

October 15, 1996

still waiting for risk evaluation of  
residual HCs in soil.

**Mr. R. Jeff Granberry**  
Shell Oil Products Company  
P.O. Box 4023  
Concord, California 94524

**RE: Ground Water Monitoring Report - Third Quarter 1996**  
Former Shell Service Station  
7194 Amador Valley Boulevard  
Dublin, California  
WIC #204-2217-0105

Dear Mr. Granberry:

This Quarterly Monitoring Report describes the recently completed activities associated with ground water monitoring and sampling at the referenced site (Plate 1). This report was prepared to meet quarterly reporting guidelines issued by the Regional Water Quality Control Board, San Francisco Bay Region and the Alameda County Health Care Services Agency (ACHCSA).

### **Quarterly Monitoring & Sampling Summary**

Ground water monitoring and well sampling for the third quarter of 1996 are summarized below:

- Blaine Tech Services, Inc. measured water levels and collected ground water samples from Wells MW-1 through MW-4, MW-6, and MW-13. Ground water samples were transported to Sequoia Analytical (Sequoia) of Redwood City, California for laboratory analysis.
- Enviro, Inc. (Enviros) evaluated water-level measurement data and prepared a ground water contour map (Plate 2). Ground water flow direction across the Shell site is generally to the east with an approximate hydraulic gradient of 0.005.
- Wells MW-1 and MW-4 were ND for TPPH and benzene. Wells MW-2, MW-3, MW-6, MW-13 contained TPPH at concentrations ranging from ND to 980 ppb. Benzene concentrations in these wells ranged from 4.1 to 220 ppb. A benzene concentration map was prepared and is presented on Plate 2.

### **Third Quarter Sampling**

Monitoring Wells MW-1 through MW-4, MW-6 and MW-13 were sampled and analyzed for Total Purgeable Petroleum Hydrocarbons (TPPH) according to EPA Method 8015 (Modified), benzene, toluene, ethylbenzene and xylenes (BTEX) according to EPA Method

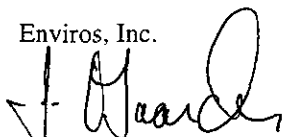
8020, and methyl-tertiary-butyl ether (MTBE) according to EPA Method 8020. Additionally, a duplicate sample and an equipment blank were prepared and analyzed for quality control purposes.

Field monitoring data and chemical analytical data are summarized in Table 1. The Blaine Tech Quarterly Ground Water Monitoring Report is presented in Appendix A.

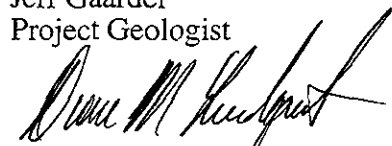
If you have any questions regarding the contents of this document, please call.

Sincerely,

Enviros, Inc.



Jeff Gaarder  
Project Geologist



Diane M. Lundquist, P.E.  
Senior Engineer  
C46725



Attachments

Table 1. Well Concentrations

Plate 1. Vicinity Map

Plate 2. Ground Water Contour/Benzene Concentration Map

Appendix A

Blaine Tech Quarterly Ground Water Monitoring Report

cc: Ms. Eva Chu, Alameda County Health Care Services

**TABLE 1**  
**WELL CONCENTRATIONS**  
**Shell Oil Products Company**  
**7194 Amador Valley Boulevard**  
**Dublin, California**  
**WIC #204-2277-0105**

Sample	Measured	Corrected	SP	TPPH	B	T	E	X	MTBE	Comments
Date	GW Depth (ft)	GW Elev (ft)	(ft)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	

MW-1	Top casing elevation (ft):		334.83							
9-May-88	8.72	326.11	0.00	440	120	50	NA	120	NA	
26-Aug-88	9.15	325.68	0.00	200000	4400	260	300	450	NA	
5-Oct-88	8.54	326.29	0.00	17000	6700	360	210	730	NA	
22-Nov-88	9.31	325.52	0.00	8000	3900	830	250	340	NA	
9-Dec-88	9.33	325.50	0.00	11000	790	36	7.3	68	NA	
13-Jan-89	NA	NA	NA	8800	3800	110	330	90	NA	
10-Feb-89	8.51	326.32	0.00	18000	4700	400	660	190	NA	
2-Mar-89	8.71	326.12	0.00	14000	6100	770	320	440	NA	
4-Apr-89	7.93	326.90	0.00	11000	4800	770	270	780	NA	
1-May-89	8.43	326.40	0.00	11000	2800	880	410	780	NA	
1-Jun-89	8.56	326.27	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
29-Jun-89	8.60	326.23	0.00	4700	310	160	75	260	NA	
9-Aug-89	8.43	326.40	0.00	12000	1300	620	830	680	NA	
11-Sep-89	8.65	326.18	0.00	<50	<0.5	<0.5	<0.5	2.2	NA	
10-Oct-89	8.52	326.31	0.00	8700	1100	310	180	590	NA	
25-Oct-89	8.56	326.27	0.00	7500	660	250	460	480	NA	
20-Dec-89	8.80	326.03	0.00	6200	270	110	260	220	NA	
17-Jan-90	8.47	326.36	0.00	7400	200	170	160	260	NA	
23-Feb-90	8.25	326.58	0.00	1500	130	13	30	24	NA	
4-Jun-90	8.62	326.21	0.00	830	88	10	2.6	28	NA	
20-Nov-90	9.50	325.33	0.00	NA	NA	NA	NA	NA	NA	
12-Feb-91	9.51	325.32	0.00	1500	180	39	82	110	NA	
6-May-91	8.34	326.49	0.00	510	41	11	25	35	NA	
28-Aug-91	9.28	325.55	0.00	450	41	16	24	34	NA	
13-Nov-91	9.59	325.24	0.00	320	41	14	23	33	NA	
25-Feb-92	7.49	327.34	0.00	240	24	9.2	14	20	NA	
12-May-92	8.64	326.19	0.00	320	60	25	29	41	NA	

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**Shell Oil Products Company**  
**7194 Amador Valley Boulevard**  
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**WIC #204-2277-0105**

Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
12-Aug-92	9.15	325.68	0.00	230	26	16	20	25	NA	
10-Nov-92	10.04	324.79	0.00	120	13	8.8	9	13	NA	
10-Feb-93	7.24	327.59	0.00	80	3.3	2.9	2.4	5.1	NA	
10-May-93	7.78	327.05	0.00	100	8.5	5.5	5.2	10	NA	
12-Aug-93	8.54	326.29	0.00	130	10	11	8.3	32	NA	
11-Nov-93	8.56	326.27	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
11-Feb-94	8.62	326.21	0.00	110	12	4.6	6.4	13	NA	
17-May-94	7.96	326.87	0.00	<50	0.53	<0.5	<0.5	0.71	NA	
25-Aug-94	9.24	325.59	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
23-Nov-94	8.74	326.09	0.00	<50	0.9	<0.5	<0.5	<0.5	NA	
15-Feb-95	6.84	327.99	0.00	330	2.7	1.3 <sup>b</sup>	1.5	2.3	NA	
24-May-95	7.91	326.92	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
25-Aug-95	8.11	326.72	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
26-Feb-96	5.60	329.23	0.00	<50	<0.5	0.6	<0.5	<0.5	NA	
23-Aug-96	8.23	326.60	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	

MW-2	Top casing elevation (ft):		336.96							
9-May-88	10.85	326.11	0.00	<50	<0.5	<0.5	NA	<0.5	NA	
26-Aug-88	11.29	325.67	0.00	1700	230	16	87	120	NA	
5-Oct-88	10.83	326.13	0.00	200	20	2.3	8.3	12	NA	
22-Nov-88	11.42	325.54	0.00	800	93	1.6	4.3	60	NA	
9-Dec-88	11.45	325.51	0.00	270	45	3.6	7.2	14	NA	
13-Jan-89	NA	NA	NA	180	26	2.3	17	7	NA	
10-Feb-89	10.74	326.22	0.00	320	43	1.7	34	15	NA	
2-Mar-89	10.91	326.05	0.00	230	24	0.9	9.2	18	NA	
4-Apr-89	10.06	326.90	0.00	230	53	2.3	7.1	20	NA	
1-May-89	10.58	326.38	0.00	<50	2.7	<0.5	<0.5	<0.5	NA	
1-Jun-89	10.73	326.23	0.00	120	14	<0.5	3.9	7.6	NA	

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Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
29-Jun-89	10.90	326.06	0.00	<50	4.1	<0.5	<0.5	<0.5	NA	
9-Aug-89	10.78	326.18	0.00	88	3.9	<0.5	<0.5	<0.5	NA	
11-Sep-89	10.97	325.99	0.00	<50	3.2	<0.5	<0.5	<0.5	NA	
10-Oct-89	10.88	326.08	0.00	110	6.7	<0.5	<0.5	<0.5	NA	
25-Oct-89	11.00	325.96	0.00	<50	2.5	<0.5	<0.5	1.9	NA	
20-Dec-89	11.06	325.90	0.00	<50	7.1	<0.5	5.0	9.8	NA	
17-Jan-90	10.78	326.18	0.00	<50	4.4	<0.5	1.6	1.4	NA	
23-Feb-90	10.35	326.61	0.00	70	6.3	<0.5	2.7	2.5	NA	
4-Jun-90	10.72	326.24	0.00	60	2.4	<0.5	0.8	<0.5	NA	
20-Nov-90	11.35	325.61	0.00	60	5.6	<0.5	<0.5	<0.5	NA	
12-Feb-91	11.64	325.32	0.00	130	14	<0.5	0.9	0.5	NA	
6-May-91	10.05	326.91	0.00	60	1.5	<0.5	5	<0.5	NA	
28-Aug-91	11.16	325.80	0.00	100	6.3	<0.5	1.0	1.1	NA	
13-Nov-91	11.57	325.39	0.00	<50	11	<0.5	1.3	<0.5	NA	
25-Feb-92	9.66	327.30	0.00	<50	3.8	<0.5	<0.5	<0.5	NA	
12-May-92	10.97	325.99	0.00	<50	6	<0.5	<0.5	<0.5	NA	
12-Aug-92	11.58	325.38	0.00	110	6.8	<0.5	1.0	<0.5	NA	
10-Nov-92	12.05	324.91	0.00	56	4.5	<0.5	<0.5	<0.5	NA	
10-Feb-93	9.28	327.68	0.00	81	4.8	0.6	1.4	1.9	NA	
10-May-93	9.65	327.31	0.00	90	0.8	0.8	0.6	3.2	NA	
12-Aug-93	10.70	326.26	0.00	420	61	18	21	53	NA	
11-Nov-93	11.36	325.60	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
11-Feb-94	11.04	325.92	0.00	<50	0.64	<0.5	<0.5	<0.5	NA	
17-May-94	10.29	326.67	0.00	<50	3.0	<0.5	<0.5	0.5	NA	
25-Aug-94	11.29	325.67	0.00	<50	17	<0.5	<0.5	<0.5	NA	
23-Nov-94	10.92	326.04	0.00	<50	9.3	<0.5	<0.5	<0.5	NA	
15-Feb-95	8.90	328.06	0.00	160	4.4	1.1 <sup>b</sup>	0.6	1.5	NA	
24-May-95	10.02	326.94	0.00	70	3.9	<0.5	1.4	<0.5	NA	

