TABLES

TABLE 2-1 Calculated Hydraulic Properties

Consultant	Test	Test Date	Formation Tested	Average Transmissivity (Ft^2/day)	Average Hydraulic Conductivity (Ft/day)	Average Storativity (Dimensionless)
Roy F. Weston (Weston 1992)	OR6A 74 Hour Aquifer Test	October 1990	Upper Potomac	2,070	---	0.00052
Conestoga-Rovers & Associates (CSA 2001)	MW-40 48-Hour Aquifer Test	April 2001	Columbia	2,154	107.5	0.085
Conestoga-Rovers & Associates (CSA 2001)	Recovery Well Test	May 2001	Columbia	3,352	167.5	0.075

STANDARD CHLORINE OF DELAWARE SITE

TABLE 2-2 DNREC AND BVSPC RD GROUNDWATER COC DATA

	DNREC Samples													
	Metachem/SCD Property Samples													
SAMPLE NAME	MCMW01_083002		MCMW05_083002		MCMW08_083002		MCMW24_083002		MCMW25_082802		MCMW26_083002		MCMW27_083002	
LAB SAMPLE NAME	DNREC_MW-01		DNREC_MW-05		DNREC_MW-08		DNREC_MW-24		DNREC_MW-25		DNREC_MW-26		DNREC_MW-27	
Northing	582870		583694		583695		584318		584414		582368		582401	
Easting	594849		595072		594095		594350		594565		594177		594177	
Total COCs	**51.367**		**39.751**		**0.402**		**48.742**		**261.374**		**22.891**		**29.399**	
1,4-Dichlorobenzene	13		4.6		0.084		12		31		1.9		3.3	
Benzene	6.1		3.1		0.0018	J	3.5		110		0.1	U	0.04	J
Nitrobenzene	0.43		0.051		0.001	U	0.0097		2.2		0.01	U	0.0056	U
Toluene	NA		NA		NA		NA		NA		NA		NA	
Chlorobenzene	11		4.8		0.011		16		78		1.1		4.6	
1,2-Dichlorobenzene	15		26		0.043		9		32		12		14	
1,3-Dichlorobenzene	0.78	J	0.38	J	0.01		2.3		2.4	J	0.33	J	0.47	J
1,2,3-Trichlorobenzene	0.68	J	0.16	J	0.055		0.99		2	J	1.1		1.1	
1,2,4-Trichlorobenzene	4		0.59	J	0.18		4.6		3.7	J	5.4		5	
1,3,5-Trichlorobenzene	1	U	1	U	0.0013	J	0.5	U	5	U	0.5	U	0.5	U
1,2,3,4-Tetrachlorobenzene	0.17		0.052		0.0097	J	0.26		0.056	J	0.88		0.72	
1,2,4,5-Tetrachlorobenzene	0.087		0.015	J	0.0047	J	0.067		0.018	J	0.15		0.13	
Pentachlorobenzene	0.12	J	0.0025	J	0.0014	J	0.015	J	0.1	U	0.031	J	0.039	J
Hexachlorobenzene	0.002	U	0.0017	U	0.001	U	0.002	U	0.01	U	0.01	U	0.0056	U

NA - Not Analyzed
U - Not Detected
J - Estimated Value
JN - Tentatively Identified Compound (TIC)
+ - Result is from a Diluted Sample

