

# SPARTON

## SPARTON TECHNOLOGY

HAND DELIVERED, March 4, 1998

March 4, 1998

Michael A. Hebert  
Technical Section (6EN-HX)  
Hazardous Waste Enforcement Branch  
U.S. Environmental Protection Agency - Region 6  
1445 Ross Avenue  
Dallas Texas, 75202-2733

Re: Ground Water Monitoring Plan

Dear Mr. Hebert:

As you have been previously advised Sparton Technology, Inc. ("Sparton") objects on several grounds to a Final Administrative Order received on February 12, 1998. Sparton's concerns are the subject of ongoing litigation in Albuquerque.

Subject to and without waiving those objections and claims we have raised and will raise in the litigation, enclosed are four copies of Sparton's Ground Water Monitoring Plan for existing off-site and on-site ground water monitoring wells. This plan is submitted pursuant to item 2 of Task I, Section VII of the Final Administrative Order. A copy of this plan has also been sent to Ed Kelly with NMED.

If you have any questions please contact me at (505) 892-5300.

Sincerely,  
SPARTON TECHNOLOGY, INC.

*R.D. Mico*

Richard D. Mico  
Vice President and General Manager

cc: Jan Appel  
Pierce Chandler  
Jim Harris  
Ed Kelly: New Mexico Environment Department ✓  
John Wakefield

*To Marcy ED JEMU*

RECEIVED

MAR 09 1998

RECEIVED

MAR 06 1998

NM ENVIRONMENT DEPARTMENT  
OFFICE OF THE SECRETARY

**CONTINUED MONITORING PLAN  
FOR  
EXISTING GROUND WATER MONITORING WELLS**

**FOR**

**SPARTON TECHNOLOGY, INC.  
COORS ROAD PLANT  
ALBUQUERQUE, NEW MEXICO**

**PREPARED BY**

**PIERCE L. CHANDLER, JR.**

**MARCH 2, 1998**

## INTRODUCTION

This Continued Monitoring Plan (CMP) for the existing on-site and off-site ground water monitoring wells at the Sparton Technology, Inc. Coors Road Plant was developed in response to Section VII, Task I, item 2 (and Task I.B. of Attachment I) of a Final Administrative Order received from U.S. EPA on February 12, 1998. This CMP covers sampling and analyses of groundwater and water level measurement. The CMP was prepared in general conformance with applicable regulations and guidance and is representative of sampling and analytical procedures that have been used at the site for the past fifteen years. The CMP is based on the results of extensive ground water monitoring and other site characterization previously conducted at the Coors Road Plant.

## BACKGROUND

State Monitoring Program. In 1983, Sparton began ground water monitoring activities at the Coors Road Plant in conformance with New Mexico Environment Department's Hazardous and Radioactive Materials Bureau (NMED-HRMB) requirements. A total of 27 wells were installed (MW-1 through MW-25, PW-1, and P-1). The required State sampling protocol conducted by Sparton is referred to as the Alternate Ground Water Monitoring Program (AGMP). Per the AGMP sampling protocol, eight on-site wells (MW-9, MW-14, MW-15, MW-16, MW-19, MW-20, MW-21, and MW-22) are sampled on a quarterly basis. In the 1st, 2nd, and 4th Quarters, these wells are sampled for the following parameters: VOC by EPA Method 8010, TOX, TOC, pH and specific conductance (starting in the 2nd Quarter 1993, NMED approved changing analytical methods for VOC analysis from 8240 to 8010 for the aforementioned quarterly events). In the 3rd Quarter, the same AGMP wells are sampled for the following parameters: VOC by EPA Method 8240 (now Method 8260), TOX, TOC,

pH, specific conductance, TKN, chloride, sulfate, Nitrate as N, sodium, boron, manganese, nickel, chromium and hexavalent chromium. The AGMP continues to the present time.

RFI Monitoring Program. In response to a U.S. EPA Administrative Order on Consent (AOC) dated October 1988, Sparton installed 40 ground water monitoring wells (MW-26 through MW-64 and PZ-1) and implemented an on-site ground water extraction and treatment Interim Measure (IM) in December 1988. Using both new (RFI) and existing wells (PW-1, MW-18, MW-23, MW24, MW-25, MW-26, MW-27, and MW-28), sampling and analyses were conducted in accordance with the RFI workplan (originally submitted on December 28, 1988, revised March 3, 1989, and approved by U.S. EPS on March 6, 1998) and EPA guidance.