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Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
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25-Aug-95	10.24	326.72	0.00	<50	20	<0.5	<0.5	<0.5	NA	
26-Feb-96	7.54	329.42	0.00	<50	0.8	<0.5	<0.5	<0.5	NA	
23-Aug-96	10.29	326.67	0.00	<50	4.3	<0.50	<0.50	<0.50	<2.5	

MW-3	Top casing elevation (ft):		336.96							
9-May-88	10.59	326.37	0.00	76	10	4.4	NA	15	NA	
26-Aug-88	11.10	325.86	0.00	5200	170	6	32	54	NA	
5-Oct-88	10.43	326.53	0.00	260	100	2.7	5.8	7.0	NA	
22-Nov-88	11.16	325.80	0.00	180	75	1.4	8.1	4.0	NA	
9-Dec-88	11.24	325.72	0.00	160	5	5.9	<0.5	<0.5	NA	
13-Jan-89	NA	NA	NA	160	36	1.2	3	2.0	NA	
10-Feb-89	10.43	326.53	0.00	300	83	<0.5	8.6	8.0	NA	
2-Mar-89	10.59	326.37	0.00	570	160	1.0	17	9.0	NA	
4-Apr-89	9.45	327.51	0.00	150	64	0.8	2.7	6.0	NA	
1-May-89	10.20	326.76	0.00	130	48	1.2	3.4	2.0	NA	
1-Jun-89	10.40	326.56	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
29-Jun-89	10.60	326.36	0.00	90	68	0.7	<0.5	5.1	NA	
9-Aug-89	10.64	326.32	0.00	150	23	5.3	2.6	<0.5	NA	
11-Sep-89	10.83	326.13	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
10-Oct-89	10.95	326.01	0.00	80	6.4	0.72	<0.5	<0.5	NA	
25-Oct-89	10.86	326.10	0.00	150	11	<0.5	1.6	<0.5	NA	
20-Dec-89	11.09	325.87	0.00	<50	6.8	<0.5	<0.5	<0.5	NA	
17-Jan-90	10.90	326.06	0.00	<50	4.0	<0.5	6.8	<0.5	NA	
23-Feb-90	10.52	326.44	0.00	50	10	<0.5	1.2	0.9	NA	
4-Jun-90	10.52	326.44	0.00	80	10	<0.5	1.4	<0.5	NA	
20-Nov-90	12.65	324.31	0.00	100	26	0.7	1.2	1.9	NA	
12-Feb-91	11.16	325.80	0.00	130	27	<0.5	<0.5	<0.5	NA	
New top casing elevation (ft):		336.93								

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Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
6-May-91	9.85	327.08	0.00	120	31	0.8	2.1	0.8	NA	
28-Aug-91	10.90	326.03	0.00	340	87	1.1	6.5	3.8	NA	
13-Nov-91	11.28	325.65	0.00	240	140	<0.5	3.1	0.9	NA	
25-Feb-92	9.04	327.89	0.00	80	17	<0.5	<0.5	<0.5	NA	
12-May-92	10.50	326.43	0.00	74	31	<0.5	2.6	<0.5	NA	
12-Aug-92	10.94	325.99	0.00	160	24	0.5	2.9	<0.5	NA	
10-Nov-92	11.84	325.09	0.00	130	27	<0.5	1.1	0.9	NA	
10-Feb-93	8.82	328.11	0.00	92	5.7	<0.5	<0.5	<0.5	NA	
10-May-93	8.88	328.05	0.00	250	100	<0.5	<0.5	<0.5	NA	
12-Aug-93	10.36	326.57	0.00	380	110	16	13	43	NA	
11-Nov-93	10.64	326.29	0.00	170	35	8.0	29	9.2	NA	
11-Feb-94	10.68	326.25	0.00	76	23	<0.5	<0.5	<0.5	NA	
17-May-94	9.92	327.01	0.00	84	26	<0.5	2.2	<0.5	NA	
25-Aug-94	11.30	325.63	0.00	<50	7.7	<0.5	0.6	<0.5	NA	
23-Nov-94	10.48	326.45	0.00	<50	2.7	<0.5	<0.5	<0.5	NA	
15-Feb-95	8.35	328.58	0.00	50	19	0.9 <sup>b</sup>	1.4	1.5	NA	
24-May-95	9.67	327.26	0.00	380	200	1.7	<0.5	0.6	NA	
25-Aug-95	9.36	327.57	0.00	70	22	<0.5	4.1	<0.5	NA	
26-Feb-96	7.04	329.89	0.00	150	41	<0.5	7.8	0.8	NA	
23-Aug-96	10.00	326.93	0.00	<50	4.1	<0.50	2.0	<0.50	2.7	MTBE by 8260: <2.0 ppb (*)

MW-3 (DUP)										
10-Nov-92	NA	NA	NA	110	2.6	<0.5	1.1	0.7	NA	
10-Feb-93	NA	NA	NA	80	5.2	<0.5	<0.5	<0.5	NA	
10-May-93	NA	NA	NA	200	80	<0.5	2.4	<0.5	NA	
25-Aug-94	NA	NA	NA	<50	14	<0.5	1.5	<0.5	NA	
25-Aug-95	NA	NA	NA	70	37	<0.5	6.2	<0.5	NA	

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Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
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MW-4	Top casing elevation (ft):									
9-May-88	10.88	326.26	0.00	290	76	33	NA	150	NA	
26-Aug-88	11.34	325.80	0.00	210	640	41	110	160	NA	
5-Oct-88	10.87	326.27	0.00	450	110	6.3	16	20	NA	
22-Nov-88	11.41	325.73	0.00	500	110	4	20	27	NA	
9-Dec-88	11.46	325.68	0.00	260	920	7.5	5.9	11	NA	
13-Jan-89	NA	NA	NA	990	200	6.5	46	14	NA	
10-Feb-89	10.78	326.36	0.00	290	90	3.6	8.8	9	NA	
2-Mar-89	10.92	326.22	0.00	630	210	6.2	34	7	NA	
4-Apr-89	10.04	327.10	0.00	640	340	13	25	40	NA	
1-May-89	10.52	326.62	0.00	100	65	2	3	4	NA	
1-Jun-89	10.62	326.52	0.00	60	<0.5	<0.5	<0.5	<0.5	NA	
29-Jun-89	11.00	326.14	0.00	110	62	1.3	<0.5	4.8	NA	
9-Aug-89	10.92	326.22	0.00	160	110	2	6.4	<0.5	NA	
11-Sep-89	11.05	326.09	0.00	94	45	0.5	3.8	<0.5	NA	
10-Oct-89	10.97	326.17	0.00	90	30	1	1.9	<0.5	NA	
25-Oct-89	11.35	325.79	0.00	<50	3.4	<0.5	<0.5	<0.5	NA	
20-Dec-89	11.07	326.07	0.00	<50	35	1.1	3.6	1.6	NA	
17-Jan-90	11.08	326.06	0.00	<50	4.0	<0.5	6.8	<0.5	NA	
23-Feb-90	10.90	326.24	0.00	<50	8.0	<0.5	1.1	0.7	NA	
4-Jun-90	10.74	326.40	0.00	160	85	1.1	1.9	<0.5	NA	
20-Nov-90	11.45	325.69	0.00	140	52	1	0.8	0.9	NA	
12-Feb-91	11.50	325.64	0.00	130	48	<0.5	1.5	<0.5	NA	
6-May-91	10.04	327.10	0.00	140	49	1.3	4.1	1.7	NA	
28-Aug-91	11.18	325.96	0.00	90	13	<0.5	1	1.1	NA	
13-Nov-91	11.60	325.54	0.00	<50	10	<0.5	<0.5	<0.5	NA	
25-Feb-92	9.45	327.69	0.00	120	47	<0.5	0.5	0.5	NA	
12-May-92	10.84	326.30	0.00	NA	NA	NA	NA	NA	NA	Well now sampled semi-annually



