



APR 3 0 2002

QUARTERLY GROUNDWATER MONITORING REPORT

(1st Quarter, 2002)

Former E-Z Serve Location No. 100877 525 West 'A' Street Hayward, California STID No. 3580

Submitted to: Restructure Petroleum Marketing Services of California, Inc. 205 S. Hoover Boulevard, Suite 101 Tampa, Florida 33609

> Submitted by ATC Associates Inc. 9620 Chesapeake Drive, Suite 203 San Diego, California 92123

ATC Work Order No. C2-3 ATC Project No. 43.25827.0024 April 15, 2002

Prepared by:

Scott D. Levin
Project Scientist

PROFESSIONAL PROFE

Approved by:

Scott D. Meckstroth, R.C.E. No. 63337

Project Engineer

DATE: April 15, 2002

QUARTERLY GROUNDWATER MONITORING REPORT – FIRST QUARTER 2002

Facility: Former E-Z Serve No. 100877	Site Address: 525 West 'A' Street, Hayward, California
Responsible Party / Contact Person:	RPMS-CA / Andrew Long, Project Manager
Consulting Co. / Contact Person:	ATC Associates Inc. / Michael T. Davis, Project Manager (858) 569-0692
ATC Project No.:	43.35827.0024
Regulatory Agency/File No.:	RWQCB

WORK PERFORMED THIS QUARTER [January 1, 2002 – March 31, 2002]:

- 1. Performed first quarter groundwater monitoring and sampling.
- 2. Submitted work plan for remedial well installation and remediation feasibility tests (pilot study).
- 3. Prepared first quarter groundwater monitoring report.

WORK PROPOSED FOR NEXT QUARTER [April 1, 2002 - June 30, 2002]

- 1. Perform second quarter groundwater monitoring and sampling.
- 2. Conduct remedial well installation activities and perform pilot studies.
- 3. Submit Corrective Action Plan.
- 4. Submit second quarter groundwater monitoring report.

Current Phase of Project:	Assessment	(Assessment, Remediation, etc.)
Frequency of Sampling:	Quarterly	(Quarterly, etc.)
Frequency of Monitoring:	Quarterly	(Monthly, etc.)
Liquid Phase Hydrocarbons Present On Site:	No	(Yes/No)
Cumulative PSH Recovered to Date:	Unknown	(Gallons)
PSH Recovered This Quarter:	None	(Gallons)
Purge Water Removed This Quarter:	None	(Gallons)
Permits for Discharge:	None	(NDPES, POTW, etc)
Current Remediation Techniques:	None	(SVES, PSH Recovery)
Approximate Depth to Groundwater:	13.65 to 15.65	(Measured Feet)
Groundwater Gradient:	0.006 ft/ft	(Magnitude)
Groundwater Flow Direction:	Southeasterly	(Direction)

Discussion: On January 30, 2002, ATC Associates, Incorporated (ATC) personnel gauged 11 groundwater monitor wells (Figure 1 and 2). Depth to groundwater ranged between 13.65 (MW-13) to 15.65 (MW-12) feet below ground surface (bgs). ATC personnel were unable to locate the wellheads of MW-8 through MW-11 utilizing a metal detector. The direction of groundwater flow was calculated to be to southeasterly with a hydraulic gradient of approximately 0.006 ft/ft (Figure 2). No measurable liquid phase hydrocarbons (PSH) were recorded in any of the 11 monitoring wells. Groundwater elevations and contours are illustrated on Figure 2 and historic groundwater and PSH monitoring data is presented in Table 1.

On January 30, 2002, ATC collected groundwater samples from 10 monitoring wells. ATC utilized the attached no-purge sampling procedures described in Appendix A to collect groundwater samples from MW-1, MW-1A, MW-2, MW-3, MW-4, MW-5, MW-6, MW-12, MW-13, and MW-14. Field logs are also included in Appendix A. Groundwater samples collected were analyzed for total petroleum hydrocarbons characterized as gasoline (TPHg), benzene, toluene, ethylbenzene, and total xylenes (BTEX), and fuel oxygenates methyl tert-butyl ether (MBE) di-isopropyl ether (DIPE), ethyl tert-butyl ether (ETBE), tert-amyl methyl ether (TAME), and tert-butyl alcohol (TBA) by EPA Test Method 8260. The highest TPHg, benzene, and MTBE concentrations reported were 24,000, 880, and 56 µg/L, respectively. The highest TPHg concentration was reported in MW-1A, the highest benzene and MTBE concentrations were reported in MW-2. TPHg, benzene, and MTBE concentrations are illustrated on Figure 2 and historic groundwater analytical results are presented in Tables 1 and 2. Hydrographs of groundwater elevations and analytical data are attached in Appendix B and complete laboratory analytical results and chain-of-custody documentation are attached in Appendix C.

Recommendations: Install remediation wells and perform pilot study feasibility tests. Continue quarterly groundwater monitoring and sampling, and submit a Corrective Action Plan. Contract a professional electromagnetic subsurface survey to locate the wellheads of MW-8 through MW-11.

Summary of Unusual Activity: Well head elevations and horizontal locations were resurveyed on January 30, 2002, to comply with CSWRCB regulation (Article 12, Chapter 16, Division 3, Title 23 of the California Code of Regulations), for electronic data deliverables.

Agency Directive Requirements: Corrective Action Plan.

ATTACED:

- Table 1 Groundwater Elevations and Sample Analytical Results
- Table 2 Groundwater Sample Analytical Results for Fuel Oxygenates
- Figure 1 Vicinity Map
- Figure 2 Groundwater Summary Map (January 30, 2002)
- Appendix A Groundwater Monitoring and Sampling Procedures, and Field Logs
- Appendix B Hydrographs
- Appendix C Laboratory Report and Chain-of-Custody Record

TABLES

Former E-Z Serve Location No. 100877 525 West 'A' Street, Hayward, California

Well	Sampling	TOC	DTW	GWE ¹	PSH	TPHg	В	T	${f E}$	X	MTBE
No.	Date	(feet)	(feet)	(feet)	(feet)	(µg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)
MW-1	2/5/92	41.75	20.82	20.93	0.00	46,000	7,600	2,300	2,400	6,500	
	9/11/92	41.75	20.08	21.67	0.00	48,000	9,000	1,200	1,800	4,600	
	12/22/92	41.75	19.79	21.96	0.00	84,000	22,000	1,600	4,800	17,000	
	3/3/93	41.75	16.23	25.52	0.00	54,000	16,000	1,600	1,900	4,300	
	6/23/93	41.75	16.86	24.89	0.00	30,000	18,000	1,100	1,400	3,700	
	9/30/93	41.75	18.04	23.71	0.00	33,000	10,000	440	940	1,700	
	2/6/94	41.75	18.15	23.60	0.00	64,000	18,000	1,600	4,700	12,000	
	5/2/94	41.75	17.26	24.49	0.00	7,200	2,100	29	490	520	
	7/1/94	41.75	17.60	24.15	0.00	13,000	3,700	150	550	12,000	
	9/20/94	41.75	20.59	21.16	0.00	10,000	3,100	75	440	870	
	12/5/94	41.75	17.83	23.92	0.00	8,700	3,700	87	520	950	
	3/10/95	41.75	14.67	27.08	0.00						
	3/15/95	41.75	14.43	27.32	0.00	290	56	2	12	47	
	9/23/96	41.75	14.92	26.83	0.00	20,000	5,200	860	700	1,100	270
	12/4/96	41.75	15.61	26.14	0.00	17,000	3,100	64	610	1,200	280
	4/8/97 ^{NP}	41.75	13.25	28.50	0.00	2,100	430	15	52	85	100
	6/30/97	41.75	14.68	27.07	0.00	10,000	2,100	<	<	320	<
	11/25/97	41.75	15.99	25.76	0.00	16,000	2,100	23	76	240	<
	6/1/98	41.75	9.98	31.77	0.00	19,000	6,100	430	1,100	2,300	420
	6/14/01	41.75	15.05	26.70	0.00	6,000	380	8.4	260	180	<25
	11/7/012	41.75	16.31	25.44	0.00	12,000	1,000	30	1,000	740	11
	1/30/02	41.75	14.15	27.60	0.00	8,800	690	16	480	270	14
						-,		- "		2,0	Δ-,
MW-1A	6/23/93	43.40	17.80	25.76	0.21						
	9/30/93	43.40									
	2/6/94	43.40	18.89	24.51	0.00	8,900	1,700	42	1,000	400	
	5/2/94	43.40	18.35	25.12	0.09						
	7/1/94	43.40	18.45	24.95	0.00	12,000	1,100	<1	920	1,100	
	9/20/94	43.40	21.72	21.85	0.22						
	12/5/94	43.40	18.87	24.58	0.07						
	3/10/95	43.40	15.83	27.57	0.00						
	3/15/95	43.40	15.55	27.89	0.05						
	9/23/96	43.40	16.00	27.41	0.01						
	12/4/96	43.40	16.55	26.85	0.00	52,000	420	140	1,000	3,500	130
	4/8/97 ^{NP}	43.40	14.15	29.25	SHEEN						
	6/30/97	43.40	15.57	27.83	0.00	17,000	180	<	140	1,100	<
	11/25/97	43.40	16.91	26.49	0.00	19,000	110	37	290	910	<
	6/1/98	43.40	10.78	32.62	0.00	18,000	200	17	230	820	91
	6/14/01	43.40	15.93	27.48	0.01	27,000	29	<5.0	620	520	< 50
	11/7/01 ²	43.40	17.32	26.08	0.00	21,000	51	<5.0	700	510	< 5.0
	1/30/02	43.40	15.05	28.35	0.00	24,000	22	<5.0	390	330	<5.0
MW-2	2/5/92	43.26	22.35	20.91	0.00	67,000	13,000	4,700	820	1,300	
	9/11/92	43.26	21.67	21.59	0.00	57,000	9,000	1,400	1,200	8,400	
	12/22/92	43.26	21.39	21.87	0.00	31,000	9,900	350	2,000	4,100	
	3/3/93	43.26	17.75	25.51	0.00	17,000	5,100	1,300	720	1,900	
	6/23/93	43.26	18.42	24.84	0.00	60,000	23,000	1,500	4,500	17,000	
	9/30/93	43.26	19.63	23.63	0.00	38,000	12,000	780	1,500	6,500	
	2/6/94	43.26	19.61	23.65	0.00	34,000	8,900	450	2,000	5,500	
	5/2/94	43.26	19.84	23.42	0.00	18,000	3,800	260	1,100	3,500	
	7/1/94	43.26	19.18	24.08	0.00	18,000	3,700	510	870	2,600	
	9/20/94	43.26	22.17	21.09	0.00	19,000	4,500	300	1,200	4,000	
	12/6/94	43.26	19.37	23.89	0.00	22,000	4,700	340	1,400	4,500	
	3/10/95	43.26	16.33	26.93	0.00						
	3/15/95	43.26	16.89	26.37	0.00	29,000	5,600	350	1,900	6,300	
	9/23/96	43.26	16.61	26.65	0.00	29,000	3,700	150	1,000	4,300	860
	5,25,50	.5.20	10.01	20.03	0.00	27,000	5,700	130	1,000	±,200	000

