

SECOR
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Quarterly Groundwater Monitoring Report First Quarter 1998

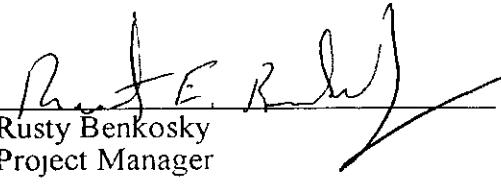
ARCO Service Station #2093
3425 Tracy Blvd.
Tracy, California

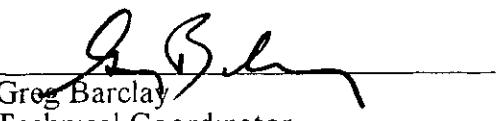
Prepared for
ARCO Products Company

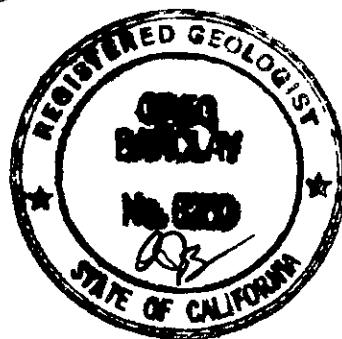
June 30, 1998

Prepared by
SECOR International Incorporated
9912 Business Park Drive, Suite 100
Sacramento, California 95827

Project 7G600-026-01


Rusty Benkosky
Project Manager


Greg Barclay
Technical Coordinator
RG 6260



Date	June 30, 1998
Quarter	1Q98

ARCO QUARTERLY GROUNDWATER MONITORING REPORT

Facility No	<u>2093</u>	Address	<u>3425 Tracy Blvd , Tracy, California</u>
ARCO Environmental Engineer	<u>Paul Supple</u>		
Consulting Co /Contact Person	<u>SECOR International Incorporated/ Rusty Benkosky</u>		
Consultant Project No	<u>7G600-026-01</u>		
Primary Agency/Regulatory ID No	<u>San Joaquin County Environmental Health</u>		

WORK PERFORMED THIS QUARTER (First Quarter - 1998)

- 1 Performed first quarter groundwater monitoring event

WORK PROPOSED FOR NEXT QUARTER (Second Quarter - 1998)

- 1 Prepare and submit first quarter 1998 groundwater monitoring report
- 2 Perform second quarter 1998 groundwater monitoring event

Current Phase of Project	<u>Monitoring/Remediation</u>	(Assmnt, Remed , etc)
Frequency of Groundwater Sampling	<u>Wells ART-2, ATR-4, ATR-5, ATR-7,</u> <u>ATR-8, ATR-12, SMW-1 = quarterly</u> <u>Wells ATR-1, ATR-3,</u> <u>ATR-6, ATR-9, ATR-10, ATR-11</u> <u>= 1st and 3rd quarters</u>	(Quarterly, etc)
Frequency of Groundwater Monitoring	<u>Quarterly</u>	(Monthly, etc)
Is Free Product (FP) Present On-Site	<u>No</u>	(Yes/No)
FP Recovered this Quarter	<u>None</u>	(gallons)
Cumulative FP Recovered to Date	<u><1</u>	(gallons)
Current Remediation Techniques	<u>SVET/AS</u>	(SVET/AS/FP Removal)
TPH-g removed by SVET this quarter	<u>21</u>	(pounds)
Cumulative TPH-g removed	<u>2,073</u>	(pounds)
Approximate Depth to Groundwater	<u>8 02 to 12 58</u>	(Measure Feet)
Groundwater Gradient	<u>Northeast</u>	(Direction)
	<u>0 0026</u>	(Magnitude)

DISCUSSION

Consistent with historical data, TPH-g was detected in four of the thirteen wells sampled this quarter with a range in concentrations of 88 to 8,400 ppb (Well ATR-3). Benzene was detected in two wells with a maximum concentration of 4.6 ppb. MTBE was detected in five of the thirteen wells sampled and ranged in concentration from 6.2 ppb (ATR-5) to 120 ppb (ART-3). Groundwater elevations across the site increased by an average of 0.59 feet this quarter and the groundwater flow was to the northeast, consistent with historical data.

ATTACHMENTS

- Table 1 - Groundwater Elevation and Analytical Data
- Table 2 - Historical Groundwater Gradient Data
- Figure 1- Groundwater Elevation Contour Map
- Figure 2 - Groundwater Chemical Results
- Attachment A - Remedial System Performance Evaluation
- Attachment B - Field and Laboratory Procedures
- Attachment C - Certified Analytical Reports, Chain-of-Custody Documentation and Field Data Sheets

cc Ms Elizabeth Thayer, California Regional Water Quality Control Board - CVR
Mr Harlin Knoll, San Joaquin Public Health Services

Table 1

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ARCO Service Station #2093
3425 Tracy Blvd Tracy, California

	Date Sampled	Well Elevation (feet MSL)	Depth to Water (feet TOC)	Floating product thickness in feet	Groundwater Elevation (feet MSL)	Groundwater Elevation Change (feet)	TPH G (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)	Total MTBE (ppb)
ATR 1	4/23/87	50 58	12 49	--	38 09	--	<100	<0.5	<0.5	<0.5	<0.5	23
	12/22/87	12 63	--	37 95	-0.14	--	59	<0.5	0.9	<0.5	<0.5	--
	3/24/88	12 54	--	38 04	0.09	--	<0.5	<0.5	<0.5	<0.5	<0.5	--
	6/23/88	12 83	--	37 75	-0.29	--	<0.5	1.3	4.3	2.2	--	--
	9/29/88	13 01	--	37 57	0.18	--	<0.5	<0.5	<0.5	<0.5	<0.5	--
	2/22/89	12 46	--	38 12	0.55	<100	1.4	<0.5	<0.5	<0.5	1.8	--
	6/21/89	12 37	--	38 21	0.09	520	360	0.8	2.1	36	--	--
	9/18/89	12 88	--	37 70	0.51	27 000	250	1,200	570	7 100	--	--
	12/27/89	12 68	--	37 90	0.20	<50	3.4	<0.3	1.3	1.4	--	--
	4/18/90	12 84	--	37 74	0.16	13	21	1.5	1.6	16	--	--
	10/16/90	--	--	--	--	<50	1	<0.5	2	2	--	--
	10/19/90	13 10	--	37 48	--	--	--	--	--	--	--	--
	1/10/91	12 78	--	37 80	0.32	<50	24	<0.5	5.7	2.3	--	--
	4/10/91	12 52	--	38 06	0.26	73	1.3	<0.5	4.8	<0.5	--	--
	7/10/91	12 95	--	37 63	-0.43	90	2	<0.5	4.7	1.7	--	--
	9/24/91	13 30	--	37 28	-0.35	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
	1/23/92	12 77	--	37 81	0.53	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
	4/20/92	12 58	--	38 00	0.19	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
	7/8/92	12 90	--	37 68	-0.32	<50	<0.5	<0.5	0.6	<0.5	<0.5	--
	10/7/92	13 09	--	37 49	-0.19	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
	1/18/93	--	--	--	--	--	--	--	--	--	--	--
	4/14/93	12 31	--	38 27	--	<50	<0.5	<0.5	1.5	<0.5	--	--
	8/30/93	13 18	--	37 40	0.87	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/27/93	13 13	--	37 45	0.05	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
	2/18/94	12 65	--	37 93	0.48	17	0.6	1	1	0.8	--	--
	5/20/94	12 71	--	37 87	-0.06	27	0.6	0.3	1.4	<0.5	--	--
	10/7/94	13 14	--	37 44	-0.43	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
	12/16/94	12 74	--	37 84	0.40	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
	2/28/95	12 65	--	37 93	0.09	<50	<0.5	<0.5	1	<0.5	--	--
	4/26/95	12 90	--	37 68	-0.25	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
	7/27/95	13 22	--	37 36	0.32	--	--	--	--	--	--	--
	10/26/95	13 40	--	37 18	0.18	--	--	--	--	--	--	--
	10/27/95	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
	2/12/96	12 30	--	38 28	--	120	<0.5	<0.5	2.2	<0.5	--	--
	4/18/96	12 90	--	37 68	-0.60	--	--	--	--	--	--	--
	7/18/96	13 28	--	37 30	-0.38	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5
	11/15/96	13 74	--	36 84	-0.46	--	--	--	--	--	--	--
	3/14/97	13 68	--	36 90	0.06	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
	6/4/97	13 04	--	37 54	0.64	--	--	--	--	--	--	--
	8/11/97	13 43	--	37 15	-0.39	<50	<0.5	<0.5	<0.5	<0.5	<0.5	23
	11/17/97	P	13 29	37 29	0.14	--	--	--	--	--	--	--
	3/30/98	NP	12 58	38 00	0.71	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5 0

Table 1
Groundwater Elevation and Analytical Data

ARCO Service Station #2093
3425 Tracy Blvd., Tracy California

	Date Sampled	Well Elevation (feet MSL)	Depth to Water (feet TOC)	Floating product thickness in feet	Groundwater Elevation (feet MSL)	Groundwater Elevation Change (feet)	TPH-G (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)	Total MTBE (ppb)
ATR-2	4/23/87	49.22	11.28	-	37.94	--	<100	<0.5	0.6	<0.5	<0.5	--
	12/22/87	11.40	-	-	37.82	-0.12	--	<0.5	<0.5	<0.5	<0.5	--
	3/24/88	11.35	-	-	37.87	0.05	--	<0.5	<0.5	<0.5	<0.5	--
	6/23/88	11.55	-	-	37.67	0.20	-	<0.5	<0.5	<0.5	<0.5	--
	9/12/88	11.71	-	-	37.51	0.16	-	<0.5	<0.5	<0.5	<0.5	<0.5
	2/22/89	11.35	-	-	37.87	0.36	370	1.8	0.7	0.6	3.4	--
	6/21/89	11.45	-	-	37.77	-0.10	<50	1.9	<0.3	0.4	<0.3	--
	9/18/89	11.65	-	-	37.57	-0.20	9	1.9	0.9	1.1	8.2	--
	12/27/89	11.50	-	-	37.72	0.15	<50	3.5	<0.3	1.1	0.3	--
	4/18/90	11.64	-	-	37.58	-0.14	50	2.9	<0.3	<0.3	<0.3	--
	10/16/90	11.81	-	-	37.41	-0.17	<50	<0.5	<0.5	<0.5	<0.5	--
	10/19/90	11.81	-	-	37.41	0.00	-	-	-	-	-	--
	1/10/91	11.58	-	-	37.64	0.23	<50	0.8	<0.5	<0.5	<0.5	--
	4/10/91	11.35	-	-	37.87	0.23	<50	<0.5	<0.5	<0.5	<0.5	--
	7/10/91	11.74	-	-	37.48	0.39	<50	<0.5	<0.5	<0.5	<0.5	--
	9/24/91	12.02	-	-	37.20	0.28	<50	<0.5	<0.5	<0.5	<0.5	--
	1/23/92	11.60	-	-	37.62	0.42	<50	<0.5	<0.5	<0.5	<0.5	--
	4/20/92	11.53	-	-	37.69	0.07	<50	<0.5	<0.5	<0.5	<0.5	--
	7/8/92	11.75	-	-	37.47	0.22	<50	2.8	<0.5	<0.5	<0.5	--
	10/7/92	11.83	-	-	37.39	0.08	59	5.7	<0.5	<0.5	<0.5	--
	1/18/93	-	-	-	-	--	--	--	--	--	--	--
	4/14/93	11.29	-	-	37.93	--	55	3.8	0.7	0.8	1.9	--
	8/30/93	11.96	-	-	37.26	-0.67	<50	<0.5	<0.5	<0.5	<0.5	--
	10/27/93	11.95	-	-	37.27	0.01	<50	<0.5	<0.5	<0.5	<0.5	--
	2/18/94	11.54	-	-	37.68	0.41	<10	0.7	0.9	<0.3	0.7	--
	5/20/94	11.61	-	-	37.61	-0.07	<10	0.9	<0.3	<0.3	<0.5	--
	10/7/94	11.93	-	-	37.29	-0.32	<50	<0.5	<0.5	<0.5	<0.5	--
	12/16/94	11.56	-	-	37.66	0.37	<50	<0.5	<0.5	<0.5	<0.5	--
	2/28/95	11.60	-	-	37.62	-0.04	<50	<0.5	<0.5	<0.5	<0.5	--
	4/25/95	11.95	-	-	37.27	-0.35	<50	<0.5	<0.5	<0.5	<0.5	--
	7/27/95	12.91	-	-	36.31	0.96	<50	<0.5	<0.5	<0.5	<0.5	--
	10/26/95	12.26	-	-	36.96	0.65	<50	<0.5	<0.5	<0.5	<0.5	--
	2/12/96	11.40	-	-	37.82	0.86	<50	<0.5	<0.5	<0.5	<0.5	--
	4/18/96	11.90	-	-	37.32	-0.50	<250	<2.5	<2.5	<2.5	<2.5	--
	7/18/96	12.10	-	-	37.12	-0.20	<50	<0.5	<0.5	<0.5	<0.5	--
	11/15/96	12.70	-	-	36.52	-0.60	<50	<0.5	<0.5	<0.5	<0.5	--
	3/14/97	P	12.70	-	36.52	0.00	<50	<0.5	<0.5	<0.5	<0.5	--
	6/4/97	NP	12.02	-	37.20	0.68	<50	0.64	<0.5	<0.5	480	--
	8/11/97	P	12.33	-	36.89	-0.31	<50	<0.5	<0.5	<0.5	440	--
	11/17/97	P	12.26	-	36.96	0.07	<50	<0.5	<0.5	<0.5	98	--
	3/30/98	NP	11.82	-	37.40	0.44	<50	<0.5	<0.5	<0.5	1820*	--

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 3425 Tracy Blvd Tracy, California

Date Sampled	Well Elevation (feet MSL)	Floating product thickness in feet	Groundwater Elevation (feet MSL)	Groundwater Elevation Change (feet)	Groundwater	TPH-G (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Total Xylenes (ppb)	MTBE (ppb)
ATR 3	4/23/87	49.93	11.79	-	38.14	-	17,000	2,300	180	<5.0	2,300
	12/22/87	11.93	-	38.00	0.14	-	5,000	50	530	250	-
	3/24/88	12.58	-	37.35	0.65	43,000	8,300	8,700	4,400	7,800	-
	6/23/88	11.17	-	38.76	1.41	70,000	6,160	4,221	1,800	4,750	-
	9/29/88	12.23	-	37.70	-1.06	57,400	8,850	17,600	2,190	8,170	-
	2/22/89	11.82	-	38.11	0.41	110,000	1,000	2,100	480	2,000	-
	6/29/89	-	-	-	-	4,500	890	520	250	1,100	-
	9/1/89	12.19	-	37.74	-	7,400	1,000	1,300	460	2,200	-
	12/28/89	12.01	-	37.92	0.18	27,000	840	1,400	840	5,600	-
	4/1/90	12.15	-	37.78	-0.14	4,800	1,000	490	340	1,500	-
	10/16/90	12.35	-	37.58	-0.20	14,000	1,900	1,300	780	4,600	-
	10/19/90	12.28	-	37.65	0.07	-	-	-	-	-	-
	1/10/91	12.01	-	37.92	0.27	2,600	610	230	160	670	-
	4/10/91	11.82	-	38.11	0.19	3,000	910	120	110	190	-
	7/10/91	12.23	-	37.70	0.41	19,000	420	300	340	760	-
	9/24/91	12.57	-	37.36	0.34	2,000	280	81	69	130	-
	1/23/92	12.12	Sheen	37.81	0.45	-	-	-	-	-	-
	4/20/92	11.93	Sheen	38.00	0.19	-	-	-	-	-	-
	7/8/92	12.22	Sheen	37.71	-0.29	-	-	-	-	-	-
	10/7/92	12.38	Sheen	37.55	-0.16	-	-	-	-	-	-
	1/18/93	11.22	Sheen	38.71	1.16	-	-	-	-	-	-
	4/14/93	11.49	Sheen	38.44	-0.27	-	-	-	-	-	-
	8/30/93	12.43	Sheen	37.50	-0.94	-	-	-	-	-	-
	10/27/93	12.39	Sheen	37.54	0.04	-	-	-	-	-	-
	2/18/94	12.00	-	37.93	0.39	1,900	200	27	120	140	-
	5/20/94	12.07	Sheen	37.86	-0.07	-	-	-	-	-	-
	10/7/94	12.38	Sheen	37.55	-0.31	-	-	-	-	-	-
	12/16/94	12.03	Sheen	37.90	0.35	-	-	-	-	-	-
	2/28/95	12.05	0.03	37.90	0.00	-	-	-	-	-	-
	4/26/95	12.32	Sheen	37.61	-0.29	-	-	-	-	-	-
	7/27/95	12.51	-	37.42	0.19	-	-	-	-	-	-
	10/26/95	12.97	(C)	-	-	-	-	-	-	-	-
	2/12/96	12.10	-	-	-	1,500	89	<0.5	43	150	-
	4/18/96	12.60	-	-	-	-	-	-	-	-	-
	7/18/96	12.60	-	-	-	1,600	26	52	70	51	1,800
	11/15/96	13.40	-	-	-	-	-	-	-	-	-
	3/14/97	13.34	-	-	-	1,200	10	<0.5	43	19	620
	6/4/97	P	-	-	-	-	-	-	-	-	-
	8/11/97	NP	-	-	-	3,400	20	<10	160	110	<50
	11/17/97	P	-	-	-	-	-	-	-	-	-
	3/30/98	NP	12.18	-	-	8400	<2.5	<2.5	100	52	120