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Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
12-Aug-92	11.36	325.78	0.00	<50	3.5	<0.5	<0.5	<0.5	NA	
10-Nov-92	12.12	325.02	0.00	NA	NA	NA	NA	NA	NA	
10-Feb-93	11.36	325.78	0.00	190	59	3.2	3.6	3.1	NA	
10-May-93	9.54	327.60	0.00	NA	NA	NA	NA	NA	NA	
12-Aug-93	10.68	326.46	0.00	50	4.1	1.1	1.3	3.2	NA	
11-Nov-93	11.97	325.17	0.00	NA	NA	NA	NA	NA	NA	
11-Feb-94	10.71	326.43	0.00	<50	0.62	<0.5	<0.5	<0.5	NA	
17-May-94	10.30	326.84	0.00	NA	NA	NA	NA	NA	NA	
25-Aug-94	10.84	326.30	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
23-Nov-94	10.78	326.36	0.00	NA	NA	NA	NA	NA	NA	
15-Feb-95	9.49	327.65	0.00	<50	13	0.9 <sup>b</sup>	<0.5	1.5	NA	
24-May-95	10.73	326.41	0.00	NA	NA	NA	NA	NA	NA	
25-Aug-95	10.22	326.92	0.00	<50	2.4	<0.5	<0.5	<0.5	NA	
26-Feb-96	7.52	329.62	0.00	<50	<0.5	<0.5	<0.5	0.7	NA	
23-Aug-96	9.84	327.30	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	
<b>MW-4 (DUP)</b>										
23-Aug-96	NA	NA	NA	<50	<0.50	<0.50	<0.50	<0.50	<2.5	
<b>MW-5</b>										
	<b>Top casing elevation (ft):</b>			<b>334.96</b>						
26-Aug-88	9.10	325.86	0.00	210	6.0	44.0	9.0	19.0	NA	
5-Oct-88	9.95	325.01	0.00	7500	2700	<0.5	110	590	NA	
22-Nov-88	8.93	326.03	0.00	150	21	26	3.0	2.0	NA	
9-Dec-88	10.48	324.48	0.00	240	37	2.2	6.7	7.7	NA	
13-Jan-89	NA	NA	NA	80	1.6	<0.5	7.7	2.0	NA	
10-Feb-89	10.35	324.61	0.00	60	<0.5	<0.5	<0.5	<0.5	NA	
2-Mar-89	8.50	326.46	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
4-Apr-89	7.72	327.24	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	

**TABLE 1**  
**WELL CONCENTRATIONS**  
**Shell Oil Products Company**  
**7194 Amador Valley Boulevard**  
**Dublin, California**  
**WIC #204-2277-0105**

Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
1-May-89	8.21	326.75	0.00	<50	1.3	<0.5	<0.5	<0.5	NA	
1-Jun-89	8.40	326.56	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
29-Jun-89	8.65	326.31	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
9-Aug-89	8.76	326.20	0.00	89	8.5	1.8	1.5	2.2	NA	
11-Sep-89	8.80	326.16	0.00	1100	7.8	1.4	<0.5	6.3	NA	
10-Oct-89	11.92	323.04	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
25-Oct-89	9.03	325.93	0.00	<50	1.4	<0.5	<0.5	1.6	NA	
20-Dec-89	11.26	323.70	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
17-Jan-90	9.95	325.01	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
23-Feb-90	8.30	326.66	0.00	<50	<0.5	<0.5	0.6	<0.5	NA	
4-Jun-90	8.57	326.39	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
20-Nov-90	9.45	325.51	0.00	<50	<0.5	<0.5	<0.5	1.0	NA	
12-Feb-91	9.27	325.69	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
6-May-91	7.90	327.06	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
28-Aug-91	9.28	325.68	0.00	<50	<0.5	<0.5	<0.5	1.0	NA	
13-Nov-91	9.36	325.60	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
25-Feb-92	9.02	325.94	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
12-May-92	8.65	326.31	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
12-Aug-92	9.40	325.56	0.00	56	0.5	<0.5	<0.5	<0.5	NA	
10-Nov-92	9.68	325.28	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
10-Feb-93	7.97	326.99	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
10-May-93	7.76	327.20	0.00	<50	1.5	<0.5	1.2	5.2	NA	
12-Aug-93	8.75	326.21	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
11-Nov-93	9.32	325.64	0.00	<50	12	<0.5	1.2	<0.5	NA	
11-Feb-94	8.97	325.99	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
17-May-94	8.12	326.84	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
25-Aug-94	9.19	325.77	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
23-Nov-94	8.78	326.18	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	

**TABLE 1**

**WELL CONCENTRATIONS  
Shell Oil Products Company  
7194 Amador Valley Boulevard  
Dublin, California  
WIC #204-2277-0105**

Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
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15-Feb-95	6.88	328.08	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
24-May-95	8.04	326.92	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
25-Aug-95	8.34	326.62	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	

MW-6	Top casing elevation (ft):	335.42								
26-Aug-88	9.69	325.73	0.00	15000	390	390	670	1700	NA	
5-Oct-88	9.27	326.15	0.00	2700	130	38	960	220	NA	
22-Nov-88	9.77	325.65	0.00	NA	NA	NA	NA	NA	NA	
9-Dec-88	9.85	325.57	0.00	540	62	3.0	26	5.0	NA	
13-Jan-89	NA	NA	NA	980	160	22	120	29	NA	
10-Feb-89	9.10	326.32	0.00	1900	290	24	93	48	NA	
2-Mar-89	9.29	326.13	0.00	1400	160	20	130	33	NA	
4-Apr-89	8.48	326.94	0.00	1200	220	27	74	69	NA	
1-May-89	8.90	326.52	0.00	790	120	11	25	17	NA	
1-Jun-89	9.16	326.26	0.00	1200	49	49	69	30	NA	
29-Jun-89	9.30	326.12	0.00	940	130	15	69	35	NA	
9-Aug-89	9.30	326.12	0.00	1400	280	39	170	64	NA	
11-Sep-89	9.31	326.11	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
10-Oct-89	9.32	326.10	0.00	1000	85	11	12	16	NA	
25-Oct-89	9.30	326.12	0.00	1500	67	20	50	39	NA	
20-Dec-89	9.58	325.84	0.00	<50	4.9	5.1	<0.5	<0.5	NA	
17-Jan-90	9.46	325.96	0.00	<50	67	12	48	18	NA	
23-Feb-90	8.94	326.48	0.00	1.0	150	16	47	30	NA	
4-Jun-90	9.22	326.20	0.00	190	<0.5	<0.5	<0.5	0.6	NA	
20-Nov-90	9.65	325.77	0.00	730	120	12	39	21	NA	
12-Feb-91	9.85	325.57	0.00	550	65	10	33	16	NA	
6-May-91	9.12	326.30	0.00	550	72	11	38	23	NA	
28-Aug-91	9.68	325.74	0.00	580	82	7.6	28	20	NA	

**TABLE 1**

**WELL CONCENTRATIONS  
Shell Oil Products Company  
7194 Amador Valley Boulevard  
Dublin, California  
WIC #204-2277-0105**

Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
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13-Nov-91	10.00	325.42	0.00	430	60	7.6	20	12	NA	
25-Feb-92	8.44	326.98	0.00	400	52	6.6	18	11	NA	
12-May-92	9.11	326.31	0.00	950	260	36	12	49	NA	
12-Aug-92	9.72	325.70	0.00	660	90	15	55	18	NA	
10-Nov-92	10.56	324.86	0.00	350	23	3.7	15	6.8	NA	
10-Feb-93	7.65	327.77	0.00	660	42	11	29	17	NA	
10-May-93	8.10	327.32	0.00	190	<0.5	<0.5	<0.5	<0.5	NA	
12-Aug-93	9.18	326.24	0.00	360	39	15	23	38	NA	
11-Nov-93	9.38	326.04	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
11-Feb-94	9.02	326.40	0.00	370	32	7.0	19	9.3	NA	
17-May-94	8.58	326.84	0.00	<50	42	13	33	22	NA	
25-Aug-94	9.79	325.63	0.00	190	0.6	<0.5	<0.5	<0.5	NA	
23-Nov-94	9.20	326.22	0.00	310	5.0	1.2	1.9	<0.5	NA	
15-Feb-95	7.36	328.06	0.00	360	46	11 <sup>b</sup>	19	18	NA	
24-May-95	8.80	326.62	0.00	280	22	<0.5	<0.5	<0.5	NA	
25-Aug-95	8.50	326.92	0.00	150	16	3.2	9.1	4.0	NA	
26-Feb-96	5.94	329.48	0.00	<50	1.1	0.6	0.6	<0.5	NA	
23-Aug-96	8.88	326.54	0.00	65	8.6	0.52	0.90	0.68	<2.5	

<b>MW-6 (DUP)</b>										
12-Aug-93	NA	NA	NA	330	43	16	23	40	NA	
24-May-95	NA	NA	NA	330	25	<0.5	<0.5	<0.5	NA	
26-Feb-96	NA	NA	NA	<50	1.9	0.8	1.3	<0.5	NA	

<b>MW-7</b>										
Top casing elevation (ft):				333.23						
26-Aug-88	7.94	325.29	0.00	<50	0.8	<0.5	<0.5	<0.5	NA	
5-Oct-88	7.54	325.69	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
22-Nov-88	NA	NA	NA	700	41	9.0	1.0	20	NA	

**TABLE 1**  
**WELL CONCENTRATIONS**  
**Shell Oil Products Company**  
**7194 Amador Valley Boulevard**  
**Dublin, California**  
**WIC #204-2277-0105**

Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
9-Dec-88	7.53	325.70	0.00	<50	<0.5	<0.5	<0.5	0.6	NA	
13-Jan-89	NA	NA	NA	<50	<0.5	<0.5	<0.5	<0.5	NA	
10-Feb-89	6.62	326.61	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
2-Mar-89	7.03	326.20	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
4-Apr-89	6.80	326.43	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
1-May-89	6.53	326.70	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
1-Jun-89	6.93	326.30	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
29-Jun-89	6.85	326.38	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
9-Aug-89	6.67	326.56	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
11-Sep-89	6.90	326.33	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
10-Oct-89	6.90	326.33	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
25-Oct-89	7.29	325.94	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
20-Dec-89	7.47	325.76	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
17-Jan-90	7.49	325.74	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
23-Feb-90	6.92	326.31	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
4-Jun-90	6.95	326.28	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
20-Nov-90	8.10	325.13	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
12-Feb-91	8.04	325.19	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
6-May-91	6.37	326.86	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
28-Aug-91	7.94	325.29	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
13-Nov-91	8.41	324.82	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
25-Feb-92	6.99	326.24	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
12-May-92	7.42	325.81	0.00	NA	NA	NA	NA	NA	NA	Well now sampled semi-annually
12-Aug-92	8.65	324.58	0.00	52	0.8	0.9	<0.5	<0.5	NA	
10-Nov-92	8.82	324.41	0.00	NA	NA	NA	NA	NA	NA	
10-Feb-93	6.06	327.17	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
10-May-93	6.68	326.55	0.00	NA	NA	NA	NA	NA	NA	
12-Aug-93	6.83	326.40	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	