Table 1
Groundwater Elevations and Sample Analytical Results

Former E-Z Serve Location No. 100877 525 West 'A' Street, Hayward, California

Well	Sampling	тос	DTW	GWE ¹	PSH	TPHg	В	T	E	X	MTBE
No.	Date	(feet)	(feet)	(feet)	(feet)	(μg/L)		- (μg/L)	 (μg/L)	(μg/L)	(µg/L)
	12/4/96	43.26	17.19	26.07	0.00	31,000	3,800	140	2,000	5,100	690
(Cont.)	4/8/97 ^{NP}	43.26	14.86	28.40	0.00	20,000	2,500	80	1,300	3,400	880
(/	6/30/97	43.26	16.28	26.98	0.00	41,000	2,700	130	1,200	4,000	890
	11/25/97	43.26	17.56	25.70	0.00	51,000	2,900	140	1,800	7,000	1,200
	6/1/98	43.26	11.58	31.68	0.00	33,000	2,700	130	1,800	5,700	610
	6/14/01	43.26	16.63	26.63	0.00	18,000	860	14	1,100	2,200	<100
	11/7/01 ²	43.26	17.85	25.41	0.00	20,000	880	20	1,100	2,600	21
	1/30/02	43.26	15.65	27.61	0.00	19,000	880	19	1,100	2,400	56
MW-3	2/5/92	43.89	21.85	22.04	0.00	16,000	2,700	410	<1	3,400	
	9/11/92	43.89	21.13	22.76	0.00	43,000	7,600	1,600	1,400	4,100	
	12/22/92	43.89	20.88	23.01	0.00	29,000	8,800	1,200	1,500	3,700	
	3/3/93	43.89	17.29	26.60	0.00	17,000	5,000	1,500	680	1,700	
	6/23/93	43.89	17.88	26.01	0.00	5,700	3,000	120	560	790	
	9/30/93	43.89	19.18	24.71	0.00	21,000	7,000	2,100	970	2,600	
	2/6/94	43.89	19.21	24.68	0.00	24,000	7,200	1,600	990	3,200	
-	5/2/94	43.89	18.30	25.59	0.00	10,000	2,200	440	470	1,200	
	7/1/94	43.89	18.63	25.26	0.00	8,200	2,000	370	350	930	
	9/20/94	43.89	21.64	22.25	0.00	7,200	2,000	360	380	1,000	
	12/6/94	43.89	19.15	24.74	0.00	9,000	2,300	400	440	1,100	
	3/10/95	43.89	16.33	27.56	0.00	4 200					
	3/15/95	43.89	16.89	27.00	0.00	4,300	980	47	370	780	
	9/23/96 12/4/96	43.89	16.11	27.78	0.00	10,000	950	20	700	780	80
	12/4/96 4/8/97 ^{NP}	43.89	16.63 14.25	27.26	0.00	13,000	1,100	25	1,000	1,100	67
	6/30/97	43.89 43.89	14.23	29.64 28.19	0.00 0.00	3,800	210 280	4.6	270	280	56
	11/25/97	43.89	16.99	26.19	0.00	3,500	230	< <	32	180	< 120
	6/1/98	43.89	10.99	20.90		6,800 			370	290	130
	6/14/01	43.89	16.02	27.87	0.00	2,100	9	<0.5	 78	43	<5.0
	11/7/01 ²	43.89	17.33	26.56	0.00	7,700	75	<5.0	410	45 150	<5.0 <5.0
	1/30/02	43.89	15.10	28.79	0.00	3,600	27	<5.0	120	34	<5.0
	1150702	45.05	10.10	20.17	0.00	3,000	27	٧٥.٥	120	JT	\J.U
MW-4	2/5/92	42.76	21.31	21.45	0.00	16,000	2,700	410	<1	3,400	
	9/11/92	42.76	20.62	22.14	0.00	43,000	7,600	1,600	1,400	4,100	
	12/22/92	42.76	20.37	22.39	0.00	29,000	8,800	1,200	1,500	3,700	
	3/3/93	42.76	16.78	25.98	0.00	17,000	5,000	1,500	680	1,700	
	6/23/93	42.76	17.45	25.31	0.00	5,700	3,000	120	560	790	
	9/30/93	42.76	18.64	24.12	0.00	21,000	7,000	2,100	970	2,600	
	2/6/94	42.76	18.59	24.17	0.00	24,000	7,200	1,600	990	3,200	
	5/2/94	42.76	17.81	24.95	0.00	10,000	2,200	440	470	1,200	
	7/1/94	42.76	18.13	24.63	0.00	8,200	2,000	370	350	930	
	9/20/94	42.76	21.13	21.63	0.00	7,200	2,000	360	380	1,000	
	12/6/94	42.76	18.36	24.40	0.00	9,000	2,300	400	440	1,100	
	3/10/95	42.76	15.25	27.51	0.00						
	3/15/95	42.76	14.89	27.87	0.00	15,000	4,400	600	770	2,660	
	9/23/96	42.76	15.56	27.20	0.00	32,000	7,400	540	1,500	2,800	2,100
	12/4/96	42.76	16.11	26.65	0.00	23,000	7,800	140	1,200	1,200	1,900
	4/8/97 ^{NP}	42.76	13.73	29.03	0.00	16,000	3,900	680	850	2,300	980
	6/30/97	42.76	15.19	27.57	0.00	63,000	7,000	430	1,400	4,400	1,700
	11/25/97	42.76	16.49	26.27	0.00	30,000	4,300	61	810	1,500	880
	6/1/98	42.76	10.42	32.34	0.00	33,000	5,700	710	1,700	2,900	720
	6/14/01	42.76	15.55	27.21	0.00	9,500	690	45	560	600	<50
	11/7/01 ²	42.76	16.81	25.95	0.00	6,000	710	20	630	190	27
	1/30/02	42.76	14.60	28.16	0.00	4,800	830	16	600	61	42

Former E-Z Serve Location No. 100877 525 West 'A' Street, Hayward, California

Well	Sampling	тос	DTW	GWE ¹	PSH	TPHg	В	T	E	X	MTBE
No.	Date	(feet)	(feet)	(feet)	(feet)	(μg/L)	$(\mu g/L)$	(μg/L)	(μg/ L)	(μg/L)	(μg/L)
MW-5	2/5/92	42.10	20.93	21.17	0.00	78,000	7,900	5,000	2,900	1,800	
	9/11/92	42.10	20.27	21.83	0.00	49,000	4,700	400	1,400	4,100	
	12/22/92	42.10	19.99	22.11	0.00	34,000	8,600	340	2,200	4,800	
	3/3/93	42.10	16.49	25.61	0.00	22,000	7,500	640	1,300	3,400	
	6/23/93	42.10	17.02	25.08	0.00	15,000	5,800	120	1,100	2,100	
	9/30/93	42.10	18 25	23.85	0.00	25,000	7,600	410	1,000	4,400	
	2/6/94	42.10	18.26	23.84	0.00	23,000	6,000	180	2,000	5,900	
	5/2/94	42.10	17.50	24.60	0.00	8,000	1,300	29	440	770	
	7/1/94	42.10	17.79	24.31	0.00	10,000	1,700	97	600	1,400	
	9/20/94	42.10	20.77	21.33	0.00	8,400	1,600	54	650	1,400	
	12/5/94	42.10	18.02	24.08	0.00	10,000	1,800	< 50	620	1,400	
	3/10/95	42.10	14.93	27.17	0.00						
	3/15/95	42.10	14.70	27.40	0.00	5,300	1,100	11	180	320	
	9/23/96	42.10	15.19	26.91	0.00	9,800	1,800	11	470	510	100
	12/4/96	42.10	15.78	26.32	0.00	10,000	2,200	9	550	430	70
	4/8/97 ^{NP}	42.10	13.39	28.71	0.00	11,000	1,300	15	450	720	180
	6/30/97	42.10	14.83	27.27	0.00	3,800	500	<	75	84	<
	11/25/97	42.10	16.14	25.96	0.00	8,200	1,300	14	310	220	<
	6/1/98	42.10	10.10	32.00	0.00	3,600	290	12	52	52	81
	6/14/01	42.10	15.19	26.91	0.00	5,100	44	0.71	110	23	<5.0
	11/7/01 ²	42.10	16.47	25.63	0.00	7,600	220	<5.0	550	30	<5.0
	1/30/02	42.10	14.27	27.83	0.00	6,200	180	<20	310	130	<20
	1,50,02	12.10		27.02	0.00	-,		20			
MW-6	2/5/92	42.33	21.29	21.04	0.00	51,000	5,400	3,500	3,600	10,000	
2.2.1, 0	9/11/92	42.33	20.56	21.77	0.00	24,000	2,500	830	1,400	2,300	
	12/22/92	42.33	20.31	22.02	0.00	23,000	5,100	630	2,000	3,100	
	3/3/93	42.33	16.83	25.50	0.00	18,000	4,400	820	1,400	2,400	
	6/23/93	42.33	17.30	25.03	0.00	18,000	4,600	850	2,700	3,400	
	9/30/93	42.33	19.05	23.28	0.00						
	2/6/94	42.33	18.55	23.78	0.00	20,000	4,600	690	2,100	2,500	
	5/2/94	42.33	17.74	24.59	0.00	5,300	930	54	610	240	
	7/1/94	42.33	18.09	24.24	0.00	10,000	1,500	160	850	690	
	9/20/94	42.33	21.05	21.28	0.00	11,000	2,000	140	1,200	760	
	12/6/94	42.33	18.33	24.00	0.00	8,600	1,300	87	980	610	
	3/10/95	42.33	15.35	26.98	0.00	0,000 	1,500				
	3/15/95	42.33	14.91	20.98 27.42	0.00	9,800	1,600	 110	1,000	1,000	
	9/23/96	42.33	15.50	26.83	0.00	12,000	520	55	930	350	51
	9723796 12/4/96	42.33	16.06	26.27	0.00	11,000	390	25	680	170	130
	4/8/97 ^{NP}	42.33	13.64	28.69	0.00	17,000	700	92	1,400	900	
					0.00	17,000	700 270		590		2,700 <
	6/30/97	42.33	15.08	27.25				37 26		450	
	11/25/97	42.33	16.40	25.93	0.00	9,100	130 Ì90	26 50	500 680	150	310
	6/1/98	42.33	10.31	32.02		14,000		50	680	400	160
	6/14/01	42.33	15.46	26.87	0.00	6,400	29	6.3	200	55	<20
	11/7/01 ²	42.33	16.71	25.62	0.00	7,200	34	8.7	180	31	<5.0
	1/30/02	42.33	14.60	27.73	0.00	6,600	32	7.2	130	28	<5.0
1000	C/02 IO2	40.70	17 07	04.00	0.00	20.000	4 200	71	4.400	5 600	
MW-7	6/23/93	42.70	17.87	24.83	0.00	29,000	4,200	71	4,400	5,600	
	9/30/93	42.70	18.94	23.76	0.00	30,000	3,200	71	2,800	3,400	
	2/6/94	42.70	19.11	23.64	0.06	£ 700	 C20	10	660	400	
	5/2/94	42.70	18.11	24.59	0.00	5,700	630	13	660	400	
	7/1/94	42.70	18.72	23.98	0.00	3,100	180	99	160	520	
	9/20/94	42.70	21.41	21.29	0.00	6,100	540	6	750	730	
	12/5/94	42.70	18.66	24.04	0.00	3,700	280	<10	430	350	
	3/10/95	42.70	15.72	26.98	0.00	3,900	310	<10	540	540	
	3/14/95	42.70	15.23	27.47	0.00	1,900	290	4	26	296	
	9/23/96	42.70	15.94	26.76	0.00	6,300	76	<	420	270	15

Former E-Z Serve Location No. 100877 525 West 'A' Street, Hayward, California

Well	Sampling	TOC	DTW	GWE ¹	PSH	TPHg	В	${f T}$	E	X	MTBE
No.	Date	(feet)	(feet)	(feet)	(feet)	(μg/ L)	(µg/L)	(μg/L)	(μg/L)	(µg/L)	(μg/L)
MW-7	12/4/96	42.70	16.43	26.27	0.00	7,800	67	<	600	350	22
(Cont.)	4/8/97 ^{NP}	42.70	14.10	28.60	0.00	5,600	42	<	240	96	<
,	6/30/97	42.70	15.51	27.19	0.00	5,500	<	79	<	44	280
	11/25/97	42.70	16.80	25.90	0.00	2,400	23	5.4	<	54	120
	6/1/98	42,70	10.31	32.39	0.00	14,000	190	50	680	400	160
	6/14/01	42.70	15.46	27.24	0.00	6,400	29	6	200	55	<20
	11/7/01 ²	42.70	••								
	1/30/02	42.70	14.97	27.73	0.00	6,200	1.5	<0.5	96	4.6	< 0.5
						,					
MW-8*	6/23/93	97.61	17.64	79.97	0.00	350	43	9	35	67	
	9/30/93	97.61	18.85	78.76	0.00	2,700	190	340	170	720	
	2/6/94	97.61	18.91	78.70	0.00	<100	<1	1	1	2	
	5/2/94	97.61	18.11	79.50	0.00	<100	<1	3	<1	7	
	7/1/94	97.61	18.43	79.18	0.00	300	18	48	19	37	
	9/20/94	97.61	21.43	76.18	0.00	<100	<1	<1	<1	<1	
	12/5/94	97.61	18.72	78.89	0.00	<50	<0.5	<0.5	<0.5	<0.5	
	3/10/95	97.61	18.69	78.92	0.00				-0.5		
	3/14/95	97.61	14.83	82.78	0.00	<50	< 0.5	< 0.5	<0.5	. 1	
	9/23/96	97.61	15.83	81.78	0.00	<	<	<	<	·	<
	12/4/96	97.61									
	4/8/97	97.61									
	6/30/97	97.61									
	11/25/97	97.61									
	6/1/98	97.61									
								~~	~~		
	6/14/01	97.61									
	11/7/01	97.61							~-		
	1/30/02	97.61							~-		
MW-9*	6/23/93	95.41	15.94	79.47	0.00	45,000	14,000	1,200	2,800	12,000	
2.2	9/30/93	95.41	17.05	78.36	0.00	86,000	22,000	1,100	3,300	15,000	
	2/6/94	95.41	17.07	78.34	0.00	43,000	10,000	460			
	5/2/94	95.41	16.24	79.17					2,100	7,500	
	7/1/94				0.00	17,000	5,400	270	1,300	4,700	
		95.41	16.59	78.82	0.00	10,000	2,100	120	450	1,300	
	9/20/94	95.41	19.61	75.80	0.00	7,500	2,200	97	400	1,200	
	12/5/94	95.41	16.85	78.56	0.00	10,000	2,700	130	530	1,600	
	3/10/95	95.41									
	3/14/95	95.41	14.18	81.23	0.00	18,000	5,900	270	1,200	3,680	
	9/23/96	95.41									
	12/4/96	95.41									~-
	4/8/97	95.41									
	6/30/97	95.41									
	11/25/97	95.41									
	6/1/98	95.41									
	6/14/01	95.41									
	11/7/01	95.41									
	1/30/02	95.41									
MW-10*	6/23/93	97.11	17 20	70.75	0.00	25.000	000	C10	2 500	10.00-	
141 AA - 1 A			17.39	79.72	0.00	35,000	980	640	3,500	12,000	
	9/30/93	97.11	18.58	78.53	0.00	4,000	230	12	100	680	
	2/6/94	97.11	18.61	78.50	0.00	2,000	69	12	220	120	
	5/2/94	97.11	17.83	79.28	0.00	710	16	6	85	62	
	7/1/94	97.11	18.17	78.94	0.00	2,000	52	43	120	210	
	9/20/94	97.11	21.15	75.96	0.00	2,800	34	16	270	560	
		07 11	10 42	78.68	0.00	2 700	20	1.2	0.00		
	12/5/94	97.11	18.43			2,700	30	13	260	430	
	12/5/94 3/10/95 3/14/95	97.11 97.11 97.11	15.37 15.93	81.74 81.18	0.00	2,700 1,400	 18		260	430 	