Including the wells installed prior to the AOC, and thereafter, a combined total of 67 wells were installed; however, ten were plugged and abandoned, resulting in an active network of 57 ground water monitoring wells located both on and off site. Eight of the wells (PW-1, MW-18, MW-23, MW-24, MW-25, MW-26, MW-27, and MW-28) are used for IM recovery purposes. A total of 45 wells have dedicated bladder pumps. The remaining four wells are used for static water level measurements.

The RFI monitoring program terminated with the June 1991 sampling event included in the August 13, 1991 revised RFI Report submitted in final form and approved by U.S. EPA on July 1, 1992.

Current Monitoring Program. Sparton unilaterally initiated its own ground water monitoring program in the 4th Quarter 1991, called the Supplementary Ground Water Monitoring Program (SGMP). Originally, this program involved sampling 11 off-site and four on-site wells on a quarterly basis for VOC analysis using EPA method 8240. Currently, the

SGMP program samples 18 off-site and four on-site wells on a quarterly basis. Analytical methodology was changed from Method 8240 to Method 8260 as of the 1st Quarter 1998. The SGMP was designed to complement the ongoing on-site State ground water monitoring program (i.e., the AGMP) and to track results of the IM.

Sparton has also monitored eight on-site wells (different than the 4 on-site wells sampled under the SGMP) under AGMP quarterly over the same time period.

The current sampling procedure under the SGMP (which consists of water level measurement, purging of three well casing volumes, and actual sampling) remains unchanged from the previous programs. However, since constituents of concern have been identified as chlorinated VOC, generally only VOC analyses are conducted currently. In addition, the analytical method for VOC was changed from 8240 to 8010.

On an approximately annual frequency, U.S. EPA/State of New Mexico split samples under the SGMP and AGMP with Sparton. On two of the annual events (December 1993 and January 1996), wells in addition to those covered by the SGMP and AGMP were sampled.

In 1996, Sparton's SGMP indicated that the plume limits extended beyond several of the previously non-detect ( $< 5 \mu\text{g/l}$  TCE) down gradient monitoring wells (e.g., MW-60 and MW-61). Sparton voluntarily installed five additional down gradient "sentinel" ground water monitoring wells to further define plume limits and rates of movement. The new wells, with subsequent sampling and analysis, were added to the SGMP well network (current total of 22 wells).

From July 1996 through January 1998, an additional six quarters of ground water constituent data have been obtained. Over the last six quarters, all but one of the "sentinel" wells and all of the other non-detect wells have remained non-detect ( $< 5 \mu\text{g/l}$ ) as summarized

in Table 1. Of the 30 wells in the two current monitoring programs (AGMP and SGMP), only a single well (MW-60) has shown a distinct increasing trend. Wells MW-58 and MW-65 have shown increases in constituent concentration since initial sampling but no trend is apparent. Wells sampled on less than quarterly frequency also continue to show either non-detect or decreasing trends.

Recent Addition to Ground Water Monitoring Network. In February 1998, a deeper non-detect "sentinel" well (MW-70) was added to on-site well cluster #4 (MW-15, MW-41, and MW-32). This well confirmed the shallow depth of the plume down gradient of the original source area. Monitoring well MW-70 is screened approximately twenty feet below MW-32.

#### PROPOSED CONTINUING GROUND WATER MONITORING PLAN

Based on the results of ground water monitoring through February 1998, Sparton proposes to continue monitoring selected, representative off-site wells with emphasis on down gradient well locations. All eight of the "sentinel" wells down gradient of and/or around the leading edge of the plume (MW-52/65, MW-68/69, MW-57/66, MW-62 and MW-67) and the new on-site well, MW-70, will be monitored on a semi-annual basis. Additionally, the wells located inside the leading edge of the plume (MW-53, MW-58, MW-61/60, MW-48/55/56, MW-64, and MW-46) will be monitored on a semi-annual basis. On-site wells in the AGMP (MW-9, MW-14, MW-15, MW-16, MW-19, MW-20, MW-21 and MW-22) will also be monitored on a semi-annual basis. The remainder of the well network (29 monitoring wells plus eight recovery wells) will be monitored on an annual basis.

All well samples will be analyzed for VOC using Method 8260. Samples from wells inside the plume will also be analyzed for total chromium using Method 6010.

Sample collection, handling, and chain of custody procedures, laboratory procedures, holding times, and QA/QC will conform to the RFI work plan, previously approved by EPA, followed since its submission, and currently in the possession of EPA, and to SW-846 Third Edition. Continuing past practices will insure consistency in results and allow comparative analyses to be more meaningful.

Sparton will provide at least seven days notice of all planned sampling events. U.S. EPA/State of New Mexico may obtain split samples as desired.

