

Table 4-1 June 2003 Quarterly Groundwater Detected Concentrations

Method	Analyte	Water Comparison Criteria			CS-D 06/19/03 N D3F200337				CS-MWG-LGR 06/16/03 N D3F180197				CS-1 06/19/03 N D3F200339				CS-2 06/19/03 N D3F200337				CS-4 06/23/03 N D3F240154				CS-9 06/17/03 N D3F180197				CS-9 06/17/03 FD D3F180197				CS-10 06/17/03 N D3F180197				CS-11 06/17/03 N D3F180197				CS-MW1-LGR 06/19/03 N D3F200337				CS-MW1-BS 06/16/03 N D3F180197							
		Lab MDL	Lab RL	MCL	Result	Flag	SQL	DL	Result	Flag	SQL	DL	Result	Flag	SQL	DL	Result	Flag	SQL	DL	Result	Flag	SQL	DL	Result	Flag	SQL	DL	Result	Flag	SQL	DL	Result	Flag	SQL	DL	Result	Flag	SQL	DL												
E310.1 (mg/L)	Alkalinity, Bicarbonate	1.5	5	--																																																
	Alkalinity, Total (as CaCO3)	0.85	10	--																																																
SW6010B (ug/L)	Barium	1.8	5	200	29.0		0.37	1	19.0		0.37	1	34.0		0.37	1	34.0		0.37	1	31.0		0.37	1	36.0		0.37	1	36.0		0.37	1	39.0		0.37	1	37.0		0.37	1	32		0.37	1	51		0.37	1				
	Calcium	31	1100	--																																																
	Chromium	0.74	10	100	2.1	U	2.1	1	2.6	F	2.1	1	2.1	U	2.1	1	2.1	U	2.1	1	2.1	U	2.1	1	2.1	U	2.1	1	2.1	U	2.1	1	2.1	U	2.1	1	2.1	U	2.1	1	2.1	U	2.1	1	5.8	F	2.1	1				
	Copper	0.76	10	1300	1.1	F	0.97	1	2.4	F	0.97	1	3.3	F	0.97	1	1.6	F	0.97	1	2.0	F	0.97	1	8.0	F	0.97	1	8.4	F	0.97	1	5.8	F	0.97	1	9.2	F	0.97	1	1.4	F	0.97	1	1.7	F	0.97	1				
	Iron	13	200	--																																																
	Magnesium	24	100	--																																																
	Manganese	0.49	3	--																																																
	Nickel	1.7	10	100	4.2	U	4.2	1	22.0		4.2	1	4.2	U	4.2	1	4.2	U	4.2	1	4.2	U	4.2	1	4.2	U	4.2	1	4.2	U	4.2	1	4.2	U	4.2	1	4.2	U	4.2	1	4.2	U	4.2	1	8.9	F	4.2	1	9.8	F	4.2	1
	Potassium	490	1000	--																																																
	Sodium	26	1000	--																																																
	Zinc	6.8	10	11000	13.0		3.6	1	24.0		3.6	1	300.0		3.6	1	5.3	F	3.6	1	72.0		3.6	1	170.0		3.6	1	160.0		3.6	1	63.0		3.6	1	690.0		3.6	1	6.9	F	3.6	1	78.0		3.6	1				
SW6020 (ug/L)	Arsenic	0.061	5	50	0.32	F	0.12	1	0.47	F	0.12	1	0.57	F	0.12	1	0.56	F	0.12	1	0.57	F	0.12	1	0.4	F	0.12	1	0.42	F	0.12	1	0.54	F	0.12	1	0.62	F	0.12	1	0.36	F	0.12	1	2.0	F	0.12	1				
	Cadmium	0.022	1	3	0.099	F	0.051	1	0.051	U	0.051	1	0.051	U	0.051	1	0.11	F	0.051	1	0.37	F	0.051	1	0.051	U	0.051	1	0.051	U	0.051	1	0.051	U	0.051	1	0.051	U	0.051	1	0.051	U	0.051	1	0.051	U	0.051	1				
	Lead	0.15	2	15	0.33	F	0.19	1	0.19	U	0.19	1	2.1		0.19	1	0.21	F	0.19	1	0.19		0.19	1	0.78	F	0.19	1	0.86	F	0.19	1	0.85	F	0.19	1	4.0		0.19	1	0.47	F	0.19	1	0.2	F	0.19	1				
SW7470A (ug/L)	Mercury	0.015	1	2	0.015	U	0.015	1	0.032	F	0.015	1	0.015	U	0.015	1	0.015	U	0.015	1	0.015	U	0.015	1	0.037	F	0.015	1	0.039	F	0.015	1	0.039	F	0.015	1	0.04	F	0.015	1	0.015	U	0.015	1	0.038	F	0.015	1				
SW8260B (ug/L)	Acetone	24	200	--																																																