Former E-Z Serve Location No. 100877 525 West 'A' Street, Hayward, California

Well	Sampling	TOC	DTW	GWE ¹	PSH	TPHg	В	T	E	X	MTBE
No.	Date	(feet)	(feet)	(feet)	(feet)	(μg/L)	(μg/L)	(µg/L)	(μ g /L)	(μg/L)	(μg/L)
MW-10*	9/23/96	97.11	15.59	81.52	0.00	3,800	4	2.9	220	170	397
(Cont.)	12/4/96	97.11	16.15	80.96	0.00	4,600	1.6	7.7	260	150	20
	4/8/97	97.11									
	6/30/97	97.11									
	11/25/97	97.11									
	6/1/98	97.11									
	6/14/01	97.11									
	11/7/01	97.11									
	1/30/02	97.11									
	1,50,02	271.2.									
MW-11*	2/10/95	92.68	11.80	80.88	0.00	7,000	140	22	600	1,000	
141 44 - 1 1	3/10/95	92.68	11.58	81.10	0.00						
	3/10/95	92.68	13.96	78.72	0.00	6,000	200	17	750	1,276	
	3/14/93 9/23/96	92.68	12.29	80.39	0.00	27,000	55	81	300	3,500	40
	12/4/96	92.68	10.51				200	100	2 000	2.700	
	4/8/97	92.68	10.51	82.17	0.00	24,000	280	130	3,000	3,700	<
	6/30/97	92.68									
	11/25/97	92.68									-
	6/1/98	92.68									
	6/14/01	92.68									
	11/7/01	92.68									
	1/30/02	92.68									
MW-12	2/10/95	43.25	16.30	26.95	0.00	<50	<0.5	<0.5	<0.5	<0.5	
	3/10/95	43.25	16.37	26.88	0.00						
	3/14/95	43.25	15.69	27.56	0.00	<50	< 0.5	< 0.5	< 0.5	0.9	
	9/23/96	43.25	16.67	26.58	0.00	<	<	1.6	<	<	<
	12/4/96	43.25	17.16	26.09	0.00	<	3.2	<	1.9	3.4	<
	4/8/97 ^{NP}	43.25	14.88	28.37	0.00	<	<	<	<	<	<
	6/30/97	43.25	16.33	26.92	0.00						
	11/25/97	43.25	17.61	25.64	0.00						
	6/1/98	43.25	11.58	31.67	0.00						
	6/14/01	43.25	16.62	26.63	0.00	<50	< 0.50	< 0.50	< 0.50	< 0.50	<5.0
	11/7/01 ²	43.25	17.91	25.34	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	1/30/02	43.25	15.60	27.65	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5
			15.00								.0.2
MW-13	2/10/95	40.97	14.45	26.52	0.00	<50	< 0.5	< 0.5	< 0.5	< 0.5	
	3/10/95	40.97	14.30	26.67	0.00						
	3/14/95	40.97	15.81	25.16	0.00	<50	< 0.5	< 0.5	< 0.5	1	
	9/23/96	40.97	14.60	26.37	0.00	<	<	0.80	1	<	<
	12/4/96	40.97									
	4/8/97 ^{NP}	40.97	12,75	28.22	0.00	<	<	<	<	<	<
	6/30/97	40.97	14.13	26.84	0.00						
	11/25/97	40.97	15.48	25.49	0.00						
	6/1/98	40.97	9.58	31.39	0.00						
	6/14/01	40.97	14.51	26.46	0.00	<50	< 0.50	< 0.50	< 0.50	< 0.50	<5.0
	11/7/01 ²	40.97	15.85	25.12	0.00	<50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	1/30/02	40.97	13.65	27.32	0.00	<50	<0.5	<0.5	<0.5	< 0.5	< 0.5
MW-14	2/10/95	43.19	16.28	26.91	0.00	12,000	42	8	740	2,100	-
•	3/10/95	43.19	16.33	26.86	0.00	,	••				
	3/14/95	43.19	14.87	28.32	0.00	1,400	6	2	36	298	
	9/23/96	43.19	16.67	26.52	0.00	6,400	2.8	<	690	96	9.6
	12/4/96	43.19	17.06	26.13	0.00	9,500	6.3	<	1,100	400	30
	4/8/97 ^{NP}	43.19	14.77	28.42	0.00	2,900	<	2.7	220	21	<
	6/30/97	43.19	16.22	26.97	0.00	2,300 74	1.3	<	0.51	0.68	<
	0/30/9/	43.19	10.22	20.77	0.00	/4	1.3	_	0.51	0.08	_

Former E-Z Serve Location No. 100877 525 West 'A' Street, Hayward, California

Well	Sampling	TOC	DTW	\mathbf{GWE}^1	PSH	TPHg	В	T	\mathbf{E}	X	MTBE
No.	Date	(feet)	(feet)	(feet)	(feet)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)
MW-14	11/25/97	43.19	17.52	25.67	0.00	<	<	<	<	<	<
(Cont.)	6/1/98	43.19	11.46	31.73	0.00	<50	<0.5	< 0.5	< 0.5	< 0.5	<5
	6/14/01	43.19	16.53	26.66	0.00	470	< 0.5	< 0.5	2.8	1	<5
	11/7/01 ²	43.19	17.84	25.35	0.00	<50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	1/30/02	43.19	15.55	27.64	0.00	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

No known groundwater monitoring or sampling was conducted between June 1, 1998 and June 14, 2001 and June 14, 2001 and November 7, 2001. Wellhead elevations resurveyed on January 30, 2002.

TOC = Top of casing referenced to USGS benchmark [elevation = 48.50 feet above mean sea level].

DTW = Depth to water measured from top of casing.

GWE = Groundwater elevation as referenced to benchmark in feet above mean sea level.

TPHg = Total Petroleum Hydrocarbons as gasoline (EPA Method 8015).

B = Benzene (EPA Method 602 or 8020/1).

T = Toluene (EPA Method 602 or 8020/1).

E = Ethylbenzene (EPA Method 602 or 8020/1).

X = Total Xylenes (EPA Method 602 or 8020/1).

MTBE = Methyl t-Butyl Ether (EPA Method 8020 or 8021).

SHEEN = Discontinuous, non-measurable thickness of PSH.

PSH = Phase Separate Hydrocarbon thickness in feet.

 $\mu g/L$ = Micrograms per liter (~parts per billion).

< = Sample reported as "not detected," in previous tables, reporting limit not known.

^{NP} = No-purge sample collection method implemented and continued, beginning April 8, 1997..

¹ = If PSH present, corrected GWE = TOC - Measured DTW + Corrected PSH Thickness (PSH Thickness x gas density [0.75 g/cc]).

² = All analysis performed by EPA Method 8260 beginning on November 7, 2001.

* = Wellhead elevation not re-surveyed on January 30, 2002. Previous arbitrary benchmark used as elevation refrence.

-- = Not measured, surveyed, sampled, or analyzed.

Table 2 Groundwater Sample Analytical Results for Fuel Oxygenates

Former E-Z Serve Location No. 100877 525 West 'A' Street, Hayward, California

Well	Sampling	DIPE	ETBE	MTBE	TAME	TBA
No.	Date	(µg/L)	(µg/L)	(μg/L)	(μg/L)	(µg/L)
MW-1	11/7/01	<5.0	<5.0	11	<5.0	<50
	1/30/02	<5.0	<5.0	14	<5.0	<50
MW-1A	11/7/01	<5.0	<5.0	<5.0	<5.0	<50
	1/30/02	<5.0	<5.0	<5.0	<5.0	<50
MW-2	11/7/01	<5.0	<5.0	21	<5.0	<50
	1/30/02	<5.0	<5.0	56	<5.0	<50
MW-3	11/7/01	<5.0	<5.0	<5.0	<5.0	<50
	1/30/02	<5.0	<5.0	<5.0	<5.0	<50
MW-4	11/7/01	<5.0	<5.0	27	<5.0	<50
	1/30/02	<5.0	<5.0	42	<5.0	<50
MW-5	11/7/01	<5.0	<5.0	<5.0	<5.0	<50
	1/30/02	<20	<20	<20	<20	<200
MW-6	11/7/01	<5.0	<5.0	<5.0	<5.0	<50
	1/30/02	<5.0	<5.0	<5.0	<5.0	<50
MW-7	11/7/01					
	1/30/02	<5.0	<5.0	<5.0	<5.0	<50
MW-12	11/7/01	<0.5	<0.5	<0.5	<0.5	<5.0
	1/30/02	<0.5	<0.5	<0.5	<0.5	<5.0
MW-13	11/7/01	<0.5	<0.5	<0.5	<0.5	<5.0
	1/30/02	< 0.5	<0.5	<0.5	<0.5	<5.0

Notes: All samples were collected utilizing no-purge sampling methodology. See Table 1 for historic MTBE results.

Laboratory results performed by EPA Method 8260.

DIPE = Di-isopropyl Ether

ETBE = Ethyl tert-Butyl Ether

MTBE = Methyl-tert-Butyl Ether

TAME = tert-Amyl Methyl Ether

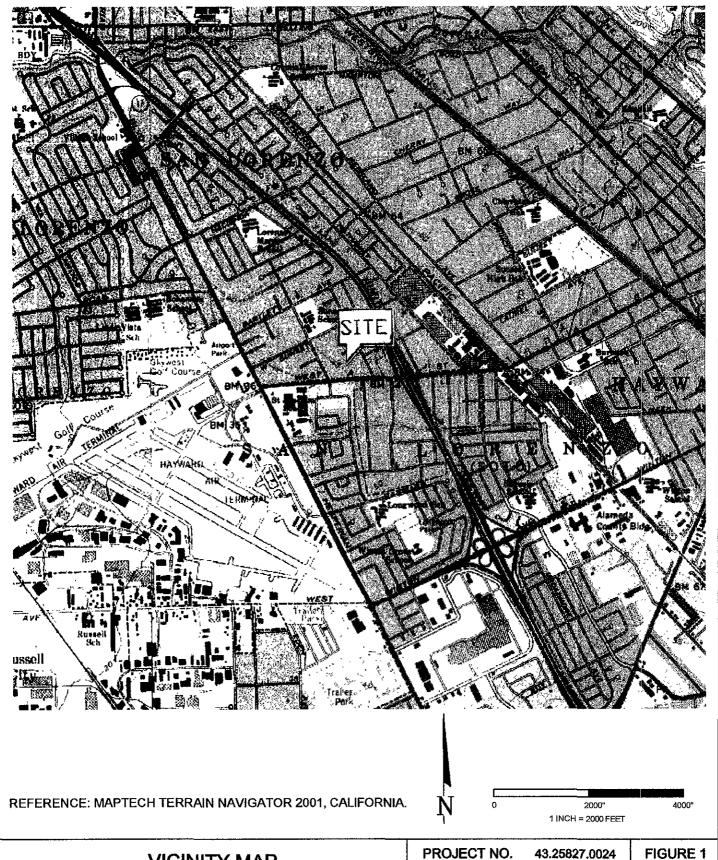
TBA = tert-Butanol

 μ g/L = micrograms per liter (~parts per billion)

< = Analytical results below the given laboratory detection limit.

-- = Not sampled or analyzed.

FIGURES



VICINITY MAP

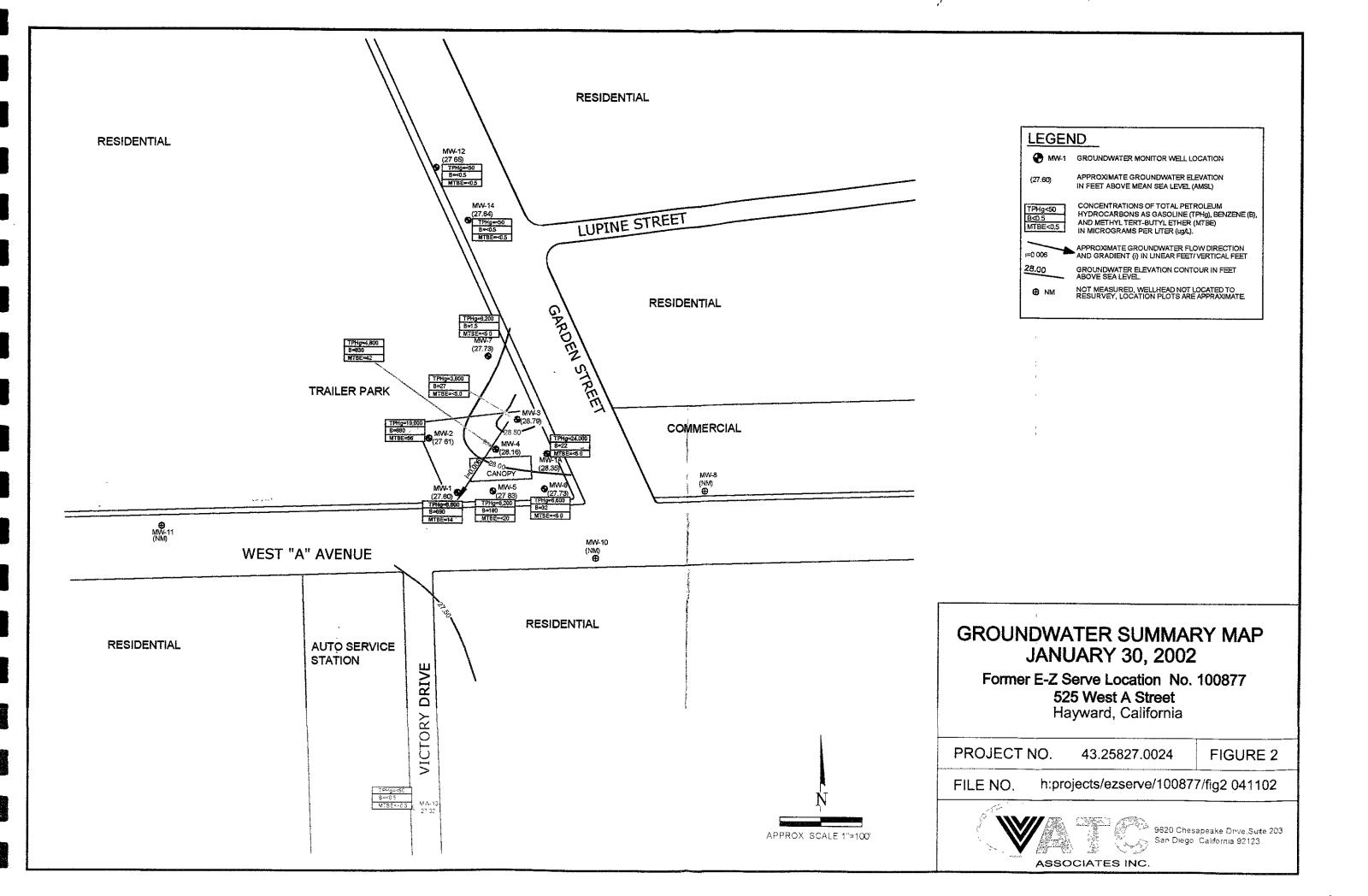
Former E-Z Serve Location No. 100877 525 West A Street Hayward, California

FILE NO.

