0	70-130
Toluene	40.0	ug/L	EPA 8260B	12/30/02	90.4	70-130
Tert-Butanol	200	ug/L	EPA 8260B	12/30/02	93.9	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	12/30/02	87.3	70-130
Benzene	40.0	ug/L	EPA 8260B	1/2/03	97.0	70-130
Toluene	40.0	ug/L	EPA 8260B	1/2/03	96.8	70-130
Tert-Butanol	200	ug/L	EPA 8260B	1/2/03	102	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	1/2/03	104	70-130
Benzene	40.0	ug/L	EPA 8260B	1/2/03	96.9	70-130
Toluene	40.0	ug/L	EPA 8260B	1/2/03	96.4	70-130
Tert-Butanol	200	ug/L	EPA 8260B	1/2/03	95.4	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	1/2/03	99.8	70-130
Benzene	40.0	ug/L	EPA 8260B	12/31/02	102	70-130
Toluene	40.0	ug/L	EPA 8260B	12/31/02	102	70-130
Tert-Butanol	200	ug/L	EPA 8260B	12/31/02	99.2	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	12/31/02	95.8	70-130

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St. Suite 300 Davis, CA 95616 530-297-4800

Lab Identification (if necessary):

Address:

City, State, Zip:

Shell Project Manager to be invoiced: Karen Petryna

☑ SCIENCE & ENGINEERING ☐ TECHNICAL SERVICES ☐ CRMT HOUSTON

30654

INCIDENT NUMBER (S&E ONLY): 9 8 9 9 5 8 4 2

SAP or CRMT NUMBER (TS/CRMT):

DATE: 12/27/02

PAGE: 1 of 2

SAMPLING COMPANY: Blaine Tech Services	LOG CODE: BTSS	SITE ADDRESS (Street and City): 3790 Hopyard Rd., Pleasanton	GLOBAL ID NO.: T0600101257
ADDRESS: 1680 Rogers Avenue, San Jose, CA 95112		EDF DELIVERABLE TO (Responsible Party or Designee): Anni Kreml	PHONE NO.: (510) 420-3335
PROJECT CONTACT (Hardcopy or PDF Report to): Leon Gearhart		E-MAIL: ShellOaklandEDF@cambria-env.com	CONSULTANT PROJECT NO.: BTS # 020227-55
TELEPHONE: 408-573-0555	FAX: 408-573-7771	E-MAIL: lgearhart@blainetech.com	SAMPLER NAME(S) (Print): SUCHEON SUNG

TURNAROUND TIME (BUSINESS DAYS): ☒ 10 DAYS ☐ 5 DAYS ☐ 72 HOURS ☐ 48 HOURS ☐ 24 HOURS ☐ LESS THAN 24 HOURS

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

GC/MS MTBE CONFIRMATION: HIGHEST _____ HIGHEST per BORING _____ ALL _____

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NOT NEEDED ☐

*NON-PRESERVED VOAS USED FOR S-7, S-9, AND S-12

LAB USE ONLY

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (5) by (8260B)	Ethanol (8260B)	Methanol	EDB & 1,2-DCA (8260B)	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes / TEMPERATURE ON RECEIPT C°
	S-2	12/27/02	1240	GW	3	X	X	X		X			X	-01
	S-3		1220			X	X	X		X			X	-02
	S-4		1235			X	X	X		X			X	-03
	S-5		1208			X	X	X		X			X	-04
	S-6		913			X	X	X		X			X	-05
	S-7		852			X	X	X		X			X	*NON REF. VOAS -06
	S-9		830			X	X	X		X			X	*NON REF. VOAS -07
	S-10		1022			X	X	X		X			X	-08
	S-11		1000			X	X	X		X			X	-09
	S-12	↓	943	↓	↓	X	X	X		X			X	*NON R. VOAS -10

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature) John Cuttle/Kiff Analytical	Date: 12/30/02	Time: 1114

DISTRIBUTION: White with final report, Green to File, Yellow and Pink to Client.

