BUCK
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accredited environmental ..... sis

Note:

This Annual Report has been reproduced without the 40 pages of analytical laboratory reports. The results of these reports are included in the summary on the two page spreadsheet titled "SCM Site, Town of Cortlandville, Historical TCE, Total VOC."

September 18, 2002

Kevin Delaney, P.E.
Environmental Engineer I
Division of Environmental Remediation
NYS Department of Environmental Conservation
615 Erie Boulevard West
Syracuse, NY 13204

Re: SCM Site - Town of Cortlandville - 2001 Annual Report

Dear Kevin:

This report will summarize the remediation activities at the subject site during calendar year 2001 and is submitted in support of the consent agreement between SCM and NYSDEC. As reported in previous correspondence, the property is owned by SCWP, LLC and this report is submitted at the direction of Michael Chernago, the SCWP on-site representative.

In the year 1999 year-end report of April 12, 2000 it was recommended that the blowers for the air stripper be shut down to reduce operating costs. Data was presented supporting the recommendation. On 10-19-00 NYSDEC requested a laboratory split sample to verify system performance with the blowers turned off. A re-sample was taken on 10-26-00. Data from both laboratories indicated that the system performance was adequate to meet discharge limits with the blowers off.

Your correspondence of May 10, 2001 indicated that the use of the air stripper blower could be discontinued with three stipulations. The first condition was that groundwater from the recovery well was still to be treated through the air stripper. The groundwater has continued to be treated and documentation to that affect follows. The second condition was that the blowers to the air stripper were to remain in place and in working condition. Michael Chernago indicates that the blowers remain in place and are able to be used in case they are needed. The third condition was that groundwater monitoring be done on a monthly basis on the influent, at the stripper discharge point and at the cascade outfall. If the outfall analysis showed TCE above 5 ug/l the use of the blower was to be resumed immediately. The third condition also allowed that SCWP could petition for a return to quarterly sampling if supporting data showed adequate treatment without blower usage.

The blower was shut down on May 11, 2001 at 2:50 PM. The first sampling event without the blower in use was May17, 2001. Results from the tower influent, tower effluent and at the outfall at the bottom of the cascade are attached and indicate satisfactory performance. At no time since the discontinuance of the blower has the concentration of TCE at the outfall exceeded 5 ug/l, the average for 2001 being 1.78 ug/l.

There were no substantive changes to the groundwater pumping system and air stripper during the year. Mike Chernago reported that the system operated continuously during 2001 except for approximately 8-10 hours during routine maintenance operations. The pumping rate at the end of the year was reported to be approximately 800 gpm, which would indicate that at least 390 million gallons of water were pumped and treated during 2001.

Seventeen monitoring wells were sampled November 13, 2001 and analyzed for volatile organic contaminants by EPA 8021 methodology. An eighteenth well was unable to be sampled due to a blockage. Seven of the wells have TCE concentrations in excess of the 5 ug/l groundwater standard. Of the ten wells meeting the standard, six of the wells were non-detect for all volatile compounds. The laboratory reports follow and data are summarized along with historical results on an enclosed spreadsheet entitled ***SCM Site, Historical TCE, Total VOC***. The two wells with the highest total VOC concentrations are MW-11 (31.2 ug/l) and MW-7 (23.2 ug/l). While MW-11 has the highest total VOCs, five other wells have TCE in higher concentrations than MW-11.

System performance samples have been taken on a monthly basis during 2002 and will be reviewed and compiled into an annual report shortly. At that time, SCWP may petition to return to quarterly sampling.

Please let me know if there are any questions concerning this report or the data presented.

Sincerely,

John H. Buck, P.E.
President

Attachments:
Lab reports
Spreadsheet
Graphs

CC:
K. Ochs (SCWP)
J. Sidd, Esq. (RS&S)
M. Chernago (SCWP)
J. Helgren (CCHD)
P. Reidy (CCS&W)

SCM SITE
Town of Cortlandville
Historical TCE, Total VOC
(ug/l in groundwater)