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	Date Sampled	Well Elevation (feet MSL)	Floating Product thickness in feet	Depth to Water (feet TOC)	Groundwater Elevation (feet MSL)	Groundwater Elevation Change (feet)	Groundwater	TPH G (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)	Total	MTBE (ppb)
ATR-4	4/23/87	49.03	10.85	-	38.18	-	-	21,000	3,000	200	<10	950	-	-
	12/22/87		11.00	-	38.03	-0.15	-	-	5,300	310	430	270	-	-
	3/24/88		10.98	-	38.05	0.02	-	6,000	5,800	320	930	740	-	-
	6/23/88		12.11	-	36.92	-1.13	-	5,200	237	8.8	2	10	-	-
	9/29/88		10.72	-	38.31	-1.39	-	1,400	1,430	115	350	130	-	-
	2/22/89		10.91	-	38.12	-0.19	-	22,000	1,300	82	54	170	-	-
	6/29/89		11.00	-	38.03	-0.09	-	1,300	590	38	97	220	-	-
	9/18/89		11.19	-	37.84	-0.19	-	630	280	13	49	100	-	-
	12/28/89		11.08	-	37.95	0.11	-	1,300	500	25	56	160	-	-
	4/18/90		11.25	-	37.78	-0.17	-	440	150	51	35	63	-	-
	10/16/90		11.38	-	37.65	-0.13	-	380	26	41	4.8	0.38	-	-
	1/10/91		11.16	-	37.87	0.22	-	330	150	31	30	35	-	-
	4/10/91		10.99	-	38.04	0.17	-	500	8.4	<0.5	<0.5	24	-	-
	7/10/91		11.32	-	37.71	0.33	-	190	39	<0.5	3.7	3	-	-
	9/24/91		11.57	-	37.46	-0.25	-	70	22	<0.5	4.2	15	-	-
	1/23/92		11.16	-	37.87	0.41	-	1,200	300	5.2	49	72	-	-
	4/20/92		11.12	-	37.91	0.04	-	-	-	-	-	-	-	-
	4/21/92	-	-	-	-	-	-	560	150	<5	36	29	-	-
	7/8/92		11.31	-	37.72	-	-	590	150	2.1	36	39	-	-
	10/7/92		11.45	-	37.58	-0.14	-	-	-	-	-	-	-	-
	10/8/92	-	-	-	-	-	-	1,200	240	4.8	62	97	-	-
	1/18/93		10.45	-	38.58	-	-	-	-	-	-	-	-	-
	1/19/93	-	-	-	-	-	-	1,200	240	5.5	44	90	-	-
	4/14/93		10.87	-	38.16	-	-	-	-	-	-	-	-	-
	4/15/93	-	-	-	-	-	-	810	160	4.2	47	63	-	-
	8/31/93	(c)	10.98	-	-	-	-	100	33	<0.5	6	13	-	-
	10/27/93		10.98	-	-	-	-	200	12	1.2	7.9	16	-	-
	2/18/94		10.31	-	-	-	-	950	140	5	73	30	-	-
	5/20/94		10.71	-	-	-	-	8,100	590	5.9	190	220	-	-
	10/7/94		11.00	-	-	-	-	1,100	30	1	16	73	-	-
	12/16/94		10.61	-	-	-	-	1,600	310	2.3	350	200	-	-
	2/28/95		10.68	-	-	-	-	4,600	180	<5	750	100	-	-
	4/26/95		10.94	-	-	-	-	1,100	19	<1	110	8.3	-	-
	7/27/95		11.11	-	-	-	-	1,700	12	<2.5	170	-	-	-
	10/26/95		11.18	-	-	-	-	-	-	-	-	-	-	-
	10/27/95	-	-	-	-	-	-	600	7	<1	30	2	-	-
	2/12/96		10.43	-	-	-	-	6,300	<0.5	<0.5	340	150	-	-
	4/18/96		10.77	-	-	-	-	770	<10	<10	41	19	-	-
	7/18/96		10.52	-	-	-	-	2,600	12	<5	52	<5	560	-
	11/15/96		11.51	-	-	-	-	440	<0.5	<0.5	0.8	2.2	-	-
	3/14/97		11.57	-	-	-	-	150	15	<0.5	<0.5	<0.5	870	-
	6/4/97	NP	10.93	-	-	-	-	420	87	1.4	1.2	5.4	-	-
	8/1/97	NP	10.55	-	-	-	-	320	24	1.1	<0.5	57	6.3	-
	11/17/97	NP	11.20	-	-	-	-	420	3.3	1.4	<0.5	0.76	4.8	-
	3/30/98	NP	10.38	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<50	-

Table 1
Groundwater Elevation and Analytical Data

ARCO Service Station #2093
3425 Tracy Blvd., Tracy California

	Date Sampled	Well Elevation (feet MSL)	Floating product thickness in feet	Depth to Water (feet TOC)	Groundwater Elevation (feet MSL)	Groundwater Elevation Change (feet)	TPH-G (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)	Total MTBE (ppb)
ATR-5	3/10/89	48.73	-	-	38.21	-	6,600	693	<50	327	7	-
	6/29/89	10.52	-	-	37.75	-0.46	2,200	490	24	280	1.3	-
	9/18/89	10.98	-	-	37.97	0.22	2,200	94	11	63	5.8	-
	12/27/89	10.76	-	-	37.83	-0.14	1,900	120	2	150	<1	-
	4/18/90	10.90	-	-	-	-	1,000	18	47	79	140	-
	10/16/90	-	-	-	-	-	-	-	-	-	16	-
	10/19/90	11.10	-	-	37.63	-	-	-	-	-	-	-
	1/10/91	10.84	-	-	37.89	0.26	350	71	12	16	2.6	-
	4/10/91	10.67	-	-	38.06	0.17	370	46	<0.5	7	<0.5	-
	7/10/91	11.02	-	-	37.71	-0.35	1,200	95	<0.5	18	1.5	-
	9/24/91	11.29	-	-	37.44	-0.27	<50	<0.5	<0.5	<0.5	<0.5	-
	1/23/92	10.78	-	-	37.95	0.51	180	14	15	15	<0.5	-
	4/20/92	10.70	-	-	38.03	0.08	-	-	-	-	-	-
	4/21/92	-	-	-	-	-	290	16	<0.5	2	<0.5	-
	7/8/92	10.97	-	-	37.76	-0.14	240	<0.5	<0.5	0.6	<0.5	-
	10/7/92	11.11	-	-	37.62	-0.14	-	-	-	-	-	-
	10/8/92	-	-	-	-	-	160	<0.5	<0.5	<0.5	<0.5	-
	1/18/93	9.94	-	-	38.79	-	-	-	-	-	-	-
	1/19/93	-	-	-	-	-	1,000	25	<0.5	79	1.3	-
	4/14/93	10.47	-	-	38.26	-	-	-	-	-	-	-
	4/15/93	-	-	-	-	-	-	-	-	-	-	-
	8/31/93	11.16	-	-	37.57	-	-	-	-	-	-	-
	10/27/93	11.11	-	-	37.62	0.05	-	-	-	-	-	-
	2/18/94	10.73	-	-	38.00	0.38	-	-	-	-	-	-
	5/20/94	10.82	-	-	37.91	0.09	600	<0.3	2	12	1.7	-
	10/7/94	11.14	-	-	37.59	0.32	660	<0.5	<0.5	<0.5	<0.5	-
	12/16/94	10.77	-	-	37.96	0.37	410	65	<0.5	<0.5	<0.5	-
	2/28/95	10.80	-	-	37.93	0.03	60	<0.5	0.6	<0.5	<0.5	-
	4/26/95	11.04	-	-	37.69	-0.24	83	<0.5	<0.5	<0.5	<0.5	-
	7/27/95	11.27	-	-	37.46	-0.23	58	<0.5	<0.5	<0.5	1.2	-
	10/26/95	10.51	-	-	-	-	-	-	-	-	-	-
	10/27/95	-	-	-	-	-	<520	<5	<0.5	<0.5	<0.5	-
	3/14/97	10.94	-	-	-	-	-	-	-	-	-	-
	6/4/97	NP	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<2.5
	8/11/97	NP	-	-	-	-	97	27	<0.5	<0.5	<0.5	<2.5
	11/17/97	NP	-	-	-	-	220	34	0.6	<0.5	<0.5	6.9
	3/30/98	NP	9.81	-	-	-	190	28	0.65	<0.5	<0.5	5.1
							88	<0.5	<0.5	<0.5	<0.5	6.2

Table 1
Groundwater Elevation and Analytical Data

ARCO Service Station #2093
3425 Tracy Blvd Tracy, California

	Date Sampled	Well Elevation (feet MSL)	Floating product thickness in feet	Depth to Water (feet TOC)	Groundwater Elevation (feet MSL)	Groundwater Elevation Change (feet)	TPH-G (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)	Total (ppb)	MTBE (ppb)
ATR 6	3/10/89	49 35	--	11 54	37 81	--	<200	<0.5	<0.5	<0.5	<0.5	<0.5	--
	6/21/89			11 60	37 75	0.06	<50	<0.3	<0.3	<0.3	0.3	0.3	--
	9/18/89			11 57	37 78	0.03	<50	0.5	1.3	0.3	3.8	3.8	--
	12/27/89			11 68	37 67	0.11	<50	<0.3	<0.3	<0.3	0.4	0.4	--
	4/18/90			11 80	37 55	--	<50	<0.5	<0.5	<0.5	0.5	0.5	<0.5
	10/16/90			11 64	37 71	0.16	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	10/19/90			11 52	37 83	0.12	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	11/10/91			11 76	37 59	-0.24	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	9/24/91			11 95	37 40	-0.19	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	11/23/92			11 66	37 69	0.29	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	4/20/92			11 56	37 79	0.10	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	4/21/92			11 72	37 63	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	7/8/92			11 82	37 53	0.10	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	10/7/92			11 04	38 31	0.78	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	1/18/93			11 42	37 93	0.38	310	75	<0.5	<0.5	<0.5	<0.5	<0.5
	4/14/93			8/31/93	--	--	--	--	--	--	--	--	--
	10/27/93			11 84	37 51	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	2/17/94			--	--	--	--	--	--	--	--	--	--
	5/20/94			--	--	--	--	--	--	--	--	--	--
	10/7/94			11 85	37 50	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	12/16/94			11 54	37 81	0.31	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	2/28/95			11 65	37 70	-0.11	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	4/26/95			--	--	--	--	--	--	--	--	--	--
	7/27/95			--	--	--	--	--	--	--	--	--	--
	10/26/95			12 18	37 17	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	2/12/96			11 57	37 78	0.61	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	4/18/96			11 91	37 44	-0.34	--	--	--	--	--	--	--
	7/18/96			12 01	37 34	-0.10	<50	<0.5	<0.5	<0.5	<0.5	<0.5	10
	11/15/96			12 63	36 72	-0.62	--	--	--	--	--	--	--
	3/14/97			--	--	--	--	--	--	--	--	--	--
	6/4/97			12 01	37 34	--	--	--	--	--	--	--	--
	8/11/97	P		12 23	37 12	-0.22	<50	<0.5	<0.5	<0.5	<0.5	<0.5	56
	11/17/97	NP		12 24	37 11	-0.01	--	--	--	--	--	--	--
	3/30/98	NP		11 69	37 66	0.55	<50	<0.5	<0.5	<0.5	<0.5	<0.5	41

Table 1
Groundwater Elevation and Analytical Data

ARCO Service Station #2093
3425 Tracy Blvd., Tracy, California

	Date Sampled	Well Elevation (feet MSL)	Floating product thickness in feet	Depth to Water (feet TOC)	Groundwater Elevation (feet MSL)	Groundwater Elevation Change (feet)	TPH-G (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)	Total (ppb)	MTBE (ppb)
ATR 7	3/10/89	49.65	-	-	37.75	-0.08	<200	<0.5	<0.5	<0.5	1.7	-	-
	6/21/89	11.90	-	-	37.67	-0.04	<50	1	<0.3	0.6	0.5	-	-
	9/18/89	11.98	-	-	37.71	-0.07	<50	0.4	<0.3	1.1	-	-	-
	12/27/89	11.94	-	-	37.64	-0.07	90	10	0.9	2.7	7.9	-	-
	4/18/90	12.01	-	-	-	-	<50	6.1	2.6	2.1	5.8	-	-
	10/16/90	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-	-
	10/19/90	12.20	-	-	37.45	-	-	-	-	-	-	-	-
	1/10/91	-	-	-	-	-	<50	6	<0.5	1.8	4.1	-	-
	4/10/91	-	-	-	-	-	-	-	-	-	-	-	-
	7/10/91	-	-	-	-	-	-	-	-	-	-	-	-
	9/24/91	12.34	-	-	37.31	-	<50	1.3	<0.5	<0.5	<0.5	<0.5	-
	9/25/91	-	-	-	-	-	-	-	-	-	-	-	-
	1/23/92	-	-	-	-	-	-	-	-	-	-	-	-
	4/20/92	-	-	-	-	-	-	-	-	-	-	-	-
	7/8/92	-	-	-	-	-	-	-	-	-	-	-	-
	10/7/92	12.21	-	-	37.44	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
	10/8/92	-	-	-	-	-	-	-	-	-	-	-	-
	1/18/93	11.33	-	-	38.32	-	-	-	-	-	-	-	-
	1/19/93	-	-	-	-	-	<50	1	<0.5	0.6	<0.5	-	-
	4/14/93	11.75	-	-	37.90	-	-	-	-	-	-	-	-
	4/15/93	-	-	-	-	-	<50	2.9	<0.5	<0.5	<0.5	<0.5	-
	8/31/93	12.24	-	-	37.41	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
	10/27/93	12.23	-	-	37.42	0.01	<50	<0.5	<0.5	<0.5	<0.5	1.3	-
	2/18/94	11.93	-	-	37.72	0.30	<10	<0.3	<0.3	<0.3	<0.3	<0.5	-
	5/20/94	12.00	-	-	37.65	-0.07	<10	<0.3	<0.3	<0.3	<0.3	<0.5	-
	10/7/94	12.23	-	-	37.42	-0.23	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
	12/16/94	11.94	-	-	37.71	0.29	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
	2/28/95	12.00	-	-	37.65	-0.06	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
	4/25/95	12.41	-	-	37.24	-0.41	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
	7/27/95	12.61	-	-	37.04	-0.20	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
	10/26/95	12.67	-	-	36.98	-0.06	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
	11/15/96	13.11	-	-	36.54	-0.66	<50	<0.5	<0.5	<0.5	<0.5	<0.5	120
	3/14/97	13.20	-	-	36.45	-0.09	<50	<0.5	<0.5	<0.5	<0.5	6.3	-
	6/4/97	12.44	-	-	37.21	-0.40	<50	<0.5	<0.5	<0.5	<0.5	<2.5	-
	8/11/97	NP	-	-	36.93	-0.28	<50	<0.5	<0.5	<0.5	<0.5	22	-
	11/17/97	NP	-	-	36.99	0.06	<50	<0.5	<0.5	<0.5	<0.5	3.5	-
	3/30/98	12.11	-	-	37.54	0.55	<50	<0.5	<0.5	<0.5	<0.5	<5.0	-

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ARCO Service Station #2093
3425 Tracy Blvd., Tracy California

	Date Sampled	Well Elevation (feet MSL)	Floating product thickness in feet	Groundwater Elevation (feet, MSL)	Groundwater Elevation Change (feet)	TPH-G (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)	Total	MTBE (ppb)
ATR-8	8/25/91	45.98	--	--	--	2,700	110	<0.5	130	98	-	-
	9/25/91	8.85	-	37.13	-	1,400	95	<0.5	51	97	-	-
	1/23/92	8.29	-	37.69	0.56	<50	25	<0.5	<0.5	<0.5	-	-
	4/20/92	8.11	-	37.87	0.18	--	--	--	--	--	-	-
	4/21/92	-	-	-	-	140	14	0.9	14	93	-	-
	7/8/92	8.48	-	37.50	-	87	40	<0.5	92	0.8	-	-
	10/7/92	8.69	-	37.29	0.21	--	--	--	--	--	-	-
	10/8/92	-	-	-	-	140	78	3.2	3.2	11	8.8	-
	1/18/93	7.09	-	38.89	-	--	--	--	--	--	-	-
	1/19/93	-	-	-	-	980	140	1.7	11	34	-	-
	4/14/93	7.80	-	38.18	-	--	--	--	--	--	-	-
	4/15/93	-	-	-	-	110	4.2	<0.5	4.6	4.9	-	-
	8/31/93	9.81	-	36.17	-	700	150	15	41	71	-	-
	10/27/93	8.68	-	37.30	1.13	52,000	620	2,100	2,800	8,700	-	-
	2/17/94	8.25	0.14	37.83	0.53	--	--	--	--	--	-	-
	5/20/94	8.55	0.14	37.53	0.30	--	--	--	--	--	-	-
	10/7/94	8.70	0.14	37.38	-0.15	--	--	--	--	--	-	-
	12/16/94	8.21	Sheen	37.77	0.39	--	--	--	--	--	-	-
	2/28/95	8.45	0.02	37.54	-0.23	--	--	--	--	--	-	-
	4/26/95	8.51	0.50	37.82	0.28	--	--	--	--	--	-	-
	7/27/95	9.85	0.12	36.21	1.61	--	--	--	--	--	-	-
	10/26/95	9.28	0.03	36.72	0.51	--	--	--	--	--	-	-
	2/12/96	7.87	0.02	38.12	1.40	--	--	--	--	--	-	-
	4/18/96	8.45	0.02	37.54	-0.58	--	--	--	--	--	-	-
	7/18/96	8.95	-	37.03	-0.51	88,000	72	220	620	2,500	<500	-
	11/15/96	9.40	-	36.58	-0.45	52,000	110	130	240	1,300	<200	-
	3/14/97	9.24	-	36.74	0.16	350	4.2	<0.5	1.6	26	<2.5	-
	6/4/97	8.69	-	37.29	0.55	1,200	42	5.2	8.2	150	<2.5	-
	8/11/97	NP	9.10	36.88	-0.41	7,800	280	75	140	710	<25	-
	11/17/97	NP	-	-	-	4,200	57	<50	<0.5	250	<2.5	-
	3/30/98	NP	8.02	37.96	-	320	17	<0.5	<0.5	2.4	<5.0<2.0*	-

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Groundwater Elevation and Analytical Data

ARCO Service Station #2093
3425 Tracy Blvd Tracy, California

	Date Sampled	Well Elevation (feet MSL)	Depth to Water (feet TOC)	Floating product thickness in feet	Groundwater Elevation (feet MSL)	Groundwater Elevation Change (feet)	TPH-G (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)	MTBE (ppb)	Total
													Floating
ATR 9	10/16/90	48.68	-	-	37.57	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
	10/9/90	-	11.11	-	37.64	0.07	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
	1/10/91	11.04	-	-	37.86	0.22	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
	4/10/91	10.82	-	-	37.62	-0.24	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
	7/10/91	11.06	-	-	37.39	0.23	-	-	-	-	-	-	-
	9/24/91	11.29	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
	9/25/91	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
	1/23/92	10.96	-	-	37.72	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
	4/20/92	10.88	-	-	37.80	0.08	-	-	-	-	-	-	-
	4/21/92	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
	7/8/92	11.06	-	-	37.62	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
	10/7/92	11.16	-	-	37.52	-0.10	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
	1/18/93	10.34	-	-	38.34	0.82	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
	4/14/93	10.70	-	-	37.98	0.36	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
	8/30/93	11.17	-	-	37.51	0.47	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
	10/27/93	11.23	-	-	37.45	-0.06	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
	2/17/94	10.89	-	-	37.79	0.34	-	-	-	-	-	-	-
	2/18/94	-	-	-	-	-	<10	<0.3	0.4	<0.3	<0.5	0.7	-
	5/20/94	10.97	-	-	37.71	-	<10	<0.3	<0.3	<0.3	<0.5	<0.5	-
	10/7/94	11.19	-	-	37.49	0.22	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
	12/16/94	10.91	-	-	37.77	0.28	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
	2/28/95	10.93	-	-	37.75	-0.02	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
	4/25/95	11.46	-	-	37.22	-0.53	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
	7/27/95	11.73	-	-	36.95	0.27	-	-	-	-	-	-	-
	10/26/95	11.80	-	-	36.88	0.07	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
	2/12/96	10.90	-	-	37.78	0.90	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
	4/18/96	11.30	-	-	37.38	-0.40	-	-	-	-	-	-	-
	7/18/96	11.68	-	-	37.00	-0.38	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5
	11/15/96	12.23	-	-	36.45	-0.55	-	-	-	-	-	-	-
	3/14/97	12.23	-	-	36.45	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
	6/4/97	11.52	-	-	37.16	0.71	-	-	-	-	-	-	-
	8/11/97	NP	11.86	-	36.82	0.34	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<2.5
	11/17/97	P	11.72	-	36.96	0.14	-	-	-	-	-	-	-
	3/30/98	NP	11.10	-	37.58	0.62	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0<2.0*