10/16/00 Revision

Q&Q Graphic (714) 898-9702

Lab Identification (if necessary):

Address:

City, State, Zip:

Shell Project Manager to be invoiced: Karen Petryna

☑ SCIENCE & ENGINEERING ☐ TECHNICAL SERVICES ☐ CRMT HOUSTON

30654

INCIDENT NUMBER (S&E ONLY): 98995584

SAP or CRMT NUMBER (TS/CRMT):

DATE: 12/27/02

PAGE: 2 of 2

SAMPLING COMPANY:	LOG CODE:	SITE ADDRESS (Street and City):	GLOBAL ID NO.:
Blaine Tech Services	BTSS	3790 Hopyard Rd., Pleasanton	T0600101257

ADDRESS:	EDF DELIVERABLE TO (Responsible Party or Designee):	PHONE NO.:	E-MAIL:	CONSULTANT PROJECT NO.:
1680 Rogers Avenue, San Jose, CA 95112	Anni Kremt	(510) 420-3335	ShellOaklandEDF@cambria-env.com	BTS # 021227S1

PROJECT CONTACT (Hardcopy or PDF Report to):	TELEPHONE:	FAX:	E-MAIL:	SAMPLER NAME(S) (Print):
Leon Gearhart	408-573-0555	408-573-7771	lgearhart@blainetech.com	Guchteon Guug

LAB USE ONLY

TURNAROUND TIME (BUSINESS DAYS): ☒ 10 DAYS ☐ 5 DAYS ☐ 72 HOURS ☐ 48 HOURS ☐ 24 HOURS ☐ LESS THAN 24 HOURS

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY: _____

GC/MS MTBE CONFIRMATION: HIGHEST _____ HIGHEST per BORING _____ ALL _____

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NOT NEEDED ☐

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (5) by (8260B)	Ethanol (8260B)	Methanol	EDB & 1,2-DCA (8260B)	TEMPERATURE ON RECEIPT C°
	T-2	12/27/02	1150	GW	3	X	X	X		X			X	-11
	T-4	"	1201	"	"	X	X	X		X			X	-12
	SP-2	"	1225	"	"	X	X	X		X			X	-13
	SP-3	"	1228	"	"	X	X	X		X			X	-14

FIELD NOTES:

Container/Preservative or PID Readings or Laboratory Notes

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	John Cuttle / Kiff Analytical	123002	1114

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10/18/00 Revision

Q&Q Graphic (714) 898-9702

SHELL WELL MONITORING DATA SHEET

BTS #: 030107-DA-1	Site: 3790 Hopyard Rd Pleasanton, CA
Sampler: David A.	Date: 1/7/03
Well I.D.: S-8	Well Diameter: 2 3 4 6 8 ___
Total Well Depth (TD): —	Depth to Water (DTW): —
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

Purge Method: Bailer / Disposable Bailer / Middleburg / Electric Submersible / Waterra / Peristaltic / Extraction Pump / Other_____

Sampling Method: Bailer / Disposable Bailer / Extraction Port / Dedicated Tubing / Other: _____

_____(Gals.) X _____ = _____ Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
	Parked over by White Van, Lic # 4S39664. Talked					
To 7-11 manager and (1970's-1980's) Farmers Insurance Rep. Building manager						
unavailable. No one knows the van's owner. went to DMV next door.						
only hire at information desk. Van appears to have been parked for						
sometime and may possibly be unable to be driven.						