TABLE 2-2 DNREC AND BVSPC RD GROUNDWATER COC DATA

	DNREC Samples													
	Metachem/SCD Property Samples													
SAMPLE NAME	MCMW28_083002		MCMW29_082802		MCMW29_083002		MCMW3_083002		MCMW30_082802		MCMW31_082802		MCMW32_082802	
LAB SAMPLE NAME	DNREC_MW-28		DNREC_MW-29		DNREC_MW-29		DNREC_MW-3		DNREC_MW-30		DNREC_MW-31		DNREC_MW-32	
Northing	582418		582843		582843		583624		582925		582920		582895	
Easting	594169		594506		594506		594588		594534		594571		594575	
Total COCs	**2855.300**		**582.320**		**248.124**		**248.909**		**286.004**		**218.543**		**188.792**	
1,4-Dichlorobenzene	9.6		35		30		28		35		34		37	
Benzene	0.25	U	110		79		79		97		49		23	
Nitrobenzene	14	U	35		0.77		0.88		1.3		0.44		0.2	
Toluene	NA		NA		NA		NA		NA		NA		NA	
Chlorobenzene	19		100		110		110		120		93		86	
1,2-Dichlorobenzene	48		40		24		26		29		38		37	
1,3-Dichlorobenzene	1.6		2.7	J	0.79	J	2.1	J	1.4	J	2.6		2.3	J
1,2,3-Trichlorobenzene	6.1		0.82	J	5	U	0.68	J	5	U	0.38	J	0.81	J
1,2,4-Trichlorobenzene	31		2.8	J	3.4	J	2.2	J	2.2	J	1.1	J	2.4	J
1,3,5-Trichlorobenzene	1.2	U	5	U	5	U	5	U	5	U	2.5	U	2.5	U
1,2,3,4-Tetrachlorobenzene	2100		120		0.071	J	0.026	J	0.046	J	0.012	J	0.042	J
1,2,4,5-Tetrachlorobenzene	370		130		0.093	J	0.023	J	0.058	J	0.011	J	0.04	J
Pentachlorobenzene	270		6		0.11	U	0.1	U	0.1	U	0.1	U	0.057	U
Hexachlorobenzene	14	U	0.53	U	0.011	U	0.01	U	0.01	U	0.01	U	0.0057	U

NA - Not Analyzed
U - Not Detected
J - Estimated Value
JN - Tentatively Identified Compound (TIC)
+ - Result is from a Diluted Sample

TABLE 2-2 DNREC AND BVSPC RD GROUNDWATER COC DATA

	DNREC Samples															
	Metachem/SCD Property Samples															
SAMPLE NAME	MCMW4_083002		MCMW50_082802		MCMW51_083002		MCMW52_083002		MCMW52_090302		MCMW6_090302		MCRW01_083002		MCRW3_083002	
LAB SAMPLE NAME	DNREC_MW-4		DNREC_MW-50		DNREC_MW-51		DNREC_MW-52		DNREC_MW-52		DNREC_MW-6		DNREC_RW-1		DNREC_RW-3	
Northing	583611		UNKNOWN		Duplicate		Duplicate		Duplicate		583952		583591		583573	
Easting	594374				UNKNOWN		UNKNOWN		UNKNOWN		594718		594236		594717	
Total COCs	**100.335**		**4.669**		**65.230**		**145.594**		**118.624**		**115.004**		**47.852**		**117.910**	
1,4-Dichlorobenzene	16		2.8		16		13		28		28		18		32	
Benzene	15		0.014	J	7.8		31		14		13		0.041	J	8.8	
Nitrobenzene	0.23		0.001	U	0.41		0.16		0.43		0.51		0.005	U	0.45	
Toluene	NA		NA		NA		NA		NA		NA		NA		NA	
Chlorobenzene	41		0.34		14		63		33		32		1.6		26	
1,2-Dichlorobenzene	20		0.85		19		29		31		30		7.2		35	
1,3-Dichlorobenzene	2.3	J	0.094	J	1		1.5	J	6.6		6		6.5		7.4	
1,2,3-Trichlorobenzene	0.99	J	0.13		0.96		1.6	J	1.6		1.6		3.3		2.5	
1,2,4-Trichlorobenzene	4.6		0.4		5.8		6.2		3.9		3.8		11		5.6	
1,3,5-Trichlorobenzene	2.5	U	0.12	U	0.5	U	2.5	U	1.2	U	1	U	0.5	U	1	U
1,2,3,4-Tetrachlorobenzene	0.16		0.026		0.16		0.11		0.069		0.067		0.17		0.12	
1,2,4,5-Tetrachlorobenzene	0.05		0.011		0.088		0.022		0.025	J	0.027	J	0.036	J	0.04	J
Pentachlorobenzene	0.0051	J	0.0038	J	0.012	J	0.0019	J	0.05	U	0.05	U	0.0047	J	0.05	U
Hexachlorobenzene	0.001	U	0.001	U	0.002	U	0.001	U	0.005	U	0.005	U	0.005	U	0.005	U

NA - Not Analyzed
U - Not Detected
J - Estimated Value
JN - Tentatively Identified Compound (TIC)
+ - Result is from a Diluted Sample