		2/90	4/90	8/90	11/90	2/91	5/91	8/91	11/91	2/92	5/92	8/92	11/92	2/93	5/93	8/93	11/93	2/94	6/94	9/94	12/94	2/95	5/95	11/95	5/96	11/96	5/97	11/97	5/98	11/98	8/99	11/00	11/01
MW-1S																																	
	TCE	<1	39	47	41	25	17	19	12	9	13	15	2	11	26	3	13	7	19	13	9	11	8	11	5	8	10	11	15	8	6.9	4.5	5.5
	TCE Yearly Ave.				32				18				10				13				13			10		7		11		12	6.9	4.5	5.5
	Total VOC's	<1	39	47	41	25	21	23	13	9	15	17	2	13	34	3	13	7	22	15	9	13	8	11	5	8	10	11	16	8	6.9	4.5	5.5
	Tot. VOC Yearly Ave.				32				21				11				16				13			11		7		11		12	6.9	4.5	5.5
MW-1D																																	
	TCE	32	28	<1	25	25	18	19	12	13	13	14	13	14	13	12	16	12	13	9	11	12	12	13	7	10	7	8	7	7	7.8	2.7	2.7
	TCE Yearly Ave.				21				19				13				14				11			12		9		8		7	7.8	2.7	2.7
	Total VOC's	32	28	<1	25	25	24	24	12	13	14	16	15	16	16	115	17	13	13	10	13	14	14	13	7	11	7	8	7	7	7.8	2.7	2.7
	Tot. VOC Yearly Ave.				21				21				15				16				12			14		9		8		7	7.8	2.7	2.7
MW-2S																																	
	TCE	4	5	5	6	8	6	8	10	5	7	5	5	5	7	7	4	4	4	3	4	4	4	na	4	na	3	na	4	na	3.5	2.1	2.4
	TCE Yearly Ave.				5				8				6				6				4			4		4		3		4	3.5	2.1	2.4
	Total VOC's	4	5	5	6	8	6	8	12	5	7	8	5	5	7	7	4	4	4	3	4	4	4	na	4	na	3	na	4	na	3.5	2.1	2.4
	Tot. VOC Yearly Ave.				5				9				6				6				4			3		4		3		4	3.5	2.1	2.4
MW-2D																																	
	TCE	6	6	9	8	7	5	7	9	5	5	5	5	3	4	6	3	3	2	3	2	2	3	na	2	na	2	na	1	na	2.5	plugged	plugged
	TCE Yearly Ave.				7				7				5				4				3			3		2		2		1	2.5	plugged	plugged
	Total VOC's	6	6	9	8	7	5	7	10	5	5	5	5	3	4	6	3	3	2	6	2	2	3	na	2	na	2	na	1	ne	2.5	plugged	plugged
	Tot. VOC Yearly Ave.				7				7				5				4				3			2		2		2		1	2.5	plugged	plugged
MW-3																																	
	TCE	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1	<1	<1	<1	4	<1	<1	<1	<1	na	19	na	2	<1	8	na	<1	<1	<1
	TCE Yearly Ave.				0				0				0				0				1			1		19		1		8	<1	<1	<1
	Total VOC's	<1	<1	<1	<	<1	<1	<1	<1	<1	<1	<1	2	1	<1	<1	<1	<1	4	<1	<1	<1	<1	na	33	na	2	<1	12	na	<1	<1	<1
	Tot. VOC Yearly Ave.				0				0				1				0				1			0		33		1		12	<1	<1	<1
MW-4S																																	
	TCE	<1	1	<1	2	<1	1	2	1	<1	1	1	1	<1	1	<1	<1	na	<1	<1	<1	<1	1	na	<1	na	<1	na	<1	na	<1	<1	<1
	TCE Yearly Ave.				1				1				1				0				0			1		0		0		0	<1	<1	<1
	Total VOC's	<1	1	<1	2	<1	1	2	1	<1	1	1	1	<1	1	<1	<1	na	<1	<1	<1	<1	1	na	<1	na	<1	na	<1	na	<1	<1	<1
	Tot. VOC Yearly Ave.				1				1				1				0				0			0		0		0		0	<1	<1	<1
MW-4D																																	
	TCE	<1	1	1	<1	1	<1	1	1	<1	<1	<1	<1	<1	<1	<1	<1	na	<1	<1	<1	<1	<1	na	<1	na	<1	na	<1	na	<1	<1	<1
	TCE Yearly Ave.				1				1				0				0				0			1		0		0		0	<1	<1	<1
	Total VOC's	<1	1	1	<1	1	<1	1	1	<1	<1	<1	<1	<1	<1	<1	<1	na	<1	<1	<1	<1	<1	na	<1	na	<1	na	<1	na	<1	<1	<1
	Tot. VOC Yearly Ave.				1				1				0				0				0			0		0		0		0	<1	<1	<1
MW-5S																																	
	TCE	1	1	2	3	<1	1	2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	na	<1	na	<1	na	<1	na	<1	<1	<1
	TCE Yearly Ave.				2				1				0				0				0			1		0		0		0	<1	<1	<1
	Total VOC's	1	1	3	3	<1	1	2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	na	<1	na	<1	na	<1	na	<1	<1	<1
	Tot. VOC Yearly Ave.				2				1				0				0				0			0		0		0		0	<1	<1	<1
MW-5D																																	
	TCE	2	3	3	5	3	3	3	1	<1	1	2	1	<1	2	2	<1	<1	<1	<1	<1	<1	1	na	2	na	2	na	<1	na	<1	<1	<1
	TCE Yearly Ave.				3				3				1				1				0			1		2		2		<1	<1	<1	<1
	Total VOC's	2	3	8	5	3	3	3	1	<1	1	2	1	<1	2	2	<1	<1	<1	<1	<1	<1	2	na	2	na	2	na	<1	na	<1	<1	<1
	Tot. VOC Yearly Ave.				5				3				1				1				0			1		2		2		<1	<1	<1	<1
MW-6																																	
	TCE	na	26	43	35	38	62	8	na	18	30	40	21	21	70	32	19	45	50	20	17	18	14	7	34	14	18	7	<1	10	5	11	3.9
	TCE Yearly Ave.				35				36				27				36				33			13		24		13		5	5	11	3.9
	Total VOC's	na	26	43	35	38	62	8	na	18	30	40	21	21	70	32	19	45	50	20	17	18	14	7	34	14	18	7	<1	10	5	11	3.9
	Tot. VOC Yearly Ave.				26				27				27				36				33			13		24		13		5	5	11	3.9
MW-7																																	
	TCE	290	300	19	63	190	57	19	na	11	57	130	130	120	67	25	18	85	60	49	49	45	23	na	56	na	25	na	26	na	24	24	12
	TCE Yearly Ave.				168				89				82				58				61			34		56		25		26	24	24	12
	Total VOC's	290	300	19	63	190	157	30	na	15	167	250	250	175	136	25	19	137	153	84	82	84	25	na	73	na	35	na	39	na	31	30	23.2
	Tot. VOC Yearly Ave.				168				94				171				89				114			55		73		35		39	31	30	23.2
MW-8																																	
	TCE	70	260	10	48	31	110	8	3	31	31	48	16	12	14	18	10	61	11	10	12	9	8	3	98	6	8	2	10	3	2	1.5	<1
	TCE Yearly Ave.				97				38				32				14				24			7		52		5		7	2	1.5	<1
	Total VOC's	70	283	10	48	31	110	8	3	31	31	48	16	12	14	18	10	61	11	10	12	9	8	3	98	6	8	2	10	3	2	1.5	<1
	Tot. VOC Yearly Ave.				103				38				32				14				24			7		52		5		7	2	1.5	<1