Did well dewater? Yes No Gallons actually evacuated:

Sampling Date: Sampling Time: Depth to Water:

Sample I.D.: Laboratory: Kiff SPL Other_____

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

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

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

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL GAUGING DATA

Project # 021227-SS1 Date 12/27/02 Client SHELL

Site 3790 HOPYARD RD. PLEASANTON

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	
S-2	3					14.40	35.18		
S-3	3					12.55	35.50		
S-4	3					13.50	35.85		
S-5	3					15.45	35.85		
S-6	3					14.30	34.70		
S-7	3					16.00	35.20		
S-8	3	WELL FLOODED OVER. NO SAMPLE.				—	34.35		
S-9	3					18.45	35.25		
S-10	3					13.50	34.30		
S-11	2					16.40	25.10		
S-12	2					16.92	24.85		
T-2	6					6.75	13.15		
T-4	3					7.65	13.75		
SR-2	4					13.33	34.65		
SR-3	4					13.65	34.75		
GAUGED W/ STINGER IN WELL									

bailed water

SHELL WELL MONITORING DATA SHEET

BTS #: 021227-551	Site: SHELL 9899.5842
Sampler: SCOTT	Date: 12/27/02
Well I.D.: S-2	Well Diameter: 2 (3) 4 6 8 ___
Total Well Depth (TD): 35.18	Depth to Water (DTW): 14.40
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 18.55	

Purge Method: Bailer, Disposable Bailer, Middleburg, (Electric Submersible), Waterra, Peristaltic, Extraction Pump, Other_____

Sampling Method: (Bailer), Disposable Bailer, Extraction Port, Dedicated Tubing, Other:_____

7.7 (Gals.) X 3 = 23.1 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1201	67.5	6.7	2240	>200	7.7	TURBID/GAS ODOR
1203	68.4	6.8	2186	80	15.4	LESS TURBID
1205	68.3	6.8	2381	>200	23.1	TURBID

Did well dewater? Yes (No) Gallons actually evacuated: 23.1

Sampling Date: 12/27/02 Sampling Time: 1240 Depth to Water: 19.00

Sample I.D.: S-2 Laboratory: (Kiff) SPL Other_____

Analyzed for: (TPH-G BTEX MTBE) TPH-D Other: OXY'S BY 8260, EDB, 1,2-DCA BY 8260

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

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

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

SHELL WELL MONITORING DATA SHEET

BTS #: 021227-551	Site: SHELL 9899.5842
Sampler: Scott	Date: 12/27/02
Well I.D.: S-3	Well Diameter: 2 (3) 4 6 8 ___
Total Well Depth (TD): 35.50	Depth to Water (DTW): 12.55
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 17.14	

Purge Method: Bailer, Disposable Bailer, Middleburg, (Electric Submersible), Waterra, Peristaltic, Extraction Pump, Other_____

Sampling Method: (Bailer), Disposable Bailer, Extraction Port, Dedicated Tubing, Other:_____

6.5 (Gals.) X	3	= 25.5 Gals.
1 Case Volume	Specified Volumes	Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1050	67.8	6.6	3389	125	8.5	PURGED
1052	68.6	6.6	3681	84	17.0	LESS PURGED
1054	68.2	6.7	3912	>200	25.5	PURGED

Did well dewater? Yes (No) Gallons actually evacuated: 25.5

Sampling Date: 12/27/02 Sampling Time: 1220 Depth to Water: 12.10

Sample I.D.: S-3 Laboratory: (Kiff) SPL Other_____

Analyzed for: (TPH-G BTEX MTBE) TPH-D Other: OXY'S BY 8260, EDB, 1,2-DCA BY 8260

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

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

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

SHELL WELL MONITORING DATA SHEET

BTS #: 021227-SS1	Site: SHELL 9899.5842
Sampler: SCOTT	Date: 12/27/02
Well I.D.: S-4	Well Diameter: 2 (3) 4 6 8 ___
Total Well Depth (TD): 35.85	Depth to Water (DTW): 13.50
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 17.97	

Purge Method: Bailer; Disposable Bailer; Middleburg; (Electric Submersible); Waterra; Peristaltic; Extraction Pump; Other_____

Sampling Method: (Bailer); Disposable Bailer; Extraction Port; Dedicated Tubing; Other: _____

8.2 (Gals.) X 3 = 24.6 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1214	67.0	6.9	1845	>200	8.2	cloudy
1216	69.1	6.9	1067	>200	16.4	"
1218 1217	69.1	6.9	1502	>200	24.6	"