Table 1
Groundwater Elevation and Analytical Data

ARCO Service Station #2083
 3425 Tracy Blvd. Tracy, California

Date Sampled	Well Elevation (feet, MSL)	Floating product thickness in feet	Depth to Water (feet TOC)	Groundwater Elevation (feet MSL)	Groundwater Elevation Change (feet)	TPH-G (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Total Xylenes (ppb)	MTBE (ppb)
ATR 10	10/16/90	48.07	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-
	10/19/90	-	10.20	-	37.87	-	-	-	-	-	-
	1/10/91	-	10.07	-	38.00	0.13	<50	<0.5	<0.5	<0.5	-
	4/10/91	-	10.00	-	38.07	0.07	<50	<0.5	<0.5	<0.5	-
	7/12/91	-	10.21	-	37.86	0.21	<50	<0.5	<0.5	<0.5	-
	9/24/91	-	10.32	-	37.75	0.11	-	-	-	-	-
	9/25/91	-	-	-	-	-	<50	<0.5	<0.5	<0.5	-
	1/23/92	-	10.00	-	38.07	-	<50	<0.5	<0.5	<0.5	-
	4/20/92	-	10.01	-	38.06	0.01	-	-	-	<0.5	-
	4/21/92	-	-	-	-	-	<50	<0.5	<0.5	<0.5	-
	7/8/92	-	10.17	-	37.90	-	<50	<0.5	<0.5	<0.5	-
	10/7/92	-	10.23	-	37.84	0.06	<50	<0.5	<0.5	<0.5	-
	1/18/93	-	9.61	-	38.46	0.62	<50	<0.5	<0.5	<0.5	-
	4/14/93	-	9.94	-	38.13	-0.33	<50	<0.5	<0.5	<0.5	-
	8/30/93	-	10.23	-	37.84	0.29	<50	<0.5	<0.5	<0.5	-
	10/27/93	-	10.24	-	37.83	0.01	<50	<0.5	<0.5	<0.5	-
	2/18/94	-	10.02	-	38.05	0.22	<10	<0.3	0.4	<0.3	-
	5/20/94	-	10.09	-	37.98	0.07	<10	<0.3	<0.3	<0.3	-
	10/7/94	-	10.24	-	37.83	-0.15	<50	<0.5	<0.5	<0.5	-
	12/16/94	-	9.97	-	38.10	0.27	<50	<0.5	<0.5	<0.5	-
	2/28/95	-	10.15	-	37.92	0.18	<50	<0.5	<0.5	<0.5	-
	4/25/95	-	10.27	-	37.80	-0.12	<50	<0.5	<0.5	<0.5	-
	7/27/95	-	10.38	-	37.69	0.11	-	-	-	-	-
	10/26/95	-	10.41	-	37.66	0.03	-	-	-	-	-
	2/12/96	-	10.01	-	38.06	0.40	<50	<0.5	<0.5	<0.5	-
	4/18/96	-	10.23	-	37.84	-0.22	-	-	-	-	-
	7/18/96	-	10.40	-	37.67	0.17	<50	<0.5	<0.5	<0.5	-
	11/15/96	-	10.93	-	37.14	-0.53	-	-	-	-	-5
	3/14/97	-	-	-	-	-	-	-	-	-	-
	6/4/97	-	10.56	-	37.51	-	<50	<0.5	<0.5	<0.5	<2.5
	8/11/97	NP	10.47	-	37.60	0.09	-	-	-	-	-
	11/17/97	P	10.05	-	38.02	0.42	<50	<0.5	<0.5	<0.5	<2.5
	3/30/98	NP	-	-	-	-	-	-	-	-	-

Table 1
Groundwater Elevation and Analytical Data

ARCO Service Station #2093
 3425 Tracy Blvd Tracy California

	Date Sampled	Well Elevation (feet MSL)	Depth to Water (feet TOC)	Floating product thickness in feet	Groundwater Elevation (feet MSL)	Groundwater Elevation Change (feet)	TPH G (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Total Xylenes (ppb)	MTBE (ppb)
ATR 11	8/25/91	46.84	-	-	37.34	-	<50	<0.5	<0.5	<0.5	<0.5	-
	9/24/91	9.50	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-
	9/25/91	-	-	-	37.89	-	<50	<0.5	<0.5	<0.5	<0.5	-
	1/23/92	8.95	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-
	4/20/92	8.78	-	-	38.06	0.17	-	-	-	-	-	-
	4/21/92	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-
	7/8/92	9.12	-	-	37.72	-	<50	<0.5	<0.5	<0.5	<0.5	-
	10/7/92	9.30	-	-	37.54	0.18	<50	<0.5	<0.5	<0.5	<0.5	-
	1/18/93	7.80	-	-	39.04	1.50	<50	<0.5	<0.5	<0.5	<0.5	-
	4/14/93	8.47	-	-	38.37	-0.67	<50	<0.5	<0.5	<0.5	<0.5	-
	8/31/93	9.38	-	-	37.46	-0.91	<50	<0.5	<0.5	<0.5	<0.5	-
	10/27/93	9.31	-	-	37.53	0.07	<50	<0.5	<0.5	<0.5	<0.5	-
	2/18/94	8.83	-	-	38.01	0.48	<10	0.8	1	<0.3	0.6	-
	5/20/94	8.93	-	-	37.91	-0.10	<10	<0.3	<0.3	<0.3	<0.5	-
	10/7/94	9.34	-	-	37.50	-0.41	<50	<0.5	<0.5	<0.5	<0.5	-
	12/16/94	8.91	-	-	37.93	0.43	<50	<0.5	<0.5	<0.5	<0.5	-
	2/28/95	8.85	-	-	37.99	0.06	<50	<0.5	<0.5	<0.5	<0.5	-
	4/25/95	9.11	-	-	37.73	0.26	<50	<0.5	<0.5	<0.5	<0.5	-
	7/27/95	9.43	-	-	37.41	-0.32	-	-	-	-	-	-
	10/26/95	9.59	-	-	37.25	-0.16	-	-	-	-	-	-
	2/12/96	8.42	-	-	38.42	1.17	<50	<0.5	<0.5	<0.5	<0.5	-
	4/18/96	9.03	-	-	37.81	0.61	-	-	-	-	-	-
	7/18/96	9.45	-	-	37.39	-0.42	<50	<0.5	<0.5	<0.5	<0.5	<5
	11/15/96	9.95	-	-	36.89	-0.50	-	-	-	-	-	-
	3/14/97	NP	-	-	36.98	0.09	<50	<0.5	<0.5	<0.5	<0.5	-
	6/4/97	P	-	-	37.60	0.62	-	-	-	-	-	-
	8/11/97	NP	-	-	37.21	0.39	<50	<0.5	<0.5	<0.5	<0.5	<2.5
	11/17/97	P	-	-	37.37	0.16	-	-	-	-	-	-
	3/30/98	NP	8.66	38.18	0.81	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0

Table 1
Groundwater Elevation and Analytical Data

ARCO Service Station #2093
3425 Tracy Blvd. Tracy California

	Date Sampled	Well Elevation (feet MSL)	Floating product thickness in feet	Depth to Water (feet TOC)	Groundwater Elevation (feet MSL)	Groundwater Elevation Change (feet)	TPH-G (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)	Total MTBE (ppb)
ATR-12	10/16/90	47.08	-	-	37.75	-	<50	<0.5	<0.5	<0.5	<0.5	-
	10/19/90	9.33	-	-	37.92	0.17	<50	<0.5	<0.5	<0.5	<0.5	-
	1/10/91	9.16	-	-	38.10	0.18	<50	<0.5	<0.5	<0.5	<0.5	-
	4/10/91	8.98	-	-	37.80	-0.30	<50	<0.5	<0.5	<0.5	<0.5	-
	7/12/91	9.28	-	-	37.56	-0.24	-	-	-	-	-	-
	9/24/91	9.52	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-
	9/25/91	-	-	-	-	-	-	-	-	-	-	-
	1/23/92	9.06	-	-	38.02	-	<50	<0.5	<0.5	<0.5	<0.5	-
	4/20/92	9.00	-	-	38.08	0.06	-	-	-	-	-	-
	4/21/92	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-
	7/8/92	9.21	-	-	37.87	-	<50	<0.5	<0.5	<0.5	<0.5	-
	10/7/92	9.32	-	-	37.76	-0.11	<50	<0.5	<0.5	<0.5	<0.5	-
	1/18/93	8.32	-	-	38.76	1.00	<50	<0.5	<0.5	<0.5	<0.5	-
	4/14/93	8.79	-	-	38.29	-0.47	<50	<0.5	<0.5	<0.5	<0.5	-
	8/31/93	9.39	-	-	37.69	-0.60	<50	<0.5	<0.5	<0.5	<0.5	-
	10/27/93	9.36	-	-	37.72	0.03	<50	<0.5	<0.5	<0.5	<0.5	-
	2/18/94	9.02	-	-	38.06	0.34	<10	0.4	0.5	<0.3	<0.5	-
	5/20/94	9.06	-	-	38.02	0.04	<10	<0.3	<0.3	<0.5	<0.5	-
	10/7/94	-	-	-	-	-	-	-	-	-	-	-
	12/16/94	-	-	-	-	-	-	-	-	-	-	-
	2/28/95	-	-	-	-	-	-	-	-	-	-	-
	4/25/95	-	-	-	-	-	-	-	-	-	-	-
	4/26/95	-	-	-	-	-	-	-	-	-	-	-
	7/27/95	-	-	-	-	-	-	-	-	-	-	-
	10/26/95	-	-	-	-	-	-	-	-	-	-	-
	2/12/96	8.85	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-
	4/18/96	9.22	-	-	37.86	0.37	<50	<0.5	<0.5	<0.5	<0.5	-
	7/18/96	9.53	-	-	37.55	0.31	<50	<0.5	<0.5	<0.5	<0.5	<5
	11/15/96	10.00	-	-	37.08	-0.47	<50	<0.5	<0.5	<0.5	<0.5	<5
	3/14/97	10.11	-	-	36.97	-0.11	<50	<0.5	<0.5	<0.5	<0.5	-
	6/4/97	9.34	-	-	37.74	0.77	<50	<0.5	<0.5	<0.5	<0.5	<2.5
	8/11/97	9.67	-	-	37.41	-0.33	<50	<0.5	<0.5	<0.5	<0.5	<2.5
	11/17/97	9.54	-	-	37.54	0.13	<50	<0.5	<0.5	<0.5	<0.5	<2.5
	3/30/98	8.96	-	-	38.12	0.58	<50	<0.5	<0.5	<0.5	<0.5	<5.0

Table 1
Groundwater Elevation and Analytical Data

ARCO Service Station #2093
 3425 Tracy Blvd., Tracy California

	Date Sampled	Well Elevation (feet MSL)	Depth to Water (feet TOC)	Floating product thickness in feet	Groundwater Elevation (feet MSL)	Groundwater Elevation Change (feet)	TPH G (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Total Xylenes (ppb)	MTBE (ppb)
SMW 1	10/7/94	50.24	12.86	-	37.38	37.38	2,200	250	110	<0.5	360	-
	12/16/94		12.54	-	37.70	0.32	5,200	740	210	330	600	-
	2/28/95		12.40	-	37.84	0.14	8,300	1000	330	450	790	-
	4/26/95		12.71	-	37.53	0.31	5,100	470	110	270	480	-
	7/27/95		13.00	-	37.24	0.29	7,400	410	42	360	630	-
	10/26/95	(c)	13.03	-	-	-	-	-	-	-	-	-
	10/27/95		-	-	-	-	-	-	-	-	-	-
	2/12/96		12.00	-	-	-	-	-	-	-	-	-
	4/18/96		12.58	-	-	-	-	-	-	-	-	-
	7/18/96		12.85	-	-	-	-	-	-	-	-	-
	11/15/96		13.40	-	-	-	-	-	-	-	-	-
	3/14/97	NP	13.35	-	-	-	-	-	-	-	-	-
	6/4/97	NP	12.73	-	-	-	-	-	-	-	-	-
	8/11/97	P	-	-	-	-	-	-	-	-	-	-
	11/17/97	NP	12.96	-	-	-	-	-	-	-	-	-
	30/30/98	NP	12.15	-	-	-	-	-	-	-	-	-
TEX 1	10/26/95	(c)	12.86	-	-	-	<350	<5	<0.5	<0.5	<0.5	-
	2/12/96		10.90	-	-	-	-	-	-	-	-	-
	4/18/96		11.35	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-
	7/18/96		11.52	-	-	-	-	-	-	-	-	-
	11/15/96		12.30	-	-	-	-	-	-	-	-	-
	3/14/97		-	-	-	-	-	-	-	-	-	-
	6/4/97		-	-	-	-	-	-	-	-	-	-
	8/11/97		-	-	-	-	-	-	-	-	-	-
	11/17/97		-	-	-	-	-	-	-	-	-	-
	3/30/98		11.00	-	-	-	-	-	-	-	-	-

- Indicates not measured or sampled
 TPH-G = Total Petroleum Hydrocarbons as Gasoline by EPA Method 8015 modified BTEx distinction by EPA Method 8020
 TOC = Top of Casing
 MSL = Mean Sea Level

MTBE = Methyl Tertiary Butyl Ether by EPA Method 8020
 DO = Dissolved Oxygen
 P = Wells purged prior to sample collection

NP = Wells not purged prior to sample collection
 * = MTBE confirmation analytical results (by EPA 8260)

Wells ATR 1, ATR 3, ATR-6, ATR-9, ATR 10, and ATR 11 on a semi-annual sampling schedule. Sampled during the 1st and 3rd quarters of each year.

(a) All elevations corrected to an arbitrary datum based on a temporary on site benchmark with an assigned elevation of 50 feet

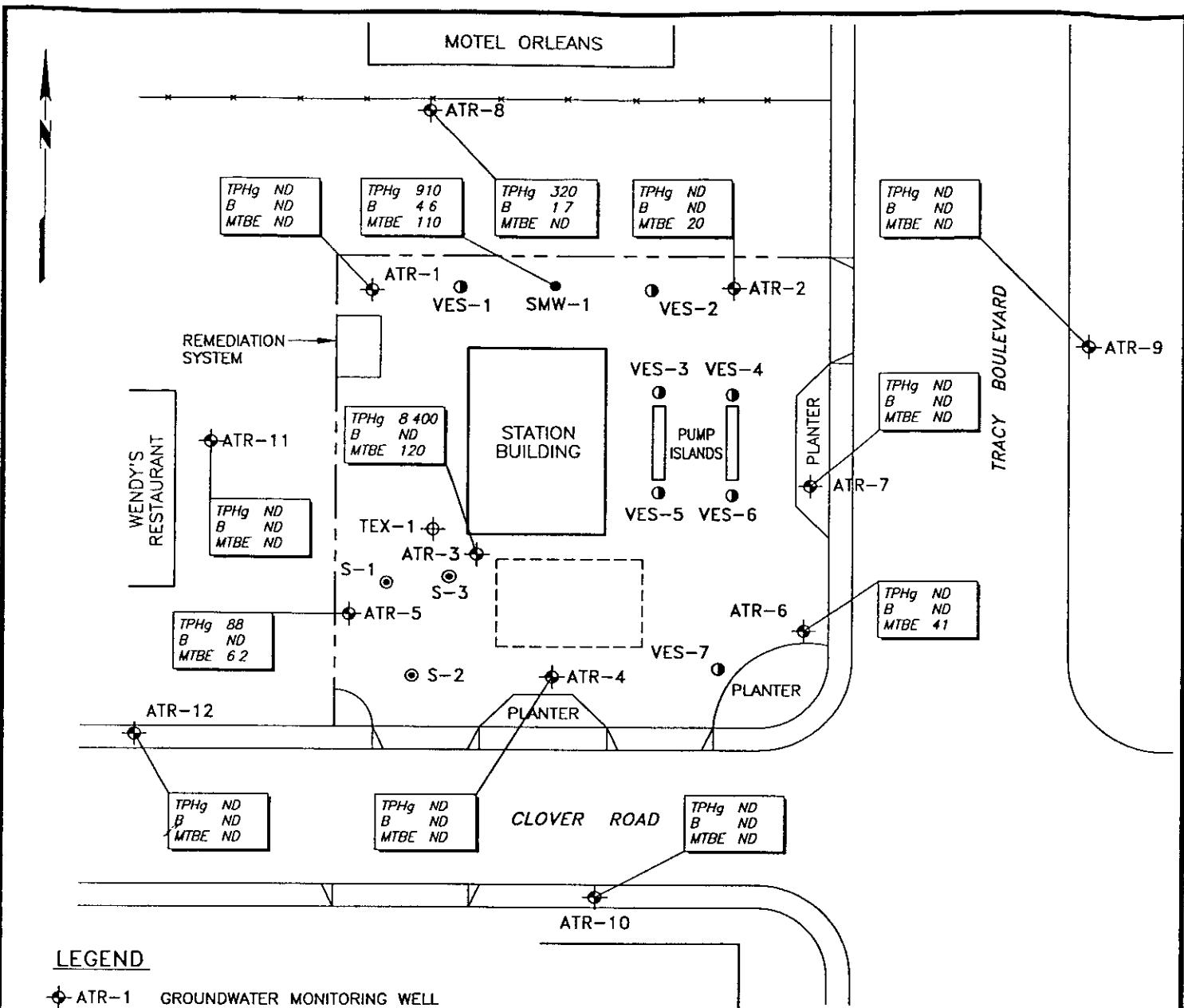
(b) Corrected water level elevation value ($W_{corr} = W_{MSL} + (b)(p)$) where W_{MSL} =water-level elevation corrected, W_{corr} =water-level elevation measured, b =hydrocarbon thickness (feet)
 p=specific gravity (0.7) of hydrocarbon
 (c) Top of well casing altered. Well casing has not been resurveyed. Water-level measured from the highest point of well casing