**TABLE 1**  
**WELL CONCENTRATIONS**  
**Shell Oil Products Company**  
**7194 Amador Valley Boulevard**  
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**WIC #204-2277-0105**

Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
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11-Nov-93	6.90	326.33	0.00	NA	NA	NA	NA	NA	NA	
11-Feb-94	6.12	327.11	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
17-May-94	6.06	327.17	0.00	NA	NA	NA	NA	NA	NA	
25-Aug-94	6.76	326.47	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
23-Nov-94	6.75	326.48	0.00	NA	NA	NA	NA	NA	NA	
15-Feb-95	5.40	327.83	0.00	<50	1.9	1.5 <sup>b</sup>	<0.5	2.0	NA	
24-May-95	6.82	326.41	0.00	NA	NA	NA	NA	NA	NA	
25-Aug-95	6.46	326.77	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	

MW-8	Top casing elevation (ft):		335.80							
1-Mar-89	8.28	327.52	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
4-Apr-89	7.31	328.49	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
1-May-89	8.97	326.83	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
31-May-89	9.17	326.63	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
28-Jun-89	9.40	326.40	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
8-Aug-89	9.42	326.38	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
7-Sep-89	8.50	327.30	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
10-Oct-89	9.46	326.34	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
26-Oct-89	9.56	326.24	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
21-Dec-89	9.57	326.23	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
18-Jan-90	9.29	326.51	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
26-Feb-90	8.50	327.30	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
4-Jun-90	9.04	326.76	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
20-Nov-90	NA	NA	NA	<50	<0.5	<0.5	<0.5	<0.5	NA	
11-Feb-91	9.40	326.40	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
6-May-91	8.70	327.10	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
28-Aug-91	9.68	326.12	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
13-Nov-91	9.87	325.93	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	

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**WELL CONCENTRATIONS**  
**Shell Oil Products Company**  
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Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
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25-Feb-92	7.45	328.35	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
12-May-92	9.19	326.61	0.00	NA	NA	NA	NA	NA	NA	Well now sampled semi-annually
12-Aug-92	9.82	325.98	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
10-Nov-92	10.41	325.39	0.00	NA	NA	NA	NA	NA	NA	
10-Feb-93	7.35	328.45	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
10-May-93	8.00	327.80	0.00	NA	NA	NA	NA	NA	NA	
16-Sep-93	9.00	326.80	0.00	<50	0.7	<0.5	<0.5	1.4	NA	
11-Nov-93	9.47	326.33	0.00	NA	NA	NA	NA	NA	NA	
11-Feb-94	8.80	327.00	0.00	<50	1.3	<0.5	0.71	2.5	NA	
17-May-94	8.21	327.59	0.00	NA	NA	NA	NA	NA	NA	
25-Aug-94	9.52	326.28	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
23-Nov-94	9.08	326.72	0.00	NA	NA	NA	NA	NA	NA	
15-Feb-95	6.67	329.13	0.00	<50	<0.5	<0.5	<0.5	1.4	NA	
24-May-95	7.56	328.24	0.00	NA	NA	NA	NA	NA	NA	
25-Aug-95	8.60	327.20	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	

MW-9	Top casing elevation (ft):		334.57							
1-Mar-89	8.48	326.09	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
4-Apr-89	7.69	326.88	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
1-May-89	8.20	326.37	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
31-May-89	8.72	325.85	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
28-Jun-89	9.00	325.57	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
8-Aug-89	8.53	326.04	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
7-Sep-89	8.99	325.58	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
10-Oct-89	8.89	325.68	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
26-Oct-89	9.02	325.55	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
21-Dec-89	9.48	325.09	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
18-Jan-90	8.73	325.84	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	

**TABLE 1**  
**WELL CONCENTRATIONS**  
**Shell Oil Products Company**  
**7194 Amador Valley Boulevard**  
**Dublin, California**  
**WIC #204-2277-0105**

Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
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26-Feb-90	9.06	325.51	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
4-Jun-90	8.64	325.93	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
20-Nov-90	9.95	324.62	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
11-Feb-91	9.85	324.72	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
6-May-91	10.05	324.52	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
28-Aug-91	10.34	324.23	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
13-Nov-91	9.39	325.18	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
25-Feb-92	7.18	327.39	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
12-May-92	8.54	326.03	0.00	NA	NA	NA	NA	NA	NA	Well now sampled semi-annually
12-Aug-92	8.97	325.60	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
10-Nov-92	9.61	324.96	0.00	NA	NA	NA	NA	NA	NA	
10-Feb-93	7.20	327.37	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
10-May-93	7.56	327.01	0.00	NA	NA	NA	NA	NA	NA	
12-Aug-93	8.25	326.32	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
11-Nov-93	10.30	324.27	0.00	NA	NA	NA	NA	NA	NA	
11-Feb-94	8.88	325.69	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
17-May-94	8.06	326.51	0.00	NA	NA	NA	NA	NA	NA	
25-Aug-94	8.79	325.78	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
23-Nov-94	8.65	325.92	0.00	NA	NA	NA	NA	NA	NA	
15-Feb-95	7.36	327.21	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
24-May-95	7.75	326.82	0.00	NA	NA	NA	NA	NA	NA	
25-Aug-95	7.90	326.67	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	

MW-10	Top casing elevation (ft):		335.37							
2-Mar-89	8.95	326.42	0.00	1000	140	36	<0.5	77	NA	
4-Apr-89	7.89	327.48	0.00	3300	760	240	46	630	NA	
1-May-89	9.07	326.30	0.00	680	99	24	8.1	32	NA	
1-Jun-89	8.86	326.51	0.00	1400	120	39	<0.5	45	NA	



**TABLE 1**

**WELL CONCENTRATIONS  
Shell Oil Products Company  
7194 Amador Valley Boulevard  
Dublin, California  
WIC #204-2277-0105**

Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
29-Jun-89	9.05	326.32	0.00	1300	51	1.4	6.1	91	NA	
9-Aug-89	9.70	325.67	0.00	860	310	26	45	82	NA	
11-Sep-89	8.14	327.23	0.00	390	55	2.9	4	18	NA	
10-Oct-89	9.21	326.16	0.00	460	85	7.6	10	45	NA	
25-Oct-89	9.60	325.77	0.00	270	20	1.4	3.5	9.3	NA	
20-Dec-89	9.42	325.95	0.00	<50	5.7	<0.5	<0.5	<0.5	NA	
18-Jan-90	NA	NA	NA	NA	NA	NA	NA	NA	NA	
1-Jun-90	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Destroyed

MW-11	Top casing elevation (ft):		334.20							
2-Mar-89	8.30	325.90	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
4-Apr-89	7.52	326.68	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
1-May-89	7.97	326.23	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
31-May-89	8.13	326.07	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
28-Jun-89	8.30	325.90	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
8-Aug-89	8.22	325.98	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
7-Sep-89	8.32	325.88	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
9-Oct-89	8.28	325.92	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
24-Oct-89	8.38	325.82	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
20-Dec-89	8.48	325.72	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
18-Jan-90	8.20	326.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
26-Feb-90	7.86	326.34	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
4-Jun-90	8.13	326.07	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
20-Nov-90	8.83	325.37	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
11-Feb-91	8.95	325.25	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
6-May-91	7.71	326.49	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
28-Aug-91	8.62	325.58	0.00	<50	<0.5	<0.5	<0.5	1.0	NA	
15-Nov-91	8.99	325.21	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	

**TABLE 1**

**WELL CONCENTRATIONS  
Shell Oil Products Company  
7194 Amador Valley Boulevard  
Dublin, California  
WIC #204-2277-0105**

Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
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25-Feb-92	7.21	326.99	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
12-May-92	8.26	325.94	0.00	NA	NA	NA	NA	NA	NA	Well now sampled semi-annually
12-Aug-92	8.75	325.45	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
10-Nov-92	9.47	324.73	0.00	NA	NA	NA	NA	NA	NA	
11-Feb-93	6.79	327.41	0.00	61 <sup>a</sup>	<0.5	<0.5	<0.5	<0.5	NA	
10-May-93	7.18	327.02	0.00	NA	NA	NA	NA	NA	NA	
12-Aug-93	8.10	326.10	0.00	140	18	13	7.5	32	NA	
11-Nov-93	8.56	325.64	0.00	NA	NA	NA	NA	NA	NA	
11-Feb-94	8.21	325.99	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
17-May-94	7.61	326.59	0.00	NA	NA	NA	NA	NA	NA	
25-Aug-94	8.68	325.52	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
23-Nov-94	8.27	325.93	0.00	NA	NA	NA	NA	NA	NA	
15-Feb-95	6.46	327.74	0.00	<50	<0.5	0.6 <sup>b</sup>	<0.5	<0.5	NA	
24-May-95	7.69	326.51	0.00	NA	NA	NA	NA	NA	NA	
25-Aug-95	7.70	326.50	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	

MW-12	Top casing elevation (ft):		332.53							
2-Mar-89	6.94	325.59	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
4-Apr-89	6.33	326.20	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
1-May-89	6.62	325.91	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
1-Jun-89	6.82	325.71	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
29-Jun-89	7.00	325.53	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
9-Aug-89	6.76	325.77	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
7-Sep-89	6.81	325.72	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
9-Oct-89	7.11	325.42	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
24-Oct-89	7.60	324.93	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
20-Dec-89	8.25	324.28	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
18-Jan-90	8.23	324.30	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	

**TABLE 1**  
**WELL CONCENTRATIONS**  
**Shell Oil Products Company**  
**7194 Amador Valley Boulevard**  
**Dublin, California**  
**WIC #204-2277-0105**

Sample	Measured	Corrected	SP	TPPH	B	T	E	X	MTBE	Comments
Date	GW Depth (ft)	GW Elev (ft)	(ft)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	