Did well dewater? Yes (No) Gallons actually evacuated: 24.6

Sampling Date: 12/27/02 Sampling Time: 1235 Depth to Water: 29.75 @ S.P departure

Sample I.D.: S-4 Laboratory: (Kiff) SPL Other_____

Analyzed for: (TPH-G BTEX MTBE TPH-D) Other: OXY's BY 8260, EDB, 1,2-DCA BY 8260

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

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

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

SHELL WELL MONITORING DATA SHEET

BTS #: 021227-551	Site: SHELL 9899.5842
Sampler: SCOTT	Date: 12/27/02
Well I.D.: S-5	Well Diameter: 2 (3) 4 6 8 ___
Total Well Depth (TD): 35.85	Depth to Water (DTW): 15.45
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 19.53	

Purge Method: Bailer / Disposable Bailer / Middleburg / (Electric Submersible) / Waterra / Peristaltic / Extraction Pump / Other_____

Sampling Method: (Bailer) / Disposable Bailer / Extraction Port / Dedicated Tubing / Other:_____

7.5 (Gals.) X	3	= 22.5 Gals.
1 Case Volume	Specified Volumes	Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1034	66.4	6.6	1572	>200	7.5	BROWN/ORANGE TINT
1036	67.4	6.6	1598	>200	15.0	MUDDY
1038	67.2	6.7	1597	170	22.5	LESS MUDDY

Did well dewater? Yes (No) Gallons actually evacuated: 22.5

Sampling Date: 12/27/02 Sampling Time: 1208 Depth to Water: 15.75

Sample I.D.: S-5 Laboratory: (Kiff) SPL Other_____

Analyzed for: (TPH-G BTEX MTBE) TPH-D Other: OXY'S BY 8260, EDB, 1,2-DCA BY 8260

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

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

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

LOOSE CAP.

SHELL WELL MONITORING DATA SHEET

BTS #: 021227-551	Site: SHELL 9899.5842
Sampler: SCOTT	Date: 12/27/02
Well I.D.: MW 5-6	Well Diameter: 2 (3) 4 6 8 ___
Total Well Depth (TD): 34.70	Depth to Water (DTW): 14.30
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 18.38	

Purge Method: Bailer, Disposable Bailer, Middleburg, (Electric Submersible), Waterra, Peristaltic, Extraction Pump, Other_____

Sampling Method: (Bailer), Disposable Bailer, Extraction Port, Dedicated Tubing, Other:_____

7.5 (Gals.) X 3 = 22.5 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
904	65.8	6.8	1729	176	7.5	TURBID
906	66.7	6.7	1744	>200	15.0	"
908	66.8	6.7	1782	>200	22.5	"

Did well dewater? Yes (No) Gallons actually evacuated: 22.5

Sampling Date: 12/27/02 Sampling Time: 913 Depth to Water: 27.70 TRAFFIC CONTROL

Sample I.D.: 5-6 Laboratory: (Kiff) SPL Other_____

Analyzed for: (TPH-G BTEX MTBE) TPH-D Other: OXY'S BY 8260, EDB, 1,2-DCA BY 8260

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

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

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

PUSHED LOCK - NEW CAP BAILED WATER

SHELL WELL MONITORING DATA SHEET

BTS #: 021227-551	Site: SHELL 9899.5842
Sampler: SCOTT	Date: 12/27/02
Well I.D.: S-7	Well Diameter: 2 (3) 4 6 8 ___
Total Well Depth (TD): 35.20	Depth to Water (DTW): 10.00
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 19.84	

Purge Method: Bailer, Disposable Bailer, Middleburg, (Electric Submersible), Waterra, Peristaltic, Extraction Pump, Other_____

Sampling Method: (Bailer), Disposable Bailer, Extraction Port, Dedicated Tubing, Other:_____

7 (Gals.) X 3 = 21 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (uS))	Turbidity (NTUs)	Gals. Removed	Observations
844	65.8	6.7	1491	144	7	TWEB1D
846	66.0	6.7	1315	194	14	"
848	66.7	6.7	1398	>200	21	"
REACTION IN VOA. USED NP.						