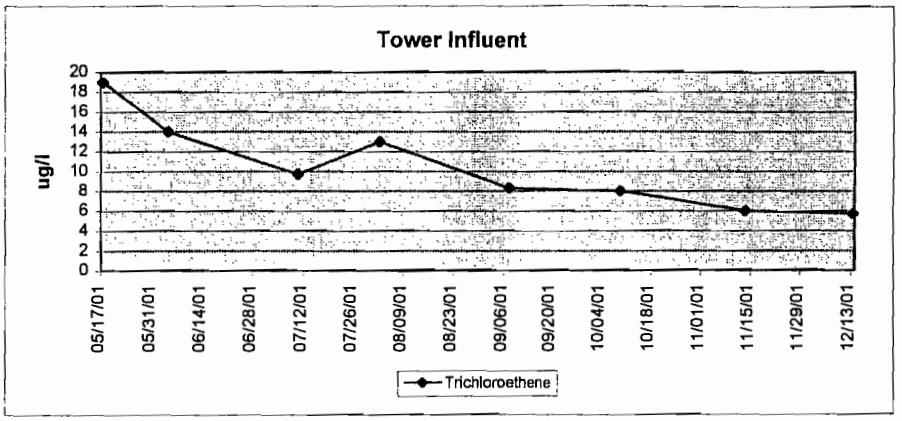
SCM SITE
Town of Cortlandville
Historical TCE, Total VOC
(ug/l in groundwater)

MW-9																															
	TCE	16	3	5	10	4	11	3	4	3	3	4	4	4	33	8	1	2	24	5	3	5	5	<1	18	2	1	<1	<1	5	7	5.2	4.2
	TCE Yearly Ave.				9				6				4				12				9			3		10		1		3	7	5.2	4.2
	Total VOC's	16	4	5	10	4	14	3	4	3	3	4	4	4	42	8	1	2	24	5	3	5	5	<1	22	2	1	<1	<1	5	7	5.2	4.2
	Tot. VOC Yearly Ave.				9				6				4				14				9			3		12		1		3	7	5.2	4.2
MW-10S																															
	TCE	73	63	110	59	63	27	32	50	44	170	40	32	28	25	37	27	28	31	24	15	16	16	23	17	18	13	13	15	19	16	17	9.4
	TCE Yearly Ave.				76				43				72				29				25			18		18		13		18	16	17	9.4
	Total VOC's	73	63	110	59	110	33	44	62	57	228	46	37	29	32	37	31	31	31	27	16	17	16	25	18	20	13	13	17	19	17	17	9.4
	Tot. VOC Yearly Ave.				76				62				92				32				26			20		19		13		18	17	17	9.4
MW-10D																															
	TCE	23	27	33	60	33	54	31	40	30	10	41	37	32	19	32	25	21	21	22	22	30	23	19	10	16	12	18	10	20	13	11	8.4
	TCE Yearly Ave.				38				40				30				27				23			24		13		15		15	13	11	8.4
	Total VOC's	23	27	33	60	33	66	39	45	35	12	46	43	38	21	32	28	22	21	25	24	32	26	19	10	16	12	18	10	20	13	11	8.4
	Tot. VOC Yearly Ave.				36				46				34				29				23			26		13		15		15	13	11	8.4
MW-11																															
	TCE	2600	150	44	3400	480	290	31	na	50	420	29	<50	54	170	<50	<50	72	<50	51	51	42	38	19	170	85	46	10	27	11	14	5.4	6.6
	TCE Yearly Ave.				1549				267				125				56				44			33		128		28		19	14	5.4	6.6
	Total VOC's	2600	150	44	3400	480	5090	141	na	440	630	375	230	344	1170	1700	<50	1062	1260	105	130	101	87	144	300	415	96	41	49	11	35	5.4	31.2
	Tot. VOC Yearly Ave.				1549				1428				419				804				639			111		358		69		30	35	5.4	31.2
MW-12S																															
	TCE	190	220	280	120	270	190	100	21	46	50	150	140	150	150	180	100	110	170	88	88	100	na	24	82	60	82	11	80	23	11	59	10
	TCE Yearly Ave.				203				145				97				145				114			62		71		47		52	11	59	10
	Total VOC's	190	220	280	120	270	330	137	23	83	62	196	179	172	183	180	109	119	192	99	102	101	na	57	93	73	88	11	102	23	11	59	10
	Tot. VOC Yearly Ave.				203				190				130				161				128			56		83		50		63	11	59	10
MW-12D																															
	TCE	21	13	17	23	17	12	12	13	10	45	10	9	13	11	15	8	7	16	9	5	7	6	6	5	5	5	4	2	8	11	7.8	10
	TCE Yearly Ave.				19				14				19				11				9			8		5		5		5	11	7.8	10
	Total VOC's	21	13	17	23	17	14	12	13	11	52	12	9	13	13	15	8	7	16	9	5	7	6	6	5	5	5	4	2	8	12	7.8	12
	Tot. VOC Yearly Ave.				19				14				21				12				9			6		5		5		5	12	7.8	12
MW-BE1																															
	TCE																													<1	na	na	
	TCE Yearly Ave.																													<1	na	na	
	Total VOC's																													<1	na	na	
	Tot. VOC Yearly Ave																													<1	na	na	
MW-BE2																															
	TCE																													<1	na	na	
	TCE Yearly Ave.																													<1	na	na	
	Total VOC's																													<1	na	na	
	Tot. VOC Yearly Ave.																													<1	na	na	