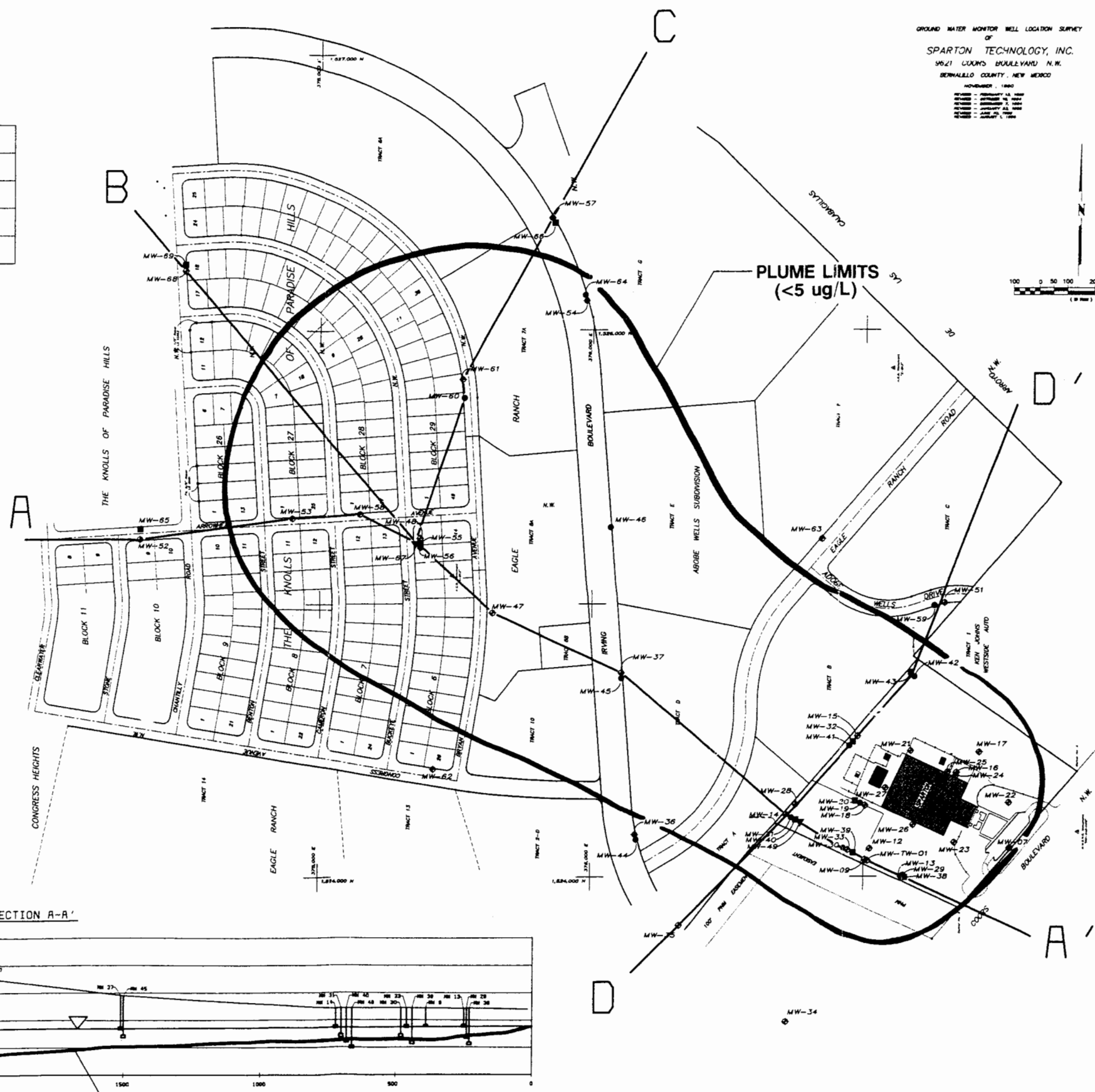
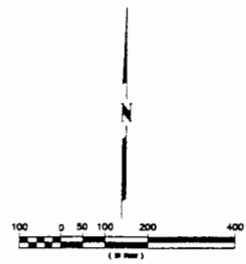
The existing on-site and off-site ground water monitoring wells have been utilized to define the limits of the plume, rate of plume movement, and constituent concentration history. With respect to both the duration and extent of previous monitoring, what is being proposed is appropriate to monitor both:

- 1) concentrations of constituents of concern in the ground water; and
- 2) ground water elevations.