Did well dewater? Yes (No) Gallons actually evacuated: 21

Sampling Date: 12/27/02 Sampling Time: 852 Depth to Water: 27.00 TRAFFIC CONTROL

Sample I.D.: S-7 Laboratory: (Kiff) SPL Other_____

Analyzed for: (TPH-G BTEX MTBE TPH-D) Other: OXY'S BY 8260, EDB, 1,2-DCA BY 8260

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

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

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

NEW CAP.

SHELL WELL MONITORING DATA SHEET

BTS #: 021227-551	Site: SHELL 9899842
Sampler: SCOTT	Date: 12/27/02
Well I.D.: S-8	Well Diameter: 2 (3) 4 6 8 ___
Total Well Depth (TD): 34.35	Depth to Water (DTW): ___
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

Purge Method: Bailer, Disposable Bailer, Middleburg, (Electric Submersible), ~~Waterra~~, Peristaltic, Extraction Pump, Other ___

Sampling Method: (Bailer), Disposable Bailer, Extraction Port, Dedicated Tubing, Other: ___

___ (Gals.) X 3 = ___ Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
WELL PARKED OVER ALL DAY.				UNABLE TO ACCESS.		

Did well dewater? Yes No Gallons actually evacuated:

Sampling Date: 12/27/02 Sampling Time: Depth to Water:

Sample I.D.: S-8 Laboratory: (Kiff) SPL Other ___

Analyzed for: (TPH-G BTEX MTBE TPH-D) Other: OXY'S BY 8260, EDB, 1,2-DCA BY 8260

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

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

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

SHELL WELL MONITORING DATA SHEET

BTS #: 021227-SS1	Site: SHELL 9899.5842
Sampler: SCOTT	Date: 12/27/02
Well I.D.: S-9	Well Diameter: 2 (3) 4 6 8 ___
Total Well Depth (TD): 35.25	Depth to Water (DTW): 18.45
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 21.81	

Purge Method: Bailer, Disposable Bailer, Middleburg, (Electric Submersible), Waterra, Peristaltic, Extraction Pump, Other ___

Sampling Method: (Bailer), Disposable Bailer, Extraction Port, Dedicated Tubing, Other: ___

6.2 (Gals.) X 3 = 18.6 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (uS))	Turbidity (NTUs)	Gals. Removed	Observations
820	65.7	6.6	3160	54	6.2	CLEAR
821	66.5	6.6	3098	48	12.4	"
822	66.5	6.6	3083	59	18.6	"
REACTION IN VOA. USED NP.						

Did well dewater? Yes (No) Gallons actually evacuated: 18.6

Sampling Date: 12/27/02 Sampling Time: 830 Depth to Water: 21.75

Sample I.D.: S-9 Laboratory: (KIFF) SPL Other ___

Analyzed for: (TPH-G BTEX MTBE) TPH-D Other: OXY'S BY 8260, EDB, 1,2-DCA BY 8260

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

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

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

SHELL WELL MONITORING DATA SHEET

BTS #: 021227-551	Site: SHELL 9899.5842
Sampler: SCOTT	Date: 12/27/02
Well I.D.: S-10	Well Diameter: 2 (3) 4 6 8 ___
Total Well Depth (TD): 34.30	Depth to Water (DTW): 13.50
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 17.66	

Purge Method: Bailer, Disposable Bailer, Middleburg, (Electric Submersible), Waterra, Peristaltic, Extraction Pump, Other_____

Sampling Method: (Bailer), Disposable Bailer, Extraction Port, Dedicated Tubing, Other:_____

7.7 (Gals.) X 3 = 23.1 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1015	65.6	6.9	1182	>200	7.7	TURBID
1017	66.4	6.8	1340	>200	15.4	"
1019	66.0	6.8	1322	>200	23.1	"