Notes:
1. Units are ug/l.
2. Data from 2/90 thru 11/98 were transcribed from an OBG spreadsheet.
3. Data after 11/98 were entered directly from lab reports.
4. Most data are from Upstate Labs, Inc. Data after 3/99 are from Buck Env. Labs, Inc.
5. Wells MW-BE1 and MW-BE2 were installed in 1999 by Buck Engineering.

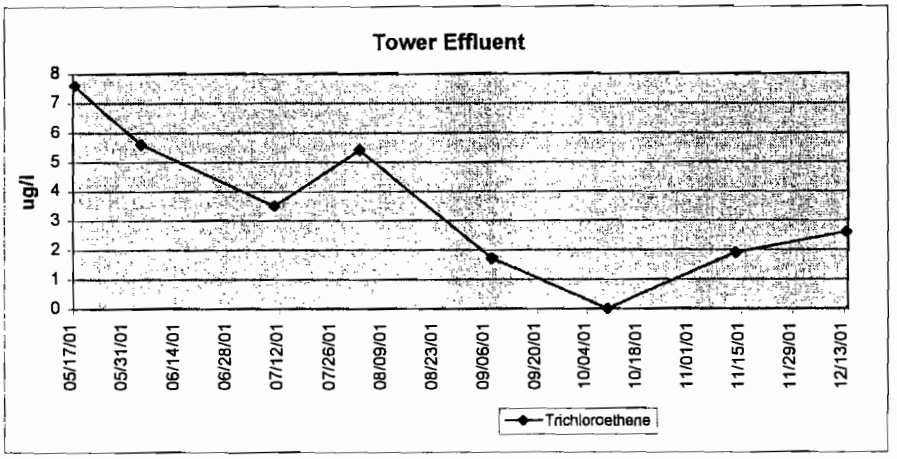
Tower Influent

	05/17/01	06/04/01	07/10/01	08/02/01	09/07/01	10/09/01	11/13/01	12/13/01
Trichloroethene	19.0	14.0	9.7	13	8.3	8.0	6.0	5.7