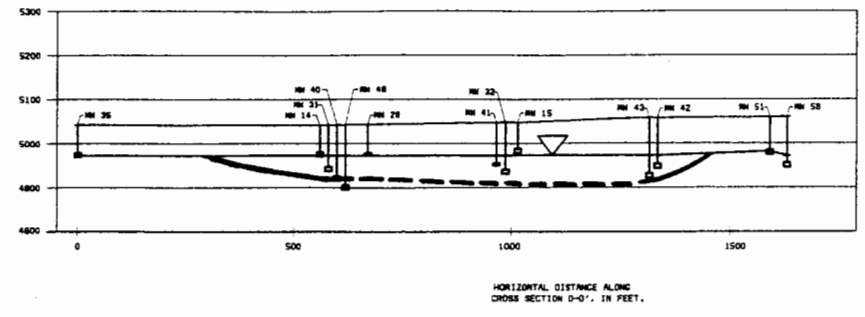
## **REPORTING**

Results of laboratory analyses and water level measurements will be submitted to U.S. EPA/State of New Mexico within sixty days after each sampling event. Plume (constituent concentration) and water level maps will be revised if significant changes in either plume limits or hydraulic gradients occur. Data summaries/plots may also be provided if significant changes in constituent concentration trends are observed.

GROUND WATER MONITOR WELL LOCATION SURVEY  
 OF  
 SPARTON TECHNOLOGY, INC.  
 3021 LUDLOW BOULEVARD N.W.  
 BERNALILLO COUNTY, NEW MEXICO  
 10/28/96



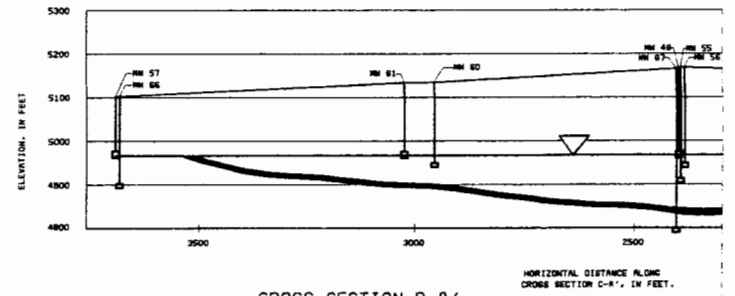
CROSS-SECTION D-D'



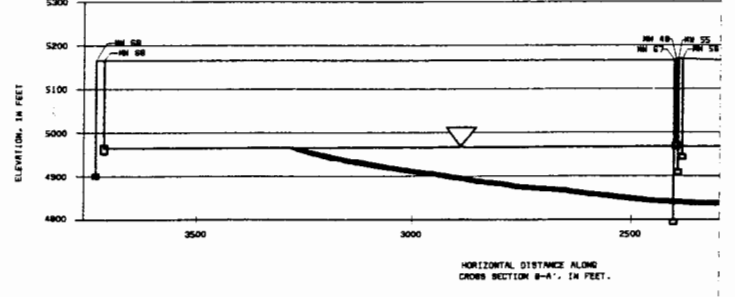
LEGEND

- ◆ UPPER FLOW ZONE WELL
- UPPER LOWER FLOW ZONE WELL
- LOWER LOWER FLOW ZONE WELL
- ▼ THIRD FLOW ZONE WELL

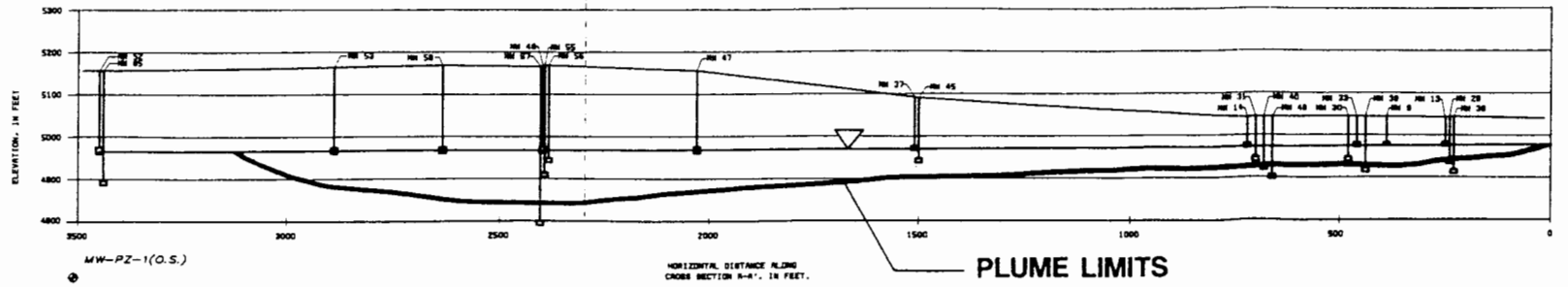
CROSS-SECTION C-A'



CROSS-SECTION B-A'