26-Feb-90	7.54	324.99	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
4-Jun-90	7.96	324.57	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
20-Nov-90	8.80	323.73	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
12-Feb-91	7.85	324.68	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
6-May-91	7.35	325.18	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
28-Aug-91	7.79	324.74	0.00	<50	<0.5	<0.5	<0.5	1.0	NA	
13-Nov-91	7.89	324.64	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
25-Feb-92	6.14	326.39	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
12-May-92	7.54	324.99	0.00	NA	NA	NA	NA	NA	NA	Well Removed from Sampling Program
12-Aug-92	9.83	322.70	9.83	NA	NA	NA	NA	NA	NA	
10-Nov-92	8.32	324.21	8.32	NA	NA	NA	NA	NA	NA	
10-Feb-93	6.75	325.78	6.75	NA	NA	NA	NA	NA	NA	
10-May-93	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Inaccessible
12-Aug-93	6.23	326.30	6.23	NA	NA	NA	NA	NA	NA	
11-Nov-93	7.43	325.10	7.43	NA	NA	NA	NA	NA	NA	
11-Feb-94	7.18	325.35	7.18	NA	NA	NA	NA	NA	NA	
17-May-94	6.80	325.73	6.80	NA	NA	NA	NA	NA	NA	
24-Aug-94	7.24	325.29	7.24	NA	NA	NA	NA	NA	NA	
23-Nov-94	7.16	325.37	7.16	NA	NA	NA	NA	NA	NA	
15-Feb-95	5.16	327.37	5.16	NA	NA	NA	NA	NA	NA	
24-May-95	6.95	325.58	6.95	NA	NA	NA	NA	NA	NA	
25-Aug-95	5.63	326.90	5.63	NA	NA	NA	NA	NA	NA	

MW-13	Top casing elevation (ft):		335.64							
6-May-91	8.37	327.27	0.00	1100	430	30	41	130	NA	
28-Aug-91	9.82	325.82	0.00	1000	350	6.4	44	43	NA	
13-Nov-91	10.19	325.45	0.00	680	320	5.6	38	17	NA	
25-Feb-92	7.66	327.98	0.00	780	260	3.5	26	15	NA	

**TABLE 1**  
**WELL CONCENTRATIONS**  
**Shell Oil Products Company**  
**7194 Amador Valley Boulevard**  
**Dublin, California**  
**WIC #204-2277-0105**

Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
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12-May-92	9.16	326.48	0.00	660	210	3.5	26	5.8	NA	
12-Aug-92	10.91	324.73	0.00	400	140	9.6	21	23	NA	
10-Nov-92	10.69	324.95	0.00	60	220	2.9	23	11	NA	
11-Feb-93	7.49	328.15	0.00	970	340	11	29	32	NA	
10-May-93	8.06	327.58	0.00	2300	440	<0.5	<0.5	<0.5	NA	
12-Aug-93	8.73	326.91	0.00	8900	670	23	76	61	NA	
11-Nov-93	9.15	326.49	0.00	470	230	<2.5	27	11	NA	
11-Feb-94	9.12	326.52	0.00	200	39	<0.5	4.7	3.9	NA	
17-May-94	8.62	327.02	0.00	<50	88	<0.5	12	10	NA	
25-Aug-94	9.32	326.32	0.00	410	110	4.2	10	15	NA	
23-Nov-94	9.37	326.27	0.00	180	66	4.8	8.2	9.8	NA	
15-Feb-95	8.42	327.22	0.00	320	79	5.6 <sup>b</sup>	7.5	23	NA	
24-May-95	9.90	325.74	0.00	230	32	1.2	1.1	2.5	NA	
25-Aug-95	8.32	327.32	0.00	930	320	17	48	36	NA	
26-Feb-96	5.76	329.88	0.00	160	24	1.7	7.8	3.9	NA	
23-Aug-96	8.66	326.98	0.00	980	220	22	56	64	<25	

<b>MW-13 (DUP)</b>										
11-Nov-93	NA	NA	NA	610	190	<2.5	21	8.0	NA	
11-Feb-94	NA	NA	NA	290	55	1.3	8.8	4.8	NA	
17-May-94	NA	NA	NA	<50	96	<0.5	13	11	NA	
23-Nov-94	NA	NA	NA	240	430	6.5	11	13	NA	
15-Feb-95	NA	NA	NA	300	90	5.7 <sup>b</sup>	7.4	24	NA	

<b>RW-1</b>	<b>Top casing elevation (ft):</b>		<b>336.19</b>							
9-Dec-89	10.73	325.46	0.00	6800	740	5.0	11	37	NA	
13-Jan-89	NA	NA	NA	10000	3200	27	60	<0.5	NA	
10-Feb-89	10.91	325.28	0.00	6000	2800	<0.5	<0.5	<0.5	NA	

**TABLE 1**  
**WELL CONCENTRATIONS**  
**Shell Oil Products Company**  
**7194 Amador Valley Boulevard**  
**Dublin, California**  
**WIC #204-2277-0105**

Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
2-Mar-89	10.15	326.04	0.00	3900	2400	<0.5	<0.5	<0.5	NA	
5-Apr-89	9.34	326.85	0.00	1700	1000	<0.5	9.0	<0.5	NA	
1-May-89	9.85	326.34	0.00	900	390	5.0	10	<0.5	NA	
1-Jun-89	9.96	326.23	0.00	1100	1.4	3.3	<0.5	13	NA	
30-Jun-89	9.90	326.29	0.00	1400	<0.5	<0.5	<0.5	<0.5	NA	
9-Aug-89	9.80	326.39	0.00	7500	1700	210	280	300	NA	
11-Sep-89	10.02	326.17	0.00	97	1.7	2.1	2.3	14	NA	
10-Oct-89	9.88	326.31	0.00	1400	48	4.5	<0.5	3.0	NA	
25-Oct-89	9.80	326.39	0.00	820	51	1.2	25	3.0	NA	
21-Dec-89	10.25	325.94	0.00	490	16	1.0	8.5	19	NA	
17-Jan-90	9.80	326.39	0.00	<50	27	1.7	14	1.6	NA	
23-Feb-90	9.60	326.59	0.00	420	42	1.8	13	2.7	NA	
4-Jun-90	9.97	326.22	0.00	180	23	0.7	5.3	1.2	NA	
20-Nov-90	10.50	325.69	0.00	1900	170	52	29	38	NA	
11-Feb-91	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well not sampled
25-Feb-92	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well not gauged
12-May-92	NA	NA	NA	NA	NA	NA	NA	NA	NA	
12-Aug-92	NA	NA	NA	NA	NA	NA	NA	NA	NA	
10-Nov-92	NA	NA	NA	NA	NA	NA	NA	NA	NA	
10-May-93	9.26	326.93	0.00	NA	NA	NA	NA	NA	NA	
12-Aug-93	NA	NA	NA	NA	NA	NA	NA	NA	NA	
11-Nov-93	NA	NA	NA	NA	NA	NA	NA	NA	NA	
11-Feb-94	9.98	326.21	0.00	NA	NA	NA	NA	NA	NA	
17-May-94	9.29	326.90	0.00	NA	NA	NA	NA	NA	NA	
25-Aug-94	10.56	325.63	0.00	NA	NA	NA	NA	NA	NA	
23-Nov-94	10.07	326.12	0.00	NA	NA	NA	NA	NA	NA	
15-Feb-95	8.20	327.99	0.00	NA	NA	NA	NA	NA	NA	

**TABLE 1**  
**WELL CONCENTRATIONS**  
**Shell Oil Products Company**  
**7194 Amador Valley Boulevard**  
**Dublin, California**  
**WIC #204-2277-0105**

Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
24-May-95	9.66	326.53	0.00	NA	NA	NA	NA	NA	NA	
25-Aug-95	9.37	326.82	0.00	NA	NA	NA	NA	NA	NA	

Abbreviations

TPPH = Total Purgeable Petroleum Hydrocarbons carbon range C6 to C12 by Modified EPA Method 8015  
 (previously reported as Total Petroleum Hydrocarbons as Gasoline)

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

MTBE = methyl-tertiary-butyl ether by EPA Method 8020

<x = Not detected at detection limit of x

NA = Not analyzed or not available

(DUP) Duplicate sample

Notes

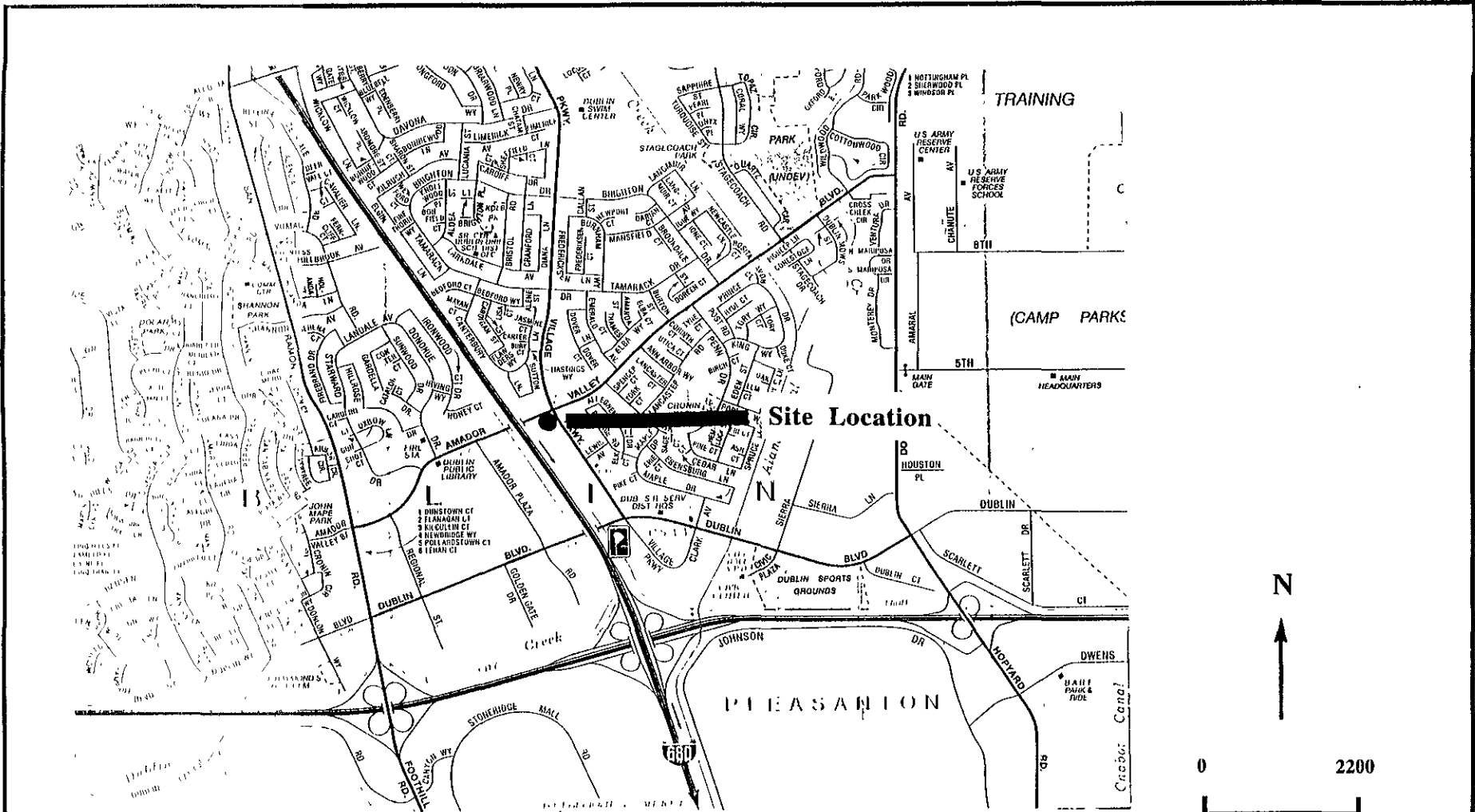
a = Laboratory noted concentration is not indicative of gasoline.