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9620 Chesapeake Drive, Suite 203 San Diego, California 92123



APPENDICES

APPENDIX A GROUNDWATER MONITORING AND SAMPLING PROCEDURES, AND FIELD LOGS



GROUNDWATER MONITORING AND SAMPLING PROCEDURES

(Includes No-Purge Sampling)

Groundwater Monitoring and Decontamination Method

Prior to beginning, a decontamination area is established. Decontamination procedures consist of scrubbing down-well equipment in a Liquidnox[®] solution wash (or equivalent degreasing compound), and rinsing in potable water and a final rinse of de-ionized (or distilled) water before and after each well. Any non-dedicated down-well equipment is decontaminated prior to use on site.

Prior to purging and sampling a well, the static water level is measured to the nearest 0.01 feet with an electronic interface probe and/or water level meter. Depth to bottom is typically measured every quarterly event. The water level meter and tape will be decontaminated between each well. If floating phase-separated hydrocarbons (PSH) are suspected or previously confirmed, an electronic interface probe is used to measure the well fluids to the nearest 0.01 feet. PSH may alternatively be measured using a clear, open-ended product bailer, and the thickness is measured to the nearest 0.01 feet in the bailer. Any monitoring well containing a measurable thickness of PSH before or during purging is not additionally purged and no sample is collected from that well. Wells containing hydrocarbon sheen are sampled unless otherwise specified by the project manager. Field observations such as well integrity as well as water level measurements and PSH thickness are recorded in the field.

Well Purging

When well purging is required, each monitoring well to be sampled is purged using, a truck-mounted vacuum pump, a polyvinyl chloride (PVC) bailer or a submersible pump. Physical parameters (pH, temperature, and conductivity) of the purge groundwater are monitored during purging activities to assess if the water sample collected is representative of the aquifer. If required, parameters such as dissolved oxygen, turbidity, salinity etc. are also measured. Samples are considered representative if parameter stability is achieved. Stability is defined as a change of less than 0.25 pH units, less than 10% change in conductivity in micro mhos, and less than 1.0 degree centigrade (1.8 degrees Fahrenheit) change in temperature. Parameters are measured in a discreet sample decanted from the bailer separately from the rest of the purge groundwater. Parameters are measured during purging; initially, and at volume intervals of one well or borehole volume (dependent on local regulations). Purging continues until the required well or borehole volumes have been removed, until the well completely dewaters, or until measured parameters stabilize as indicated above. When wells dewater or demonstrate a slow recharge, wells may be sampled although fewer than required volumes have been removed. Well purging information is recorded on the Purge Data sheet. All meters used to measure parameters are calibrated daily. Purge water is sealed, labeled, and stored on site in D.O.T.-approved 55-gallon drums. After being chemically profiled, the water is transported to an appropriate disposal facility by a licensed waste hauler.

Groundwater Sample Collection

After purging, groundwater samples are collected after at least 80% of its static water level is recovered in the well. If recharge is extremely slow, the well is allowed to recharge until sufficient volume has accumulated for sample collection. No-purge groundwater samples are collected when prior approval by the lead regulatory agency has been permitted. When no-purge samples are collected the same procedures are followed excluding well purging. All groundwater samples are collected using polyethylene disposable bailers attached with new, clean string or rope. Groundwater samples being analyzed for compounds most sensitive to volatilization are collected first. Groundwater samples are placed in appropriate laboratory-supplied containers, labeled, documented on a chain of custody form and preserved on ice in a cooler for transport to a state-certified analytical laboratory. After collection, all samples are stored in a chilled cooler and refrigerated to approximately four (4) degrees Celsius while a laboratory representative transports the samples to their facility. Analytical detection limits match or surpass standards required by relevant local or regional guidelines.



QUALITY ASSURANCE / QUALITY CONTROL (QA/QC) PROCEDURES

Field Procedures

To prevent contamination of the samples and/or cross-contamination of monitoring wells ATC personnel adhere to the following procedures in the field:

- New, clean pair of appropriate disposable gloves is dawned prior to sampling each well.
- Wells are gauged and purged in the expected order of increasing degree of contamination based on historical analytical results.
- All purging equipment will be thoroughly decontaminated between each well using the procedures previously described at the beginning of this section.
- During sample collection for volatile organic analysis, the amount of air passing through the sample is minimized. This helps prevent the air from stripping the volatiles from the groundwater. Sample bottles are filled by slowly running the sample down the side of the bottle until there is a convex meniscus over the mouth of the bottle. The lid is carefully screwed onto the bottle such that no air bubbles are present within the bottle. If a bubble is present, the cap is removed and additional water is added to the sample container. After resealing the sample container, if bubbles still are present inside, the sample container is discarded and the procedure is repeated with a new container.

Sample Control

Laboratory and field handling procedures may be monitored, if required by the client or local regulatory agency, by including quality control (QC) samples for analysis with the groundwater samples. Examples of different types of QC samples are as follows:

- Trip blanks are prepared at the analytical laboratory, by laboratory personnel to check handling procedures while in the field, as required by site conditions and local regulations. Trip blanks are transported to the project site in the same manner as the laboratory-supplied sample containers to be filled. They are not opened, and are returned to the laboratory with the samples collected. Trip blanks are analyzed for purgable organic compounds.
- Equipment blanks are prepared in the field to determine if decontamination of field sampling
 equipment has been effective, as required by site conditions and local regulations. The sampling
 equipment used to collect the groundwater samples is rinsed with distilled water that is then
 decanted into laboratory-supplied containers. The equipment blanks are transported to the
 laboratory, and are analyzed for the same chemical constituents as the samples collected at the site.
- Duplicates (split samples) are collected at the same time that the standard groundwater samples are being collected and are analyzed for the same compounds in order to check the reproducibility of laboratory data. They are typically only collected from one well per sampling event, as required by site conditions and local regulations. The duplicate is assigned an identification number that will not associate it with the source well.

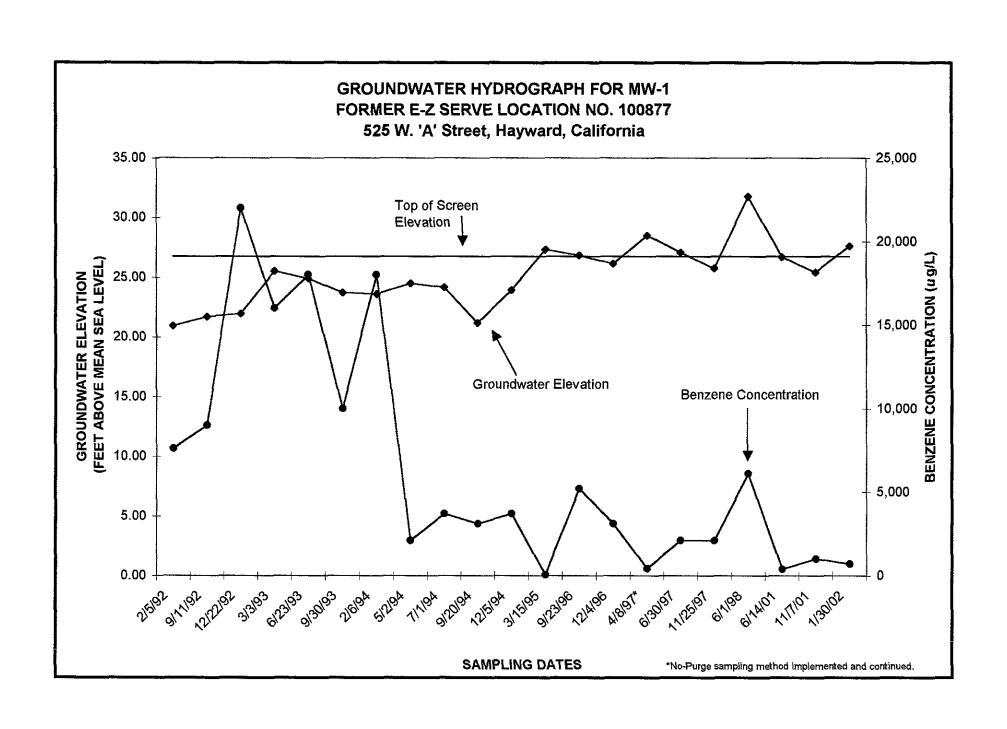
Generally, trip blanks and field blanks check field handling and transportation procedures. Duplicates check laboratory procedures. The configuration of QC samples is determined by ATC depending on site conditions and regulatory requirements.