CROSS-SECTION A-A'



PLUME LIMITS (<5 ug/L)

JULY 1996 PLUME LIMITS

DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP

DESIGNED \_\_\_\_\_  
 DETAILED \_\_\_\_\_  
 CHECKED \_\_\_\_\_  
 APPROVED \_\_\_\_\_  
 DATE \_\_\_\_\_



PROJECT NO.  
26602

SPARTON TECHNOLOGY, INC.  
 COORS ROAD FACILITY  
 ALBUQUERQUE, NEW MEXICO

FIGURE 1  
 CMP-6 3/2/98



TABLE 1

Sparton Monitoring Results  
TCE Concentrations

(ug/L)																	
Date	Year	Qtr.	Qtr. #	PZ-1 UFZ	MW-7 UFZ	MW-9 UFZ	MW-12 UFZ	MW-13 UFZ	MW-14 UFZ	MW-15 UFZ	MW-16 UFZ	MW-17 UFZ	MW-19 ULFZ	MW-20 LLFZ	MW-21 UFZ	MW-22 UFZ	MW-29 ULFZ
Oct-83	1983	4			83	21000											
Oct-84	1984	4			530	9600	61		12000	4400	37000	4300					
Jul-85	1985	3				7300											
Jan-86	1986	1	10			6100											
Apr-86		2	11			8300											
Jul-86		3	12			5000					20000						
Oct-86		4	13			5000			4900	940	36000		3600	17	2300	230	
Jan-87	1987	1	14			4500			5000	630	21000		2700	12	1700	170	
Apr-87		2	15			3600			1800	580	23000		2900	32	1400	270	
Jul-87		3	16		370	6400	3700		2100	650	25000	4200	4600	35	2100	370	
Oct-87		4	17			7100			2700	480	28000		3400	25	2000	240	
Jan-88	1988	1	18			5500			6200	370	26000		2900	10	1800	150	
Apr-88		2	19			4800			5000	10	25000		5	28	1100	230	
Jul-88		3	20			3300			5200	380	26000		1800	19	1200	63	
Oct-88		4	21			4200			5600	250	22000		3600	15	1300	120	
Jan-89	1989	1	22			4000			3300	180	16000		3200	12	900	110	
Feb-89		1	22					610	1100	210							5.7
Mar-89		1	22					650	3700	210							5.4
Apr-89		2	23			4400			4900	200	14000		3700	14	520	150	
Aug-89		3	24			2500			3000	200	13000		2400	20	460	120	
Aug-89		3	24														
Nov-89		4	25			2300			2200	260	16000		1500	5	1100	91	
Nov-89		4	25														
Jan-90	1990	1	26			2800			2100	190	13000		880	17	1000	110	
Jan-90		1	26														
Apr-90		2	27	<1		2400			1800	160	20000		1000	21	400	130	
Apr-90		2	27														
Jun-90		2	27														
Aug-90		3	28			2200			2100	230	19000		850	15	670	140	
Aug-90		3	28														
Sep-90		3	28														
Oct-90		4	29			1600			1500	140	16000		590	10	850	83	
Oct-90		4	29														
Oct-90		4	29														
Jan-91	1991	1	30			1700			1700	110	16000		680	28	910	75	
Apr-91		2	31			1600			1400	5	12000		690	5.4	400	92	
Jun-91		2	31			1400			1100	91	17000		570	12	500	110	<5
Jul-91		3	32			1300		330	1400	110	16000		190	12	440	110	
Oct-91		4	33			1000			1100	80	12000		170	16	880	93	
Nov-91		4	33														
Dec-91		4	33														
Jan-92	1992	1	34			1200			1300	64	13000		130	5	680	65	
Apr-92		2	35			1400			1400	54	12000		230	5	360	90	
Jul-92		3	36			930			860	49	15000		140	5	390	72	
Sep-92		4	37			1000			1100	66	14000		120	30	460	48	
Jan-93	1993	1	38		340	690			850	52	13000		57	3	430	51	
Apr-93		2	39			820			850	1.9	12000		110	31	240	55	
Jul-93		3	40			730			720	56	11000		62	7	350	47	
Oct-93		4	41			680			700	44	13000		45	23	480	41	
Dec-93		4	41			680		330	640	39	13000		39	6	490	41	1
Jan-94	1994	1	42			790			680	36	12000		48	1.1	380	50	
Apr-94		2	43			740			730		11000		81	0.2	280	62	
Jul-94		3	44			750			730	52	11000		61	8	210	44	
Oct-94		4	45			750			700	31	11000		47	44	360	45	
Oct-94		4	45														
Feb-95	1995	1	46			850			690	45	8700		72	5	270	72	
Apr-95		2	47			790			1000		7100		92	0.2	160	100	
Aug-95		3	48			490			470	21	9100		39	11	200	32	
Oct-95		4	49			650			470	15	7400		48	26	280	34	
Jan-96	1996	1	50	<0.3		570	1000	380	290		7600	3800	24	1.3	220	46	0.9
Apr-96		2	51			710			420		9700		88	0.4	140	81	
Jul-96		3	52			460			300		7400		11	<1	180	43	
Oct-96		4	53			540			490		8300		8	0.4	150	33	
Oct-96	NMAD	4	53			350			295		6200		7.7	0.8	79	18	
Feb-97	1997	1	54			550			260		6000		6.4	<0.3	97	40	
Apr-97		2	55			580			570		5300		9.4	<0.3	99	74	
Aug-97		3	56			390			530		3000		13	1.1	61	44	
Oct-97		4	57			500			530		3900		16	<0.3	130	54	
Jan-98		1	58			410			390		4100		12	<0.3	66	65	
		2	59														