TABLE 2-2 DNREC AND BVSPC RD GROUNDWATER COC DATA

	DNREC Samples													
	Metachem/SCD Property Samples													
SAMPLE NAME	MCRW4_083002		MCMW7_083002		MCTW1_090302		MCTW28_090302		MCTW3_083002		MCTW31_083002		MCTW49_090302	
LAB SAMPLE NAME	DNREC_RW-4		DNREC_MW-7		DNREC_TW-1		DNREC_TW-28		DNREC_TW-3		DNREC_TW-31		DNREC_TW-49	
Northing	583460		583989		582246		583194		582587		582584		583738	
Easting	594934		594473		594125		594411		594101		594459		594447	
Total COCs	**35.231**		**143.216**		**0.214**		**107.126**		**1.743**		**163.827**		**116.546**	
1,4-Dichlorobenzene	8		13		0.036		12		0.078		29		9.3	
Benzene	4.9		30		0.0005	J	5.7		0.0014	J	19		22	
Nitrobenzene	0.5		0.18		0.001	U	0.043		0.0012	U	0.008		0.043	
Toluene	NA		NA		NA		NA		NA		NA		NA	
Chlorobenzene	8		63		0.15		48		0.77		81		50	
1,2-Dichlorobenzene	9.5		28		0.014		28		0.67		27		25	
1,3-Dichlorobenzene	0.47		1.5	J	0.0072		2.2	J	0.015	J	1.8	J	1.5	J
1,2,3-Trichlorobenzene	0.57		1.6	J	0.005	U	2.7		0.022	J	0.67	J	2	J
1,2,4-Trichlorobenzene	3.1		5.8		0.0061		8.1		0.18		5.2		6.4	
1,3,5-Trichlorobenzene	0.25	U	2.5	U	0.005	U	2.5	U	0.025	U	5	U	2.5	U
1,2,3,4-Tetrachlorobenzene	0.13		0.11		0.01	U	0.25		0.0041	J	0.1		0.25	
1,2,4,5-Tetrachlorobenzene	0.05	J	0.024		0.0004	J	0.13		0.0022	J	0.049		0.051	
Pentachlorobenzene	0.011	J	0.0017	J	0.01	U	0.0033	J	0.0004	J	0.0004	J	0.0024	J
Hexachlorobenzene	0.005	U	0.001	U	0.001	U	0.0017	U	0.0012	U	0.0011	U	0.002	U

NA - Not Analyzed
U - Not Detected
J - Estimated Value
JN - Tentatively Identified Compound (TIC)
+ - Result is from a Diluted Sample

TABLE 2-2 DNREC AND BVSPC RD GROUNDWATER COC DATA

	DNREC Samples													
	Metachem/SCD Property Samples								Air Products Property Samples					
SAMPLE NAME	MCTW50_090302		MCTW6_090302		MCWP01_082802		MCTW7_090302		MCMW10_083002		MCMW13_083002		MCMW33_083002	
LAB SAMPLE NAME	DNREC_TW-50		DNREC_TW-6A		DNREC_WP-01		DNREC_TW-7		DNREC_MW-10		DNREC_MW-13		DNREC_MW-33	
Northing	583699		582594		584323		582748		583140		582618		582793	
Easting	594581		594153		594448		594153		593943		593698		594063	
Total COCs	**257.641**		**8.102**		**53.341**		**36.660**		**0.024**		**0.004**		**0.032**	
1,4-Dichlorobenzene	27		0.69		3.9		3.2		0.008		0.0014	J	0.0053	
Benzene	100		0.025	U	7.5		0.1	U	0.0004	J	0.001	U	0.001	U
Nitrobenzene	0.87		0.001	U	0.038		0.02	U	0.001	U	0.001	U	0.001	U
Toluene	NA		NA		NA		NA		NA		NA		NA	
Chlorobenzene	100		3.3		25		0.5	U	0.0019	J	0.005	U	0.0005	J
1,2-Dichlorobenzene	24		2.7		12		1.5		0.0058		0.0011	J	0.0024	J
1,3-Dichlorobenzene	2.1	J	0.42		0.6	J	7.8		0.005	U	0.005	U	0.0005	J
1,2,3-Trichlorobenzene	0.89	J	0.21		1		4.2		0.0008	J	0.005	U	0.0014	J
1,2,4-Trichlorobenzene	2.7	J	0.74		3.2		16		0.006		0.001	J	0.0055	
1,3,5-Trichlorobenzene	5	U	0.12	U	1	U	0.5	U	0.005	U	0.005	U	0.0011	J
1,2,3,4-Tetrachlorobenzene	0.054		0.011		0.089		3.1		0.0004	J	0.01	U	0.0012	J
1,2,4,5-Tetrachlorobenzene	0.027	J	0.029		0.012		0.57		0.0004	J	0.01	U	0.0046	J
Pentachlorobenzene	0.05	U	0.0017	J	0.0019	J	0.29		0.01	U	0.01	U	0.0091	J
Hexachlorobenzene	0.005	U	0.001	U	0.001	U	0.02	U	0.001	U	0.001	U	0.001	U