Table 2
Historical Groundwater Gradient Data

ARCO Service Station #2093
3425 Tracy Blvd Tracy California

Date	Approximate flow direction	Approximate hydraulic gradient
6/23/88	N	0 002
9/29/88	N	0 002
2/22/89	NE	0 002
6/21/89	NE	0 002
9/18/89	N	0 002
12/27/89	E	
4/18/90	NE	0 001
1/10/91	NE	0 002
4/10/91	NE	0 003
7/10/91	NE	0 002
9/24/91	N	0 002
1/23/92	N	0 002
4/20/92	NE	0 003
7/8/92	N-NE	0 002
10/7/92	NNE	0 002
1/18/93	ESE (a)	0 004
4/14/93	N	0 003
8/30/93	N	0 003
10/27/93	N-NE	0 003
2/17/94	NE	0 002
5/20/94	NE	0 001
10/7/94	NE	0 003
12/16/94	NE	0 002
2/28/95	NE	0 002
4/26/95	NE	0 003
7/27/95	N and NE	0 006
10/26/95	NE	0 004
2/12/96	E	0 002
4/18/96	NE	0 004
7/18/96	NE	0 002
11/15/96	NE	0 002
3/14/97	E	0 003
6/4/97	NE	0 002
8/11/97	NE	0 002
11/17/97	NE	0 002
3/30/98	NE	0 0026

(a) Incorrectly reported as WNW in
1st quarter 1993 report (April 26 1993)



LEGEND

- ◆ ATR-1 GROUNDWATER MONITORING WELL
- ◆ TEX-1 GROUNDWATER SOIL VAPOR EXTRACTION WELL
- VES-7 GROUNDWATER MONITORING WELL
- ◎ S-2 SOIL VAPOR EXTRACTION/AIR SPARGING WELL
- SMW-1 GROUNDWATER MONITORING/AIR SPARGING WELL
- APPROXIMATE PROPERTY BOUNDARY
- X EXISTING FENCE LINE

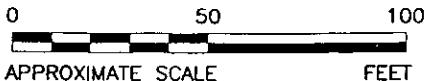
ANALYTES

- TPHg — TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
- B — BENZENE
- MTBE — METHYL TERTIARY BUTYL ETHER

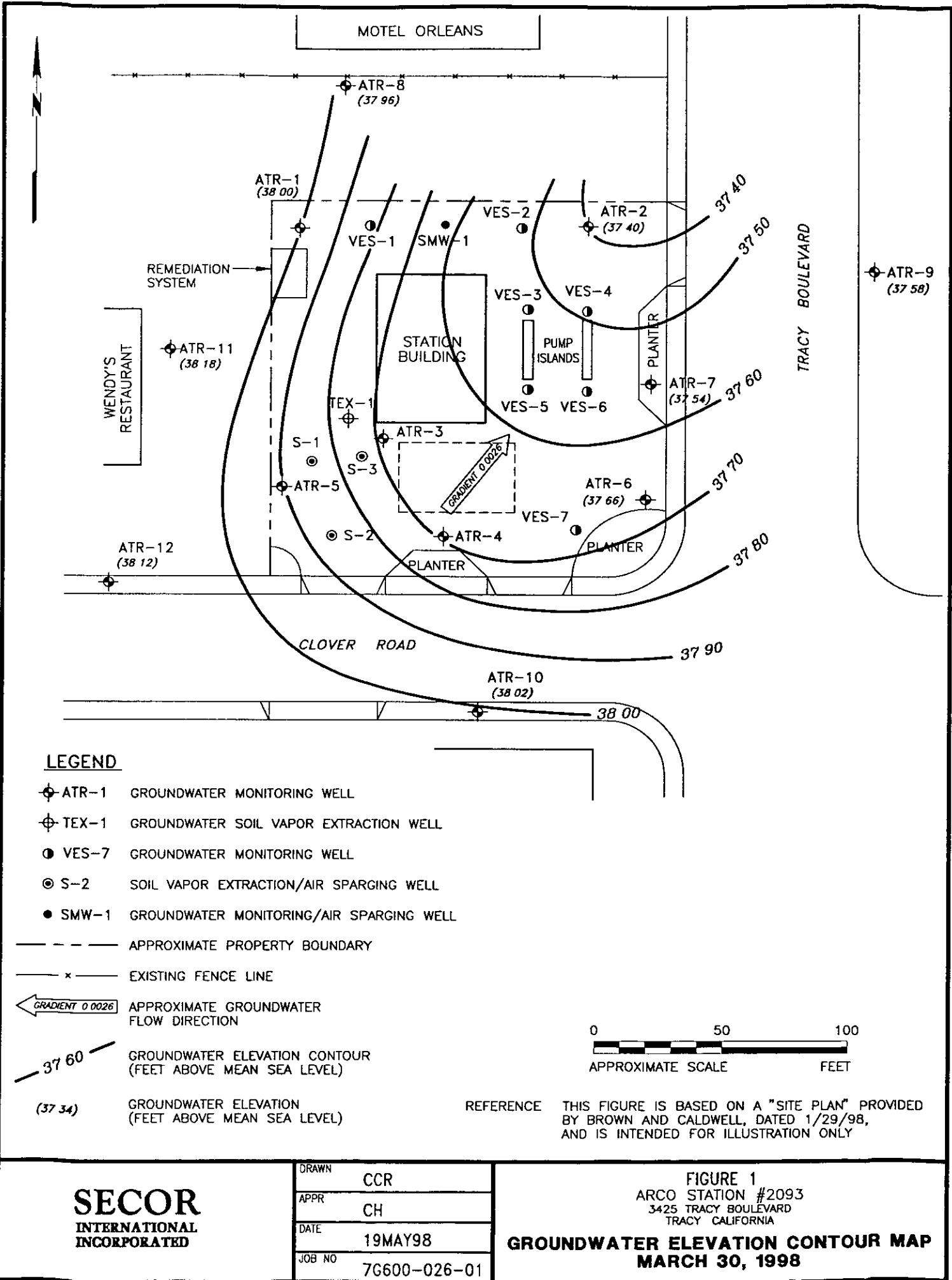
CHEMICAL ANALYTICAL RESULTS

ANALYTE	CONCENTRATION (ppb)
TPHg	910
B	46
MTBE	110

ND — NOT DETECTED AT OR ABOVE LABORATORY REPORTING LIMIT



REFERENCE THIS FIGURE IS BASED ON A "SITE PLAN" PROVIDED BY BROWN AND CALDWELL, DATED 1/29/98 AND IS INTENDED FOR ILLUSTRATION ONLY



ATTACHMENT A

REMEDIAL SYSTEM PERFORMANCE EVALUATION

Soil vapor extraction (SVE) and air sparging were initiated on January 4, 1996 and June 18, 1997, respectively. A brief description and performance evaluation of the remedial system between **January 1 and March 31, 1998** is presented below.

The SVE system is comprised of 11 SVE wells (VES-1 through VES-7, and ATR-3, ATR-4, ATR-5, and TEX-1) and a King Buck Hasstech 100 cfm catalytic oxidizer. The SVE system is permitted by the San Joaquin County Unified Air Pollution Control District (SJUAPCD) Permit to Operate Number N-3413-1-0, for operation through January 1, 1998.

SVE System

The SVE system was not operated this quarter due to high groundwater elevations making operation of the SVE not feasible.

Historical SVE system operational and analytical data including hours of operation, applied vacuum, flow rate, ambient dilution status, field FID, influent TPH-g and benzene concentrations and mass removal data are presented in Table A-1. Emissions data is provided in Table A-2. SVE wells data including open/closed status, vacuum, flow, and analytical data are presented as Table A-3. Graphical presentation of TPH-g and benzene mass removal and concentration data are shown on Figures A-1 and A-2.

Air Sparging System

The air sparging system did not operate this quarter. The air sparging system has not operated since June 25, 1997 due to little influence on influent SVE concentrations. Historical air sparging system operational data including well open/closed status, flow rate and applied pressure data are presented in Table A-4. Dissolved oxygen levels for site wells is presented as Table A-5.

Conclusion

The SVE system will remain off until groundwater elevations subside to a point where SVE is feasible.

Attachments	Table A-1 - Soil Vapor Extraction System Performance Data Table A-2 - Soil Vapor Extraction Emission Data Table A-3 - Soil Vapor Extraction System Well Data Table A-4 - Air Sparging System Well Data Table A-5 - Dissolved Oxygen Well Concentrations Figure A-1 - Soil Vapor Extraction System Removal Trend Figure A-2 - Soil Vapor Extraction System Hydrocarbon Concentrations
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Table A-1
Soil Vapor Extraction Performance Data

ARCO Service Station #2093
3425 Tracy Blvd Tracy, California

Sample date	Period	Average flow rate cfm	Days in period	Down days in period	Percent operational	Influent conc ppmv	TPH-G	B	Removal rate lbs/day	TPH-G	B	Net removal lbs & gallons	
						TPH-G							
12/15/95	Source test	-	-	-	-	1200	57.0	70	0.5	-	22	lbs	
1/4/96	Startup	95	20	19.6	2%	1455	-	52	-	722	lbs	-	
1/26/96	1/4/96-1/26/96	95	22	0.1	99%	931	-	33	-	189	lbs	-	
2/26/96	1/26/96-2/26/96	75	31	22	31%	713	-	20	-	9	lbs	-	
3/27/96	2/26/96-3/27/96	75	30	30	2%	713	-	20	-	317	lbs	-	
4/15/96	3/27/96-4/15/96	74	19	0	100%	605	-	17	-	103	lbs	-	
5/2/96	4/15/96-5/2/96	76	17	11	36%	584	-	17	-	137	lbs	-	
5/15/96	5/2/96-5/15/96	60	13	3	81%	582	-	13	-	89	lbs	-	
6/3/96	5/15/96-6/3/96	63	19	11	41%	482	-	11	-	21	lbs	-	
6/21/96	5/15/96-6/21/96	70	37	35	8%	533	-	14	-	81	lbs	-	
7/10/96	6/21/96-7/10/96	65	37	32	28%	639	-	16	-	60	lbs	-	
8/12/96	7/10/96-8/12/96	68	52	50	7%	1000	-	25	-	157	lbs	-	
9/16/96	8/12/96-9/16/96	80	68	61	21%	702	-	21	-	21	lbs	-	
10/8/96	9/16/96-10/8/96	60	22	20	9%	486	-	11	-	43	lbs	-	
11/5/96	10/8/96-11/5/96	60	28	7	74%	92	-	2	-	11	lbs	-	
12/20/96	11/5/96-12/20/96	63	45	37	18%	58	-	1	-	18	lbs	-	
1/13/97	12/20/96-1/13/97	55	24	6	75%	23	-	1	-	21	lbs	-	
System shut off 1/13/97-6/18/97													
6/18/97	6/18/97-6/30/97	45	12	5	42%	370	-	6	-	44	lbs	-	
7/24/97	6/30/97-7/24/97	60	24	23	1%	202	-	5	-	5	lbs	-	
8/28/97	7/24/97-8/28/97	60	35	34	1%	196	-	4	-	8	lbs	-	
9/10/97	8/28/97-9/30/97	60	33	31	1%	180	-	4	-	0	lbs	-	
10/15/97	9/30/97-10/15/97	65	15	15	0%	180	-	3	-	3	lbs	-	
11/17/97	10/15/97-11/17/97	60	33	32	4%	115	-	3	-	2073	lbs	-	
12/31/97	11/17/97-12/31/97	60	44	37	16%	115	-	3	-	334	gals	-	
<i>Totals and averages for reporting period</i>		9/30/97-12/31/97	62	92	84	9%	137	-	3	-	21	lbs	-
<i>Totals and averages cumulative</i>		12/15/95-12/31/97	67	836	676	19%	506	-	15	-	2073	gals	-

= Not available or not applicable

Sample Calculations

Mass extraction rate calculation
 $\text{lbs/day} = (\text{X ppm}) * (1\text{E}-6) * (\text{molecular weight lb/lb-mol}) * (\text{Y cubic feet/min}) * (24 \text{ hr/day}) * (60 \text{ min/hr}) * (lb-mol/380 cubic feet)$
 where "X" is influent concentration in ppm and "Y" is the flow rate in cubic feet/min
 For pounds cumulative removal the removal lb/day result is multiplied by the number of days between sampling events
 Gallons removal calculation (for TPH)
 gallons removed = lbs * gallon/62 lbs

Table A-2
Soil Vapor Extraction System Emission Data

ARCO Service Station #2093
3425 Tracy Blvd Tracy, California

Date	Pre-Catalyst Temp (°F)	Post-Catalyst Temp (°F)	Manifold Flow Rate (cfm)	Total System Flow Rate (cfm)	TPH as Gasoline			Benzene		
					Effluent Concentration (ppmv)	Emission Rate (lbs/day)	Destruction Efficiency (percent)	Effluent Concentration (ppmv)	Emission Rate (lbs/day)	Destruction Efficiency (percent)
1/4/96	608	870	95	95	34	1.21	98%	-	-	-
1/26/96	655	856	95	95	47.3	1.68	95%	-	-	-
2/26/96	590	904	45	75	25	0.70	96%	-	-	-
3/27/96	547	910	45	75	25	0.70	96%	-	-	-
4/15/96	671	895	47	74	3.7	0.10	99%	-	-	-
5/2/96	650	902	58	76	3.7	0.11	99%	-	-	-
5/15/96	648	905	43	60	13.2	0.30	98%	-	-	-
6/3/96	650	902	36	63	1.2	0.03	100%	-	-	-
6/21/96	609	850	45	70	7.8	0.20	99%	-	-	-
7/10/96	627	901	47	65	11.4	0.28	98%	-	-	-
8/12/96	650	878	62	68	81	2.06	92%	-	-	-
9/16/96	696	832	72	80	14.5	0.43	98%	-	-	-
10/8/96	659	832	36	60	4	0.09	99%	-	-	-
11/5/96	791	852	46	60	0	0.00	100%	-	-	-
12/20/96	732	778	49	63	1.8	0.04	97%	-	-	-
1/13/97	787	798	49	60	0	0.00	100%	-	-	-
6/18/97	787	798	23	45	1.2	0.02	100%	-	-	-
7/24/97	604	677	43	60	0.1	0.00	100%	-	-	-
8/28/97	726	856	60	60	8.5	0.19	96%	-	-	-
9/10/97	785	845	60	60	7	0.16	96%	-	-	-
10/15/97	608	670	65	65	9.5	0.23	95%	-	-	-
11/17/97	618	665	60	60	3	0.07	97%	-	-	-

TPH = Total Petroleum Hydrocarbons

cfm = cubic feet per minute

ppmv = parts per million by volume

- = Not available or not applicable

Sample Calculations

Mass emission rate calculation

$$\text{lbs/day} = (X \text{ ppm}) * (1E 6) * (\text{molecular weight lb/mol}) * (Y \text{ cubic feet/min}) * (24 hr/day) * (60 min/hr) * (\text{lb-mol}/380 cubic feet)$$

where "X" is effluent concentration in ppm and "Y" is the flow rate cfm

Destruction efficiency calculation

$$\% = ((\text{Mass extraction rate lb/day} - \text{Mass emission rate lb/day}) / (\text{Mass extraction rate lb/day})) * 100$$

Table A-3
Soil Vapor Extraction System Well Data

ARCO Service Station #2093
3425 Tracy Blvd Tracy California

VES-1				VES-2				VES-3				VES-4				VES-5				VES-6					
Date	Status	TPH G ppmv	Vacuum H2O cfm	Flow 9	Status	TPH-G ppmv	Vacuum H2O cfm	Flow 73	Status	TPH-G ppmv	Vacuum "H2O cfm	Flow 40	Status	TPH-G ppmv	Vacuum "H2O cfm	Flow 165	Status	TPH G ppmv	Vacuum "H2O cfm	Flow 40	Status	TPH G ppmv	Vacuum "H2O cfm	Flow 117	
1/4/96	O	1865	40	9	O	478	40	73	O	702	40	40	O	1080	40	887	O	1889	40	40	O	3796	40	122	
1/26/96	O	54	775	0	O	1128	10.9	77	O	5369	68	5.4	O	3708	13.6	76	O	7100	16.3	5.3	O	2430	36	36	
3/27/96	O	895	36.5	0	O	422	36.5	-	O	3423	36.5	-	O	2254	36.5	36	O	3934	36	36	O	1142	34	34	
4/15/96	O	491	34	-	O	188	34	-	O	3785	34	-	O	1348	34	34	-	O	2430	34	34	O	1438	35	35
5/29/96	O	1899	35	0	O	476	35	-	O	2515	35	-	O	2116	35	35	O	2658	35	35	O	1176	34	34	
5/15/96	O	2253	34	7	O	498	34	6.2	O	918	34	6.2	O	2253	34	5.4	O	2167	34	5.4	O	1176	34	5.4	
6/3/96	O	3576	34	-	O	244	34	-	O	906	34	-	O	2019	34	-	O	1215	34	-	O	821	34	34	
6/21/96	O	34	-	O	-	34	-	-	O	-	34	-	O	34	-	34	-	O	34	-	O	-	30	-	
7/10/96	O	30	-	O	-	30	-	-	O	-	30	-	O	30	-	30	-	O	-	-	O	-	28	-	
8/12/96	O	-	28	O	-	28	O	-	O	-	28	O	-	O	-	28	O	-	O	-	O	-	28	-	
9/16/96	O	3861	-	O	-	682	O	-	O	3413	-	-	O	2731	-	-	O	2721	-	-	O	4196	-	-	
10/8/96	O	337	0	O	125	0	11	O	11	O	10	O	C	0	O	C	190	O	15	O	15	O	O		
12/20/96	O	115	O	O	74	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O		
1/7/97	O	54	25	O	121	23	O	O	1120	24	O	O	1332	23	O	O	44	O	23	O	O	O	O	O	
6/18/97	C	119	20	O	157	20	O	O	1127	20	O	O	204	20	O	O	25	O	20	O	O	O	O	O	
8/28/97	C	-	-	O	-	-	O	-	O	-	O	-	O	-	O	-	O	-	O	-	O	O	O	O	