Cluster #1 = 13,29,38	Cluster #6 = 36,44	Cluster #11 = 57,66
Cluster #2 = 33,30,39	Cluster #7 = 37,45	Cluster #12 = 68,69
Cluster #3 = 14,31,40,49	Cluster #8 = 51,59	Cluster #13 = 52,65
Cluster #4 = 15,41,32	Cluster #9 = 48,55,56,67	
Cluster #5 = 42,43	Cluster #10 = 61,60	

File: SAMPL1-98.wk4  
Printed: 03/02/98  
08 51 AM

Page 1 of 4

NOTES:  
1.) ND = None Detected  
2.) J value indicates an estimation by lab

TABLE I  
(Continued)

Sparton Monitoring Results  
TCE Concentrations

Date	Year	Qtr.	Qtr. #	(ug/L)														
				MW-30 ULFZ	MW-31 ULFZ	MW-32 LLFZ	MW-33 UFZ	MW-34 UFZ	MW-35 UFZ	MW-36 UFZ	MW-37 UFZ	MW-38 LLFZ	MW-39 LLFZ	MW-40 LLFZ	MW-41 ULFZ	MW-42 ULFZ	MW-43 LLFZ	
Oct-83	1983		4															
Oct-84	1984		4															
Jul-85	1985		3															
Jan-86	1986		1	10														
Apr-86			2	11														
Jul-86			3	12														
Oct-86			4	13														
Jan-87	1987		1	14														
Apr-87			2	15														
Jul-87			3	16														
Oct-87			4	17														
Jan-88	1988		1	18														
Apr-88			2	19														
Jul-88			3	20														
Oct-88			4	21														
Jan-89	1989		1	22														
Feb-89			1	22	320	120	4800	7500										
Mar-89			1	22	320	120	3400	7000										
Apr-89			2	23														
Aug-89			3	24					<5	<5	7.9	1100						
Aug-89			3	24					<5	<5	11	1800						
Nov-89			4	25									<5	<5	<5	1100	1100	270
Nov-89			4	25									<5	<5	<5	960	1200	160
Jan-90	1990		1	26														
Jan-90			1	26														
Apr-90			2	27														
Apr-90			2	27														
Jun-90			2	27														
Aug-90			3	28														
Aug-90			3	28														
Sep-90			3	28														
Oct-90			4	29														
Oct-90			4	29														
Oct-90			4	29														
Jan-91	1991		1	30														
Apr-91			2	31														
Jun-91			2	31	180	60	57	7300	<5	<5	22	2000	<5	<5	<5	620	1000	280
Jul-91			3	32														
Oct-91			4	33			5100		<5	19	1400					930	440	
Nov-91			4	33			2400											
Dec-91			4	33			2400											
Jan-92	1992		1	34			5100		<5	15	1200					740	260	
Apr-92			2	35			6000		<5	14	960					690	340	
Jul-92			3	36			7500		<5	10	800					640	200	
Sep-92			4	37			2600		<5	8.3	810			510	600	180		
Jan-93	1993		1	38			830		<1	7	510					680	200	
Apr-93			2	39			1500		<1	4	340					320	130	
Jul-93			3	40			4400		<1	25	800			370	620	850		
Oct-93			4	41			780		<1	3	600				600	160		
Dec-93			4	41	47	10	490		<1	<1	3	980	<1	<1	<1	350	620	150
Jan-94	1994		1	42			580		<1	3	860					570	150	
Apr-94			2	43			1700		<1	2	850					490	120	
Jul-94			3	44			400		<1	3	370					530	160	
Oct-94			4	45			1700		ND	2	940				420	510	110	
Oct-94			4	45														
Feb-95	1995		1	46			2000		<5	3	770					340	79	
Apr-95			2	47			1600		<5	3	750					340	98	
Aug-95			3	48			4200			2	750					340	100	
Oct-95			4	49			2800			2	750					350	110	
Jan-96	1996		1	50	19	2.7	760	2000	<0.3	<0.3	1.9	720	<0.3	<0.3	<0.3	290	470	95
Apr-96			2	51			2400			<5	600					250	87	
Jul-96			3	52			400			2.4	560					330	73	
Oct-96			4	53			690			<5	760					460	73	
Oct-96			4	53			500			3						308	42	
Feb-97	1997		1	54			390			3.5	660					370	78	
Apr-97			2	55			1800			2.9	450					350	65	
Aug-97			3	56			550			1.7	460					320	48	
Oct-97			4	57			960			1.6	450					290	41	
Jan-98			1	58			1600			2.9	640					310	69	
			2	59														