NA - Not Analyzed
U - Not Detected
J - Estimated Value
JN - Tentatively Identified Compound (TIC)
+ - Result is from a Diluted Sample

TABLE 2-2 DNREC AND BVSPC RD GROUNDWATER COC DATA

	DNREC Samples													
	Oxychem Property Samples										North of Red Lion Creek (Motiva)			
SAMPLE NAME	MCMW12_082802		MCMW14_082802		MCMW15_082802		MCMW17_082802		MCMW18_083002		MCMW34_082802		MCMW36_082802	
LAB SAMPLE NAME	DNREC_MW-12		DNREC_MW-14		DNREC_MW-15		DNREC_MW-17		DNREC_MW-18		DNREC_MW-34		DNREC_MW-36	
Northing	583147		582714		582710		583017		583045		585677		585270	
Easting	595825		595743		595543		595584		595275		594981		595554	
Total COCs	**0.002**		**0.001**		**0.001**		**4.385**		**0.625**		**0.001**		**0.001**	
1,4-Dichlorobenzene	0.005	U	0.0014	J	0.0005	J	2.6		0.084		0.005	U	0.005	U
Benzene	0.001	U	0.001	U	0.001	U	0.014	J	0.19		0.001	U	0.001	U
Nitrobenzene	0.0007	J	0.001	U	0.001	U	0.001	U	0.001	U	0.0011	U	0.001	U
Toluene	NA		NA		NA		NA		NA		NA		NA	
Chlorobenzene	0.005	U	0.005	U	0.005	U	0.33		0.26		0.005	U	0.005	U
1,2-Dichlorobenzene	0.005	U	0.005	U	0.005	U	0.83		0.075		0.005	U	0.005	U
1,3-Dichlorobenzene	0.005	U	0.005	U	0.005	U	0.092	J	0.0083	J	0.005	U	0.005	U
1,2,3-Trichlorobenzene	0.005	U	0.005	U	0.005	U	0.11	J	0.01	U	0.005	U	0.005	U
1,2,4-Trichlorobenzene	0.005	U	0.005	U	0.005	U	0.37		0.0075	J	0.005	U	0.005	U
1,3,5-Trichlorobenzene	0.005	U	0.005	U	0.005	U	0.12	U	.01	U	0.005	U	0.005	U
1,2,3,4-Tetrachlorobenzene	0.0008	J	0.01	U	0.01	U	0.025		.01	U	0.0013	J	0.0004	J
1,2,4,5-Tetrachlorobenzene	0.0006	J	0.01	U	0.01	U	0.01	J	.01	U	0.011	U	0.0005	J
Pentachlorobenzene	0.01	U	0.01	U	0.01	U	0.0038	J	0.0002	J	0.011	U	0.01	U
Hexachlorobenzene	0.001	U	0.001	U	0.001	U	0.001	U	.001	U	0.0011	U	0.001	U

NA - Not Analyzed
U - Not Detected
J - Estimated Value
JN - Tentatively Identified Compound (TIC)
+ - Result is from a Diluted Sample