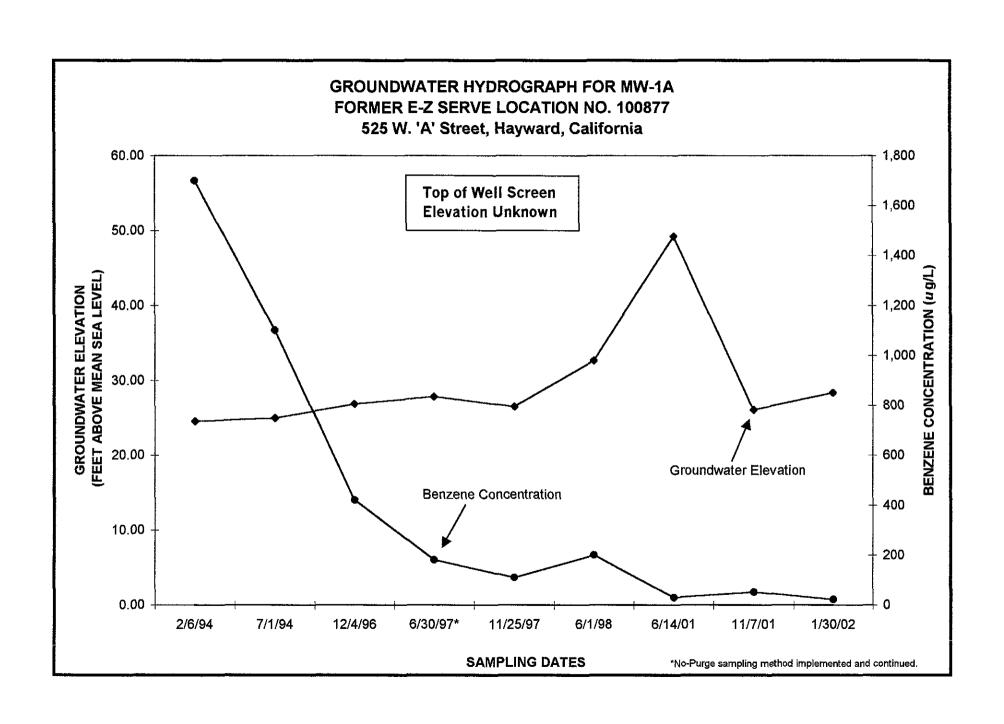


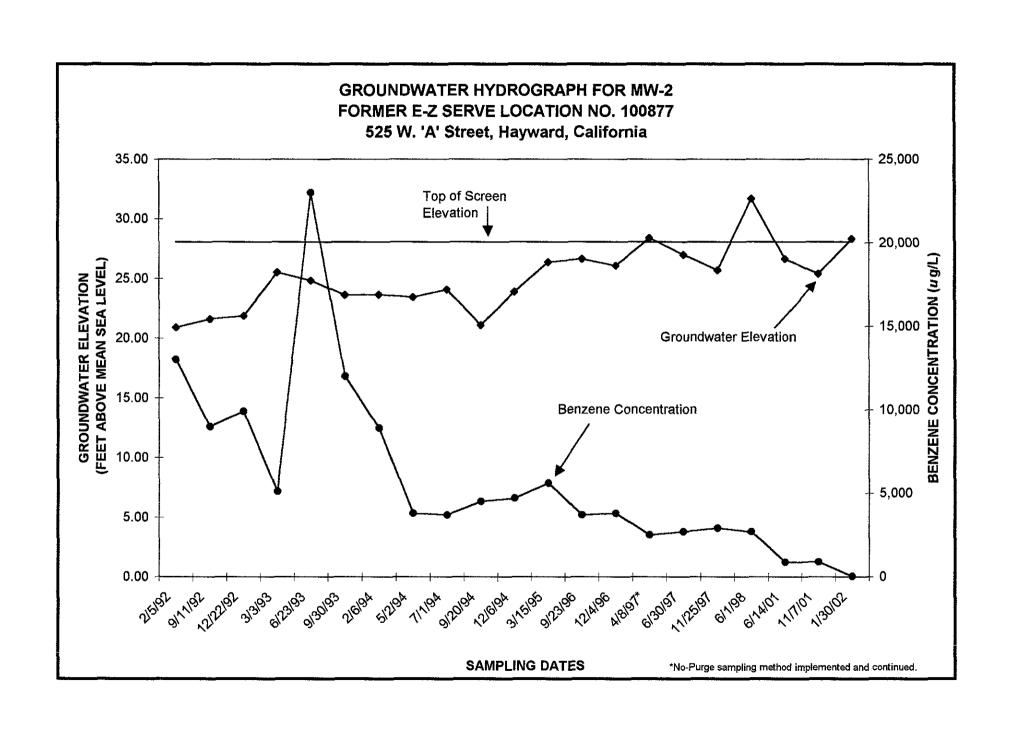
NO-PURGE SAMPLING LOG

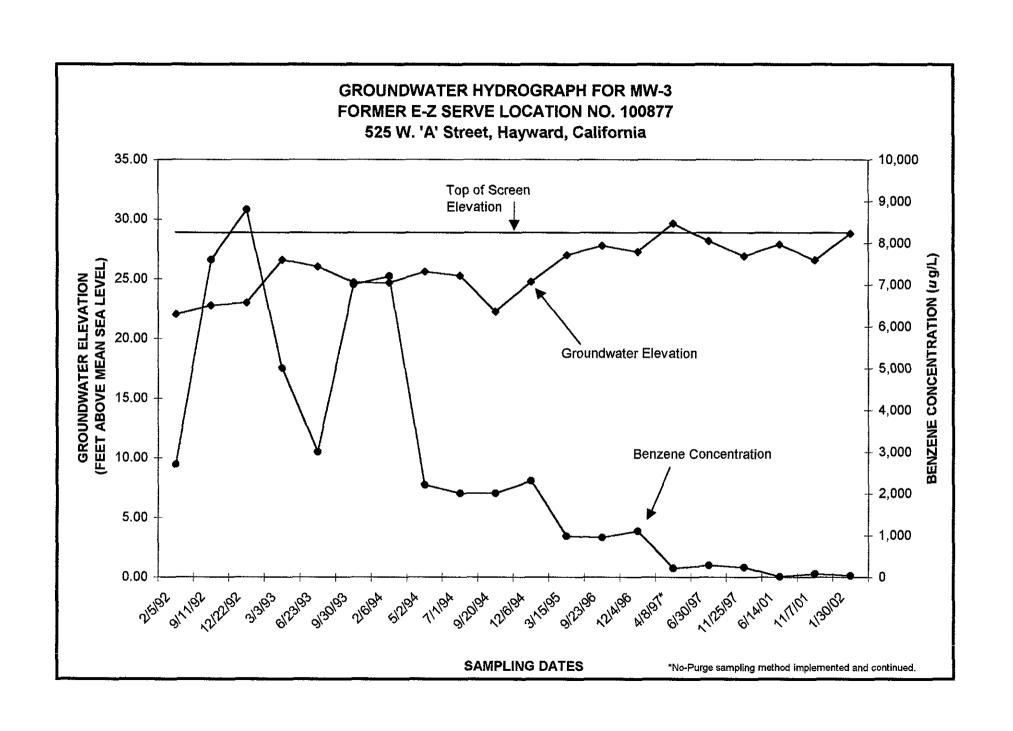
							Date:	1-3	30 - 0	7_
Project Name:	Former E-Z Se	rve Location	No. 10087	7		· · · · · · · · · · · · · · · · · · ·	Project No.:			
Project Addres	s/City/County: 1	01 Broadwa	y, KING CIT	Y, CA / Mo	onterey Coun	ty	.			
Water Level 1	Meter Type/ID:				Interface Probe					
	Н	eron 5882					N/A			
					:					
	Danille Ta Matan		Containe		Filtered	Samula				
Well No.	Depth To Water (feet)	Time	Volu		(yes/no)	Sample Preservative	Requ	ested La	aboratory A	Analysis
MW-1A	15.83	9:10	3 x 40 m	L VOAs	No	Ice& Hcl	TPHg	/ BTEX	(/MTBE	+ OXYs
MW-1	14.15	920	"	11	91	" "	**	**	91	**
MW-2	15.65	9.32	"	**	,,	" "	"	**	"	**
MW-3	15.10	9:45	11	"	"	H 11	,,	"	"	
MW-4	14.60	9:50	11	••	**	" "	#	**	71	F P
MW-5	14.27	10:15	"	**	•••	11 11	"	11	11	16
MW-6	14.60	10:25	"	H	37	b1 \$7	"	**		11
MW-7	14.97	9:00	11	17	*1	f1 11	τι		17	91
8-WM	NN		"	11	¥f	11 11	11	11	"	4#
MW-9	MM		"	"	11	er sr		11		**
MW-10	NM		11	tr	11	71 11	"		••	**
MW-11	ИМ	~	***	17	71	** **	"	••	11	••
MW-12	15-60	11:15	**	**	. "		"	**	"	91
MW-13	13.65	1 ! 30	•••		••		"	11		
MW-14	15.55	11:00			.,	21 24	"	**	"	"
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ATC Personne	l On-Site: S.Levis		e						A.Z 84	
	On Site: None		>		>					
l		A market						1	,	