TABLE 1  
(Continued)

Sparton Monitoring Results  
TCE Concentrations

		(ug/L)																	
Date	Year	Qtr.	Qtr. #	MW-44 ULFZ	MW-45 ULFZ	MW-46 ULFZ	MW-47 UFZ	MW-48 UFZ	MW-49 3rd FZ	MW-50 UFZ	MW-51 UFZ	MW-52 UFZ	MW-53 UFZ	MW-55 LLFZ	MW-56 ULFZ	MW-57 UFZ	MW-58 UFZ	MW-59 ULFZ	
Oct-83	1983		4																
Oct-84	1984		4																
Jul-85	1985		3																
Jan-86	1986		1	10															
Apr-86			2	11															
Jul-86			3	12															
Oct-86			4	13															
Jan-87	1987		1	14															
Apr-87			2	15															
Jul-87			3	16															
Oct-87			4	17															
Jan-88	1988		1	18															
Apr-88			2	19															
Jul-88			3	20															
Oct-88			4	21															
Jan-89	1989		1	22															
Feb-89			1	22															
Mar-89			1	22															
Apr-89			2	23															
Aug-89			3	24															
Aug-89			3	24															
Nov-89			4	25															
Nov-89			4	25															
Jan-90	1990		1	26	<5	1400	4200	310	820	<5									
Jan-90			1	26	<5	1400	2300	330	830	<5									
Apr-90			2	27							8.5								
Apr-90			2	27						<1	6.2								
Jun-90			2	27			220	820			6.7	<1	<1						
Aug-90			3	28				600						13	50				
Aug-90			3	28				1100						9.2	29				
Sep-90			3	28				930						12	98	<1	20	<1	
Oct-90			4	29															<5
Oct-90			4	29															22
Oct-90			4	29															22
Jan-91	1991		1	30															
Apr-91			2	31															
Jun-91			2	31	<5	770	1300	120	410	<5	<5	<5	<5	45	200	<5	29	<5	
Jul-91			3	32															
Oct-91			4	33			5200		220		<5	<5		74	210		31	<5	
Nov-91			4	33			2600												
Dec-91			4	33															
Jan-92	1992		1	34			2300		280		11		6.8	96	260				34
Apr-92			2	35			1300		290		<5		9.8	120	290				37
Jul-92			3	36			960		340		<5		14	130	290				37
Sep-92			4	37			4200		240		<5		16	120	240				39
Jan-93	1993		1	38			1200		360		<1		21	190	370				48
Apr-93			2	39			1200		310		<1		23	110	230				43
Jul-93			3	40	<1		1400		330		<1		33	240	320				62
Oct-93			4	41			2100		420		1		30	310	430				64
Dec-93			4	41	<1	160	1800	93	350	<1	2	<1	32	380	410	<1	74	<1	
Jan-94	1994		1	42			2500		350		<1		38	370	430				85
Apr-94			2	43			2700		340		0.6		34	390	370				93
Jul-94			3	44			3200		370		<1		43	550	370				110
Oct-94			4	45			2100		300		<5	<5	40	580	420	<5			97
Oct-94			4	45									38						
Feb-95	1995		1	46			2600		253		<5		21	580	340				100
Apr-95			2	47			2400		300		1		41	640	370				120
Aug-95			3	48			3000		250		<5		42	680	360	<5			130
Oct-95			4	49			3300		270		<1		48	130	350	<1			140
Jan-96	1996		1	50	<0.3	59	3200	36	350	<0.3	<0.3	<0.3	100	940	430	<0.3	270	<0.3	
Apr-96			2	51			2300		150	<5	<5		36	790	330	<1			110
Jul-96			3	52			1900		130		<1		36	510	240	<1			130
Oct-96			4	53			2400		110		<5		36	640	310	<5			140
Oct-96	NMFD		4	53			1200		64		0.5		23	490	175	0.3			88
Feb-97	1997		1	54			1500		73		<1		30	610	240	<1			170
Apr-97			2	55			1700		74		<1	<1	30	530	240	<1			180
Aug-97			3	56			900		46		<1		33	430	220	<1			180
Oct-97			4	57			1000		40		<1	<1	38	430	210	<1			150
Jan-98			1	58			1200		38		<1	<1	59	440	190	<1			130
			2	59															