TABLE 2-2 DNREC AND BVSPC RD GROUNDWATER COC DATA

	BVSPC Samples													
	CLP Lab Analyzed Split Samples								Mobile Lab Analyzed Samples					
SAMPLE NAME	MCWC03_013003		MCWC05_013003		MCWC06_013003		MCWC13_013003		WC-1_013003		WC11-A_013103		WC-911A_013103	
LAB SAMPLE NAME	C0ET2		C0ER9		C0ER8		C0ES8		SENT_WC-1		SENT_WC11-A		SENT_WC-911A	
Northing	582935		583621		583934		583595		582078		582610		582610	
Easting	594992		594385		594649		595041		594313		594258		594258	
Total COCs	**0.009**		**90.526**		**162.047**		**15.092**		**0.368**		**66.083**		**75.412**	
1,4-Dichlorobenzene	0.001	J	7		16		2.4		0.228		3.7		6.7	
Benzene	0.01	U	16		74	+	0.46		0.001		2.23		2.62	
Nitrobenzene	0.01	U	0.0008	J	2		0.01	U	0.01		0.01	U	0.01	U
Toluene	0.01	U	0.01	U	0.01	U	0.01	U	0.001		0.2	U	0.2	U
Chlorobenzene	0.01	U	43	+	48	+	1.5		0.0015		48.5		53.6	
1,2-Dichlorobenzene	0.004	J	19		17		9.6	+	0.0032		2.96		3.48	
1,3-Dichlorobenzene	0.01	U	1.3		0.9	J	0.25		0.0011		0.778		1.25	
1,2,3-Trichlorobenzene			0.35	JN	0.32	JN			0.01		0.735		1.66	
1,2,4-Trichlorobenzene	0.003	J	3.8		3.8		0.77		0.0527		3.2		2.8	
1,3,5-Trichlorobenzene	0.01	U	0.002	J			0.01		0.0496		2.86		2.6	
1,2,3,4-Tetrachlorobenzene	0.001	J	0.059		0.027	J	0.068		0.01	U	0.57		0.492	
1,2,4,5-Tetrachlorobenzene	0.01	U	0.014		0.01	U	0.017		0.01		0.37		0.161	
Pentachlorobenzene	0.01	U	0.01	U	0.01	U	0.007	J	0.01	U	0.18		0.0486	
Hexachlorobenzene	0.01	U	0.01	U	0.01	U	0.01		0.01	U	0.01	U	0.01	U

NA - Not Analyzed
U - Not Detected
J - Estimated Value
JN - Tentatively Identified Compound (TIC)
+ - Result is from a Diluted Sample

TABLE 2-2 DNREC AND BVSPC RD GROUNDWATER COC DATA

	BVSPC Samples															
	Mobile Lab Analyzed Samples															
SAMPLE NAME	WC-11B_013103		WC-12A_013103		WC-12B_013103		WC-13_013003		WC-14_012903		WC-914_013003		WC-17_012903		WC-19_012903	
LAB SAMPLE NAME	SENT_WC-11B		SENT_WC-12A		SENT_WC-12B		SENT_WC-13		SENT_WC-14		SENT_WC-914		SENT_WC-17		SENT_WC-19	
Northing	582610		582641		582641		583595		584476		584476		584401		584420	
Easting	594258		594580		594580		595041		594624		594624		594844		594961	
Total COCs	**205.567**		**43.752**		**65.074**		**7.746**		**189.275**		**140.824**		**7.464**		**40.630**	
1,4-Dichlorobenzene	3.68		12.5		22.9		1.91		28.3		22.2		0.798		4.37	
Benzene	1.36		8		3.77		0.57		48		36.6		0.74		14.3	
Nitrobenzene	0.0293		0.01	U	0.01	U	0.01	U	0.393		0.45		0.826		0.38	
Toluene	0.2	U	0.2	U	0.1	U	0.1	U	0.05	U	0.05	U	0.05	U	0.001	U
Chlorobenzene	56.1		15.7		16.4		1.54		68.9		50.3		2.9		14.7	
1,2-Dichlorobenzene	27.5		2.02		16.7		2.53		31.5		24		1.64		5.25	
1,3-Dichlorobenzene	0.86		0.403		0.791		0.196		3.78		2.81		0.212		0.79	
1,2,3-Trichlorobenzene	1.7		0.28		0.291		0.103		1.88		0.622		0.284		0.22	
1,2,4-Trichlorobenzene	48.5		2.29		2.02		0.468		4.54		1.51		0.028		0.3	
1,3,5-Trichlorobenzene	35		2.14		1.88		0.361		1.91		2.25		0.0362		0.32	
1,2,3,4-Tetrachlorobenzene	16.1		0.231		0.164		0.0514		0.0522		0.06		0.01	U	0.01	U
1,2,4,5-Tetrachlorobenzene	10.8		0.188		0.158		0.0164		0.0198		0.022		0.01	U	0.01	U
Pentachlorobenzene	3.8		0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
Hexachlorobenzene	0.138		0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U

NA - Not Analyzed
U - Not Detected
J - Estimated Value
JN - Tentatively Identified Compound (TIC)
+ - Result is from a Diluted Sample