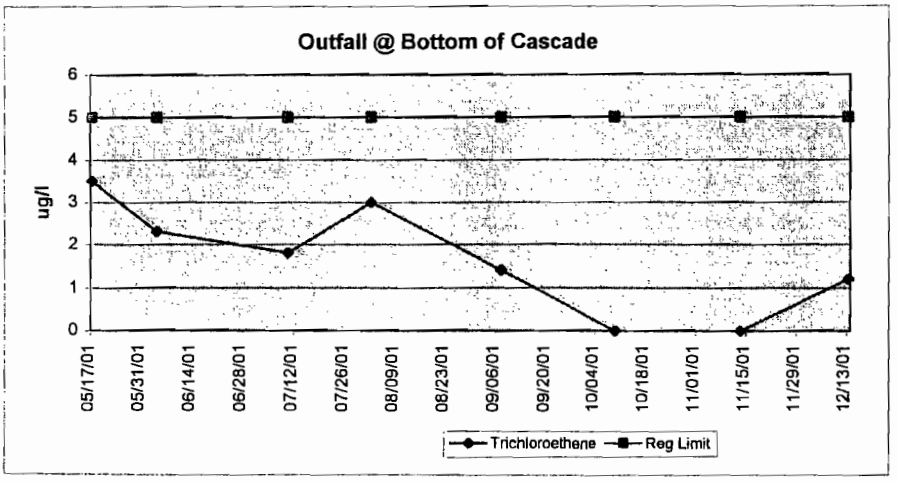
Tower Effluent

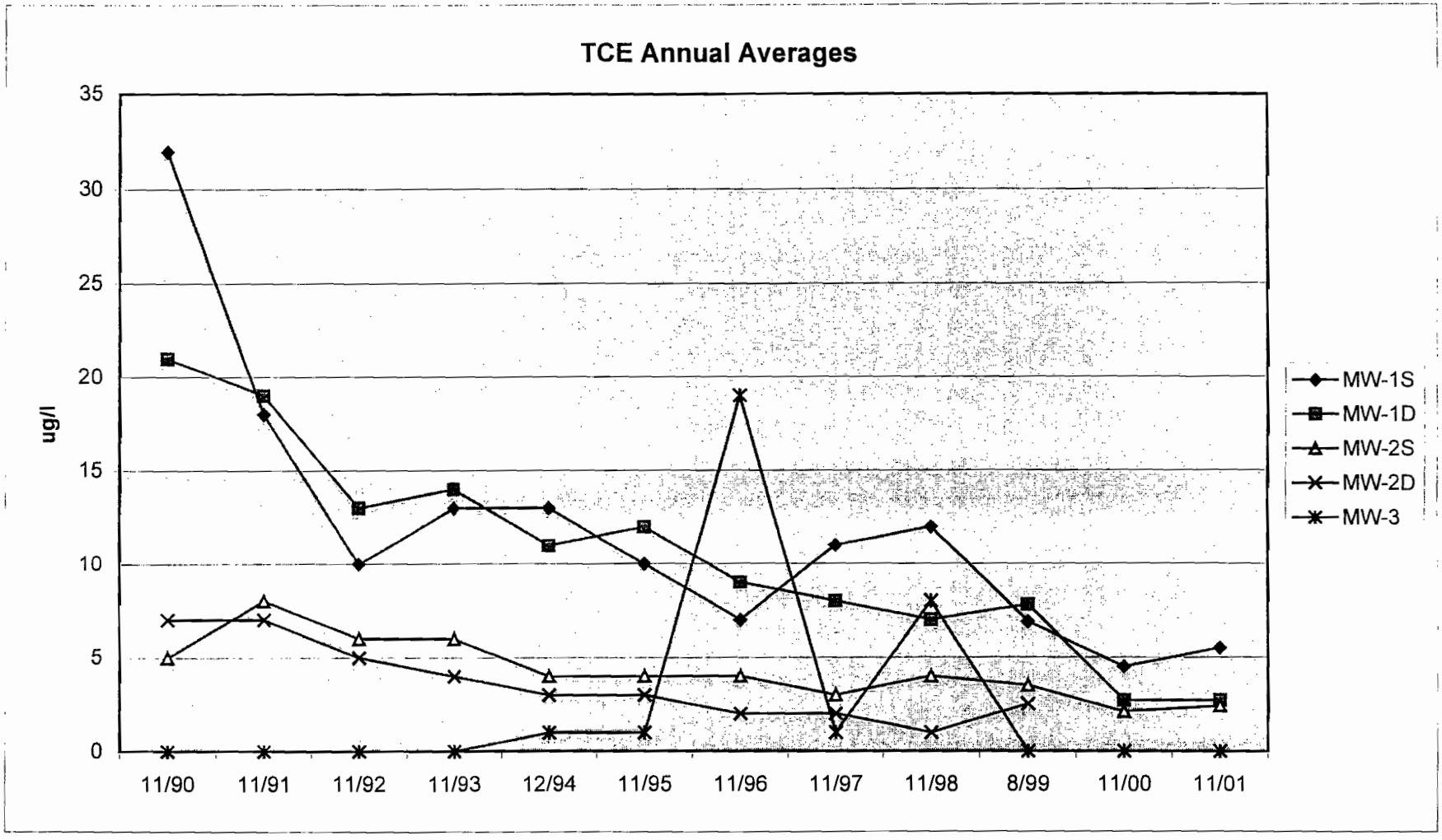
	05/17/01	06/04/01	07/10/01	08/02/01	09/07/01	10/09/01	11/13/01	12/13/01
Trichloroethene	7.6	5.6	3.5	5.4	1.7	<1	1.9	2.6