TABLE 1  
(Continued)

Sparton Monitoring Results  
TCE Concentrations

Date	Year	Qtr.	Qtr. #	(ug/L)											Comments		
				MW-60 ULFZ	MW-61 UFZ	MW-62 UFZ	MW-63 UFZ	MW-64 ULFZ	MW-65 LLFZ	MW-66 LLFZ	MW-67 3rdFZ	MW-68 UFZ	MW-69 LLFZ				
Oct-83	1983		4														
Oct-84	1984		4														
Jul-85	1985		3														
Jan-86	1986		1	10													
Apr-86			2	11													
Jul-86			3	12													
Oct-86			4	13													
Jan-87	1987		1	14													
Apr-87			2	15													
Jul-87			3	16													
Oct-87			4	17													
Jan-88	1988		1	18													
Apr-88			2	19													
Jul-88			3	20													
Oct-88			4	21													
Jan-89	1989		1	22													
Feb-89			1	22													
Mar-89			1	22													
Apr-89			2	23													
Aug-89			3	24													
Aug-89			3	24													
Nov-89			4	25													#42&43 actual 12-12-89
Nov-89			4	25													#42&43 actual 12-21-89
Jan-90	1990		1	26													#49 - actual 01-25-90
Jan-90			1	26													#49 - actual 01-31-90
Apr-90			2	27													
Apr-90			2	27													
Jun-90			2	27													#51 - actual 05-07-90
Aug-90			3	28													
Aug-90			3	28													
Sep-90			3	28													
Oct-90			4	29	<1	<1	<5	<1	<5								
Oct-90			4	29	<5	<5	2.2	<5	<1								
Oct-90			4	29	<5	<5	<5	<5	<5								
Jan-91	1991		1	30													
Apr-91			2	31													
Jun-91			2	31	<5	<5	<5	<5	<5								EPA split sample
Jul-91			3	32													
Oct-91			4	33	<5		<5										
Nov-91			4	33													
Dec-91			4	33													
Jan-92	1992		1	34	<5		<5										
Apr-92			2	35	<5		<5										
Jul-92			3	36	<5		<5										
Sep-92			4	37	<5		<5										
Jan-93	1993		1	38	1		2										
Apr-93			2	39	<1		2										
Jul-93			3	40	4	490	3										
Oct-93			4	41	2	500	3										#61 - actual 09-03-93
Dec-93			4	41	7	610	3	<1	<1								EPA split sample
Jan-94	1994		1	42	3	530	2										
Apr-94			2	43	6		2										#51 = J value
Jul-94			3	44	9	800	3										
Oct-94			4	45	24	870	2		10								#62,36 = J value, EPA split sample
Oct-94			4	45													#53 duplicate sample
Feb-95	1995		1	46	16	960	2		11								#36 & 62 = J values
Apr-95			2	47	44	1400	2		18								#36, 51 & 62 = J values
Aug-95			3	48	66	1700	3		17								#36 & 62 = J values
Oct-95			4	49	100	2000	2		8								
Jan-96	1996		1	50	170	1900	1.8	<0.3	15								EPA split sample
Apr-96			2	51	150	1100	<5		25								EPA split sample
Jul-96			3	52	130	760	1.7		32	1.5	<1	<1	<1	<1			#66 sampled 6/27/96 & 7/18/96
Oct-96			4	53	640	1000	<5		29	8	<5	<5	<5	<5			4th Qtr. - Sparton results
Oct-96	NMED		4	53	320	580	1.8		18	7.4	<0.5	<0.5	<0.5	<0.5			NMED split sample
Feb-97	1997		1	54	990	880	1.9		27	13	<1	<1	<1	<1			
Apr-97			2	55	2400	940	2		20	15	<1	<1	<1	<1			
Aug-97			3	56	2600	1000	2.6		4.4	15	<1	<1	<1	<1			
Oct-97			4	57	3900	1000	2.3			14	<1	<1	<1	<1			
Jan-98			1	58	4200	940	2.4		6.3	14	<1	<1	<1	<1			
			2	59													