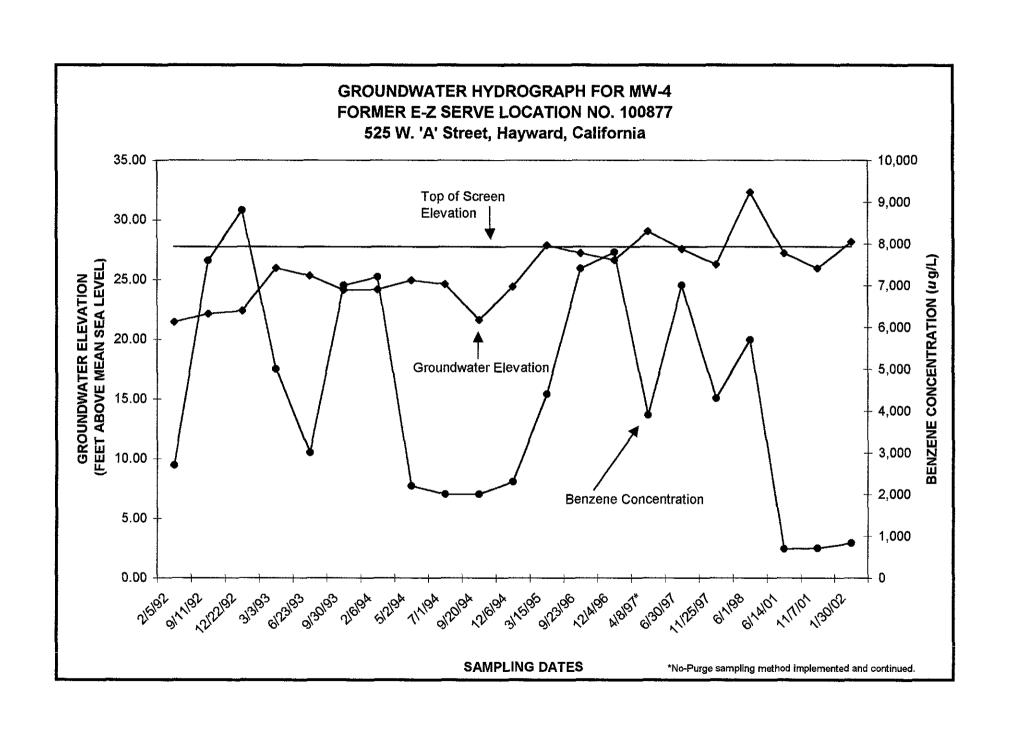
APPENDIX B HYDROGRAPHS

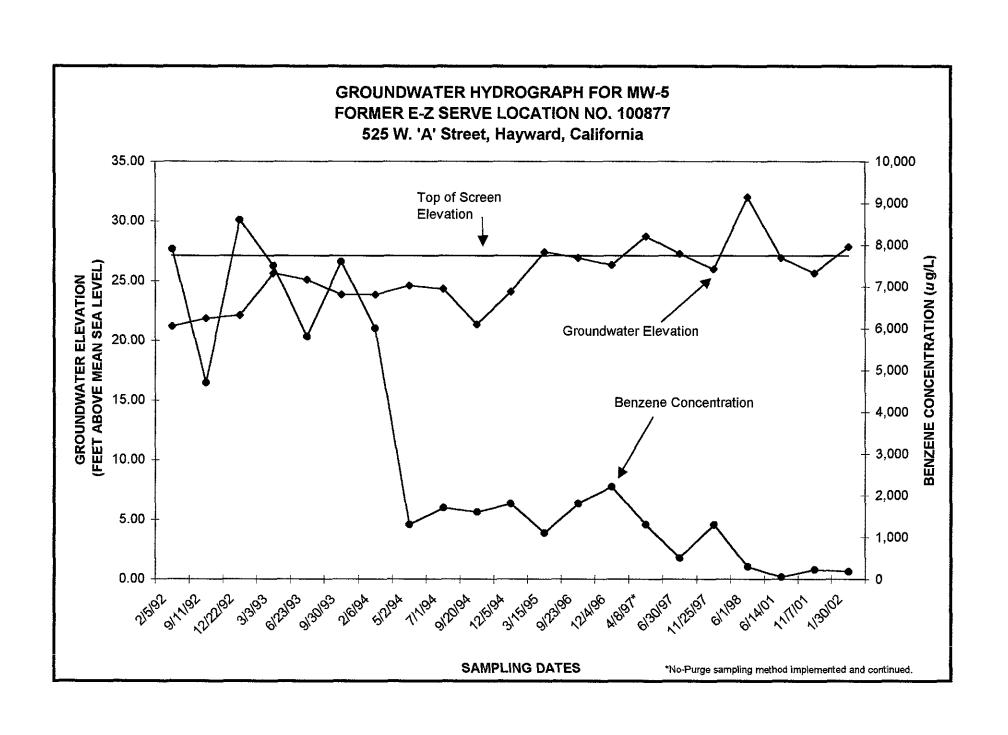


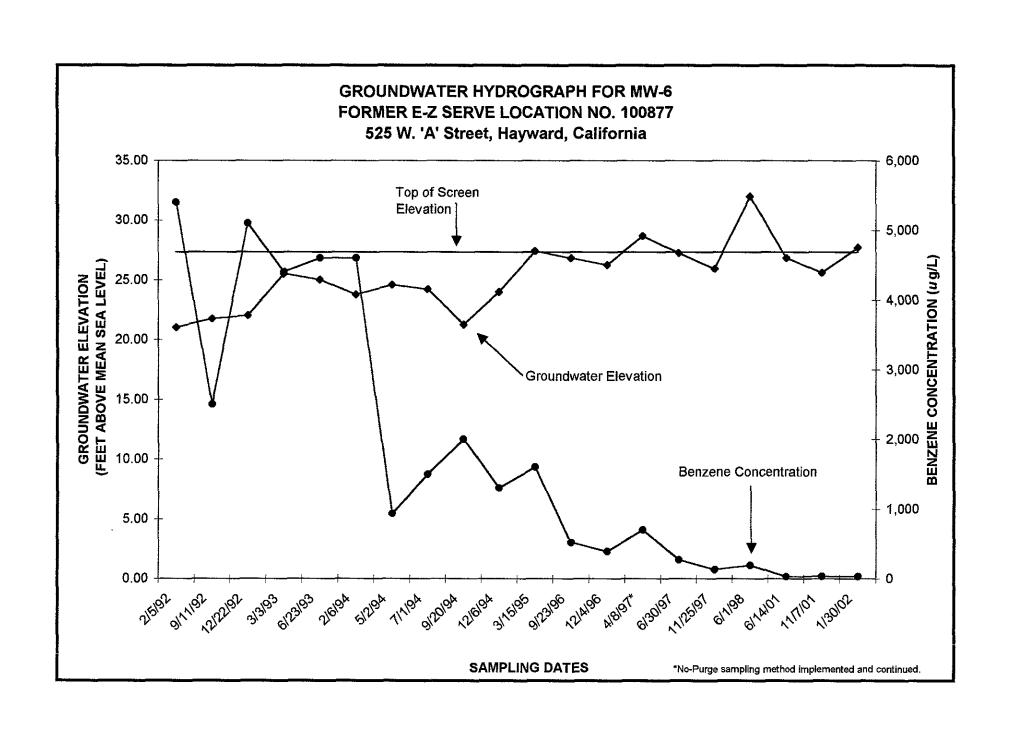


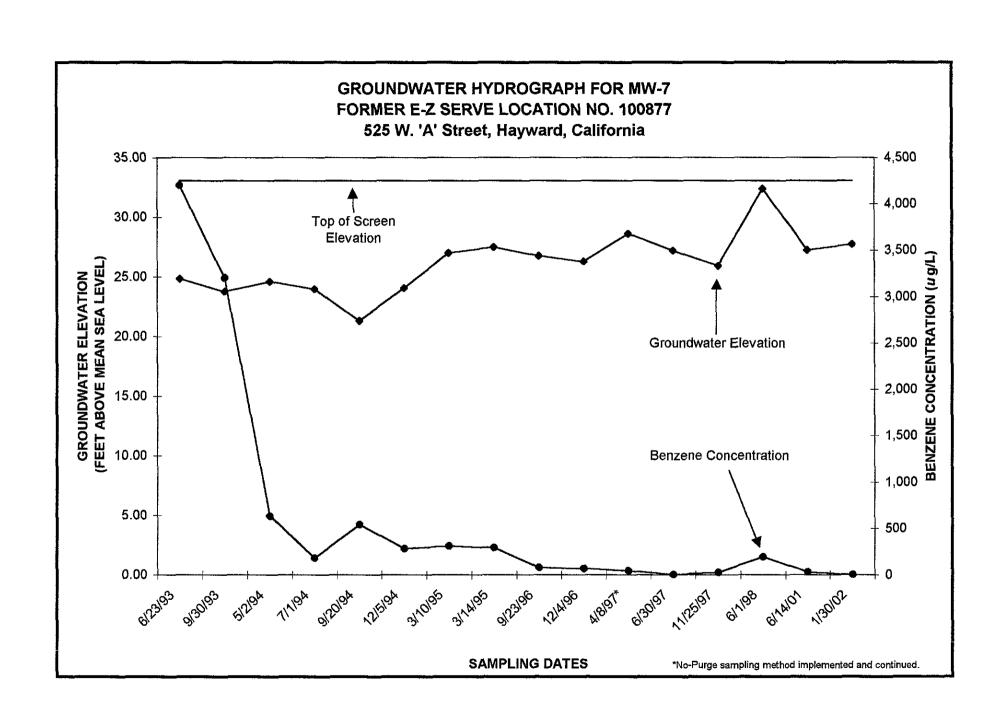


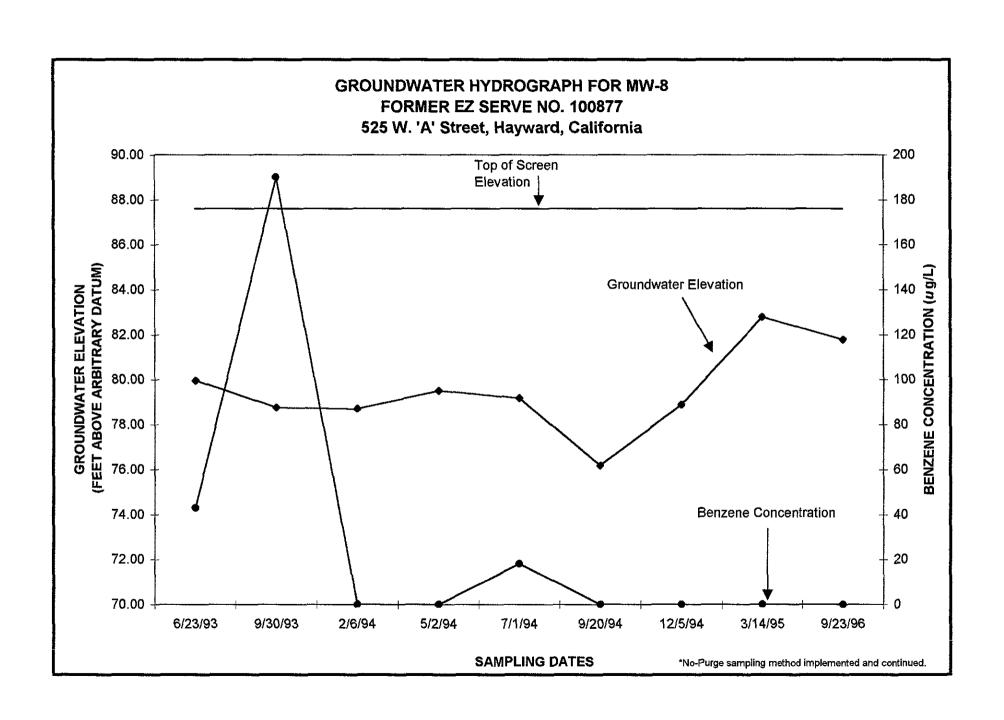


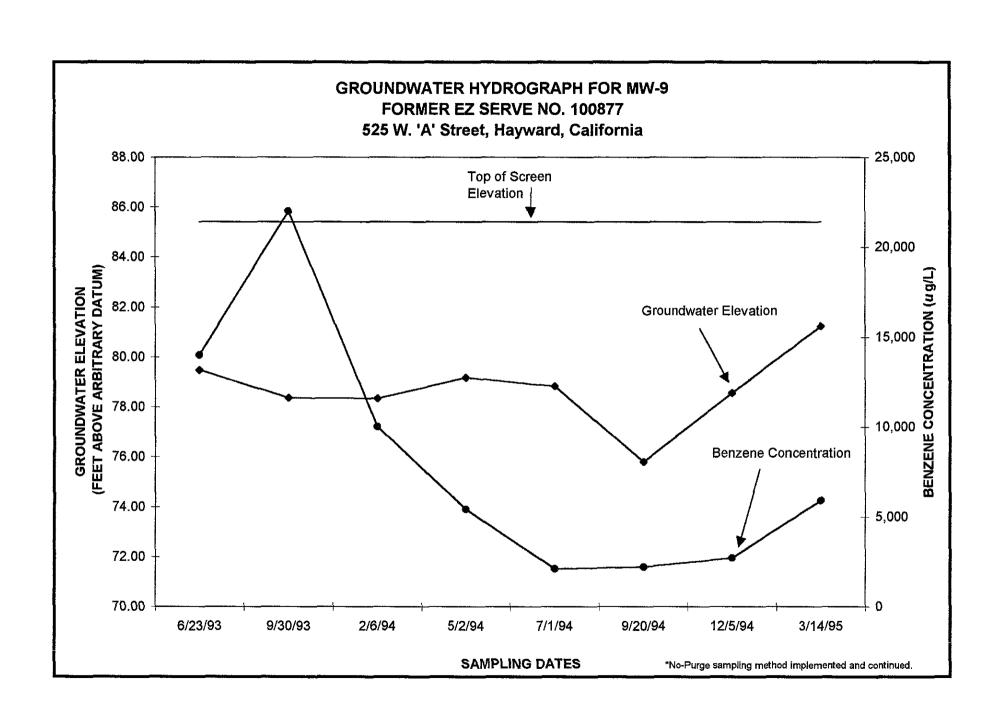


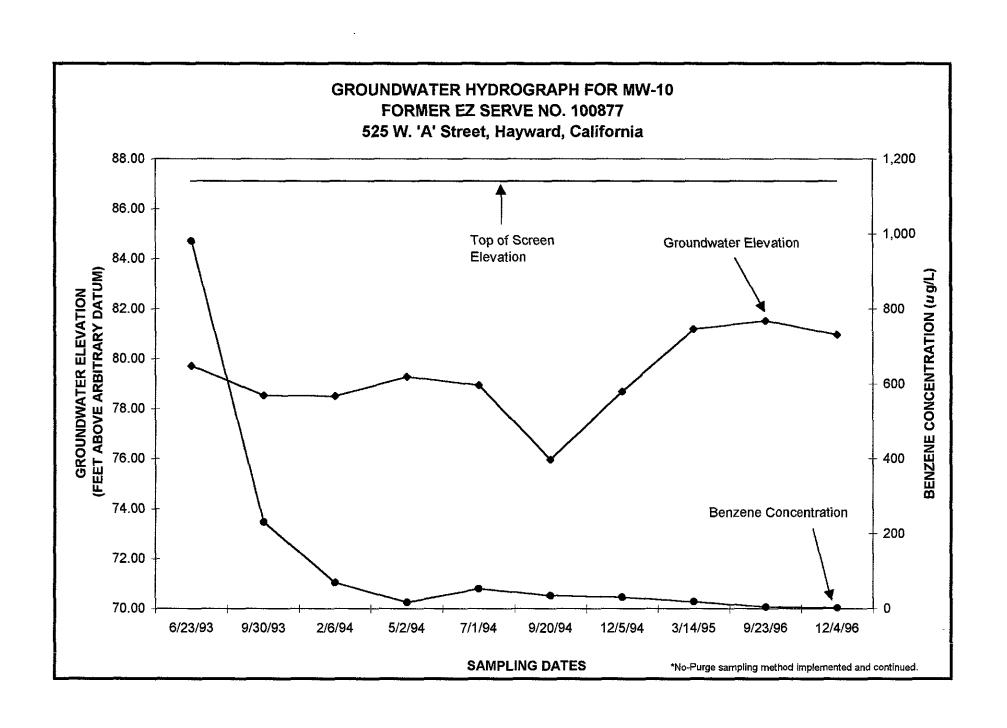


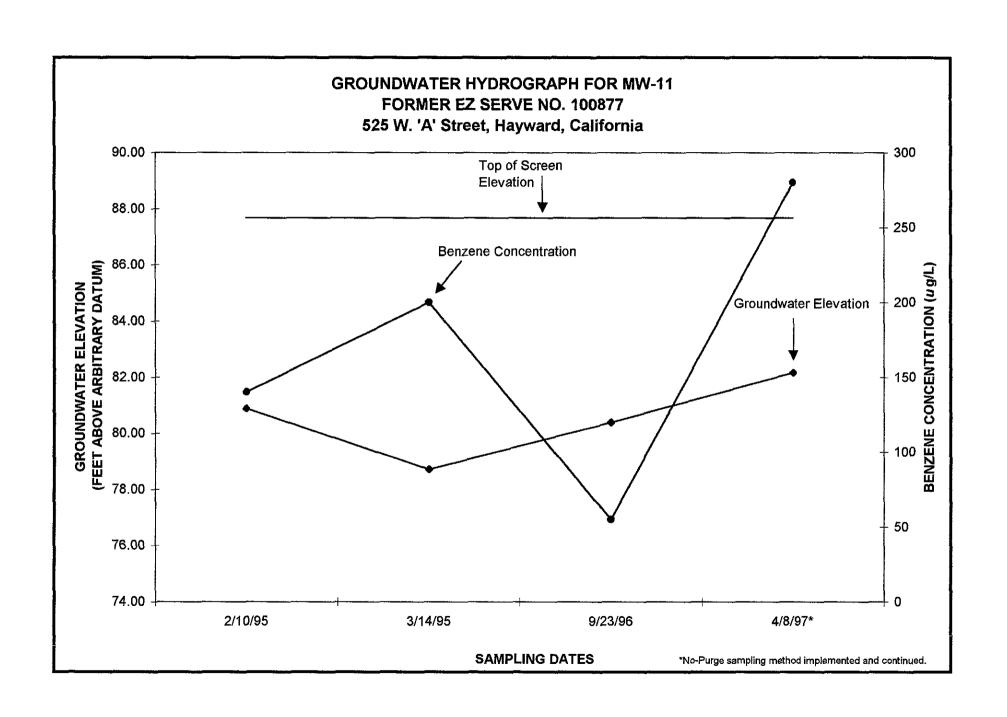


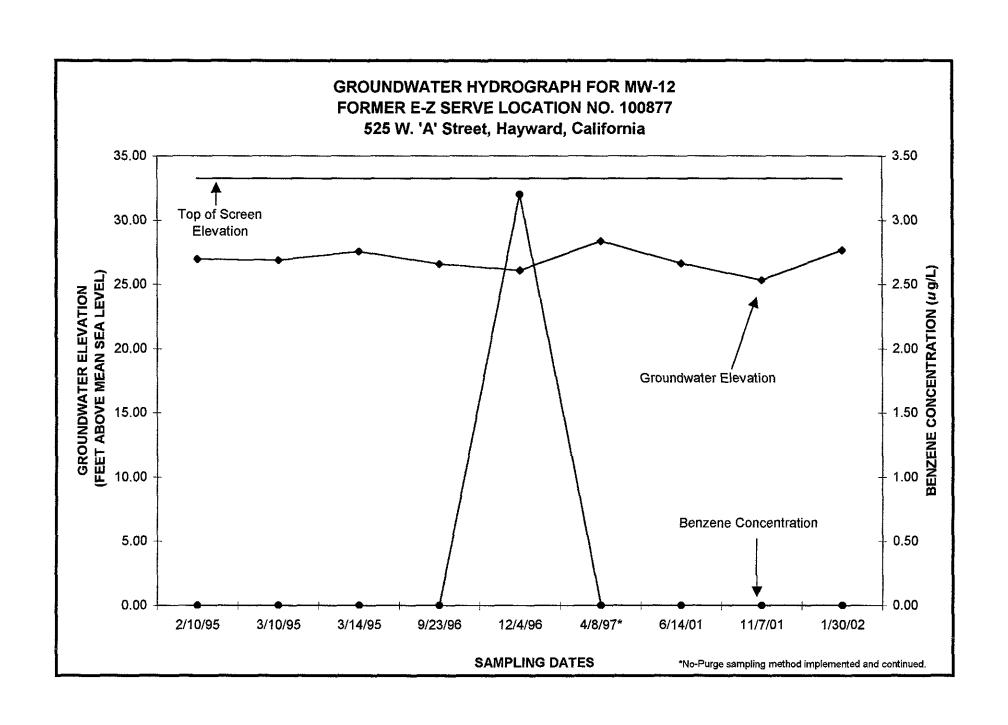


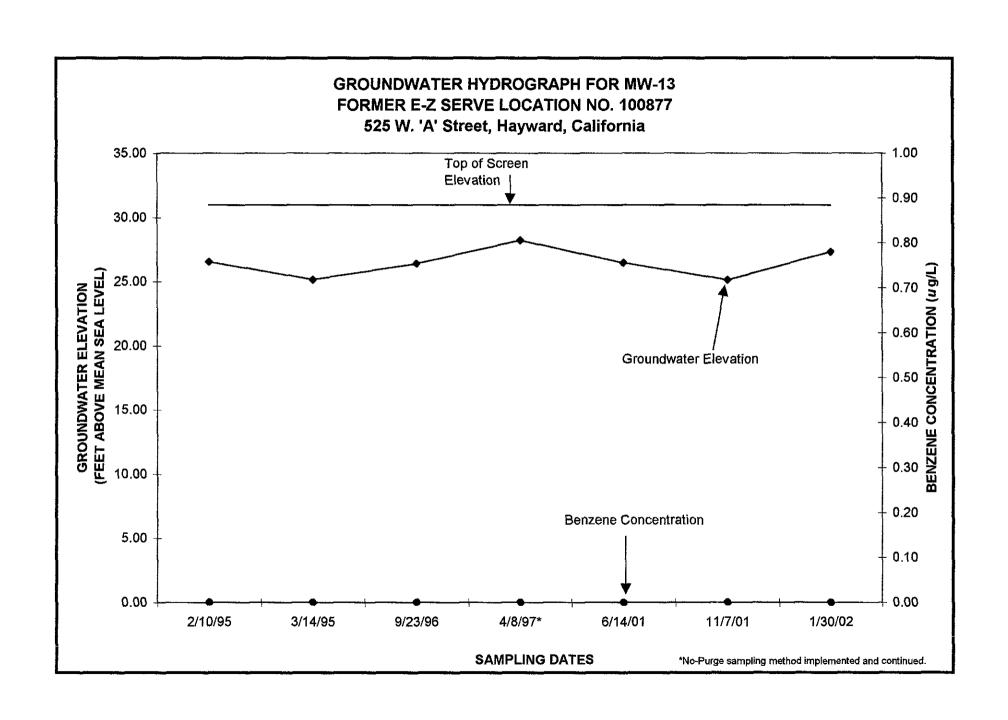


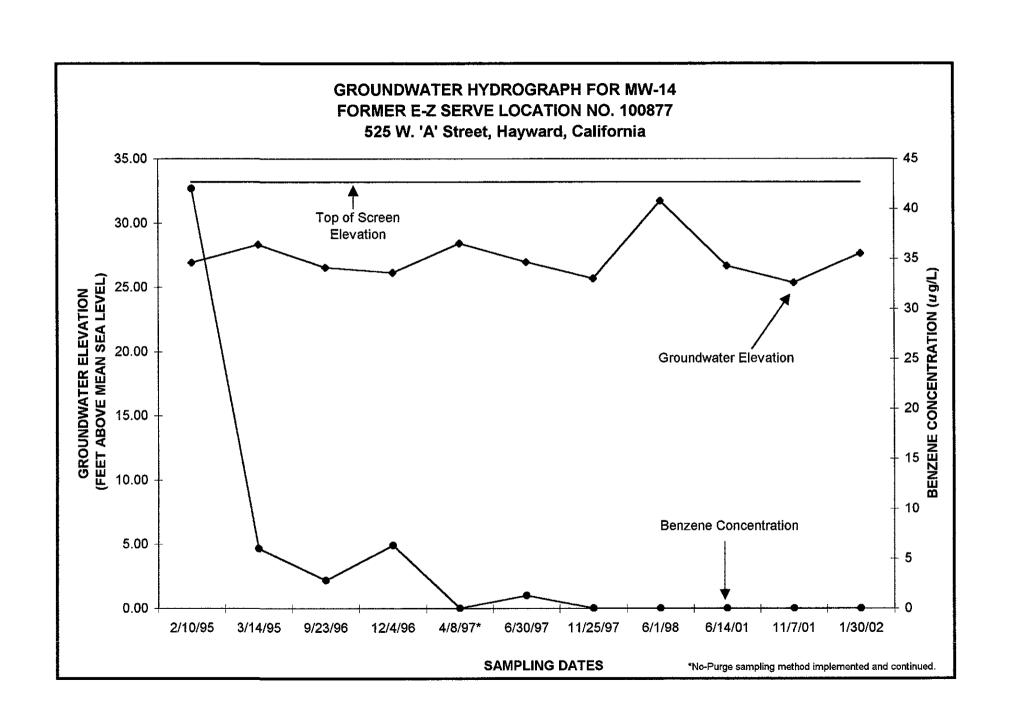












APPENDIX C

LABORATORY REPORT AND CHAIN-OF-CUSTODY RECORD



Client: Mike Davis

ATC Associates, Inc.

9620 Chesapeake Dr., Ste. 203

San Diego, CA 92123

Project: EZ Serve

#100877

Project Number: EZS0024

Collected by: Scott Levin

 Lab Number:
 26457-1

 Collected:
 01/30/02

 Received:
 01/30/02

 Matrix:
 Aqueous

Sample Description:

MW-1A

Analyzed: 02/04/02

Method: See Below

CONSTITUENT	PQL*	RESULT**
	ug/L	ug/L
Benzene	5.0	. 22.
Toluene	5.0	ND
Ethylbenzene	5.0	390.
Xylenes	5.0	330.
t-Amyl Methyl Ether (TAME)	5.0	ND
t-Butyl Alcohol (TBA)	· 50.	ND
Diisopropyl Ether (DIPE)	5.0	ND
Ethyl-t-Butyl Ether (ETBE)	5.0	ND
Methyl-t-Butyl Ether (MTBE)	5.0	ND
Percent Surrogate Recovery		113

TOTAL PETROLEUM HYDROCARBONS

Total Petroleum Hydrocarbons

500.

24000.

BTX as a Percent of Fuel

1

ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

Note: Analyzed by EPA 8260 and GC/MS Combination.

Note: Analytical range is C4-C12.

Note: TPH quantitated against gasoline.

Note: Oxygenates not included in TPH result.

Submitted by,

ZymaX envirotechnology, inc.

All .

Dwain Zsadanyi Project Manager

VA70204 MSD #7 26457-1.xls DZ/sks/pv/nl

^{*}PQL - Practical Quantitation Limit

^{**}Results listed as ND would have been reported if present at or above the listed PQL.



Client: Mike Davis

ATC Associates, Inc.

9620 Chesapeake Dr., Ste. 203

San Diego, CA 92123

Project: EZ Serve

#100877

Project Number: EZS0024

Collected by: Scott Levin

 Lab Number:
 26457-2

 Collected:
 01/30/02

 Received:
 01/30/02

 Matrix:
 Aqueous

Sample Description:

MW-1

Analyzed:

02/01/02

Method:

See Below

CONSTITUENT	PQL*	RESULT** ug/L
	ug/L	
Dames	F 0	200
Benzene 	5.0	690.
Toluene	5.0	16.
Ethylbenzene	5,0	480.
Xylenes	5.0	270.
t-Amyl Methyl Ether (TAME)	5.0	ND
t-Butyl Alcohol (TBA)	50.	ND
Diisopropyl Ether (DIPE)	5,0	ND
Ethyl-t-Butyl Ether (ETBE)	5.0	· ND
Methyl-t-Butyl Ether (MTBE)	5.0	14.
Percent Surrogate Recovery		99

TOTAL PETROLEUM HYDROCARBONS

Total Petroleum Hydrocarbons

500.

8800.

BTX as a Percent of Fuel

11

ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

Note: Analyzed by EPA 8260 and GC/MS Combination.

Note: Analytical range is C4-C12.

Note: TPH quantitated against gasoline.

Note: Oxygenates not included in TPH result.

Submitted by,

ZymaX envirotechnology, inc.

18 Aug

Dwain Zsadanyi Project Manager

VA70201 MSD #7 26457-2.xls DZ/sks/pv/nl/bp

^{*}PQL - Practical Quantitation Limit

^{**}Results listed as ND would have been reported if present at or above the listed PQL.



Client: Mike Davis

ATC Associates, Inc.

9620 Chesapeake Dr., Ste. 203

San Diego, CA 92123

Project: EZ Serve

#100877

Project Number: EZS0024

Collected by: Scott Levin

 Lab Number:
 26457-3

 Collected:
 01/30/02

 Received:
 01/30/02

 Matrix:
 Aqueous

Sample Description:

MW-2

Analyzed:

02/01/02

Method: See Below

CONSTITUENT	PQL*	RESULT**
	ug/L	ug/L
Benzene	5.0	880.
Toluene	5.0	19.
Ethylbenzene	5.0	1100.
Xylenes	5.0	2400.
t-Amyl Methyl Ether (TAME)	5.0	ND
t-Butyl Alcohol (TBA)	50.	ND
Diisopropyl Ether (DIPE)	5.0	ND
Ethyl-t-Butyl Ether (ETBE)	5.0	ND
Methyl-t-Butyl Ether (MTBE)	5.0	56.
Percent Surrogate Recovery		100

TOTAL PETROLEUM HYDROCARBONS

Total Petroleum Hydrocarbons

500.

19000.

BTX as a Percent of Fuel

17

ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

Note: Analyzed by EPA 8260 and GC/MS Combination.

Note: Analytical range is C4-C12.

Note: TPH quantitated against gasoline.

Note: Oxygenates not included in TPH result.

Submitted by,

ZymaX envirotechnology, inc.

All s.

Dwain Zsadanyi Project Manager

VA70201 MSD #7 26457-3.xls DZ/sks/pv/nl/bp

^{*}PQL - Practical Quantitation Limit

^{**}Results listed as ND would have been reported if present at or above the listed PQL.



Client: Mike Davis

ATC Associates, Inc.

9620 Chesapeake Dr., Ste. 203

San Diego, CA 92123

Project: EZ Serve

#100877

Project Number: EZS0024