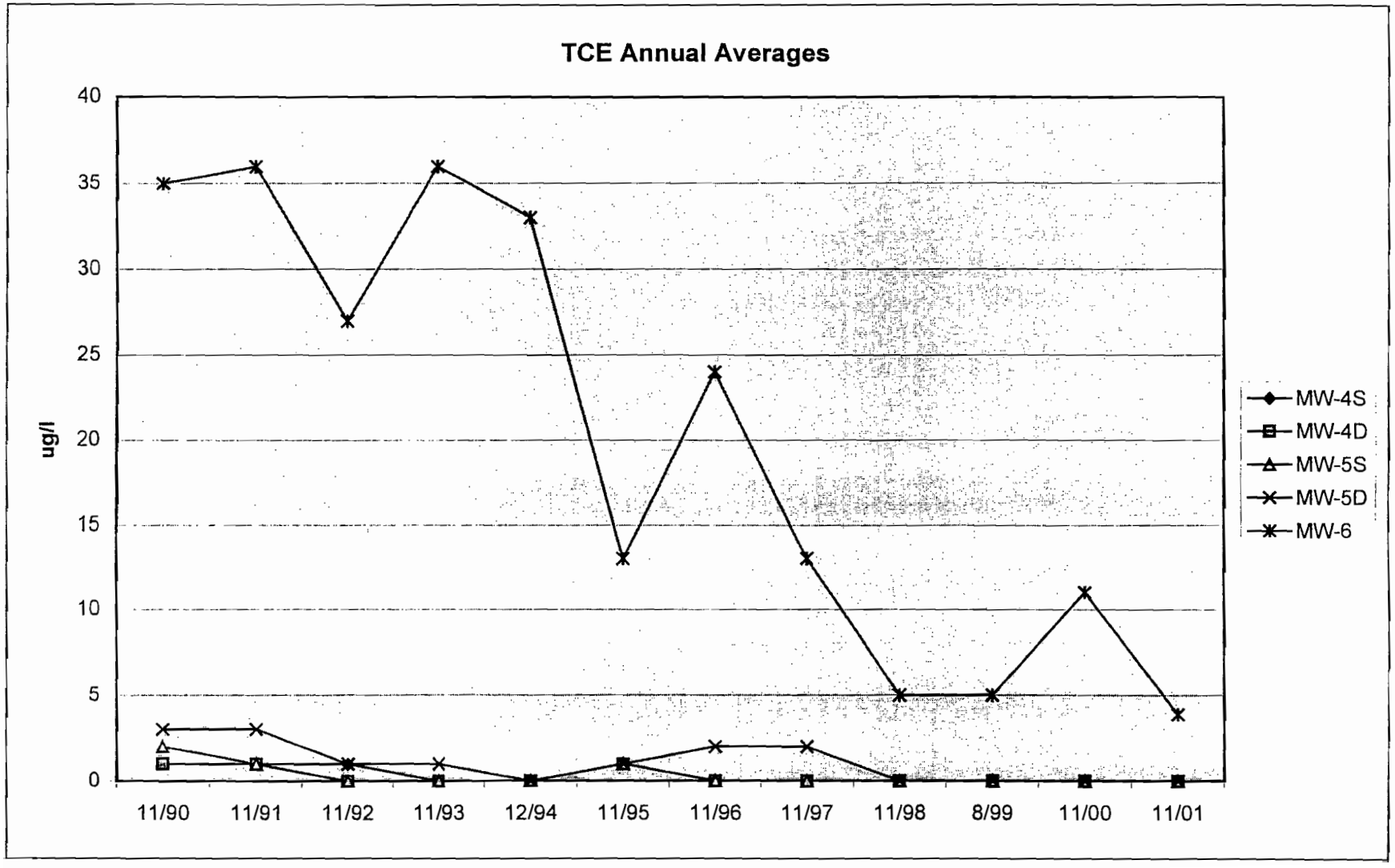


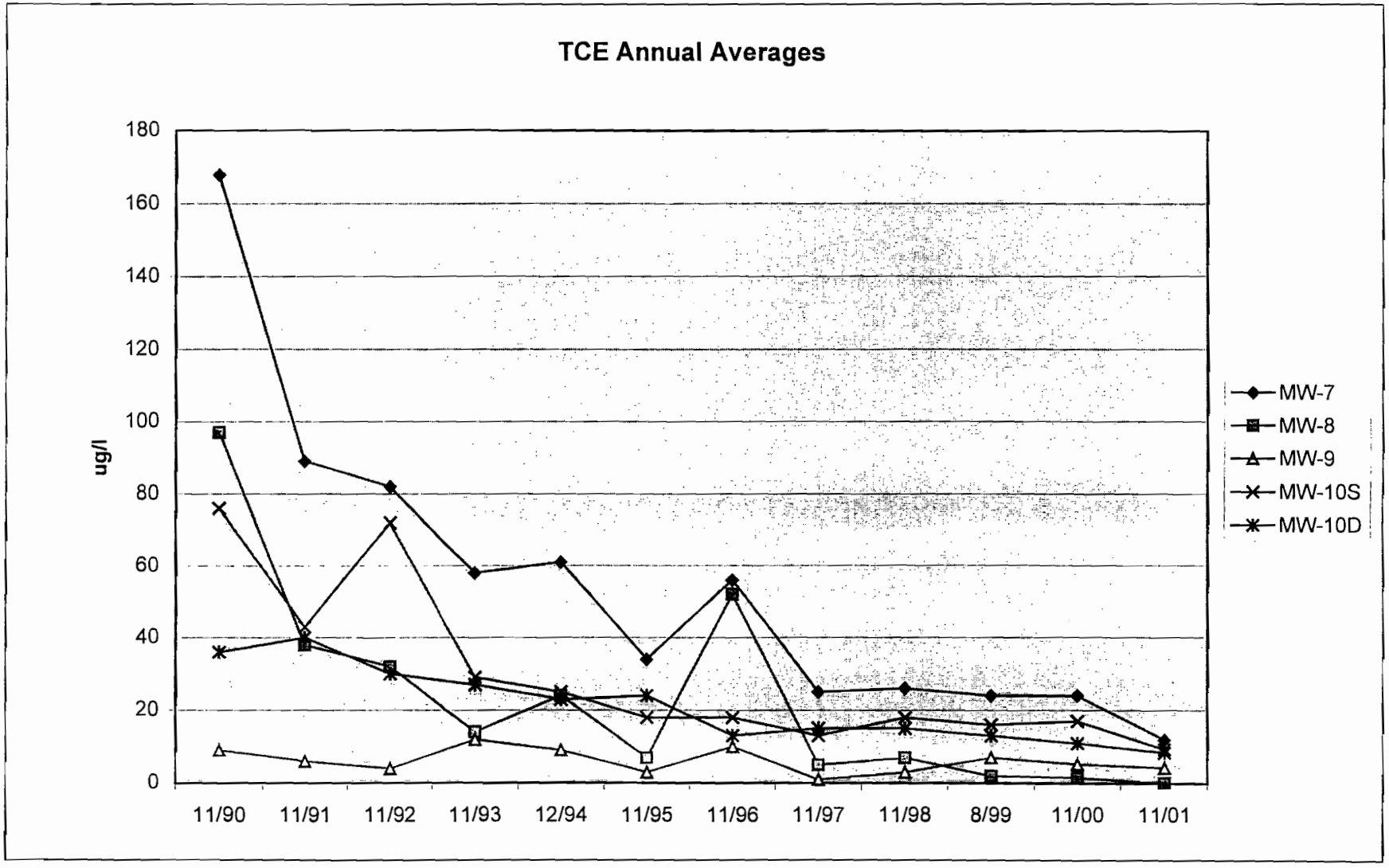
Outfall @ Bottom of Cascade

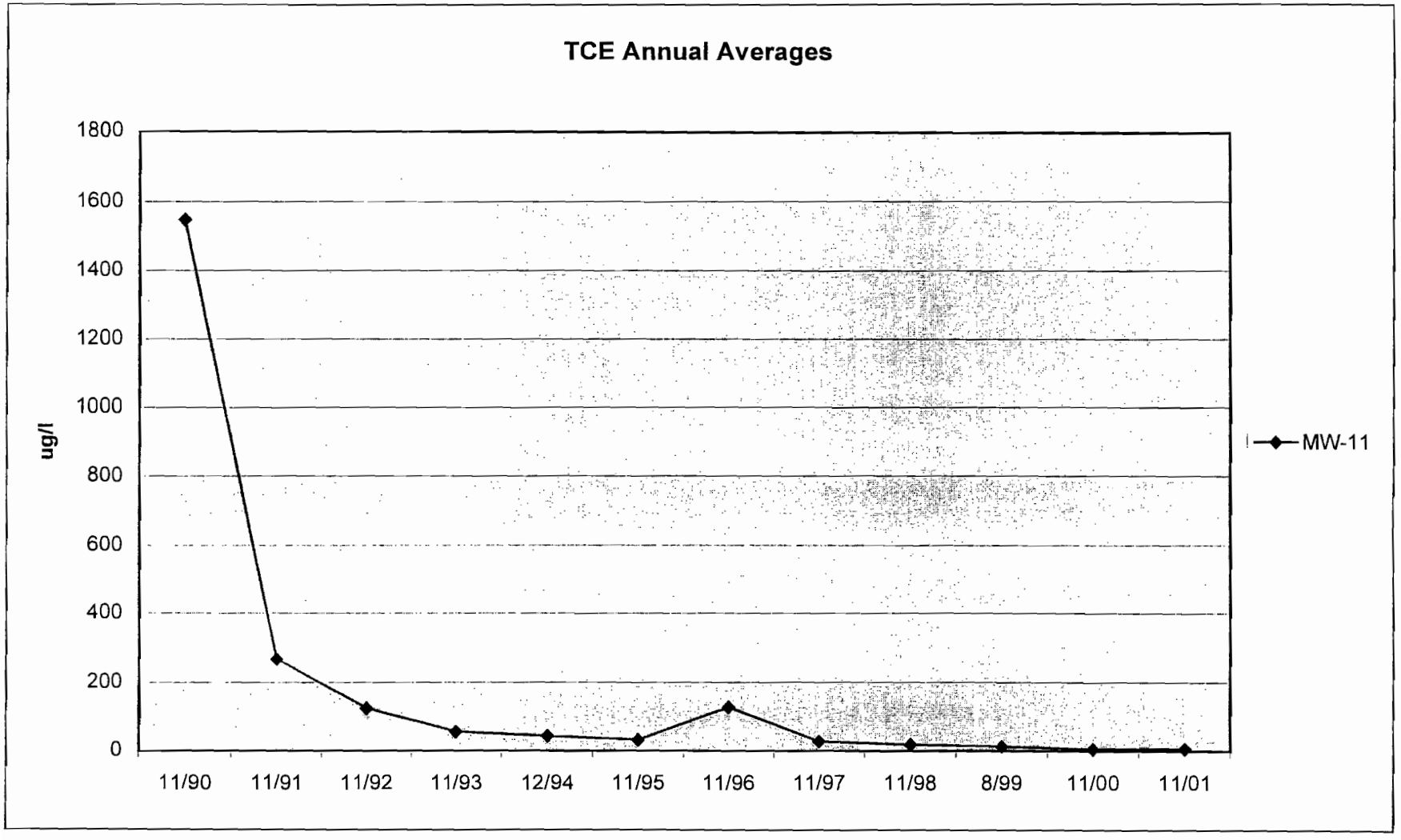
	05/17/01	06/04/01	07/10/01	08/02/01	09/07/01	10/09/01	11/13/01	12/13/01
Trichloroethene	3.5	2.3	1.8	3.0	1.4	<1	<1	1.2
Reg Limit	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0