b = National Environmental Testing, Inc. noted toluene in the equipment and trip blanks at 1.1 and 1.0 ppb,  
 respectively. This may have affected results for this quarter.

(\*) = Well MW-2 did not confirm MTBE by EPA method 8260 therefore all MTBE results for this site should be considered estimated.

Elevations referenced to Mean Sea Level

Depth to water measured from top of casing



Note: Vicinity Map taken from California State AAA map.

PLATE

**1**

**SITE VICINITY MAP**

Shell Oil Company  
 7194 Amador Valley Boulevard  
 Dublin, California

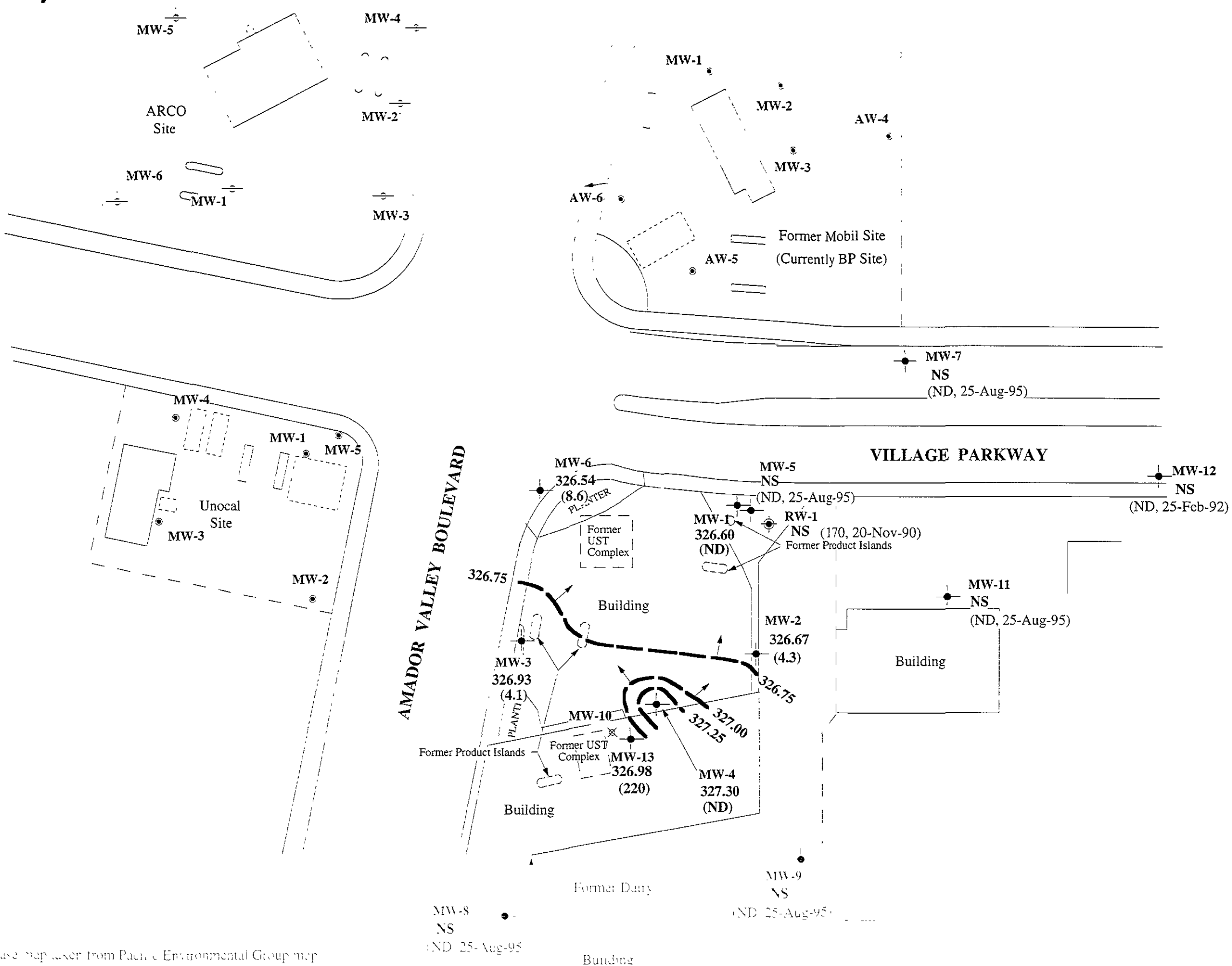
**enviros**<sup>®</sup>  
 95285

Drawn By: JLP

Date: 4-26-95

Approved By: *[Signature]*

Date: 10-15-96



### EXPLANATION

- Shell Monitoring Well
- Unocal Monitoring Well
- Mobil Monitoring Well
- ⊕ ARCO Monitoring Well
- ⊗ Abandoned Well
- ⊕ Recovery Well

--- Groundwater elevation contour in feet referenced to mean sea level (MSL). Arrows indicate approximate groundwater flow direction.

329.42 Ground water elevation in feet MSL

(0.8) Benzene concentration in ppb

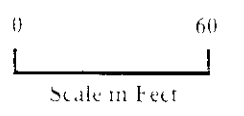
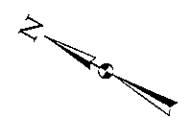
(ND, 25-Aug-95) Last benzene concentration and date of last sampling

ND Not detected

NS Not sampled

Notes: Water levels measured on 23-Aug-96

Approximate Hydraulic Gradient = 0.005



Base map taken from Pacific Environmental Group map

PLATE **2** GROUND WATER CONTOUR/BENZENE CONCENTRATION MAP  
 Former Shell Service Station  
 7194 Amador Valley Boulevard  
 Dublin, California

*enviros*

Drawn By JG

Date 9-Oct-96

Approved By *[Signature]*

Date 10-15-96



## **Appendix A**

**Blaine Tech Services, Inc.  
Quarterly Ground Water Monitoring Report**

# BLAINE TECH SERVICES INC.

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

September 27, 1996

RECEIVED  
SEP 30 1996

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

Attn: R. Jeff Granberry

Shell WIC #204-2217-0105  
7194 Amador Valley Blvd.  
Dublin, California

3rd Quarter 1996

Quarterly Groundwater Monitoring Report 960823-Y-2

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Blaine Tech Services, Inc. performs environmental sampling and documentation as an independent third party. Copies of our Sampling Report along with the laboratory's Certified Analytical Report are forwarded to the consultant overseeing work at this site. Submission of the assembled documents to interested regulatory agencies will be made by the designated consultant.

Groundwater monitoring at this site was performed in accordance with Standard Operating Procedures provided to the interested regulatory agencies. If you have any questions about the work performed at this site please call me at (408) 995-5535 ext. 201.

Yours truly,



Francis Thie

attachments: Table of Well Gauging Data  
Chain of Custody  
Field Data Sheets  
Certified Analytical Report

cc Enviro, Inc  
P O Box 259  
Sonoma, CA 95476-0259  
Attn Joe Neely

(Any professional evaluations or recommendations will be made by the consultant under separate cover )

## TABLE OF WELL GAUGING DATA

WELL I.D.	DATA COLLECTION DATE	MEASUREMENT REFERENCED TO	QUALITATIVE OBSERVATIONS  (sheen)	DEPTH TO FIRST IMMISCIBLES LIQUID (FPZ) (feet)	THICKNESS OF IMMISCIBLES LIQUID ZONE (feet)	VOLUME OF IMMISCIBLES REMOVED (ml)	DEPTH TO WATER (feet)	DEPTH TO WELL BOTTOM (feet)
MW-1	8/23/96	TOC	--	NONE	--	--	8.23	25.12
MW-2	8/23/96	TOC	--	NONE	--	--	10.29	24.51
MW-3	8/23/96	TOC	--	NONE	--	--	10.00	24.20
MW-4 *	8/23/96	TOC	ODOR	NONE	--	--	9.84	24.72
MW-6	8/23/96	TOC	--	NONE	--	--	8.88	22.88
MW-13	8/23/96	TOC	ODOR	NONE	--	--	8.66	17.04

\* Sample DUP was a duplicate sample taken from well MW-4.