VES-7				ATR 3				ATR 4				ATR 5				ATR 6				TEX 1					
Date	Status	TPH G ppmv	Vacuum H2O cfm	Flow 40	Status	TPH G ppmv	Vacuum H2O cfm	Flow 10.5	Status	TPH G ppmv	Vacuum H2O cfm	Flow 40	Status	TPH G ppmv	Vacuum H2O cfm	Flow 10.5	Status	TPH-G ppmv	Vacuum "H2O cfm	Flow 40	Status	TPH-G ppmv	Vacuum "H2O cfm	Flow 9	
1/14/96	O	2347	40	10.5	O	1034	40	7.8	O	8.16	7.7	O	1305	40	10.9	O	5.35	O	1392	40	O	1526	5.4	7.7	
1/28/96	O	433	5.3	O	1763	0	1195	36.5	O	249	36.5	O	259	110	36	O	1004	O	1004	O	1004	5.4	7.7	36.5	
3/27/96	O	45.9	36.5	-	O	748	34	O	105	34	O	102	34	O	107	35	O	289	O	816	O	1255	34	1	
4/15/96	O	62	34	-	O	1899	35	O	165	35	O	107	35	O	102	34	S	O	1255	34	34	O	1306	34	34
5/2/96	C	105	35	-	O	1728	34	O	148	34	O	102	34	S	O	34	S	O	1582	O	5	O	724	O	30
5/15/96	C	72	34	-	O	1289	34	O	34	34	O	28	O	30	O	34	O	34	O	34	O	443	O	28	
6/3/96	C	34	-	O	34	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	
6/21/96	C	34	-	O	34	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	
7/10/96	C	30	-	O	30	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	
8/12/96	O	28	-	O	28	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	
9/16/96	O	-	-	O	-	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	
10/8/96	O	53	-	O	-	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	
12/20/96	O	11	O	O	6	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	
1/7/97	O	338	-	O	0	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	
6/18/97	C	67	25	-	O	1538	24	O	O	107	25	O	O	19	O	23	O	20	O	O	O	O	O	O	
8/28/97	O	167	20	-	O	313	20	O	O	113	20	O	O	107	O	20	O	O	O	O	O	O	O	O	

O = Open C = Closed = Not measured

Table A-4
Air Sparging System Well Data

ARCO Service Station #2093
3425 Tracy Blvd., Tracy, California

Date	VES 1(a)		VES 2(a)		VES 3		VES 4		VES 5		VES 6	
	Status	psi	Flow	Status	psi	Flow	Status	psi	Flow	Status	psi	Flow
1/14/96	C			C	-		C	-		C	-	
1/26/96	C			C	-		C	-		C	-	
2/26/96	C			C	-		C	-		C	-	
3/27/96	C			C	-		C	-		C	-	
6/21/96	C			C	-		C	-		C	-	
9/16/96	C			C	-		C	-		C	-	
12/20/96	C			C	-		C	-		C	-	

Date	VES 7(a)		S 1(a)		S 2(a)		S 3(a)		SMW 1(a)			
	Status	psi	Flow	Status	psi	Flow	Status	psi	Flow	Status	psi	Flow
1/4/96	C			C	-		C	-		C	-	
1/26/96	C			C	-		C	-		C	-	
2/26/96	C			C	-		C	-		C	-	
3/27/96	C			C	-		C	-		C	-	
6/21/96	C			C	-		C	-		C	-	
9/16/96	C			C	-		C	-		C	-	
12/20/96	C			C	-		C	-		C	-	

O = Open C = Closed NM = Not measured

(a) These wells are all connected to a common sparge manifold with one flowmeter in the compound
They also have separate valves at the well heads

Table A-5
Dissolved Oxygen Well Concentrations (mg/l)

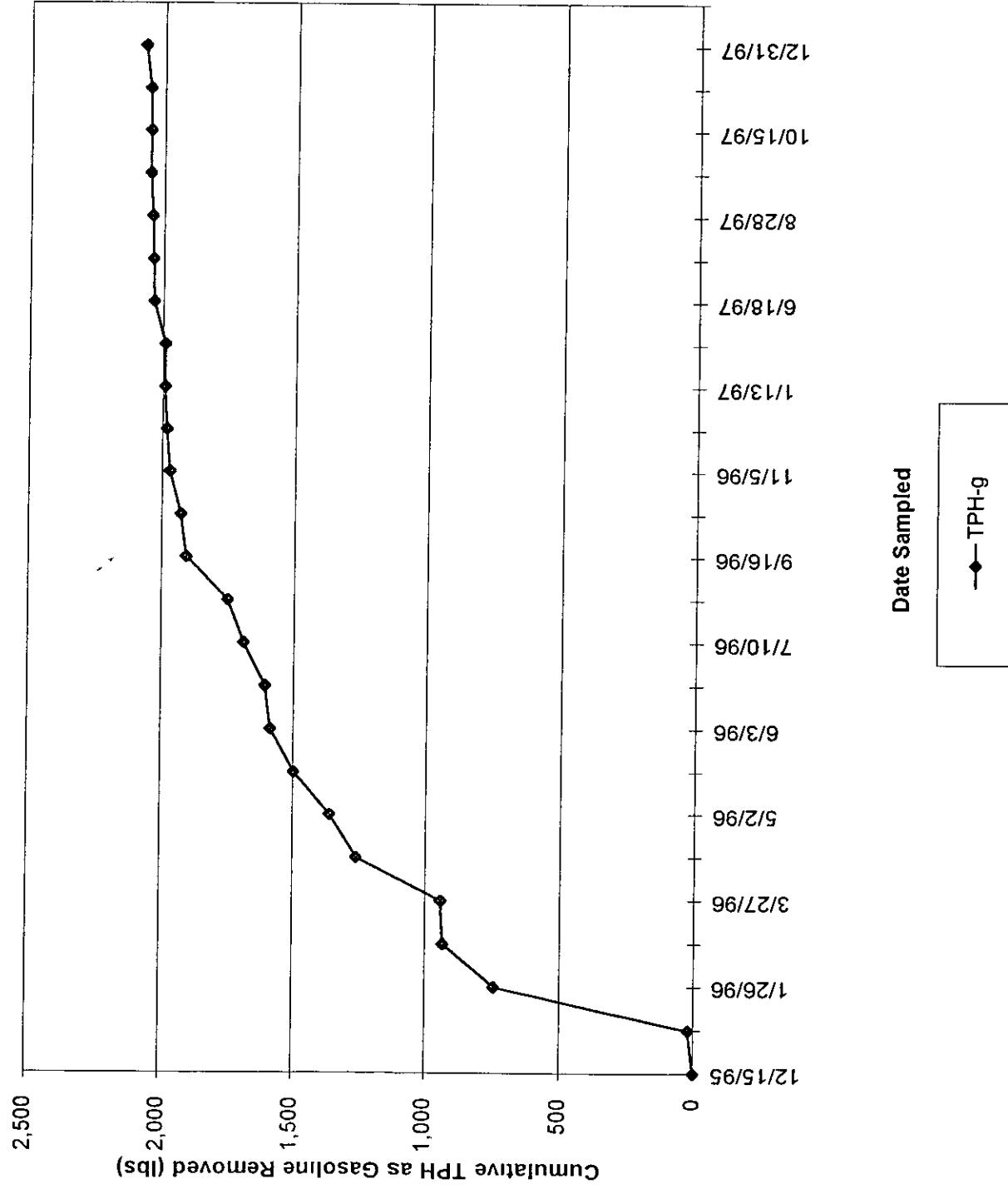
ARCO Service Station #2093
 3425 Tracy Blvd Tracy, California

Date	WELL NUMBER													
	ATR 1	ATR 2	ATR 3	ATR 4	ATR 5	ATR 6	ATR 7	ATR 8	ATR 9	ATR 10	ATR 11	ATR 12	SMW-1	TEX 1
3/14/97	0.30	0.08	0.05	0.07	0.15	--	0.10	0.10	0.20	--	0.15	0.09	0.13	-
8/11/97	0.66	0.60	0.16	0.19	0.62	0.38	0.41	0.15	0.30	0.45	0.37	0.60	-	0.45

"—" = Not measured

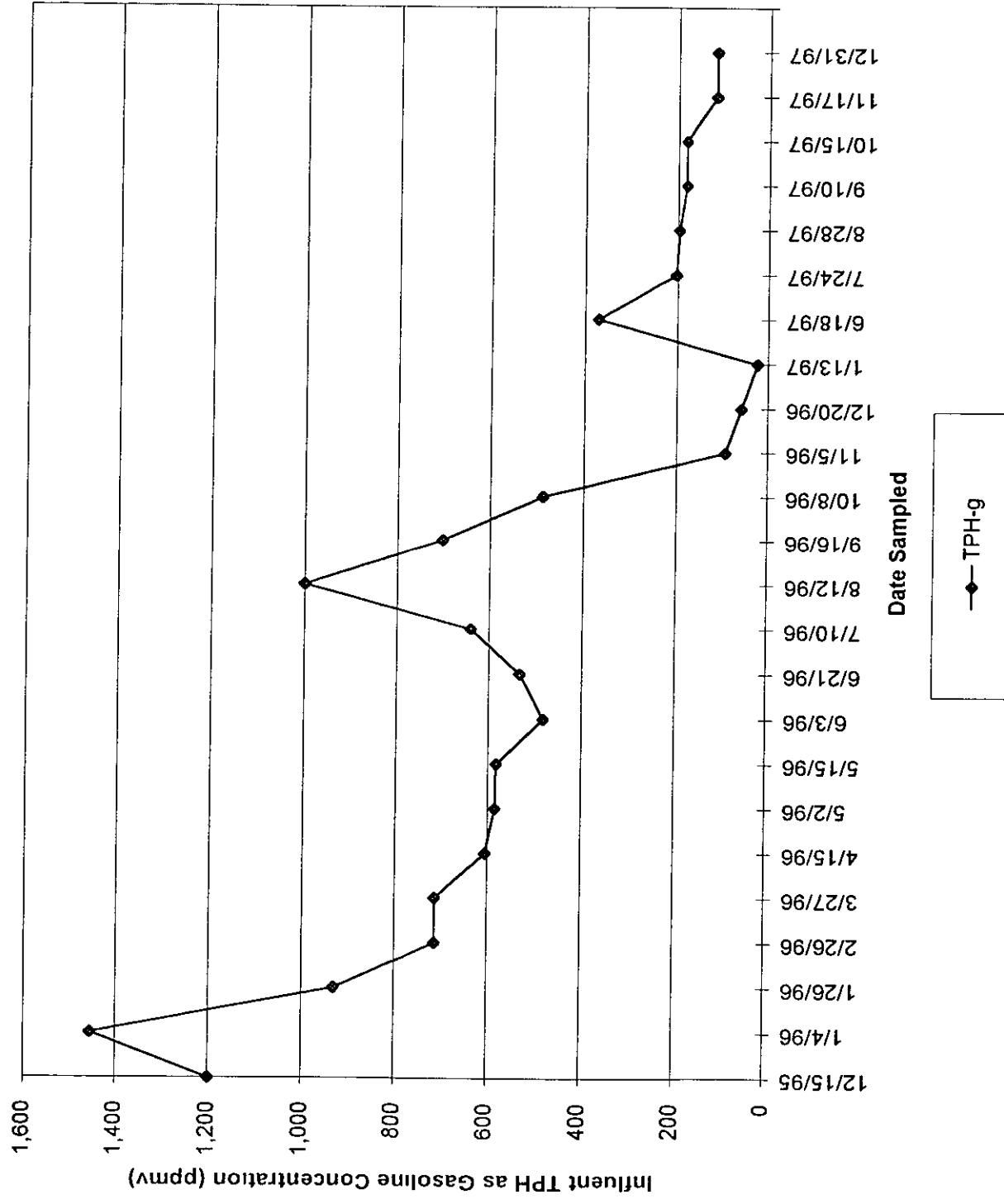
Figure A-1
Soil Vapor Extraction System Mass Removal Trend

ARCO Service Station #2093
3425 Tracy Blvd., Tracy, California



Soil Vapor Extraction System Hydrocarbon Concentrations

ARCO Service Station #2093
3425 Tracy Blvd., Tracy, California



ATTACHMENT B

FIELD AND LABORATORY PROCEDURES

Sampling Procedures

The sampling procedure for each well consists first of measuring the water level and checking for the presence of separate-phase hydrocarbons (SPH), using either an electronic indicator and a clear Teflon® bailer or an oil-water interface probe. Wells not containing SPH that do not have submerged screens are then sampled without purging. Wells that have submerged screens are purged of approximately three casing volumes of water (or to dryness) using a centrifugal pump, gas displacement pump, or bailer. Equipment and purging method used for the current sampling event is noted on the attached field data sheets. During purging, temperature, pH, and electrical conductivity are monitored in order to document that these parameters are stable prior to collecting samples. After purging, water levels are allowed to partially recover. Groundwater samples (both purge and no purge) are collected using a Teflon bailer, placed into appropriate EPA-approved containers, labeled, logged onto chain-of-custody documents, and transported on ice to a California State-certified laboratory.

Laboratory Procedures

The groundwater samples were analyzed for the presence of total petroleum hydrocarbons calculated as gasoline, benzene, toluene, ethylbenzene, xylenes, and methyl tertiary butyl ether by EPA Methods 8015 (modified), 8020, and 5030. These analyses were performed by utilizing a purge and trap extraction technique, with final detection was by gas chromatography using flame- and photo-ionization detectors. The methods of analysis for the groundwater samples are documented in the certified analytical report. The certified analytical report, chain-of-custody documentation, and field data sheets are presented as Attachment B.



Sequoia Analytical

680 Chesapeake Drive Redwood City CA 94063 (650) 364 9600 FAX (650) 364 9233
404 N Wiget Lane Walnut Creek CA 94598 (510) 988 9600 FAX (510) 988 9673
819 Striker Avenue Suite 8 Sacramento CA 95834 (916) 921 9600 FAX (916) 921 0100

April 16, 1998

SECOR
3050 Fite Circle, Ste 204
Sacramento, CA 95827
Attention Rusty Benkosky

Client Project ID ARCO 2093, Tracy, CA
Sequoia Project ID 8040022

Enclosed are the analytical results for samples received by Sequoia Analytical on April 1 1998. The following table lists Sequoia's sample number with your corresponding sample identification.

Sequoia Sample #	Client sample Identification	Date Sampled	Analysis Requested
8040022	Water, ATR-1	3/30/98	TPPH Gas/BTEX/MTBE
8040023	Water, ATR-2	3/30/98	TPPH Gas/BTEX/MTBE Oxygenates
8040024	Water, ATR-3	3/30/98	TPPH Gas/BTEX/MTBE
8040025	Water, ATR-4	3/30/98	TPPH Gas/BTEX/MTBE
8040026	Water, ATR-5	3/30/98	TPPH Gas/BTEX/MTBE
8040027	Water, ATR-6	3/30/98	TPPH Gas/BTEX/MTBE
8040028	Water, ATR-7	3/30/98	TPPH Gas/BTEX/MTBE
8040029	Water, ATR-8	3/30/98	TPPH Gas/BTEX/MTBE Oxygenates
8040030	Water, ATR-9	3/30/98	TPPH Gas/BTEX/MTBE Oxygenates
8040031	Water, ATR-10	3/30/98	TPPH Gas/BTEX/MTBE
8040032	Water, ATR-11	3/30/98	TPPH Gas/BTEX/MTBE
8040033	Water, ATR-12	3/30/98	TPPH Gas/BTEX/MTBE
8040034	Water, SMW-1	3/30/98	TPPH Gas/BTEX/MTBE



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	(650) 364 9600 (510) 988 9600 (916) 921 9600	FAX (650) 364 9233 FAX (510) 988 9673 FAX (916) 921 0100
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Sequoia will maintain custody of these samples for six weeks from date of receipt. At that time, samples will be disposed according to Sequoia's waste protocol. If you need to make other arrangements for these samples, please notify Sequoia prior to that time.

We would like to take this opportunity to thank you for choosing Sequoia Analytical for your project needs. If you have any questions regarding this project or any other analytical needs, please contact me at (916) 921-9600.

Sincerely,

SEQUOIA ANALYTICAL

Mark Chiavaralloti
Operations Manager/Sacramento Laboratory

SEQUOIA ANALYTICAL

Linda C Schneider
Laboratory Director/Sacramento Laboratory



**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	(650) 364 9600 (510) 988 9600 (916) 921 9600	FAX (650) 364 9233 FAX (510) 988 9673 FAX (916) 921 0100
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SECOR
3050 Fite Circle, Ste 204
Sacramento, CA 95827
Attention Rusty Benkosky

Client Project ID ARCO 2093, Tracy, CA
Sample Matrix Water
Analysis Method EPA 5030/8020, DHS Luft
First Sample # 804-0022

Sampled Mar 30, 1998
Received Apr 1, 1998
Reported Apr 16, 1998

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

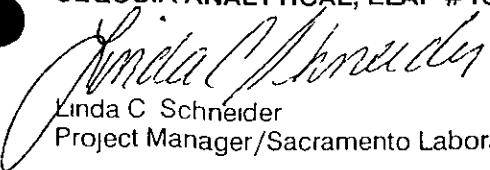
Analyte	Units µg/L	Sample Results	Sample Results	Sample Results	Sample Results	Sample Results	Sample Results
		804-0022	804-0023	804-0024	804-0025	804-0026	804-0027
		ATR 1	ATR 2	ATR-3	ATR 4	ATR-5	ATR 6
Purgeable Hydrocarbons	N D	N D	8,400	N D	88	N D	
	Reporting Limit	50	50	250	50	50	50
Benzene	N D	N D	N D	N D	N D	N D	
	Reporting Limit	0.50	0.50	2.5	0.50	0.50	0.50
Toluene	N D	N D	N D	N D	N D	N D	
	Reporting Limit	0.50	0.50	2.5	0.50	0.50	0.50
Ethyl Benzene	N D	N D	100	N D	N D	N D	
	Reporting Limit	0.50	0.50	2.5	0.50	0.50	0.50
Total Xylenes	N D	N D	52	N D	N D	N D	
	Reporting Limit	0.50	0.50	2.5	0.50	0.50	0.50
Chromatogram Pattern	--	--	Weathered Gasoline C6-C12	--	Weathered Gasoline C6 C12	--	

Quality Control Data

Date Analyzed	04/08/98	04/08/98	04/09/98	04/08/98	04/08/98	04/08/98
Instrument Identification	GCHP-7	GCHP-7	GCHP-7	GCHP-7	GCHP-7	GCHP-7
Surrogate Recovery, % (QC Limits = 60-140%)	92	84	125	92	87	89

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard
Analytes reported as N D were not detected at or above the reporting limit

SEQUOIA ANALYTICAL, ELAP #1624


Linda C. Schneider
Project Manager/Sacramento Laboratory



**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	(650) 364 9600 (510) 988 9600 (916) 921 9600	FAX (650) 364 9233 FAX (510) 988 9673 FAX (916) 921 0100
--	---	--	--

SECOR
3050 Fite Circle, Ste 204
Sacramento, CA 95827
Attention Rusty Benkosky

Client Project ID: ARCO 2093, Tracy, CA
Sample Matrix: Water
Analysis Method: EPA 5030/8020, DHS Luft
First Sample #: 804-0028