TABLE 2-2 DNREC AND BVSPC RD GROUNDWATER COC DATA

	BVSPC Samples													
	Mobile Lab Analyzed Samples												Potomac Well	
SAMPLE NAME	WC-22_012903		WC-3_013003		WC-5_013003		WC-6_013003		WC-7_012903		WC-9_013003		PW-1_111403	
LAB SAMPLE NAME	SENT_WC-22		SENT_WC-3		SENT_WC-5		SENT_WC-6		SENT_WC-7		SENT_WC-9		PW-1	
Northing	584408		582935		583621		583934		584197		583160		582709	
Easting	595091		594992		594385		594649		595035		594134		595542	
Total COCs	**45.969**		**0.024**		**65.080**		**105.805**		**8.873**		**1.412**		**0.038**	
1,4-Dichlorobenzene	11.3		0.0033		5.45		14.7		1.33		0.31		0.002	J
Benzene	0.367		0.001	U	16.9		45.7		1.99		0.001	U	0.016	
Nitrobenzene	0.315		0.01	U	0.01	U	0.91		0.01	U	0.01	U	0.01	U
Toluene	0.001	U	0.001	U	0.05		0.05		0.001	U	0.001	U	0.01	U
Chlorobenzene	7.57		0.001	U	36.5		39.8		2.92		0.001	U	0.016	
1,2-Dichlorobenzene	18.4		0.0055		2.07		2.28		1.94		0.0743		0.002	J
1,3-Dichlorobenzene	4.05		0.001	U	0.958		0.673		0.125		0.0181		0.01	U
1,2,3-Trichlorobenzene	1.82		0.0037		0.4		0.265		0.059		0.146		0.01	U
1,2,4-Trichlorobenzene	1.32		0.0118		1.35		0.693		0.245		0.434		0.01	U
1,3,5-Trichlorobenzene	0.772		0.01	U	1.38		0.706		0.23		0.406		0.01	U
1,2,3,4-Tetrachlorobenzene	0.0252		0.01	U	0.0559		0.0546		0.0239		0.024		0.01	U
1,2,4,5-Tetrachlorobenzene	0.0296		0.01	U	0.0163		0.0231		0.01		0.01	U	0.01	U
Pentachlorobenzene	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
Hexachlorobenzene	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U

NA - Not Analyzed
U - Not Detected
J - Estimated Value
JN - Tentatively Identified Compound (TIC)
+ - Result is from a Diluted Sample

STANDARD CHLORINE OF DELAWARE SITE

TABLE 2-3 BVSPC RD
SURFACE WATER COC DATA

LOCATION	Tributary				Red Lion Creek							
SAMPLE NAME	SW-01		SW-02		SW-03D		SW-03S		SW-04S		SW-05S	
LAB SAMPLE NAME	C0F14 & C0F26		C0F15		C0F16		C0F18		C0F21		C0F24	
Sample Date	3/19/2003		3/19/2003		3/19/2003		3/19/2003		3/19/2003		3/19/2003	
Northing	593818		594568		594017		594017		594399		595518	
Easting	583467		584485		585080		585080		584796		584788	
Total COCs	**0.619**		**60.94**		**0**		**0.014**		**0.093**		**0.107**	
1,4-Dichlorobenzene	0.14		6.5	+	0.01	U	0.003	J	0.016		0.018	
Benzene	0.002	J	15	+	0.01	U	0.001	J	0.01		0.006	J
Nitrobenzene	0.01	U	0.087	+	0.01	U	0.01	U	0.01	U	0.003	J
Toluene	0.01	U	3	J	0.01	U	0.01	U	0.01	U	0.01	U
Chlorobenzene	0.039		26	+	0.01	U	0.007	J	0.054		0.036	
1,2-Dichlorobenzene	0.029		7.7	+	0.01	U	0.003	J	0.01		0.039	
1,3-Dichlorobenzene	0.011		0.65	+J	0.01	U	0.01	U	0.001	J	0.003	J
1,2,3-Trichlorobenzene	0.04	NJD										
1,2,4-Trichlorobenzene	0.34	+J	2	+	0.01	U	0.01	U	0.002	B	0.002	B
1,3,5-Trichlorobenzene	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
1,2,3,4-Tetrachlorobenzene	0.012		0.003	J	0.01	U	0.01	U	0.01	U	0.01	U
1,2,4,5-Tetrachlorobenzene	0.004	J	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
Pentachlorobenzene	0.002	J	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
Hexachlorobenzene	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U

Note - All results are in units of mg/l.
U - Not Detected
J - Estimated Value
NJ - Tentatively Identified Compound (TIC)
+, D - Result from Diluted Sample
B - Contaminant Present in Blank
Note - A blank concentration value indicates that the compound was not detected.