**SHELL OIL COMPANY**  
RETAIL ENVIRONMENTAL ENGINEERING - WEST

**CHAIN OF CUSTODY RECORD**

Serial No: 960823-42

Date:

Page 1 of 1

Silo Address: 7194 Almador Valley Blvd., Dublin, CA

**Analysis Required**

LAB: SEQUOIA

WIC#: 204-2217-0105

Shell Engineer: R. Jeff Gornberg Phone No.: (510) 675-6168  
Daniel Kirk Fax #: 675-6160

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

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

Comments:

Sampled by: Joe Carrera

Printed Name: JOE Carrera

9608F69

CHECK ONE (1) BOX ONLY CI/DT TURN AROUND TIME

G.W. Monitoring  4441 24 hours

Site Investigation  4441 48 hours

Soil Classfy/Disposal  4442 16 days  (Normal)

Water Classfy/Disposal  4443 Other

Soil/Air Rem. or Sys. O & M  4452

Water Rem. or Sys. O & M  4453

Other

NOTE: Holly Lab as soon as possible of 24/48 hrs. TAT.

UST AGENCY:

Sample ID	Date	Sludge	Soil	Water	Air	No. of conds.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/502)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020	MTBE	Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
11 MW-1	8-23			X		3						X	X					Confirm highest MTBE	
12 MW-2												X	X					hit by 8260	
13 MW-3												X	X						
14 MW-4												X	X						
15 MW-6												X	X						
16 MW-13												X	X						
17 E.B.												X	X						
18 Dup.												X	X						

Relinquished By (signature): <u>Joe Carrera</u>	Printed Name: <u>JOE Carrera</u>	Date: <u>8/26/96</u>	Time: <u>10:35</u>	Received (signature): <u>Scott Wang</u>	Printed Name: <u>Scott Wang</u>	Date: <u>8/26/96</u>	Time: <u>10:35</u>
Relinquished By (signature): <u>Scott Wang</u>	Printed Name: <u>Scott Wang</u>	Date: <u>8/26/96</u>	Time: <u>11:50</u>	Received (signature): <u>[Signature]</u>	Printed Name:	Date:	Time:
Relinquished By (signature):	Printed Name:	Date:	Time:	Received (signature):	Printed Name:	Date:	Time:

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



# Sequoia Analytical

680 Chesapeake Drive  
404 N. Wiget Lane  
819 Striker Avenue, Suite 8

Redwood City, CA 94063  
Walnut Creek, CA 94598  
Sacramento, CA 95834

(415) 364-9600  
(510) 988-9600  
(916) 921-9600

FAX (415) 364-9233  
FAX (510) 988-9673  
FAX (916) 921-0100

Blaine Technical Services  
985 Timothy Drive  
San Jose, CA 95133  
Attention: Jim Keller

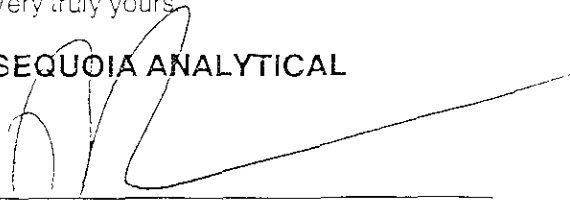
Project: Shell Dublin/960823-Y2

Enclosed are the results from samples received at Sequoia Analytical on August 26, 1996.  
The requested analyses are listed below:

<u>SAMPLE #</u>	<u>SAMPLE DESCRIPTION</u>	<u>DATE COLLECTED</u>	<u>TEST METHOD</u>
9608F69 -01	LIQUID, MW-1	08/23/96	TPGBMW Purgeable TPH/BTEX
9608F69 -02	LIQUID, MW-2	08/23/96	TPGBMW Purgeable TPH/BTEX
9608F69 -03	LIQUID, MW-3	08/23/96	MTBEMW Methyl t-Butyl Ethe
9608F69 -03	LIQUID, MW-3	08/23/96	TPGBMW Purgeable TPH/BTEX
9608F69 -04	LIQUID, MW-4	08/23/96	TPGBMW Purgeable TPH/BTEX
9608F69 -05	LIQUID, MW-6	08/23/96	TPGBMW Purgeable TPH/BTEX
9608F69 -06	LIQUID, MW-13	08/23/96	TPGBMW Purgeable TPH/BTEX
9608F69 -07	LIQUID, EB	08/23/96	TPGBMW Purgeable TPH/BTEX
9608F69 -08	LIQUID, DUP	08/23/96	TPGBMW Purgeable TPH/BTEX

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

Very truly yours,

**SEQUOIA ANALYTICAL**  


Peggy Penner  
Project Manager



Blaine Technical Services 985 Timothy Drive San Jose, CA 95133	Client Proj. ID: Shell Dublin/960823-Y2 Sample Descript: MW-2 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9608F69-02	Sampled: 08/23/96 Received: 08/26/96  Analyzed: 09/09/96 Reported: 09/19/96
Attention: Jim Keller		

QC Batch Number: GC090996BTEX21A  
Instrument ID: GCHP21

**Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE**

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
<b>Benzene</b>	<b>0.50</b>	<b>4.3</b>
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70                      130	92

Analytes reported as N.D. were not present above the stated limit of detection

**SEQUOIA ANALYTICAL** - ELAP #1210

Peggy Penner  
Project Manager



Blaine Technical Services 985 Timothy Drive San Jose, CA 95133 Attention: Jim Keller	Client Proj. ID: Shell Dublin/960823-Y2 Sample Descript: MW-3 Matrix: LIQUID Analysis Method: EPA 8260 Lab Number: 9608F69-03	Sampled: 08/23/96 Received: 08/26/96 Analyzed: 09/16/96 Reported: 09/19/96
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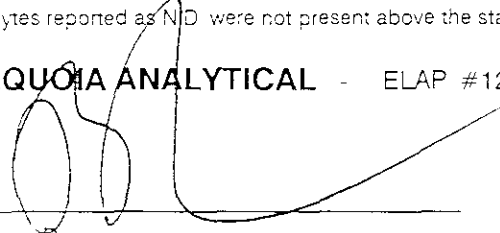
QC Batch Number: MS0910968260F3A  
Instrument ID: F3

**Methyl t-Butyl Ether (MTBE)**

Analyte	Detection Limit ug/L	Sample Results ug/L
Methyl t-Butyl Ether	2.0	N.D.
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
1,2-Dichloroethane-d4	76	114
Toluene-d8	88	110
4-Bromofluorobenzene	86	115

Analytes reported as NID were not present above the stated limit of detection

**SEQUOIA ANALYTICAL** - ELAP #1210

  
Peggy Penner  
Project Manager



Blaine Technical Services 985 Timothy Drive San Jose, CA 95133	Client Proj. ID: Shell Dublin/960823-Y2 Sample Descript: MW-3 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9608F69-03	Sampled: 08/23/96 Received: 08/26/96  Analyzed: 09/09/96 Reported: 09/19/96
Attention: Jim Keller		

QC Batch Number: GC090996BTEX21A  
Instrument ID: GCHP21

**Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE**

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	2.7
Benzene	0.50	4.1
Toluene	0.50	N.D.
Ethyl Benzene	0.50	2.0
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70 130	89

Analytes reported as N.D. were not present: above the stated limit of detection

SEQUOIA ANALYTICAL - ELAP #1210

  
Peggy Penner  
Project Manager





Blaine Technical Services  
985 Timothy Drive  
San Jose, CA 95133

Client Proj. ID: Shell Dublin/960823-Y2  
Sample Descript: MW-4  
Matrix: LIQUID  
Analysis Method: 8015Mod/8020  
Lab Number: 9608F69-04

Sampled: 08/23/96  
Received: 08/26/96  
Analyzed: 09/09/96  
Reported: 09/19/96

Attention: Jim Keller

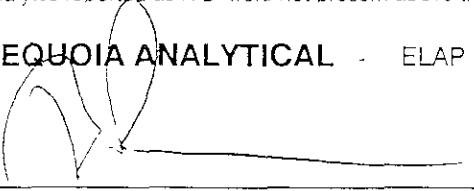
QC Batch Number: GC090996BTEX21A  
Instrument ID: GCHP21

**Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE**

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70 130	88

Analytes reported as N.D. were not present above the stated limit of detection

**SEQUOIA ANALYTICAL** - ELAP #1210

  
Peggy Penner  
Project Manager



Blaine Technical Services 985 Timothy Drive San Jose, CA 95133	Client Proj. ID: Shell Dublin/960823-Y2 Sample Descript: MW-6 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9608F69-05	Sampled: 08/23/96 Received: 08/26/96  Analyzed: 09/10/96 Reported: 09/19/96
Attention: Jim Keller		

QC Batch Number: GC091096BTEX17A  
Instrument ID: GCHP17

**Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE**

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	65
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	8.6
Toluene	0.50	0.52
Ethyl Benzene	0.50	0.90
Xylenes (Total)	0.50	0.68
Chromatogram Pattern:		C6-C12
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70	130
		111

Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL** - ELAP #1210

Peggy Penner  
Project Manager



Blaine Technical Services 985 Timothy Drive San Jose, CA 95133	Client Proj. ID: Shell Dublin/960823-Y2 Sample Descript: MW-13 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9608F69-06	Sampled: 08/23/96 Received: 08/26/96  Analyzed: 09/10/96 Reported: 09/19/96
--	--	---

QC Batch Number: GC091096BTEX17A  
Instrument ID: GCHP17

**Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE**

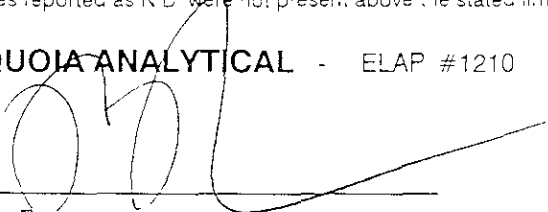
Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	500	980
Methyl t-Butyl Ether	25	N.D.
Benzene	5.0	220
Toluene	5.0	22
Ethyl Benzene	5.0	56
Xylenes (Total)	5.0	64
Chromatogram Pattern:		C6-C12

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	90

Analytes reported as N.D. were not present above the stated limit of detection

SEQUOIA ANALYTICAL - ELAP #1210

  
Peggy Penner  
Project Manager



Blaine Technical Services 985 Timothy Drive San Jose, CA 95133	Client Proj. ID: Shell Dublin/960823-Y2 Sample Descript: EB Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9608F69-07	Sampled: 08/23/96 Received: 08/26/96 Analyzed: 09/09/96 Reported: 09/19/96
Attention: Jim Keller		