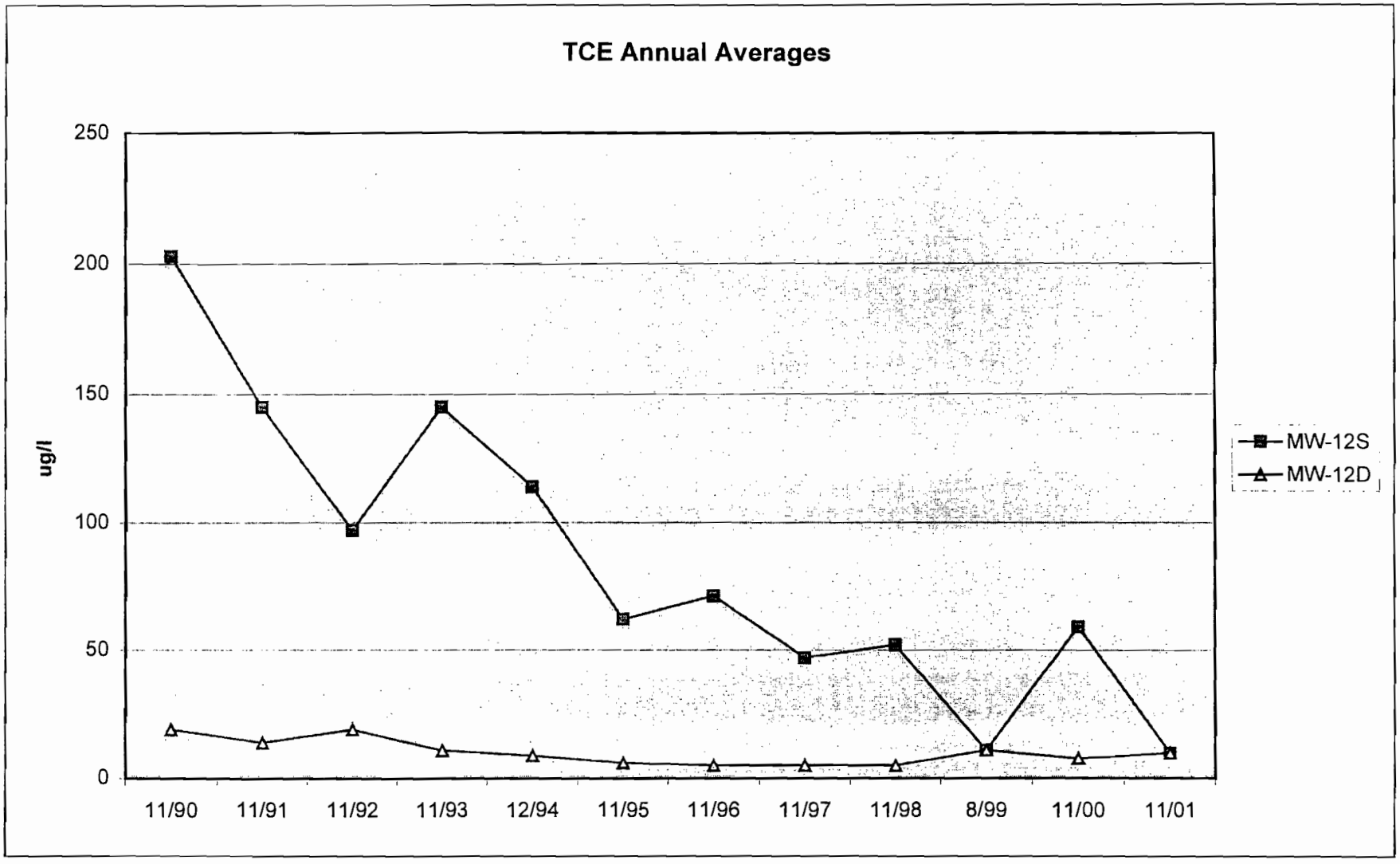



TCE Annual Averages
ug/l
35
30
25
20
15
10
5
0
11/90
11/91
11/92
11/93
12/94
11/95
11/96
11/97
11/98
8/99
11/00
11/01
MW-1S
MW-1D
MW-2S
MW-2D
MW-3


TCE Annual Averages
ug/l
40
35
30
25
20
15
10
5
0
11/90
11/91
11/92
11/93
12/94
11/95
11/96
11/97
11/98
8/99
11/00
11/01
MW-4S
MW-4D
MW-5S
MW-5D
MW-6


TCE Annual Averages
ug/l
180
160
140
120
100
80
60
40
20
0
11/90
11/91
11/92
11/93
12/94
11/95
11/96
11/97
11/98
8/99
11/00
11/01
MW-7
MW-8
MW-9
MW-10S
MW-10D


TCE Annual Averages
1800
1600
1400
1200
1000
800
600
400
200
0
ug/l
11/90
11/91
11/92
11/93
12/94
11/95
11/96
11/97
11/98
8/99
11/00
11/01
MW-11


TCE Annual Averages
250
200
150
100
50
0
ug/l
11/90
11/91
11/92
11/93
12/94
11/95
11/96
11/97
11/98
8/99
11/00
11/01
MW-12S
MW-12D