Sampled Mar 30 1998
Received Apr 1, 1998
Reported Apr 16, 1998

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Units µg/L	Sample Results	Sample Results	Sample Results	Sample Results	Sample Results	Sample Results
		804-0028 ATR-7	804-0029 ATR 8	804-0030 ATR-9	804-0031 ATR-10	804-0032 ATR 11	804-0033 ATR 12
Purgeable Hydrocarbons	N D	320	N D	N D	N D	N D	N D
	Reporting Limit	50	50	50	50	50	50
Benzene	N D	1 7	N D	N D	N D	N D	N D
	Reporting Limit	0 50	0 50	0 50	0 50	0 50	0 50
Toluene	N D	N D	N D	N D	N D	N D	N D
	Reporting Limit	0 50	0 50	0 50	0 50	0 50	0 50
Ethyl Benzene	N D	N D	N D	N D	N D	N D	N D
	Reporting Limit	0 50	0 50	0 50	0 50	0 50	0 50
Total Xylenes	N D	2 4	N D	N D	N D	N D	N D
	Reporting Limit	0 50	0 50	0 50	0 50	0 50	0 50
	Chromatogram Pattern	--	Weathered Gasoline C6-C12	--	--	--	--

Quality Control Data

Date Analyzed	04/08/98	04/08/98	04/08/98	04/09/98	04/09/98	04/09/98
Instrument Identification	GCHP-7	GCHP-7	GCHP-7	GCHP-2	GCHP-2	GCHP-2
Surrogate Recovery, % (QC Limits = 60-140%)	92	88	90	98	97	97

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard
Analytes reported as N D were not detected at or above the reporting limit

SEQUOIA ANALYTICAL, ELAP #1624

Linda C Schneider
Project Manager/Sacramento Laboratory



Sequoia
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SECOR
3050 Fite Circle, Ste 204
Sacramento, CA 95827
Attention Rusty Benkosky

Client Project ID ARCO 2093, Tracy, CA
Sample Matrix Water
Analysis Method EPA 5030/8020, DHS Luft
First Sample # 804-0034

Sampled Mar 30, 1998
Received Apr 1 1998
Reported Apr 16 1998

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Units µg/L	Sample Results
		804-0034
		SMW 1
Purgeable Hydrocarbons		910
	Reporting Limit	50
Benzene		4.6
	Reporting Limit	0.50
Toluene		N.D.
	Reporting Limit	0.50
Ethyl Benzene		N.D.
	Reporting Limit	0.50
Total Xylenes		1.1
	Reporting Limit	0.50
	Chromatogram Pattern	Weathered Gasoline C6-C12

Quality Control Data

Date Analyzed	04/13/98
Instrument Identification	GCHP-7
Surrogate Recovery, % (QC Limits = 60-140%)	122

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard
Analytes reported as N.D. were not detected at or above the reporting limit

SEQUOIA ANALYTICAL, ELAP #1624

Linda C. Schneider
Project Manager/Sacramento Laboratory



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SECOR
3050 Fite Circle, Ste 204
Sacramento, CA 95827
Attention Rusty Benkosky

Client Project ID ARCO 2093 Tracy, CA
Sample Matrix Water
Analysis Method EPA 5030/8020A Modified
First Sample # 804-0022

Sampled Mar 30, 1998
Received Apr 1, 1998
Reported Apr 16, 1998

METHYL TERTIARY BUTYL ETHER (MTBE)

Analyte	Units µg/L	Sample	Sample	Sample	Sample	Sample	Sample
		Results 804-0022	Results 804-0023	Results 804-0024	Results 804-0025	Results 804-0026	Results 804-0027
		ATR 1	ATR 2	ATR 3	ATR 4	ATR 5	ATR 6
MTBE		N D	18	120	N D	6 2	41
	Reporting Limit	5 0	5 0	25	5 0	5 0	5 0

Quality Control Data

Date Analyzed	04/08/98	04/08/98	04/09/98	04/08/98	04/08/98	04/08/98
Instrument Identification	GCHP-7	GCHP-7	GCHP-7	GCHP-7	GCHP-7	GCHP-7
Surrogate Recovery, % (Recovery Limits 60-140%)	92	84	125	92	87	89

Analytes reported as N D were not detected at or above the reporting limit

SEQUOIA ANALYTICAL, ELAP #1624

Linda C. Schneider
Project Manager/Sacramento Laboratory



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SECOR
3050 Fite Circle, Ste 204
Sacramento, CA 95827
Attention Rusty Benkosky

Client Project ID ARCO 2093, Tracy, CA
Sample Matrix Water
Analysis Method EPA 5030/8020A Modified
First Sample # 804-0028

Sampled Mar 30, 1998
Received Apr 1, 1998
Reported Apr 16, 1998

METHYL TERTIARY BUTYL ETHER (MTBE)

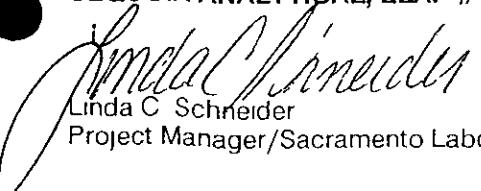
Analyte	Units µg/L	Sample Results 804-0028 ATR 7	Sample Results 804-0029 ATR-8	Sample Results 804-0030 ATR-9	Sample Results 804-0031 ATR 10	Sample Results 804-0032 ATR 11	Sample Results 804-0033 ATR-12
MTBE		N D	N D	N D	N D	N D	N D
	Reporting Limit	5 0	5 0	5 0	5 0	5 0	5 0

Quality Control Data

Date Analyzed	04/08/98	04/08/98	04/08/98	04/09/98	04/09/98	04/09/98
Instrument Identification	GCHP-7	GCHP-7	GCHP-7	GCHP-2	GCHP-2	GCHP-2
Surrogate Recovery % (Recovery Limits 60-140%)	92	88	90	98	97	97

Analyses reported as N D were not detected at or above the reporting limit

SEQUOIA ANALYTICAL, ELAP #1624


Linda C. Schneider
Project Manager/Sacramento Laboratory

8040022 SES <5>



Sequoia
Analytical

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SECOR
3050 Fite Circle, Ste 204
Sacramento, CA 95827
Attention Rusty Benkosky

Client Project ID ARCO 2093, Tracy, CA
Sample Matrix Water
Analysis Method EPA 5030/8020A Modified
First Sample # 804-0034

Sampled Mar 30, 1998
Received Apr 1, 1998
Reported Apr 16, 1998

METHYL TERTIARY BUTYL ETHER (MTBE)

Analyte	Units	Sample Results
	µg/L	804-0034 SMW-1

MTBE	110
Reporting Limit	50

Quality Control Data

Date Analyzed	04/13/98
Instrument Identification	GCHP-7
Surrogate Recovery, % (Recovery Limits 60-140%)	122

Analytes reported as N.D. were not detected at or above the reporting limit

SEQUOIA ANALYTICAL, ELAP #1624

Linda C Schneider
Project Manager/Sacramento Laboratory

8040022 SES <6>



Sequoia
Analytical

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819 Striker Avenue Suite 8 Sacramento CA 95834 (916) 921 9600 FAX (916) 921 0100

SECOR
3050 Fite Circle, Ste 204
Sacramento, CA 95827
Attention Rusty Benkosky

Client Project ID ARCO 2093, Tracy, CA
Sample Descript Water, ATR-2
Analysis Method EPA 5030/8260
Lab Number 804-0023

Sampled Mar 30, 1998
Received Apr 1, 1998
Analyzed Apr 13, 1998
Reported Apr 16, 1998

OXYGENATES by GC/MS (EPA 8260)

Analyte	Reporting Limit µg/L	Sample Results µg/L
Tertiary butanol	100	N D
Methyl tertiary butyl ether (MTBE)	20	20
Di-isopropyl ether (DIPE)	20	N D
Ethyl tertiary butyl ether (ETBE)	20	N D
Tertiary amyl methyl ether (TAME)	20	N D

Analytes reported as N D were not detected at or above the reporting limit

SEQUOIA ANALYTICAL, ELAP #1271

Linda C Schneider
Project Manager/Sacramento Laboratory



Sequoia
Analytical

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819 Striker Avenue Suite 8 Sacramento CA 95834 (916) 921 9600 FAX (916) 921 0100

SECOR
3050 Fite Circle, Ste 204
Sacramento, CA 95827
Attention Rusty Benkosky

Client Project ID ARCO 2093, Tracy, CA
Sample Descript Water, ATR-8
Analysis Method EPA 5030/8260
Lab Number 804-0029

Sampled Mar 30, 1998
Received Apr 1, 1998
Analyzed Apr 13, 1998
Reported Apr 16, 1998

OXYGENATES by GC/MS (EPA 8260)

Analyte	Reporting Limit µg/L	Sample Results µg/L
Tertiary butanol	100	N D
Methyl tertiary butyl ether (MTBE)	2 0	N D
Di-isopropyl ether (DIPE)	2 0	N D
Ethyl tertiary butyl ether (ETBE)	2 0	N D
Tertiary amyl methyl ether (TAME)	2 0	N D

Analytes reported as N D were not detected at or above the reporting limit

SEQUOIA ANALYTICAL, ELAP #1271

Linda C Schneider
Project Manager/Sacramento Laboratory



Sequoia
Analytical

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819 Striker Avenue Suite 8 Sacramento CA 95834 (916) 921 9600 FAX (916) 921 0100

SECOR
3050 Fite Circle, Ste 204
Sacramento, CA 95827
Attention Rusty Benkosky

Client Project ID ARCO 2093, Tracy, CA
Sample Descript Water, ATR-9
Analysis Method EPA 5030/8260
Lab Number 804-0030

Sampled Mar 30, 1998
Received Apr 1, 1998
Analyzed Apr 13, 1998
Reported Apr 16, 1998

OXYGENATES by GC/MS (EPA 8260)

Analyte	Reporting Limit µg/L	Sample Results µg/L
Tertiary butanol	100	N D
Methyl tertiary butyl ether (MTBE)	20	N D
Di-isopropyl ether (DIPE)	20	N D
Ethyl tertiary butyl ether (ETBE)	20	N D
Tertiary amyl methyl ether (TAME)	20	N D

Analytes reported as N D were not detected at or above the reporting limit

SEQUOIA ANALYTICAL, ELAP #1271

Linda C Schneider
Project Manager/Sacramento Laboratory

8040022 SES <9>



**Sequoia
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SECOR
3050 Fite Circle, Ste 204
Sacramento, CA 95827
Attention Rusty Benkosky

Client Project ID ARCO 2093, Tracy, CA
Matrix Water
QC Sample Group 8040022-0034

Reported Apr 16, 1998

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl-Benzene	Xylenes
Method Analyst	EPA 8020 L Bettencourt	EPA 8020 L Bettencourt	EPA 8020 L Bettencourt	EPA 8020 L Bettencourt
Concentration Spiked	10 ug/L	10 ug/L	10 ug/L	30 ug/L
LCS Batch#	LCS040898	LCS040898	LCS040898	LCS040898
Date Prepared	04/08/98	04/08/98	04/08/98	04/08/98
Date Analyzed	04/08/98	04/08/98	04/08/98	04/08/98
Instrument ID #	GCHP 7	GCHP-7	GCHP-7	GCHP-7
LCS % Recovery	110	100	100	100
Control Limits	70 130%	70-130%	70-130%	70-130%
MS/MSD Batch #	804008 10	804008-10	804008-10	804008-10
Date Prepared	04/08/98	04/08/98	04/08/98	04/08/98
Date Analyzed	04/08/98	04/08/98	04/08/98	04/08/98
Instrument ID #	GCHP 7	GCHP-7	GCHP-7	GCHP-7
Matrix Spike % Recovery	110	100	99	96
Matrix Spike Duplicate % Recovery	110	100	99	96
Relative % Difference	0 0	0 0	0 0	0 0

SEQUOIA ANALYTICAL

Linda C Schneider
Project Manager/Sacramento Laboratory

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 LCS % recovery data is used for validation of sample batch results. Due to matrix effects, the QC limits for MS/MSD's are advisory only and are not used to accept or reject batch results.



**Sequoia
Analytical**

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819 Striker Avenue Suite 8 Sacramento CA 95834 (916) 921 9600 FAX (916) 921 0100

SECOR
3050 Fite Circle, Ste 204
Sacramento, CA 95827
Attention Rusty Benkosky

Client Project ID ARCO 2093, Tracy, CA
Matrix Water

QC Sample Group 8040022-0034

Reported Apr 16 1998

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl-Benzene	Xylenes
Method Analyst	EPA 8020 L Bettencourt	EPA 8020 L Bettencourt	EPA 8020 L Bettencourt	EPA 8020 L Bettencourt
Concentration Spiked	10 ug/L	10 ug/L	10 ug/L	30 ug/L
LCS Batch#	LCS040998	LCS040998	LCS040998	LCS040998
Date Prepared	04/09/98	04/09/98	04/09/98	04/09/98
Date Analyzed	04/09/98	04/09/98	04/09/98	04/09/98
Instrument ID #	GCHP 2	GCHP-2	GCHP-2	GCHP 2
LCS % Recovery	✓ 110	100	100	107
Control Limits	70-130%	70-130%	70-130%	70-130%
MS/MSD Batch #	8040046	8040046	8040046	8040046
Date Prepared	04/09/98	04/09/98	04/09/98	04/09/98
Date Analyzed	04/09/98	04/09/98	04/09/98	04/09/98
Instrument ID #	GCHP-2	GCHP-2	GCHP-2	GCHP 2
Matrix Spike % Recovery	120	110	110	110
Matrix Spike Duplicate % Recovery	120	110	110	110
Relative % Difference	0 0	0 0	0 0	0 0

SEQUOIA ANALYTICAL

Linda C. Schneider
Project Manager/Sacramento Laboratory

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 LCS % recovery data is used for validation of sample batch results. Due to matrix effects, the QC limits for MS/MSDs are advisory only and are not used to accept or reject batch results.



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--	---	--	--

SECOR
3050 Fite Circle, Ste 204
Sacramento, CA 95827
Attention Rusty Benkosky

Client Project ID ARCO 2093 Tracy CA
Matrix Water
QC Sample Group 8040022-0034

Reported Apr 16, 1998

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl-Benzene	Xylenes
Method Analyst	EPA 8020 L Bettencourt	EPA 8020 L Bettencourt	EPA 8020 L Bettencourt	EPA 8020 L Bettencourt
Concentration Spiked	10 ug/L	10 ug/L	10 ug/L	30 ug/L
LCS Batch#	LCS040998	LCS040998	LCS040998	LCS040998
Date Prepared	04/09/98	04/09/98	04/09/98	04/09/98
Date Analyzed	04/09/98	04/09/98	04/09/98	04/09/98
Instrument I D #	GCHP 7	GCHP-7	GCHP-7	GCHP 7
LCS % Recovery	✓ 110	100	100	100
Control Limits	70-130%	70-130%	70-130%	70-130%
MS/MSD Batch #	8040085	8040085	8040085	8040085
Date Prepared	04/09/98	04/09/98	04/09/98	04/09/98
Date Analyzed	04/09/98	04/09/98	04/09/98	04/09/98
Instrument I D #	GCHP 7	GCHP 7	GCHP 7	GCHP 7
Matrix Spike % Recovery	*	120	89	95
Matrix Spike Duplicate % Recovery	*	120	89	96
Relative % Difference	*	0.0	0.0	1.0

SEQUOIA ANALYTICAL

Linda C Schneider

Linda C Schneider
Project Manager/Sacramento Laboratory

Please Note

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SECOR
3050 Fite Circle, Ste 204
Sacramento, CA 95827
Attention Rusty Benkosky

Client Project ID ARCO 2093, Tracy, CA
Matrix Water
QC Sample Group 8040022-0034

Reported Apr 16, 1998

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes	MTBE
Method Analyst	EPA 8020 L Bettencourt	EPA 8020 L Bettencourt	EPA 8020 L Bettencourt	EPA 8020 L Bettencourt	EPA 8260 N Nelson
Concentration Spiked	10 ug/L	10 ug/L	10 ug/L	30 ug/L	50 ug/L
LCS Batch#	LCS041398	LCS041398	LCS041398	LCS041398	LCS041398A
Date Prepared	04/13/98	04/13/98	04/13/98	04/13/98	04/13/98
Date Analyzed	04/13/98	04/13/98	04/13/98	04/13/98	04/13/98
Instrument I D #	GCHP 7	GCHP-7	GCHP-7	GCHP-7	GC/MS-2
LCS % Recovery	100	96	95	94	82
Control Limits	70-130%	70-130%	70-130%	70-130%	70-130%
MS/MSD Batch #	8040190	8040190	8040190	8040190	8040822
Date Prepared	04/13/98	04/13/98	04/13/98	04/13/98	04/13/98
Date Analyzed	04/13/98	04/13/98	04/13/98	04/13/98	04/13/98
Instrument I D #	GCHP 7	GCHP-7	GCHP-7	GCHP-7	GC/MS 2
Matrix Spike % Recovery	91	99	100	100	92
Matrix Spike Duplicate % Recovery	94	99	100	100	106
Relative % Difference	3 2	0 0	0 0	0 0	14

SEQUOIA ANALYTICAL

Linda C. Schneider
Project Manager/Sacramento Laboratory

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 LCS % recovery data is used for validation of sample batch results. Due to matrix effects the QC limits for MS/MSDs are advisory only and are not used to accept or reject batch results.



Sequoia
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SECOR
3050 Fite Circle, Ste 204
Sacramento, CA 95827
Attention Rusty Benkosky

Client Project ID ARCO 2093, Tracy, CA

Lab Project ID 8040022-0034

Reported Apr 16 1998

LAB NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 17 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.)