Collected by: Scott Levin

 Lab Number:
 26457-4

 Collected:
 01/30/02

 Received:
 01/30/02

 Matrix:
 Aqueous

Sample Description:

E-WM

Analyzed:

02/01/02

Method:

See Below

CONSTITUENT	PQL*	RESULT**
	ug/L	ug/L
Benzene	5.0	27.
Toluene	5.0	ND
Ethylbenzene	5.0	120.
Xylenes	5.0	34.
t-Amyl Methyl Ether (TAME)	5.0	ND
-Butyl Alcohol (TBA)	50.	ND
Diisopropyl Ether (DIPE)	5.0	ND
Ethyl-t-Butyl Ether (ETBE)	5.0	ND
Methyl-t-Butyl Ether (MTBE)	5.0	ND
Percent Surrogate Recovery		97

TOTAL PETROLEUM HYDROCARBONS

Total Petroleum Hydrocarbons

500.

3600.

BTX as a Percent of Fuel

2

ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

Note: Analyzed by EPA 8260 and GC/MS Combination.

Note: Analytical range is C4-C12.

Note: TPH quantitated against gasoline.

Note: Oxygenates not included in TPH result.

Submitted by,

ZymaX envirotechnology, inc.

VA70201 MSD #7 26457-4.xls DZ/sks/pv/nl/bp

^{*}PQL - Practical Quantitation Limit

^{**}Results listed as ND would have been reported if present at or above the listed PQL.



Client: Mike Davis

Project:

ATC Associates, Inc.

9620 Chesapeake Dr., Ste. 203

San Diego, CA 92123

EZ Serve

#100877

Project Number: EZS0024

Collected by: Scott Levin

 Lab Number:
 26457-5

 Collected:
 01/30/02

 Received:
 01/30/02

 Matrix:
 Aqueous

Sample Description:

WW-4

Analyzed:

02/01/02

Method: See Below

CONSTITUENT	PQL*	RESULT**
	ug/L	ug/L_
Benzene	5.0	830.
Toluene	5.0	16.
Ethylbenzene	5.0	600.
Xylenes	5.0	61.
t-Amyl Methyl Ether (TAME)	5.0	ND
t-Butyl Alcohol (TBA)	50.	ND
Diisopropyl Ether (DIPE)	5.0	ND
Ethyl-t-Butyl Ether (ETBE)	5.0	ИD
Methyl-t-Butyl Ether (MTBE)	5.0	42.
Percent Surrogate Recovery		98

TOTAL PETROLEUM HYDROCARBONS

Total Petroleum Hydrocarbons

500.

4800.

BTX as a Percent of Fuel

19

ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

Note: Analyzed by EPA 8260 and GC/MS Combination.

Note: Analytical range is C4-C12.

Note: TPH quantitated against gasoline.

Note: Oxygenates not included in TPH result.

Submitted by,

ZymaX envirotechnology, inc.

Blum.

Dwain Zsadanyi Project Manager

VA70201 MSD #7 26457-5.xls DZ/sks/pv/nl/bp

^{*}PQL - Practical Quantitation Limit

^{**}Results listed as ND would have been reported if present at or above the listed PQL.



Client: Mike Davis

ATC Associates, Inc.

9620 Chesapeake Dr., Ste. 203

San Diego, CA 92123

Project: **EZ Serve**

#100877

Project Number: EZS0024

Collected by: **Scott Levin**

Lab Number: 26457-6 Collected: 01/30/02 Received: 01/30/02 Matrix: Aqueous

Sample Description:

MW-5

Analyzed:

02/04/02

Method: See Below

CONSTITUENT	PQL* ug/L	RESULT**
		ug/L
Benzene	20.	180.
Toluene	20.	ND
Ethylbenzene	20.	310.
Xylenes	20.	130.
t-Amyl Methyl Ether (TAME)	20.	ND
t-Butyl Alcohol (TBA)	200.	ND
Diisopropyl Ether (DIPE)	20.	ND
Ethyl-t-Butyl Ether (ETBE)	20.	ND
Methyl-t-Butyl Ether (MTBE)	20.	ND
Percent Surrogate Recovery		99

TOTAL PETROLEUM HYDROCARBONS

Total Petroleum Hydrocarbons

2000.

6200.

BTX as a Percent of Fuel

5

ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

Note: Analyzed by EPA 8260 and GC/MS Combination.

Note: Analytical range is C4-C12.

Note: TPH quantitated against gasoline.

Note: Oxygenates not included in TPH result.

Submitted by,

ZymaX envirotechnology, inc.

Dwain Zsadanyi **Project Manager**

VA70204 MSD #7 26457-6.xls DZ/sks/pv/ses

^{*}PQL - Practical Quantitation Limit

^{**}Results listed as ND would have been reported if present at or above the listed PQL.



Client: Mike Davis

Project:

ATC Associates, Inc.

9620 Chesapeake Dr., Ste. 203

San Diego, CA 92123

EZ Serve

#100877

Project Number: EZS0024

Collected by: Scott Levin

 Lab Number:
 26457-7

 Collected:
 01/30/02

 Received:
 01/30/02

 Matrix:
 Aqueous

Sample Description:

MW-6

Analyzed:

02/02/02

Method:

See Below

CONSTITUENT	PQL*	RESULT**
	ug/ L	ug/L
Benzene	5.0	32.
Toluene	5.0	7.2
Ethylbenzene	5.0	130.
Xylenes	5.0	28.
t-Amyl Methyl Ether (TAME)	5.0	ND
t-Butyl Alcohol (TBA)	50.	ND
Diisopropyl Ether (DIPE)	5.0	ND
Ethyl-t-Butyl Ether (ETBE)	5.0	ND
Methyl-t-Butyl Ether (MTBE)	5.0	ND
Percent Surrogate Recovery		102

TOTAL PETROLEUM HYDROCARBONS

Total Petroleum Hydrocarbons

500.

6600.

BTX as a Percent of Fuel

1

ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

Note: Analyzed by EPA 8260 and GC/MS Combination.

Note: Analytical range is C4-C12.

Note: TPH quantitated against gasoline.