Did well dewater? Yes (No) Gallons actually evacuated: 23.1

Sampling Date: 12/27/02 Sampling Time: 1022 Depth to Water: 27.85 TRAFFIC CONTROL

Sample I.D.: S-10 Laboratory: (Kiff) SPL Other_____

Analyzed for: (TPH-G BTEX MTBE) TPH-D Other: OXY'S BY 8260, EDB, 1,2-DCA BY 8260

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

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

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

LOOSE CAP - NO KEY

SHELL WELL MONITORING DATA SHEET

BTS #: 021227-551	Site: SHELL 9899582
Sampler: Scott	Date: 12/27/02
Well I.D.: S-11	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 25.10	Depth to Water (DTW): 16.40
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 18.14	

Purge Method: (Bailer) / Disposable Bailer / Middleburg / Electric Submersible / Waterra / Peristaltic / Extraction Pump / Other_____

Sampling Method: (Bailer) / Disposable Bailer / Extraction Port / Dedicated Tubing / Other: _____

1.4 (Cals.) X	3	=	4.2 Gals.
1 Case Volume	Specified Volumes		Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1000	66.9	6.6	2176	>200	1.5	PURGED
1002	67.6	6.6	2308	>200	3.0	"
1004	67.1	6.6	2897	>200	4.5	"

Did well dewater? Yes (No) Gallons actually evacuated: 4.5

Sampling Date: 12/27/02 Sampling Time: 1006 Depth to Water: 21.70 TRAFFIC CONTROL

Sample I.D.: S-11 Laboratory: (Kiff) SPL Other_____

Analyzed for: (TPH-G BTEX MTBE TPH-D) Other: OXY's BY 8260, EDB, 1,2-DCA BY 8260

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

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

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

LOOSE CAP. DID NOT HAVE 2951 KEY.

SHELL WELL MONITORING DATA SHEET

BTS #: 021227-551	Site: SHELL 9899.5842
Sampler: Scott	Date: 12/27/02
Well I.D.: S-12	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): 24.85	Depth to Water (DTW): 16.92
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 18.51	

Purge Method: (Bailer) / Disposable Bailer / Middleburg / Electric Submersible / Waterra / Peristaltic / Extraction Pump / Other_____

Sampling Method: Bailer / ~~Disposable Bailer~~ / Extraction Port / Dedicated Tubing / Other: _____

1.3 (Gals.) X 3 = 3.9 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
935	64.6	6.7	2868	>200	1.3	BROWN
937	65.1	6.7	3018	>200	2.6	"
939	65.7	6.7	3052	>200	4.0	"
REACTOR IN VOA. USED NP.						

Did well dewater? Yes (No) Gallons actually evacuated: 4

Sampling Date: 12/27/02 Sampling Time: 943 Depth to Water: 18.47

Sample I.D.: S-12 Laboratory: (Kiff) SPL Other_____

Analyzed for: (TPH-G BTEX MTBE TPH-D) Other: OXY'S BY 8260, EDB, 1,2-DCA BY 8260

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

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

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

SHELL WELL MONITORING DATA SHEET

BTS #: 021227-551	Site: SHELL 9899.5842
Sampler: SCOTT	Date: 12/27/02
Well I.D.: T-2	Well Diameter: 2 3 4 (6) 8 ____
Total Well Depth (TD): 13.15	Depth to Water (DTW): 6.75
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 8.03	

Purge Method: Bailer; Disposable Bailer; Middleburg; (Electric Submersible); Waterra; Peristaltic; Extraction Pump; Other_____

Sampling Method: (Bailer); Disposable Bailer; Extraction Port; Dedicated Tubing; Other:

9.5 (Gals.) X 3 = 28.5 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1142	65.6	6.8	900	6	9.5	clear
1144	65.1	6.7	873	4	19.0	"
1146	65.3	MISSED READING	815	3	28.5	"

Did well dewater? Yes (No) Gallons actually evacuated: 28.5

Sampling Date: 12/27/02 Sampling Time: 1150 Depth to Water: 7.00

Sample I.D.: T-2 Laboratory: (Kiff) SPL Other_____

Analyzed for: (TPH-G BTEX MTBE TPH-D) Other: OXYS BY 8260, EDS, 1,2-DCA BY 8260

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

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

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL CASING LOOSE. CUT TOO LOW.