SEQUOIA ANALYTICAL, ELAP #1624

Linda C. Schneider
Project Manager/Sacramento Laboratory

8040022 SES <14>

ARCO Products Company

Task Order No

ARCO Facility no		City (Facility)		Project manager (Consultant)		Telephone no (ARCO)		Laboratory name		Chain of Custody	
ARCO engineer		PAUL SUPPLY		Rusky Tracy		916 864-1880		Sequoia			
Consultant name		SECOND INTERNATIONAL		(Consultant)		Address		Contract number			
Sample ID	Lab no	Matrix	Preservation	Sampling date	Sampling time	Container no	Lab no	Temperature received	Turnaround time	Priority Rush	
ATR-1	X	X	HCl	3/30/98	1100	X	58040022	For 8260 OXYGENATES, DO NOT REPORT METHANOL OR ETHANOL	1 Business Day	<input checked="" type="checkbox"/>	
ATR-2					1040		0023			<input type="checkbox"/>	
ATR-3					1105		0024			<input type="checkbox"/>	
ATR-4					1120		-0025			<input type="checkbox"/>	
ATR-5					1120		-0026			<input type="checkbox"/>	
ATR-6					1140		-0027			<input type="checkbox"/>	
ATR-7					1135		-0028			<input type="checkbox"/>	
ATR-8					1025		-0029			<input type="checkbox"/>	
ATR-9					935		-0030			<input type="checkbox"/>	
ATR-10					1200		0031			<input type="checkbox"/>	
ATR-11					1610		-0032			<input type="checkbox"/>	
ATR-12					1200		-0033			<input type="checkbox"/>	
SMW-1							-0034			<input type="checkbox"/>	
Condition of sample		Reinforced by sampler		Date		Time Received by		Turnaround time		Priority Rush	
Reinforced by sampler		John J. Huligan		4-1-98		0800		2 Business Days		<input type="checkbox"/>	
Reinforced by		Date		Time Received by		Expedited		5 Business Days		<input type="checkbox"/>	
Reinforced by		Date		Time Received by laboratory		Date		Standard		<input type="checkbox"/>	
				4/1/98		1611		10 Business Days		<input checked="" type="checkbox"/>	

WELL SAMPLING REQUEST

SAMPLING PROTOCOL				Project Manager					Site Engineer		
Project No	Station #	Project Name	Release #	Rusty Benkosky	Approval	Date	Lab	Release #	Site Engineer		
	2083	ARCO		<i>PFB</i>			Sequola	22232 00	Paul Supple		

Well Number	Sampling Order	Gauging Frequency	Sampling Frequency	Analyses	TOB	Well Depth	Casing Dia (in)	Depth to Top of Screen	Comments
ATR-1	Quarterly	Semi-Annual	TPH-g/BTEX/MtBE	TOC				10	
ATR-2	Quarterly	Quarterly	TPH-g/BTEX/MtBE	TOC				8	<i>OXYgenses</i>
ATR-3	Quarterly	Semi-Annual	TPH-g/BTEX/MtBE	TOC				8	
ATR-4	Quarterly	Quarterly	TPH-g/BTEX/MtBE	TOC				8	
ATR-5	Quarterly	Quarterly	TPH-g/BTEX/MtBE	TOC				8	
ATR-6	Quarterly	Semi-Annual	TPH-g/BTEX/MtBE	TOC				7	
ATR-7	Quarterly	Quarterly	TPH-g/BTEX/MtBE	TOC				7	
ATR-8	Quarterly	Quarterly	TPH-g/BTEX/MtBE	TOC				5	<i>OXYgenses</i>
ATR-9	Quarterly	Semi-Annual	TPH-g/BTEX/MtBE	TOC				5	<i>OXYgenses</i>
ATR-10	Quarterly	Semi-Annual	TPH-g/BTEX/MtBE	TOC				8	
ATR-11	Quarterly	Semi-Annual	TPH-g/BTEX/MtBE	TOC				5	
ATR-12	Quarterly	Quarterly	TPH-g/BTEX/MtBE	TOC				5	
SMV-1	Quarterly	Quarterly	TPH-g/BTEX/MtBE	TOC				5	
TEX-1	Quarterly	NS		TOC					

Notes Measure DO in all wells Semi-annual 1st and 3rd Quarters,

Approx. No purge if possible

ATR-1 through ATR-12 quarterly by EPA 8260 no method or FID/mol

Completed
M. Shuman 3/28/98

N. Van Zee 1/20/98

SECOR International Incorporated
HYDROLOGIC DATA SHEET

Date: 3 30 98 Project: Arco # 2093 Project # 76600-038 01

Sampler MIKE MILLIGAN /N Von Doepp

Page 1 of 1

WELL or LOCATION	TIME	MEASUREMENT					COMMENTS
		TOC	DTW	DTB	DIA	ELEV	
ATR-1	915		12.58	26.10	2"		-
ATR-2	910		11.82	29.10	2"		
ATR-3	911		12.18	25.8 27.3	2"		
ATR-4	833		10.38	19.90	2"		
ATR-5	832		9.81	26.30	4"		
ATR-6	830		11.69	23.90	4"		
ATR-7	859		12.11	26.45	4"		
ATR-8	854		8.02	21.1	2"		
ATR-9	920		11.10	24.41	2"		
ATR-10	839		10.05	21.9	2"		
ATR-11	851		8.66	21.0	2"		
ATR-12	844		8.96	22.7	2"		
SMW-1	917		12.15	16.5	4"		
TEX-1	906		11.0	34.8	2"		
STORE OWNER WOULD LIKE AT LEAST ONE WEEK IN ADVANCE NOTICE OF SAMPLING EVENTS.							

TOC = Top of Well Casing Elevation

DTW = Depth of Groundwater Below TOC

DTB = Depth of Bottom of Well Casing Below TOC

DIA = Well Casing Diameter

ELEV = Groundwater Elevation

SECOR International Inc.
WATER SAMPLE FIELD DATA SHEET

PROJECT #	76600-603-01	PURGED BY	✓		WELL ID	ATR-1		
CLIENT NAME	ARCO 2043	SAMPLED BY	NRP		SAMPLE ID	ATR-1		
LOCATION	Tract, CA				QA SAMPLES			
DATE PURGED	✓		START (2400hr)	✓		END (2400hr)	✓	
DATE SAMPLED	3-30-96		SAMPLE TIME (2400hr)	1100				
SAMPLE TYPE	Groundwater <input checked="" type="checkbox"/>	Surface Water <input type="checkbox"/>	Treatment Effluent <input type="checkbox"/>	Other <input type="checkbox"/>				
CASTING DIAMETER	2" <input checked="" type="checkbox"/>	3" <input type="checkbox"/>	4" <input type="checkbox"/>	5" <input type="checkbox"/>	6" <input type="checkbox"/>	8" <input type="checkbox"/>	Other <input type="checkbox"/>	
Casing Volume (gallons per foot)	(0.17)	(0.38)	(0.67)	(1.02)	(1.50)	(2.60)	()	
DEPTH TO BOTTOM (feet) =	26.10		CASING VOLUME (gal) =					
DEPTH TO WATER (feet) =	12.58		CALCULATED PURGE (gal) =					
WATER COLUMN HEIGHT (feet) =			ACTUAL PURGE (gal) =					

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP (degrees F/C)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
		No Purge	81W	below	TDS		
3-30-96	1100	19.4	1865	7.3	cr		(cr)
		D _o = 2.0 mg/l					

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER 12.60 SAMPLE TURBIDITY: 60d

80% RECHARGE: YES NO

ANALYSES: TPH, BTEX & NITRO

ODOR: None

SAMPLE VESSEL / PRESERVATIVE

3 VOCs

PURGING EQUIPMENT

- Bladder Pump
- Centrifugal Pump
- Submersible Pump
- Peristaltic Pump
- Other: _____
- Pump Depth: _____

SAMPLING EQUIPMENT

- Bladder Pump
- Baile (Teflon)
- Baile (PVC)
- Baile (Stainless Steel)
- Dedicated _____
- Other _____
- Baile (Teflon)
- Baile (PVC or disposable)
- Baile (Stainless Steel)
- Dedicated _____

WELL INTEGRITY: Good

LOCK# _____

REMARKS: _____

SIGNATURE: John B. Ross

Page 1 of 1

SECOR International Inc.
WATER SAMPLE FIELD DATA SHEET

PROJECT #	Arco # 2093	PURGED BY	—	WELL I.D.	ATR-2		
CLIENT NAME	Arco	SAMPLED BY	M. MULGAN	SAMPLE I.D	ATR-2		
LOCATION	Tracy Blvd, Tracy			QA SAMPLES			
DATE PURGED		START (2400hr)		END (2400hr)			
DATE SAMPLED	3 30 98	SAMPLE TIME (2400hr)	1040				
SAMPLE TYPE	Groundwater <input checked="" type="checkbox"/>	Surface Water <input type="checkbox"/>	Treatment Effluent <input type="checkbox"/>	Other <input type="checkbox"/>			
CASING DIAMETER	2" <input checked="" type="checkbox"/>	3" <input type="checkbox"/>	4" <input type="checkbox"/>	5" <input type="checkbox"/>	6" <input type="checkbox"/>	8" <input type="checkbox"/>	Other <input type="checkbox"/>
Casing Volume (gallons per foot)	(0.17)	(0.38)	(0.67)	(1.02)	(1.50)	(2.60)	()
DEPTH TO BOTTOM (feet) =	2910	CASING VOLUME (gal) =					
DEPTH TO WATER (feet) =	1182	CALCULATED PURGE (gal) =					
WATER COLUMN HEIGHT (feet) =		ACTUAL PURGE (gal) =					

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
		No Purge	DTW below	TDS			
3 30 98	1040	Grab	193	1858	73	H. brown	high
Dissolved O ₂	12 mg/L		+936 fm	+858			

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER 1182

SAMPLE TURBIDITY high

80% RECHARGE YES NO

ANALYSES

ODOR Slight

SAMPLE VESSEL / PRESERVATIVE 3 x 40 ml vials HCl

PURGING EQUIPMENT		SAMPLING EQUIPMENT	
<input type="checkbox"/> Bladder Pump	<input type="checkbox"/> Baile (Teflon)	<input checked="" type="checkbox"/> Bladder Pump	<input checked="" type="checkbox"/> Baile (Teflon)
<input type="checkbox"/> Centrifugal Pump	<input type="checkbox"/> Baile (PVC)	<input type="checkbox"/> Centrifugal Pump	<input type="checkbox"/> Baile (PVC or disposable)
<input type="checkbox"/> Submersible Pump	<input type="checkbox"/> Baile (Stainless Steel)	<input type="checkbox"/> Submersible Pump	<input type="checkbox"/> Baile (Stainless Steel)
<input type="checkbox"/> Peristaltic Pump	<input type="checkbox"/> Dedicated	<input type="checkbox"/> Peristaltic Pump	<input type="checkbox"/> Dedicated
Other		Other	Disposable
Pump Depth			

WELL INTEGRITY good

LOCK#

REMARKS

SIGNATURE

Mike Mulgan

Page ____ of ____

SECOR International Inc.
WATER SAMPLE FIELD DATA SHEET

PROJECT #	Arco #2093	PURGED BY	/	WELL ID	ATR-3		
CLIENT NAME	Arco	SAMPLED BY	M Milligan	SAMPLE ID	ATR-3		
LOCATION	Tracy Blvd, Tracy			QA SAMPLES			
DATE PURGED	/	START (2400hr)	/	END (2400hr)	/		
DATE SAMPLED	3-30-98	SAMPLE TIME (2400hr)	1105				
SAMPLE TYPE	Groundwater <input checked="" type="checkbox"/>	Surface Water	/	Treatment Effluent	/		
CASING DIAMETER	2" <input checked="" type="checkbox"/>	3" /	4" /	5" /	6" /	8" /	Other /
Casing Volume (gallons per foot)	(0.17)	(0.38)	(0.67)	(1.02)	(1.50)	(2.60)	()
DEPTH TO BOTTOM (feet) =	25.8	CASING VOLUME (gal) =	/				
DEPTH TO WATER (feet) =	12.18	CALCULATED PURGE (gal) =	/				
WATER COLUMN HEIGHT (feet) =		ACTUAL PURGE (gal) =	/				

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
No Purge Required, DTW		Below Top of Screen					
3-30-98	1106	GRAB	20.3°C	937	7.4	lt brown/grey	low
DISSOLVED O ₂	0.8 mg/l						

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER. 12.18 SAMPLE TURBIDITY low

80% RECHARGE YES NO

ANALYSES

ODOR strong

SAMPLE VESSEL / PRESERVATIVE 3 x 40 ml VOA / HCl

PURGING EQUIPMENT		SAMPLING EQUIPMENT	
Bladder Pump	Bailer (Teflon)	Bladder Pump	X Bailer (Teflon)
Centrifugal Pump	Bailer (PVC)	Centrifugal Pump	Bailer (PVC or disposable)
Submersible Pump	Bailer (Stainless Steel)	Submersible Pump	Bailer (Stainless Steel)
Peristaltic Pump	Dedicated	Peristaltic Pump	Dedicated
Other		Other	Disposable
Pump Depth			

WELL INTEGRITY good

LOCK#

REMARKS

SIGNATURE

Page ____ of ____

SECOR International Inc.
WATER SAMPLE FIELD DATA SHEET

PROJECT # <u>Arco # 2093</u>	PURGED BY <u> </u>	WELL ID <u>ATR-4</u>					
CLIENT NAME <u>Arco</u>	SAMPLED BY: <u>M Milligan</u>	SAMPLE ID <u>ATR-4</u>					
LOCATION <u>Tracy Blvd, Tracy</u>	QA SAMPLES <u> </u>						
DATE PURGED <u> </u>	START (2400hr) <u> </u>	END (2400hr) <u> </u>					
DATE SAMPLED <u>3 30 98</u>	SAMPLE TIME (2400hr) <u>1120</u>						
SAMPLE TYPE	Groundwater <u>X</u>	Surface Water <u> </u>	Treatment Effluent <u> </u>	Other <u> </u>			
CASING DIAMETER	2" <u>X</u>	3" <u> </u>	4" <u> </u>	5" <u> </u>	6" <u> </u>	8" <u> </u>	Other <u> </u>
Casing Volume (gallons per foot)	(0 17)	(0 38)	(0 67)	(1 02)	(1 50)	(2 60)	()
DEPTH TO BOTTOM (feet) =	<u>19 9</u>		CASING VOLUME (gal) = <u> </u>				
DEPTH TO WATER (feet) =	<u>10 38</u>		CALCULATED PURGE (gal) = <u> </u>				
WATER COLUMN HEIGHT (feet) =	<u> </u>		ACTUAL PURGE (gal) = <u> </u>				

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
<u>No Purge Required; DTW BELOW TOP OF SCREEN</u>							
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u>3-30-98</u>	<u>1124</u>	<u>GRAB</u>	<u>197°C</u>	<u>913</u>	<u>78</u>	<u>brown</u>	<u>high</u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u>DO = 1.1 mg/l</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 10 38

SAMPLE TURBIDITY high

80% RECHARGE YES NO

ANALYSES

ODOR Slight

SAMPLE VESSEL / PRESERVATIVE 3 x 40 ml VOA/HCl

PURGING EQUIPMENT

- Bladder Pump
- Centrifugal Pump
- Submersible Pump
- Peristaltic Pump
- Other
- Pump Depth

- Bailor (Teflon)
- Bailor (PVC)
- Bailor (Stainless Steel)
- Dedicated

SAMPLING EQUIPMENT

- Bladder Pump
- Centrifugal Pump
- Submersible Pump
- Peristaltic Pump
- Other disposable
- Bailor (Teflon)
- Bailor (PVC or disposable)
- Bailor (Stainless Steel)
- Dedicated

WELL INTEGRITY good

LOCK#

REMARKS

SIGNATURE Mike Milligan

Page of

SECOR International Inc
WATER SAMPLE FIELD DATA SHEET

PROJECT # 76600-038-01

CLIENT NAME

LOCATION

DATE PURGED

DATE SAMPLED

SAMPLE TYPE

CASING DIAMETER

Casing Volume (gallons per foot)

DEPTH TO BOTTOM (feet) =

DEPTH TO WATER (feet) =

WATER COLUMN HEIGHT (feet) =

PURGED BY NvJ

SAMPLED BY NvD

WELL ID ATR-5

SAMPLE ID ATR-5

QA SAMPLES /

START (2400hr) /

SAMPLE TIME (2400hr) 1120

END (2400hr) /

Groundwater

Surface Water

Treatment Effluent

Other

2"

(0.17)

3"

(0.38)

4"

(0.67)

5"

(1.02)

6"

(1.50)

8"

(2.60)

Other

()

26 30

CASING VOLUME (gal) =

9 81

CALCULATED PURGE (gal) =

ACTUAL PURGE (gal) =

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP (degrees $^{\circ}$ C)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
		No purge. DTW below		TDS			
3.30	1120	19.5	1530	7.1	ok	ice	
		DW = 21 mg/l					

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 9.80

SAMPLE TURBIDITY: 6ntu

80% RECHARGE: YES NO

ODOR: Slight gas

ANALYSES TPH BTEx MTBE

SAMPLE VESSEL / PRESERVATIVE 3 Vacu / HCC

PURGING EQUIPMENT

- Bladder Pump
- Centrifugal Pump
- Submersible Pump
- Peristaltic Pump
- Other

Pump Depth _____

- Bailer (Teflon)
- Bailer (PVC)
- Bailer (Stainless Steel)
- Dedicated

SAMPLING EQUIPMENT

- Bladder Pump
- Centrifugal Pump
- Submersible Pump
- Peristaltic Pump
- Other

- Bailer (Teflon)
- Bailer (PVC or disposable)
- Bailer (Stainless Steel)
- Dedicated

WELL INTEGRITY Good

LOCK# _____

REMARKS _____

SIGNATURE J.S.

Page 1 of 1

SECOR International Inc.
WATER SAMPLE FIELD DATA SHEET

PROJECT #	Arco # 2093	PURGED BY		WELL ID	ATR-6		
CLIENT NAME	Arco	SAMPLED BY:	M Milligan	SAMPLE ID	ATR-6		
LOCATION	Tracy Blvd, Tracy	QA SAMPLES					
DATE PURGED		START (2400hr)		END (2400hr)			
DATE SAMPLED	3-30-98	SAMPLE TIME (2400hr)	1140				
SAMPLE TYPE	Groundwater <input checked="" type="checkbox"/>	Surface Water		Treatment Effluent			
CASING DIAMETER	2" <input type="checkbox"/>	3" <input type="checkbox"/>	4" <input checked="" type="checkbox"/>	5" <input type="checkbox"/>	6" <input type="checkbox"/>	8" <input type="checkbox"/>	Other <input type="checkbox"/>
Casing Volume (gallons per foot)	(0.17)	(0.38)	(0.67)	(1.02)	(1.50)	(2.60)	()
DEPTH TO BOTTOM (feet) =	23.9	CASING VOLUME (gal) =					
DEPTH TO WATER (feet) =	11.69	CALCULATED PURGE (gal) =					
WATER COLUMN HEIGHT (feet) =		ACTUAL PURGE (gal) =					

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
No Purge Required, DTW Below			TOP OF SCREEN				
3-30-98	1142	Grab	22.1°C	1629	7.4	none	slight
Dissolved O ₂	19 mg/L						

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER 11.69

SAMPLE TURBIDITY Slight

80% RECHARGE YES NO

ANALYSES

ODOR: None

SAMPLE VESSEL / PRESERVATIVE 3 x 40 ml VOA / HCl

PURGING EQUIPMENT

- Bladder Pump
- Centrifugal Pump
- Submersible Pump
- Peristaltic Pump
- Other _____
- Pump Depth _____

- Baile (Teflon)
- Baile (PVC)
- Baile (Stainless Steel)
- Dedicated

SAMPLING EQUIPMENT

- Bladder Pump
- Centrifugal Pump
- Submersible Pump
- Peristaltic Pump
- Other _____

- Baile (Teflon)
- Baile (PVC or disposable)
- Baile (Stainless Steel)
- Dedicated

WELL INTEGRITY good

LOCK# _____

REMARKS _____

SIGNATURE

Page ____ of ____

SECOR International Inc.
WATER SAMPLE FIELD DATA SHEET

PROJECT #	761600-638-01	PURGED BY	/	WELL I.D.	ATR-7		
CLIENT NAME	AFCO 2093	SAMPLED BY	NvD	SAMPLE I.D	ATR-7		
LOCATION	Tracy, CA			QA SAMPLES	/		
DATE PURGED	/	START (2400hr)	/	END (2400hr)	/		
DATE SAMPLED	3-30-98	SAMPLE TIME (2400hr)	1135				
SAMPLE TYPE	Groundwater X	Surface Water		Treatment Effluent			
CASING DIAMETER	2"	3"	4" <input checked="" type="checkbox"/>	5"	6"	8"	Other _____
Casing Volume. (gallons per foot)	(0.17)	(0.38)	(0.67)	(1.02)	(1.50)	(2.60)	()
DEPTH TO BOTTOM (feet) =	26.95	CASING VOLUME (gal) =					
DEPTH TO WATER (feet) =	12.11	CALCULATED PURGE (gal) =					
WATER COLUMN HEIGHT (feet) =		ACTUAL PURGE (gal) =					

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
	No Purge - DTW below TOS						
5-30	1135	19.3	1745	7.3	CW	low	

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER 12.10 SAMPLE TURBIDITY.