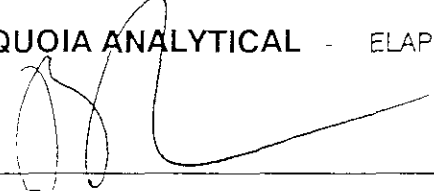
QC Batch Number: GC090996BTEX21A  
Instrument ID: GCHP21

**Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE**

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70                      130	80

Analytes reported as N.D. were not present above the stated limit of detection

**SEQUOIA ANALYTICAL** - ELAP #1210

  
Peggy Penner  
Project Manager



Blaine Technical Services 985 Timothy Drive San Jose, CA 95133	Client Proj. ID: Shell Dublin/960823-Y2 Sample Descript: DUP Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9608F69-08	Sampled: 08/23/96 Received: 08/26/96  Analyzed: 09/09/96 Reported: 09/19/96
Attention: Jim Keller		

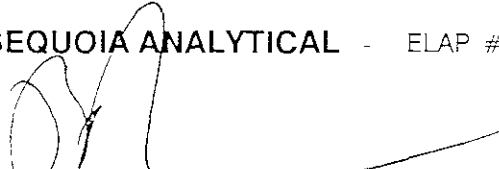
QC Batch Number: GC090996BTEX21A  
Instrument ID: GCHP21

**Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE**

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70 130	90

Analytes reported as N.D. were not present above the stated limit of detection

**SEQUOIA ANALYTICAL** - ELAP #1210



Peggy Penner  
Project Manager



Sequoia  
Analytical

680 Chesapeake Drive  
404 N. Wiget Lane  
819 Striker Avenue, Suite 8

Redwood City, CA 94063  
Walnut Creek, CA 94598  
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(415) 364-9600  
(510) 988-9600  
(916) 921-9600

FAX (415) 364-9233  
FAX (510) 988-9673  
FAX (916) 921-0100

Blaine Technical Services  
985 Timothy Drive  
San Jose, CA 95133  
Attention: Jim Keller

Client Proj. ID: Shell Dublin/960823-Y2

Lab Proj. ID: 9608F69

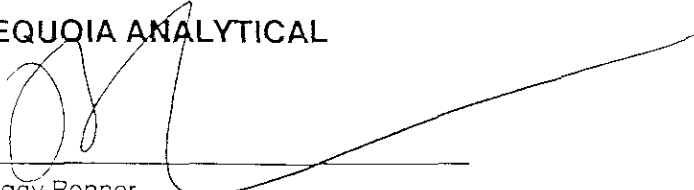
Received: 08/26/96

Reported: 09/19/96

## LABORATORY NARRATIVE

Please note: Sample 9608F69-03 did not confirm MTBE by EPA method 8260 therefore all MTBE results for this site should be considered estimated.

SEQUOIA ANALYTICAL

  
Peggy Penner  
Project Manager



Blaine Tech Services, Inc.  
985 Timothy Drive  
San Jose, CA 95133  
Attention: Jim Keller

Client Project ID: Shell, Dublin / 960823-Y2  
Matrix: Liquid

Work Order #: 9608F69 -01-04, 07-08

Reported: Sep 24, 1996

**QUALITY CONTROL DATA REPORT**

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC090996BTEX21A	GC090996BTEX21A	GC090996BTEX21A	GC090996BTEX21A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	R. Burton	R. Burton	R. Burton	R. Burton
MS/MSD #:	960811707	960811707	960811707	960811707
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	9/9/96	9/9/96	9/9/96	9/9/96
Analyzed Date:	9/9/96	9/9/96	9/9/96	9/9/96
Instrument I.D.#:	GCHP21	GCHP21	GCHP21	GCHP21
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	9.8	10	9.6	31
MS % Recovery:	98	100	96	101
Dup. Result:	10	10	9.9	31
MSD % Recov.:	100	100	99	103
RPD:	2.0	0.0	3.1	0.0
RPD Limit:	0-25	0-25	0-25	0-25

LCS #:	BLK090996	BLK090996	BLK090996	BLK090996
Prepared Date:	9/9/96	9/9/96	9/9/96	9/9/96
Analyzed Date:	9/9/96	9/9/96	9/9/96	9/9/96
Instrument I.D.#:	GCHP21	GCHP21	GCHP21	GCHP21
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
LCS Result:	9.9	9.5	9.5	29
LCS % Recov.:	99	95	95	97

MS/MSD	60-140	60-140	60-140	60-140
LCS	70-130	70-130	70-130	70-130
Control Limits				

SEQUOIA ANALYTICAL  
  
Peggy Penner  
Project Manager

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



Blaine Tech Services, Inc.  
985 Timothy Drive  
San Jose, CA 95133  
Attention: Jim Keller

Client Project ID: Shell, Dublin / 960823-Y2  
Matrix: Liquid

Work Order #: 9608F69-05-06

Reported: Sep 24, 1996

**QUALITY CONTROL DATA REPORT**

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC091096BTEX17A	GC091096BTEX17A	GC091096BTEX17A	GC091096BTEX17A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	R. Burton	R. Burton	R. Burton	R. Burton
MS/MSD #:	960811704	960811704	960811704	960811704
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	9/10/96	9/10/96	9/10/96	9/10/96
Analyzed Date:	9/10/96	9/10/96	9/10/96	9/10/96
Instrument I.D.#:	GCHP17	GCHP17	GCHP17	GCHP17
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	11	11	10	30
MS % Recovery:	110	110	100	100
Dup. Result:	12	11	11	33
MSD % Recov.:	120	110	110	110
RPD:	8.7	0.0	9.5	9.5
RPD Limit:	0-25	0-25	0-25	0-25

LCS #:	BLK090996	BLK090996	BLK090996	BLK090996
Prepared Date:	9/10/96	9/10/96	9/10/96	9/10/96
Analyzed Date:	9/10/96	9/10/96	9/10/96	9/10/96
Instrument I.D.#:	GCHP17	GCHP17	GCHP17	GCHP17
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
LCS Result:	10	9.8	9.3	28
LCS % Recov.:	100	98	93	93

MS/MSD	60-140	60-140	60-140	60-140
LCS	70-130	70-130	70-130	70-130
Control Limits				

SEQUOIA ANALYTICAL

Peggy Penner  
Project Manager

Please Note

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

\*\* MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

9608F69\_BLA <2>





Blaine Tech Services, Inc.  
985 Timothy Drive  
San Jose, CA 95133  
Attention: Jim Keller

Client Project ID: Shell, Dublin / 960823-Y2  
Matrix: Liquid

Work Order #: 9608F69-03

Reported: Sep 24, 1996

**QUALITY CONTROL DATA REPORT**

Analyte:	1,1-Dichloroethene	Trichloroethene	Benzene	Toluene	Chloro-benzene
QC Batch#:	MS0910968260F3A	MS0910968260F3A	MS0910968260F3A	MS0910968260F3A	MS0910968260F3A
Analy. Method:	EPA 8260	EPA 8260	EPA 8260	EPA 8260	EPA 8260
Prep. Method:	N/A	N/A	N/A	N/A	N/A

Analyst:	L. Zhu	L. Zhu	L. Zhu	L. Zhu	L. Zhu
MS/MSD #:	9608J5301	9608J5301	9608J5301	9608J5301	9608J5301
Sample Conc.:	N.D.	N.D.	N.D.	16	N.D.
Prepared Date:	-	-	-	-	-
Analyzed Date:	9/10/96	9/10/96	9/10/96	9/10/96	9/10/96
Instrument I.D.#:	F3	F3	F3	F3	F3
Conc. Spiked:	310 µg/L	310 µg/L	310 µg/L	310 µg/L	310 µg/L
Result:	290	300	320	330	310
MS % Recovery:	94	97	103	101	100
Dup. Result:	300	300	310	320	310
MSD % Recov.:	97	97	100	98	100
RPD:	3.4	0.0	3.2	3.1	0.0
RPD Limit:	0-25	0-25	0-25	0-25	0-25

LCS #:	VDB091696	VDB091696	VDB091696	VDB091696	VDB091696
Prepared Date:	-	-	-	-	-
Analyzed Date:	9/16/96	9/16/96	9/16/96	9/16/96	9/16/96
Instrument I.D.#:	F3	F3	F3	F3	F3
Conc. Spiked:	50 µg/L	50 µg/L	50 µg/L	50 µg/L	50 µg/L
LCS Result:	51	51	50	51	51
LCS % Recov.:	102	102	100	102	102

MS/MSD	60-140	60-140	60-140	60-140	60-140
LCS	65-135	70-130	70-130	70-130	70-130
Control Limits					

**SEQUOIA ANALYTICAL**  
  
Peggy Pooner  
Project Manager

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

\*\* MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference



Blaine Tech Services, Inc.  
985 Timothy Drive  
San Jose, CA 95133  
Attention: Jim Keller

Client Project ID: Shell, Dublin / 960823-Y2  
Matrix: Liquid

Work Order #: 9608F69-03

Reported: Sep 24, 1996

### QUALITY CONTROL DATA REPORT

<b>Analyte:</b>	MTBE
<b>QC Batch#:</b>	MS0910968260F3A
<b>Analy. Method:</b>	EPA 8260
<b>Prep. Method:</b>	N/A

**Analyst:** L. Zhu  
**MS/MSD #:** 9608J5301  
**Sample Conc.:** N.D.  
**Prepared Date:** -  
**Analyzed Date:** 9/10/96  
**Instrument I.D.#:** F3  
**Conc. Spiked:** 310 µg/L

**Result:** 300  
**MS % Recovery:** 97

**Dup. Result:** 300  
**MSD % Recov.:** 97

**RPD:** 0.0  
**RPD Limit:** 0-25

**LCS #:** VDB091696

**Prepared Date:** -  
**Analyzed Date:** 9/16/96  
**Instrument I.D.#:** F3  
**Conc. Spiked:** 50 µg/L

**LCS Result:** 50  
**LCS % Recov.:** 100

<b>MS/MSD</b>	60-140
<b>LCS</b>	70-130
<b>Control Limits</b>	

SEQUOIA ANALYTICAL

Peggy Penner  
Project Manager

**Please Note**

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

ENVIRONMENTAL  
PROTECTION  
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