Table 3-1 Potentially Relevant Chemical Specific Limits

Constituent	Federal and Delaware Drinking Water MCLs[1] (ug/l)	Delaware Water Quality Criteria (Freshwater) for Protection of Human Health[2] (ug/l)		Delaware River Basin Commision Freshwater Objectives[3] (ug/l)		Federal Drinking Water MCL Goals[4] (ug/l)
		Fish &Water Ingestion	Fish Ingestion Only	Fish &Water Ingestion	Fish Ingestion Only	
Benzene	5	89	1.2	1.19	71.3	0
Chlorobenzene	100	26,100	680	677	20,900	100
1,2-Dichlorobenzene	600	21,800	2,800	2,670	17,400	600
1,3-Dichlorobenzene	N/A	4,300	410	414	3,510	N/A
1,4-Dichlorobenzene	75	24,000	75	419	3,870	75
1,2,4-Trichlorobenzene	70	19,000	680	255	945	70
Hexachlorobenzene	1	0.00088	0.00085	0.958	0.991	0
Nitrobenzene	N/A	2,200	17.0	17.3	1,860	N/A
Toluene	1,000	370,000	10,000	6,760	201,000	1,000

NOTES:

1. Federal: 40 CFR § 141.61; Delaware: Delaware Code Title 16 § 122(3)(c) and the State of Delaware Regulations Governing Public Drinking Systems § 22.611.
2. State of Delaware, Surface Water Quality Standards, As Amended, August 11, 1999.
3. Delaware River Basin Commission (DRBC) Administrative Manual – Part III, Water Quality Regulations and 18 CFR § 410.1.
4. 40 CFR § 141.50.

Table 4-1 Influent Criteria for Standard Chlorine of Delaware

PARAMETER				
WATER FLOW - GPM	158			
pH	3 - 5			
TEMPERATURE - F	55			
	AVERAGE		MAXIMUM	
CONTAMINANT	UG/L	LBS/HR	UG/L	LBS/HR
BENZENE	20,815	1.6257	143,000	11.1688
CHLOROBENZENE	34,500	2.6946	156,000	12.1841
1,2-DICHLOROBENZENE	17,135	1.3383	62,400	4.8736
1,3-DICHLOROBENZENE	1,955	0.1527	10,140	0.7920
1,4-DICHLOROBENZENE	13,455	1.0509	48,100	3.7568
1,2,3-TRICHLOROBENZENE	1,265	0.0988	7,930	0.6194
1,2,4-TRICHLOROBENZENE	4,830	0.3772	63,050	4.9244
1,3,5-TRICHLOROBENZENE	1,150	0.0898	45,500	3.5537
1,2,3,4-TETRACHLOROBENZENE*	795.8	0.0622	9,100	0.7107
1,2,4,5-TETRACHLOROBENZENE*	503.7	0.0393	6,500	0.5077
PENTACHLOROBENZENE*	138	0.0108	728	0.0569
HEXACHLOROBENZENE	1.15	0.0001	179.4	0.0140
NITROBENZENE	1,725	0.1347	45,500	3.5537
TOLUENE	1.15	0.0001	1.3	0.0001

*- Three wells had hits for these contaminants at concentrations that indicate the presence of free product. Product recovery wells will be employed where recovery is possible, but the average and maximum concentrations that a treatment system sees for these contaminants could be higher than the numbers listed here. Maximum solubility limits were used for maximum concentrations for these contaminants.

Table 4-2 Land Acquisition and Easement Requirements

Property Owner	Property Location/Description	Map/Identification Number
Occidental Chemical 1657 River Road New Castle, DE 19720	Occidental Chemical Property located adjacent to the eastern border of the SCD Site for construction of containment barrier wall, extraction and monitoring wells, and conveyance piping.	Parcel # 1200300014 New Castle County Tax Maps