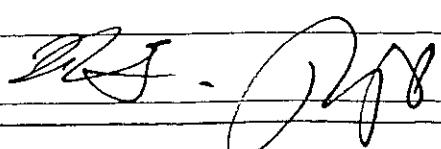
80% RECHARGE YES NO ANALYSES: TPHs BTEX & MTBE

ODOR None SAMPLE VESSEL / PRESERVATIVE 3 Vials / HCC

PURGING EQUIPMENT		SAMPLING EQUIPMENT	
<input type="checkbox"/> Bladder Pump	<input type="checkbox"/> Bailer (Teflon)	<input type="checkbox"/> Bladder Pump	<input checked="" type="checkbox"/> Bailer (Teflon)
<input type="checkbox"/> Centrifugal Pump	<input type="checkbox"/> Bailer (PVC)	<input type="checkbox"/> Centrifugal Pump	<input type="checkbox"/> Bailer (PVC or disposable)
<input type="checkbox"/> Submersible Pump	<input type="checkbox"/> Bailer (Stainless Steel)	<input type="checkbox"/> Submersible Pump	<input type="checkbox"/> Bailer (Stainless Steel)
<input type="checkbox"/> Peristaltic Pump	<input type="checkbox"/> Dedicated	<input type="checkbox"/> Peristaltic Pump	<input type="checkbox"/> Dedicated
Other:		Other	
Pump Depth			

WELL INTEGRITY Good LOCK#

REMARKS

SIGNATURE  Page 1 of 1

SECOR International Inc
WATER SAMPLE FIELD DATA SHEET

PROJECT #	Arco # 2093	PURGED BY		WELL ID	ATR-8		
CLIENT NAME	Arco	SAMPLED BY	M. Milligan	SAMPLE ID	ATR-8		
LOCATION	Tracy Blvd, Tracy	QA SAMPLES _____					
DATE PURGED	_____	START (2400hr)	_____	END (2400hr)	_____		
DATE SAMPLED	3-30-98	SAMPLE TIME (2400hr)	1025				
SAMPLE TYPE	Groundwater <input checked="" type="checkbox"/>	Surface Water	_____	Treatment Effluent	_____		
CASING DIAMETER	2" <input checked="" type="checkbox"/>	3" _____	4" _____	5" _____	6" _____	8" _____	Other _____
Casing Volume (gallons per foot)	(0.17)	(0.38)	(0.67)	(1.02)	(1.50)	(2.60)	()
DEPTH TO BOTTOM (feet) =	21.1	CASING VOLUME (gal) =				_____	
DEPTH TO WATER (feet) =	8.02	CALCULATED PURGE (gal) =				_____	
WATER COLUMN HEIGHT (feet) =	_____	ACTUAL PURGE (gal) =				_____	

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
<u>No Purge Required, DTW Below Top of Screen</u>							
3-30-98	1027	GRAB	20 9°C	1833	7.2	lt. brown/tint	slight
DISSOLVED O ₂	0.8 mg/L						

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 8.02

SAMPLE TURBIDITY slight

80% RECHARGE YES NO

ANALYSES _____

ODOR: slight

SAMPLE VESSEL / PRESERVATIVE 3 x 40 ml VOA / HCl

PURGING EQUIPMENT

- Bladder Pump
- Centrifugal Pump
- Submersible Pump
- Peristaltic Pump
- Other _____
- Pump Depth _____

SAMPLING EQUIPMENT

- Bladder Pump
- Baile (Teflon)
- Baile (PVC)
- Baile (Stainless Steel)
- Dedicated _____
- Bladder Pump
- Centrifugal Pump
- Submersible Pump
- Peristaltic Pump
- Other DISPOSABLE
- Baile (Teflon)
- Baile (PVC or disposable)
- Baile (Stainless Steel)
- Dedicated _____

WELL INTEGRITY Good

LOCK# _____

REMARKS _____

SIGNATURE

Page ____ of ____

SECOR International Inc
WATER SAMPLE FIELD DATA SHEET

PROJECT #	Arco #2093	PURGED BY	MILLIGAN	WELL ID	ATR-9		
CLIENT NAME	Arco	SAMPLED BY:	MILLIGAN	SAMPLE ID	ATR-9		
LOCATION	Tracy Blvd, Tracy		M MILLIGAN	QA SAMPLES			
DATE PURGED		START (2400hr)		END (2400hr)			
DATE SAMPLED	3 30 98	SAMPLE TIME (2400hr)	935				
SAMPLE TYPE.	Groundwater <input checked="" type="checkbox"/>	Surface Water		Treatment Effluent			
CASING DIAMETER	2" <input checked="" type="checkbox"/>	3" <input type="checkbox"/>	4" <input type="checkbox"/>	5" <input type="checkbox"/>	6" <input type="checkbox"/>	8" <input type="checkbox"/>	Other <input type="checkbox"/>
Casing Volume (gallons per foot)	(0.17)	(0.38)	(0.67)	(1.02)	(1.50)	(2.60)	()
DEPTH TO BOTTOM (feet) =	24.41	CASING VOLUME (gal) =					
DEPTH TO WATER (feet) =	11.10	CALCULATED PURGE (gal) =					
WATER COLUMN HEIGHT (feet) =		ACTUAL PURGE (gal) =					

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
No Purge Required, DTW		Below Top of Screen					
3 30 98	938	988 Grab	219	1910	6.8	lt brown	low
"	"						
Dissolved O2	24 mg/L						

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER 11.10 , SAMPLE TURBIDITY low

80% RECHARGE: YES NO

ANALYSES.

ODOR none

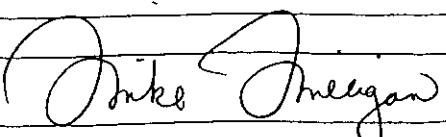
SAMPLE VESSEL / PRESERVATIVE 3 x 40 ml VOA / HCl

PURGING EQUIPMENT		SAMPLING EQUIPMENT	
<input type="checkbox"/> Bladder Pump	<input checked="" type="checkbox"/> Baile (Teflon)	<input type="checkbox"/> Bladder Pump	<input checked="" type="checkbox"/> Baile (Teflon)
<input type="checkbox"/> Centrifugal Pump	<input checked="" type="checkbox"/> Baile (PVC)	<input type="checkbox"/> Centrifugal Pump	<input type="checkbox"/> Baile (PVC or disposable)
<input type="checkbox"/> Submersible Pump	<input checked="" type="checkbox"/> Baile (Stainless Steel)	<input type="checkbox"/> Submersible Pump	<input type="checkbox"/> Baile (Stainless Steel)
<input type="checkbox"/> Peristaltic Pump	<input checked="" type="checkbox"/> Dedicated	<input type="checkbox"/> Peristaltic Pump	<input type="checkbox"/> Dedicated
Other: _____		Other: <input checked="" type="checkbox"/> disposable	
Pump Depth _____			

WELL INTEGRITY good

LOCK# _____

REMARKS _____

SIGNATURE 

SECOR International Inc.
WATER SAMPLE FIELD DATA SHEET

PROJECT #	761600-603-01	PURGED BY	✓	WELL ID	ATR-10		
CLIENT NAME	AFCO 203	SAMPLED BY	AWP	SAMPLE ID	ATR-10		
LOCATION	Tracey			QA SAMPLES	—		
DATE PURGED	✓	START (2400hr)	—	END (2400hr)	—		
DATE SAMPLED	3 30 98	SAMPLE TIME (2400hr)	1200				
SAMPLE TYPE:	Groundwater <input checked="" type="checkbox"/>	Surface Water	—	Treatment Effluent	—		
CASING DIAMETER:	2" <input checked="" type="checkbox"/>	3" <input type="checkbox"/>	4" <input type="checkbox"/>	5" <input type="checkbox"/>	6" <input type="checkbox"/>	8" <input type="checkbox"/>	Other <input type="checkbox"/>
Casing Volume. (gallons per foot)	(0.17)	(0.38)	(0.67)	(1.02)	(1.50)	(2.60)	()
DEPTH TO BOTTOM (feet) =	21.90	CASING VOLUME (gal) =	—				
DEPTH TO WATER (feet) =	10.05	CALCULATED PURGE (gal) =	—				
WATER COLUMN HEIGHT (feet) =	—	ACTUAL PURGE (gal) =	—				

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—
3-30-98	1200	—	19.8	1791	73	cldy	low
—	PO = 2.3	no 1.	—	—	—	—	—

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER 10 07 SAMPLE TURBIDITY cloudy-low

80% RECHARGE: YES NO

ANALYSES TPH BTEX MTBE

ODOR: None

SAMPLE VESSEL / PRESERVATIVE 3 vials / H2O

PURGING EQUIPMENT		SAMPLING EQUIPMENT	
Bladder Pump	Bailer (Teflon)	Bladder Pump	<input checked="" type="checkbox"/> Bailer (Teflon)
Centrifugal Pump	Bailer (PVC)	Centrifugal Pump	Bailer (PVC or disposable)
Submersible Pump	Bailer (Stainless Steel)	Submersible Pump	Bailer (Stainless Steel)
Peristaltic Pump	Dedicated	Peristaltic Pump	Dedicated
Other:	—	Other	—
Pump Depth	—	—	—

WELL INTEGRITY Good

LOCK#

REMARKS

SIGNATURE RJ - PWP

Page of

SECOR International Inc.
WATER SAMPLE FIELD DATA SHEET

PROJECT # Arco # 2093

PURGED BY _____

WELL ID ATR-11

IDENT NAME Arco

SAMPLED BY M Milligan

SAMPLE ID: ATR-11

LOCATION Tracy Blvd, Tracy

QA SAMPLES _____

DATE PURGED /

START (2400hr) /

END (2400hr) /

DATE SAMPLED 3 30 98

SAMPLE TIME (2400hr) 1010

SAMPLE TYPE Groundwater X Surface Water _____ Treatment Effluent _____ Other _____

CASING DIAMETER 2" X 3" _____ 4" _____ 5" _____ 6" _____ 8" _____ Other _____
Casing Volume (gallons per foot) (0.17) (0.38) (0.67) (1.02) (1.50) (2.60) _____

DEPTH TO BOTTOM (feet) = 210 Casing VOLUME (gal) = _____

DEPTH TO WATER (feet) = 866 CALCULATED PURGE (gal) = _____

WATER COLUMN HEIGHT (feet) = _____ ACTUAL PURGE (gal) = _____

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
<u>No Purge Required, DTW Below Top of Screen</u>							
<u>3 30 98</u>	<u>1012</u>	<u>grab</u>	<u>20 0°C</u>	<u>1690</u>	<u>7.4</u>	<u>lt brown</u>	<u>low</u>
<u>Dissolved O₂</u>	<u>15 mg/l</u>			<u>Notes (mm)</u>			

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER 866 SAMPLE TURBIDITY low

80% RECHARGE YES NO ANALYSES _____

ODOR None SAMPLE VESSEL / PRESERVATIVE 3 x 40 ml VOA / HCl

PURGING EQUIPMENT		SAMPLING EQUIPMENT	
<input type="checkbox"/> Bladder Pump	<input checked="" type="checkbox"/> Baile (Teflon)	<input type="checkbox"/> Bladder Pump	<input checked="" type="checkbox"/> Baile (Teflon)
<input type="checkbox"/> Centrifugal Pump	<input type="checkbox"/> Baile (PVC)	<input type="checkbox"/> Centrifugal Pump	<input type="checkbox"/> Baile (PVC or disposable)
<input type="checkbox"/> Submersible Pump	<input type="checkbox"/> Baile (Stainless Steel)	<input type="checkbox"/> Submersible Pump	<input type="checkbox"/> Baile (Stainless Steel)
<input type="checkbox"/> Peristaltic Pump	<input type="checkbox"/> Dedicated	<input type="checkbox"/> Peristaltic Pump	<input type="checkbox"/> Dedicated
Other _____		Other _____	
Pump Depth _____		disposable	

WELL INTEGRITY good LOCK# _____

REMARKS _____

SIGNATURE Mike Milligan Page of 1

SECOR International Inc.

WATER SAMPLE FIELD DATA SHEET

PROJECT # Arco # 2093

PURGED BY _____

WELL ID ATR-12

CLIENT NAME Arco

SAMPLED BY M Milligan

SAMPLE ID ATR-12

LOCATION Tracy Blvd., Tracy

QA SAMPLES _____

DATE PURGED _____

START (2400hr) _____

END (2400hr) _____

DATE SAMPLED 3 30 98

SAMPLE TIME (2400hr) 1200

SAMPLE TYPE Groundwater

Surface Water _____

Treatment Effluent _____

Other _____

CASING DIAMETER 2"

3" _____

4" _____

5" _____

6" _____

8" _____

Casing Volume (gallons per foot) (0.17)

(0.38) (0.67) (1.02) (1.50) (2.60) Other _____

DEPTH TO BOTTOM (feet) = 22.7

CASING VOLUME (gal) = _____

DEPTH TO WATER (feet) = 8.96

CALCULATED PURGE (gal) = _____

WATER COLUMN HEIGHT (feet) = _____

ACTUAL PURGE (gal) = _____

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
<u>No Purge Required, DTW Below Top of Screen</u>							

3 30 98	1202	GRAB	22.6°C	1809	7.4	lt brown	moderate

Dissolved O₂: 21 mg/l

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER 8.96

SAMPLE TURBIDITY: moderate

80% RECHARGE YES NO

ANALYSES _____

ODOR none

SAMPLE VESSEL / PRESERVATIVE 3 x 40 ml VOA / HCl

PURGING EQUIPMENT

Bladder Pump
Centrifugal Pump
Submersible Pump
Peristaltic Pump

Other
Pump Depth _____

Bailer (Teflon)

Bailer (PVC)

Bailer (Stainless Steel)

Dedicated _____

SAMPLING EQUIPMENT

Bladder Pump
Centrifugal Pump
Submersible Pump
Peristaltic Pump

Other disposable

X Bailer (Teflon)

Bailer (PVC or disposable)

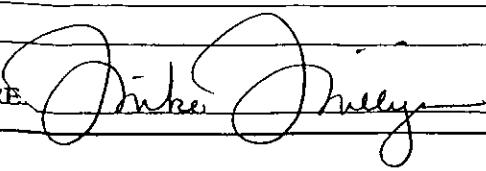
Bailer (Stainless Steel)

Dedicated _____

WELL INTEGRITY good

LOCK# _____

REMARKS _____

SIGNATURE 

Page ____ of ____

SECOR International Inc.
WATER SAMPLE FIELD DATA SHEET

PROJECT #	76600-603-01	PURGED BY		WELL I.D.	SMW-1		
CLIENT NAME	AECO 2093	SAMPLED BY	MJD	SAMPLE I.D.	SMW-1		
LOCATION	QA SAMPLES						
DATE PURGED	3/30	START (2400hr)		END (2400hr)			
DATE SAMPLED	3.30.98	SAMPLE TIME (2400hr)	1045				
SAMPLE TYPE	Groundwater <input checked="" type="checkbox"/>	Surface Water		Treatment Effluent			
CASING DIAMETER	2"	3"	4" <input checked="" type="checkbox"/>	5"	6"	8"	Other _____
Casing Volume (gallons per foot)	(0.17)	(0.38)	(0.67)	(1.02)	(1.50)	(2.60)	()
DEPTH TO BOTTOM (feet) =	16.5	CASING VOLUME (gal) =					
DEPTH TO WATER (feet) =	12.15	CALCULATED PURGE (gal) =					
WATER COLUMN HEIGHT (feet) =		ACTUAL PURGE (gal) =					

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
		No Pump, PTW below		TOS			
3.30.98	/	665	1910	7.1	cw	low	
		DO = 16 mg/l					

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER _____ SAMPLE TURBIDITY. 602

80% RECHARGE. YES NO

ANALYSES. TPH BTEX MTBE

ODOR. Slight Gas

SAMPLE VESSEL / PRESERVATIVE 3 Vogs

PURGING EQUIPMENT		SAMPLING EQUIPMENT	
<input type="checkbox"/> Bladder Pump	<input checked="" type="checkbox"/> Baile (Teflon)	<input type="checkbox"/> Bladder Pump	<input checked="" type="checkbox"/> Baile (Teflon)
<input type="checkbox"/> Centrifugal Pump	<input checked="" type="checkbox"/> Baile (PVC)	<input type="checkbox"/> Centrifugal Pump	<input type="checkbox"/> Baile (PVC or disposable)
<input type="checkbox"/> Submersible Pump	<input checked="" type="checkbox"/> Baile (Stainless Steel)	<input type="checkbox"/> Submersible Pump	<input checked="" type="checkbox"/> Baile (Stainless Steel)
<input type="checkbox"/> Peristaltic Pump	<input type="checkbox"/> Dedicated	<input type="checkbox"/> Peristaltic Pump	<input type="checkbox"/> Dedicated
Other _____		Other _____	
Pump Depth _____			

WELL INTEGRITY Good LOCK# _____

REMARKS Vaulted well

SIGNATURE RJDR Page 1 of 1