Note: Oxygenates not included in TPH result.

Submitted by,

ZymaX envirotechnology, inc.

Dun.

Dwain Zsadanyi Project Manager

VA70201 MSD #7 26457-7.xls DZ/sks/pv/nl/bp

^{*}PQL - Practical Quantitation Limit

^{**}Results listed as ND would have been reported if present at or above the listed PQL.



Client: Mike Davis

ATC Associates, Inc.

9620 Chesapeake Dr., Ste. 203

San Diego, CA 92123

Project: EZ Serve

#100877

Project Number: EZS0024

Collected by: Scott Levin

 Lab Number:
 26457-8

 Collected:
 01/30/02

 Received:
 01/30/02

 Matrix:
 Aqueous

Sample Description:

MW-7

Analyzed: 02/04/02

Method: See Below

CONSTITUENT	PQL* ug/L	RESULT** ug/L
Toluene	0.5	ND
Ethylbenzene	0.5	96.
Xylenes	0.5	4.6
t-Amyl Methyl Ether (TAME)	0.5	ND
t-Butyl Alcohol (TBA)	5.0	ND
Diisopropyl Ether (DIPE)	0.5	ND
Ethyl-t-Butyl Ether (ETBE)	0.5	ND
Methyl-t-Butyl Ether (MTBE)	0.5	ND
Percent Surrogate Recovery		118

Total Petroleum Hydrocarbons

50.

6200.

BTX as a Percent of Fuel

<1

ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

Note: Analyzed by EPA 8260 and GC/MS Combination.

Note: Analytical range is C4-C12.

Note: TPH quantitated against gasoline.

Note: Oxygenates not included in TPH result.

Submitted by,

ZymaX envirotechnology, inc.

Many

Dwain Zsadanyi Project Manager

VA70204 MSD #7 26457-8.xls DZ/sks/pv/ses

^{*}PQL - Practical Quantitation Limit

^{**}Results listed as ND would have been reported if present at or above the listed PQL.



Client: Mike Davis

Project:

ATC Associates, Inc.

9620 Chesapeake Dr., Ste. 203

San Diego, CA 92123

EZ Serve

#100877

Project Number: EZS0024

Collected by: Scott Levin

 Lab Number:
 26457-9

 Collected:
 01/30/02

 Received:
 01/30/02

 Matrix:
 Aqueous

Sample Description:

MW-12

Analyzed:

02/02/02

Method:

See Below

Conceited by:		
CONSTITUENT	PQL*	RESULT**
	ug/L	ug/L
Benzene	0.5	ND
Toluene	0.5	ND
Ethylbenzene	0.5	ND
Xylenes	0.5	ND
t-Amyl Methyl Ether (TAME)	0.5	ND
t-Butyl Alcohol (TBA)	5.0	ND
Diisopropyl Ether (DIPE)	0.5	ND
Ethyl-t-Butyl Ether (ETBE)	0.5	ND
Methyl-t-Butyl Ether (MTBE)	0.5	ND
Percent Surrogate Recovery		94
TOTAL PETROLEUM HYDROCARBONS	,	
Total Petroleum Hydrocarbons	50.	ND
BTX as a Percent of Fuel		N/A

ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

Note: Analyzed by EPA 8260 and GC/MS Combination.

Note: Analytical range is C4-C12.

Note: TPH quantitated against gasoline.

Note: Oxygenates not included in TPH result.

Submitted by,

ZymaX envirotechnology, inc.

-60-cs.

Dwain Zsadanyi Project Manager

VA70202 MSD #7 26457-9.xls DZ/sks/pv/nl/bp

^{*}PQL - Practical Quantitation Limit

^{**}Results listed as ND would have been reported if present at or above the listed PQL.



Client: Mike Davis

ATC Associates, Inc.

9620 Chesapeake Dr., Ste. 203

San Diego, CA 92123

Project: EZ Serve

#100877

Project Number: EZS0024

Collected by: Scott Levin

 Lab Number:
 26457-10

 Collected:
 01/30/02

 Received:
 01/30/02

 Matrix:
 Aqueous

Sample Description:

MW-13

Analyzed:

02/02/02

Method:

See Below

CONSTITUENT	PQL*	RESULT**
	ug/L	ug/L
Benzene	0.5	ND
Toluene	0.5	ND
Ethylbenzene	0.5	ND
Xylenes	0.5	ND
t-Amyl Methyl Ether (TAME)	0.5	NĐ
t-Butyl Alcohol (TBA)	5.0	ND
Diisopropyl Ether (DIPE)	0.5	ND
Ethyl-t-Butyl Ether (ETBE)	0.5	ND
Methyl-t-Butyl Ether (MTBE)	0.5	ND
Percent Surrogate Recovery		94
TOTAL PETROLEUM HYDROCARBONS		
Total Petroleum Hydrocarbons	50.	ND
BTX as a Percent of Fuel	′	N/A

ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

Note: Analyzed by EPA 8260 and GC/MS Combination.

Note: Analytical range is C4-C12.

Note: TPH quantitated against gasoline.

Note: Oxygenates not included in TPH result.

Submitted by,

ZymaX envirotechnology, inc.

de .

Dwain Zsadanyi Project Manager

VA70202 MSD #7 26457-10.xls DZ/sks/pv/nl/bp

^{*}PQL - Practical Quantitation Limit

^{**}Results listed as ND would have been reported if present at or above the listed PQL.



Client: Mike Davis

ATC Associates, Inc.

9620 Chesapeake Dr., Ste. 203

San Diego, CA 92123

Project: **EZ Serve**

#100877

Project Number: EZS0024

Collected by: Scott Levin Lab Number: 26457-11 Collected: 01/30/02 Received: 01/30/02

Matrix: Aqueous

Sample Description:

MW-14

Analyzed:

02/02/02

Method:

See Below

CONSTITUENT	PQL*	RESULT**
	ug/L	ug/L
Benzene	0.5	ND
Toluene	0.5	ND
Ethylbenzene	0.5	ND
Xylenes	0.5	ND
t-Amyl Methyl Ether (TAME)	0.5	ND
t-Butyl Alcohol (TBA)	5.0	ND
Diisopropyl Ether (DIPE)	0.5	ND
Ethyl-t-Butyl Ether (ETBE)	0.5	ND
Methyl-t-Butyl Ether (MTBE)	0.5	ND
Percent Surrogate Recovery		93
TOTAL PETROLEUM HYDROCARBONS	-	
Total Petroleum Hydrocarbons	50.	ND
BTX as a Percent of Fuel		N/A

ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

Note: Analyzed by EPA 8260 and GC/MS Combination.

Note: Analytical range is C4-C12.

Note: TPH quantitated against gasoline.

Note: Oxygenates not included in TPH result.

Submitted by,

ZymaX envirotechnology, inc.

Dwain Zsadanyi **Project Manager**

VA70202 MSD #7 26457-11.xls DZ/sks/pv/nl/bp

^{*}PQL - Practical Quantitation Limit

^{**}Results listed as ND would have been reported if present at or above the listed PQL.





Client:

ZymaX envirotechnology, inc. 71 Zaca Lane, Suite 110 San Luis Obispo, CA 93401

Lab Number: BLK VA70201
Collected:

Received:

Matrix: Aqueous

Project: Sample Description:

Instrument Blank
Analyzed: 02/01/02

Project Number:
Collected by:

Method: See Below

CONSTITUENT	PQL*	RESULT**
	ug/L	ug/L
Benzene	0.5	ND
Toluene	0.5	ND
Ethylbenzene	0.5	ND
Kylenes	0.5	ND
-Amyl Methyl Ether (TAME)	0.5	ND
-Butyl Alcohol (TBA)	5.0	ND
Diisopropyl Ether (DIPE)	0.5	ND
Ethyl-t-Butyl Ether (ETBE)	0.5	ND
Methyl-t-Butyl Ether (MTBE)	0.5	ND
Percent Surrogate Recovery		94
TOTAL PETROLEUM HYDROCARBONS		
Gasoline	50.	ND
BTX as a Percent of Fuel		N/A

ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

Note: Analyzed by EPA 8260 and GC/MS Combination.

VA70201 MSD #7 VA70201b.xls DZ/sks/nl Submitted by, ZymaX envirotechnology, Inc.

^{*}PQL - Practical Quantitation Limit

^{**}Results listed as ND would have been reported if present at or above the listed PQL.



Aqueous



Client:

ZymaX envirotechnology, inc. 71 Zaca Lane, Suite 110 San Luis Obispo, CA 93401

Project:

Project Number: Collected by: Lab Number: BLK VA70204
Collected:
Received:

Sample Description:

Instrument Blank

Analyzed:

Matrix:

02/04/02

Method:

See Below

CONSTITUENT	PQL*	RESULT**				
	ug/L_	ug/L_				
3enzene	0.5	ND				
Toluene	0.5	ND				
Ethylbenzene	0.5	ND				
Xylenes	0.5	ND				
-Amyl Methyl Ether (TAME)	0.5	ND				
-Butyl Alcohol (TBA)	5.0	ND				
Diisopropyl Ether (DIPE)	0.5	ND ND				
Ethyl-t-Butyl Ether (ETBE)	0.5					
Methyl-t-Butyl Ether (MTBE)	0.5	ND				
Percent Surrogate Recovery		93				
TOTAL PETROLEUM HYDROCARBONS						
Gasoline .	50.	ND				
BTX as a Percent of Fuel		N/A				

ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

Note: Analyzed by EPA 8260 and GC/MS Combination.

Submitted by,

ZymaX envirotechnology, inc.

VA70204 MSD #7 VA70204b.xls DZ/sks/nl

^{*}PQL - Practical Quantitation Limit

^{**}Results listed as ND would have been reported if present at or above the listed PQL.





Client:

ZymaX envirotechnology, inc. 71 Zaca Lane, Suite 110 San Luis Obispo, CA 93401

Lab Number: QS VA70201
Collected:
Received:
Matrix: Aqueous

Project:

Project Number: Collected by: Sample Description:

Quality Assurance Spike

Analyzed:

02/01/02

Method:

See Below

CONSTITUENT	Amount Spiked	Amount Recovered	Percent
	ug/L_	ug/L	Recovery
Benzene	3.0	2.8	93
Toluene	33.8	33.6	99
Ethylbenzene	9.0	8.6	96
Xylenes	46.7	44.4	95
Methyl t-Butyl Ether (MTBE)	34.7	32.2	93
Percent Surrogate Recovery			98
TOTAL PETROLEUM HYDROCARBONS			
Gasoline	500.	478.	96
BTX as a Percent of Fuel	17	17	

ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

Note: Analyzed by EPA 8260 and GC/MS Combination.

VA70201 MSD #7 VA70201q.xls DZ/sks/bp Submitted by, ZymaX envirotechnology, inc.



QUALITY ASSURANCE REPORT SPIKE DUPLICATE RESULTS

Client:

ZymaX envirotechnology, inc. 71 Zaca Lane, Suite 110 San Luis Obispo, CA 93401 Lab Number: QSD VA70201
Collected:
Received:
Matrix: Aqueous

Project:

Project Number: Collected by: Sample Description:

Quality Assurance Spike Duplicate

Analyzed:

02/01/02

Method: See Below

CONSTITUENT	Amount Spiked	Amount Recovered	Percent	Relative Percent				
	ug/L	ug/L	Recovery	Difference*				
Benzene	3.0	2.9	97	4				
Toluene	33.8	32.7	97	3				
Ethylbenzene	9.0	8.0	89	7				
Xylenes	46.7	42.4	91	5				
Methyl t-Butyl Ether (MTBE)	34.7	31.8	92	1				
Percent Surrogate Recovery			96					
TOTAL PETROLEUM HYDROCARBOI	NS							
Gasoline	500.	479.	96	0				
BTX as a Percent of Fuel	17	16						

ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

Note: Analyzed by EPA 8260 and GC/MS Combination.

VA70201 MSD #7 VA70201q.xls DZ/sks/bp Submitted by, ZymaX envirotechnology, inc.

^{*}Relative Percent Difference of the spike and spike duplicate

ZymaX

CHAIN of CUSTODY

71 Zaca Lane San Luis Obispo CA 93401 tel 805.544.4696 fax 805.544.8226

report to MIKE Davis		phone 858-569-0692 858-569-0695			ANALYSIS REQUESTED							Turnaround Time				
company ATC ASSOC	CIATES	project E-25	ERVE # /	0087	7	-	3				2'		•	Τ	7	ASAP 48 hr
address 9620 CHESAP	EARE DA	project # 43.25827.0024		多	25/20	0							ű	12 hr 72 hr		
	CA 92123	sampler Scott LEVIN			+ 187	NTBE+	26						1	containers	24 hr std	
	PLE DESCRIPTION	Date Samp		Matrix	Preserve	1833	MITA	Do				,,		l'	# of c	Remarks
21457-1 MW-1A		1-30-0		H20	He 1	X	X							7	3	
- Z Mw-1			0920			X	X									
-3 MW-2	** ***		0932	بشعفترين		X	X									
-11 MW-3		**************************************	0945			X	X									
5 MW-4		ations are	0952	5.6		X	X							, 71	Ħ	,
MW-5			1015	- Printer		X	X								tion and the state of	
1 NW-6	, ,		1035			X	X							十	A L	<u></u>
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1 MW-14		Ÿ	1100	· ·	The Contract of the Contract o	攵	Ź	<u> </u>	. 7		700					
Comments	ti i i i i i i i i i i i i i i i i i i	Relinquished by: Signature Print Company At Associate Time				Company Company							we t	1/2000 1/30 Time 1/30		
Sample integrity upon receipt: Samples received intact Samples received cold	Bill 3rd Party:	Relinquished by: Signature Print Received by ZymaX envirotechnology Signature Print Print							olog	y inc:						
Custody seals Correct container types	PO#	Company Company														
Gori Got Container types	Quote yes no	* Date			Time				Date						<u> </u>	Time

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