Table 5-1

Potential Permitting Requirements
Standard Chlorine of Delaware Remedial Design

Agency	Potential Permit Approval	Contact Information	Permit/Fees	Administrative Approval	Permit Application Submitals	Notes/Comments
Delaware Department of Natural Resources and Environmental Control (DNREC)		Lynn Krueger, DNREC Site Manager 302-395-2632 Division of Air and Waste Management DNREC 391 Lukens Drive New Castle, DE 19720-2774	NA	NA	Approval Obtained: TBD	Although permit is not required, must get approval from State for both water (if applicable) and air discharge. To expedite approval of NPDES discharge, fill out and submit permit application.
	Air Permit (AQM-12) Equivalency	Paul Foster, Air Quality Management Section 302-323-4542	NA	approx. 2-4 weeks	Submittal Date: TBD	AQM-12 Equivalency Request for Determination to be prepared by Black & Veatch for submittal by USEPA. According to Mr. Foster, generally a 0.1 lbs/hr limit is placed on Superfund remedial action sites.
	NPDES permit revision Part I. Part II equivalency likely also required.	Paul Janiga, Division of Water Resources, Surface Water Discharge Section 302-739-5731	NA	approx. 1 - 2 months	Submittal Date: TBD	NPDES discharge permit application to be prepared by Black & Veatch.
	Well Construction/Soil Boring Permit	Rick Rios/Alan Pongratz, Water Supply Section 302-739-3665	NA	1 - 2 weeks	Submittal Date: TBD	
	Water Allocation Permit	Stewart Lovell, Bill Cocke, Patty Murray, Water Supply Section 302-739-4793	NA	1 - 2 weeks	Submittal Date: TBD	
	Wetlands and Subaqueous Lands Permits	Andrew Whitman, Wetlands and Subaqueous Lands Section, 302-739-4691	NA	1 - 2 weeks	Submittal Date: TBD	Subaqueous permit might not be required because construction location is above the mean high water line. Wetlands permit might not be required because the construction will not extend into the wetlands area.
	Thermal/Catalytic Oxidizer (if necessary) Siting Permit	Dennis Brown, Coastal Zone Industrial Control Board, 302-739-6400	NA	approx. 1 month	Submittal Date: TBD	
	Hazardous Waste Manifesting	Karen J-Anthony, Solid and Hazardous Waste Management Branch 302-739-3689	NA	NA	Submittal Date: TBD	Spent carbon must be manifested as a hazardous waste
		(common address for all) DNREC 89 Kings Hwy. Dover, DE 19901				
Delaware River Basin Commisssion	No permit required, but need to submit letter requesting waiver or transfer of existing docket.	Tom Brand Delaware River Basin Commission P.O. Box 7360 West Trenton, NJ 08628 609-883-9500	NA			Due to the memorandum of agreeement (MOA) between DRBC and Region III EPA, no notification or any applications need to be filed with the DRBC. However, the DRBC would like to be informed of excessive groundwater withdrawls from the Delaware River Basin. DRBC has a docket under Metachem, but this docket could be signed over to EPA or they could turn over responsibility for the Site to EPA.

TBD = To be determined.
NA = Not applicable.

Table 5-1 (continued)

Potential Permitting Requirements
Standard Chlorine of Delaware Remedial Design

Agency	Potential Permit Approval	Contact Information	Permit/Fees	Administrative Approval	Permit Application Submitals	Notes/Comments
New Castle County	Applicable permits: -Building permit -Plumbing permit -Mechanical permit -HVAC Permit	Greg Malesecca, Land Development Office 87 Reads Way New Castle County Government Center 302-395-5508	NA	1 to 2 weeks	Submittal Date(s): TBD	
	-Electrical permit	Judy Letterman, Electrical Board 861 Silver Lake Blvd. Cannon Bldg. Suite 203 Dover, DE 19904 302-739-4522	NA		Submittal Date(s): TBD	
	-Fire Marshal	John Rossiter, 2307 MacArthur Rd. New Castle, DE 19720 302-323-5365	NA		Submittal Date(s): TBD	Must have Fire Marshal review before building permits. Need to complete Application for Plan Review for Building and submit one set of signed building construction documents with a site plan. Application available at delawarestatefiremarshal.com
	-Zoning Approval	Land Use Department 87 Reads Way New Castle County Government Center 302-395-5400	NA		Submittal Date: TBD	Must have planning department clearance before building permits. Need to complete Application for Plan Review for Building and submit one set of signed building construction documents with a site plan. Application available at www.co.new-castle.de.us under the Dept. of Land Use Section
Connectiv	Electric Service	1-800-375-7117 Conectiv Energy 500 N. Wakefield Dr. PO Box 6066 Newark, DE 19714-6066	NA			Conectiv Energy will install any new poles and run service from existing poles. The following information is needed: desired pole location, and location where service will be mounted. Conectiv also handles installation of the meter and all wiring to the transformer.

TBD = To be determined.
NA = Not applicable.