SHELL WELL MONITORING DATA SHEET

BTS #: 021227-551	Site: SHELL 9899.5842
Sampler: SCOTT	Date: 12/27/02
Well I.D.: T-4	Well Diameter: 2 (3) 4 6 8 ___
Total Well Depth (TD): 13.75	Depth to Water (DTW): 7.65
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 8.87	

Purge Method: Bailer, Disposable Bailer, Middleburg, (Electric Submersible), Waterra, Peristaltic, Extraction Pump, Other_____

Sampling Method: (Bailer), Disposable Bailer, Extraction Port, Dedicated Tubing, Other:_____

2.3 (Gals.) X 3 = 6.9 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1154	66.1	6.9	668	114	2.3	clear, black flakes
1155	65.5	6.8	445	30.3	4.6	" " "
1156	65.2	6.7	410	11.3	6.9	clear

Did well dewater? Yes (No) Gallons actually evacuated: 6.9

Sampling Date: 12/27/02 Sampling Time: 1201 Depth to Water: 7.68

Sample I.D.: T-4 Laboratory: (Kiff) SPL Other_____

Analyzed for: (TPH-G BTEX MTBE) TPH-D Other: OXYs BY 8260, EDB, 1,2-DCA BY 8260

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

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

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

SHELL WELL MONITORING DATA SHEET

BTS #: 02-1227-SS-1	Site: SHELL 9899.5842
Sampler: SCOTT	Date: 12/27/02
Well I.D.: SR-2	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 34.65	Depth to Water (DTW): 13.33
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 17.59	

Purge Method: Bailer; Disposable Bailer; Middleburg; (Electric Submersible); Waterra; Peristaltic; Extraction Pump; Other_____

Sampling Method: (Bailer); Disposable Bailer; Extraction Port; Dedicated Tubing; Other:_____

14 (Gals.) X	3	=	42 Gals.
1 Case Volume	Specified Volumes		Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1105	69.1	6.8	2011	>200	14	TURBID/GAS ODOR
1108	69.9	6.8	1966	>200	28	" "
1110	69.5	6.7	2211	>200	42	" "

Did well dewater? Yes (No) Gallons actually evacuated: 42

Sampling Date: 12/27/02 Sampling Time: 1225 Depth to Water: 14.10

Sample I.D.: SR-2 Laboratory: (Kiff) SPL Other_____

Analyzed for: (TPH-G BTEX MTBE) TPH-D Other: OXY'S BY 8260, EDB, 1,2-DCA BY 8260

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

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

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

No LOCK

SHELL WELL MONITORING DATA SHEET

BTS #: 021227-551	Site: SHELL 9899.5842
Sampler: Scott	Date: 12/27/02
Well I.D.: SP-3	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 34.75	Depth to Water (DTW): 13.65
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 17.87	

Purge Method: Bailer, Disposable Bailer, Middleburg, (Electric Submersible), Waterra, Peristaltic, Extraction Pump, Other_____

Sampling Method: (Bailer), Disposable Bailer, Extraction Port, Dedicated Tubing, Other:_____

14 (Gals.) X 3 = 42 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1124	69.9	6.7	1934	40	14	CLEAR/GAS ODOR
1127	70.5	6.7	1946	16	28	" "
1130	70.3	6.7	2008	11	42	" "

Did well dewater? Yes (No) Gallons actually evacuated: 42

Sampling Date: 12/27/02 Sampling Time: 1228 Depth to Water: 14.40

Sample I.D.: SP-3 Laboratory: (Kiff) SPL Other_____

Analyzed for: (TPH-G BTEX MTBE TPH-D) Other: OXY'S BY 8260, EDB, 1,2-DCA BY 8260

FB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

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

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

replace cap. bailed water