	Butanone, 2-	24	50	--																																																
	Chloroform	0.05	0.4	100	0.67	U	0.67	13.33	0.05	U	0.05	1	0.05	U	0.05	1	0.05	U	0.05	1	0.05	U	0.05	1	0.05	U	0.05	1	0.05	U	0.05	1	0.05	U	0.05	1	0.05	U	0.05	1	0.05	U	0.05	1	0.11	F	0.05	1				
	Chloromethane	0.06	1.3	--																																																
	Dichloroethene, cis-1,2-	0.09	1.2	70	270.0		1.2	13.33	0.09	U	0.09	1	0.09	U	0.09	1	0.09	U	0.09	1	1.2		0.09	1	0.09	U	0.09	1	0.09	U	0.09	1	0.09	U	0.09	1	0.09	U	0.09	1	0.09	U	0.09	1	0.09	U	0.09	1	17.0	M	0.09	1
	Dichloroethene, trans-1,2-	0.04	0.6	100	1.1	F	0.53	13.33	0.04	U	0.04	1	0.04	U	0.04	1	0.04	U	0.04	1	0.04	U	0.04	1	0.04	U	0.04	1	0.04	U	0.04	1	0.04	U	0.04	1	0.04	U	0.04	1	0.04	U	0.04	1	0.18	F	0.04	1				
	Methylene chloride	0.2	2	5	2.7	U	2.7	13.33	0.2	U	0.2	1	0.2	U	0.2	1	0.2	U	0.2	1	0.2	U	0.2	1	0.2	U	0.2	1	0.2	U	0.2	1	0.2	U	0.2	1	0.2	U	0.2	1	0.2	U	0.2	1	0.2	U	0.2	1				
	Naphthalene	0.09	0.4	--																																																
	Tetrachloroethene	0.05	1.4	5	200.0		0.67	13.33	0.05	U	0.05	1	0.088	F	0.05	1	0.1	F	0.05	1	1.7		0.05	1	0.061	F	0.05	1	0.054	F	0.05	1	0.072	F	0.05	1	0.05	U	0.05	1	9.9		0.05	1	0.05	U	0.05	1				
	Toluene	0.06	1.1	1000	0.8	U	0.8	13.33	0.06	U	0.06	1	0.06	U	0.06	1	0.06	U	0.06	1	0.06	U	0.06	1	0.06	U	0.06	1	0.11	F	0.06	1	0.06	U	0.06	1	0.06	U	0.06	1	0.06	U	0.06	1	0.06	U	0.06	1	26.0		0.06	1
	Trichloroethene	0.03	1	5	290.0		0.4	13.33	0.03	U	0.03	1	0.18	F	0.03	1	0.03	U	0.03	1	3.5		0.03	1	0.03	U	0.03	1	0.03	U	0.03	1	0.03	U	0.03	1	0.03	U	0.03	1	0.03	U	0.03	1	26.0	M	0.03	1				
	Vinyl chloride	0.03	1.1	2	0.4	U	0.4	13.33	0.03	U	0.03	1	0.03	U	0.03	1	0.03	U	0.03	1	0.03	U	0.03	1	0.03	U	0.03	1	0.03	U	0.03	1	0.03	U	0.03	1	0.03	U	0.03	1	0.03	U	0.03	1	0.069	F	0.03	1				
SW9056 (mg/L)	Bromide	0.031	0.5	--																																																
	Chloride	0.12	1	--																																																
	Fluoride	0.035	1	4																																																
	Nitrate	0.031	1	10																																																
	Phosphorus, Total Orthophosphate	0.041	1	--																																																

Table 4-1 June 2003 Quarterly Groundwater Detected Concentrations

Method	Analyte	Water Comparison Criteria			CS-MW8-LGR 06/18/03 N D3F190360				CS-MW8-CC 06/19/03 N D3F200337				CS-MW9-LGR 06/20/03 N D3F210180				CS-MW9-BS 06/20/03 N D3F210180				CS-MW9-CC 06/20/03 N D3F210180				CS-MW9-CC 06/20/03 FD D3F210180				CS-MW10-LGR 06/18/03 N D3F190360				CS-MW10-LGR 06/18/03 FD D3F190360				CS-MW10-CC 06/18/03 N D3F190360				CS-MW11-LGR-A 06/17/03 N D3F180197				CS-MW11-LGR-B 06/17/03 N D3F180197			
		Lab MDL	Lab RL	MCL	Result	Flag	SQL	DL	Result	Flag	SQL	DL	Result	Flag	SQL	DL	Result	Flag	SQL	DL	Result	Flag	SQL	DL	Result	Flag	SQL	DL	Result	Flag	SQL	DL	Result	Flag	SQL	DL	Result	Flag	SQL	DL								
E310.1 (mg/L)	Alkalinity, Bicarbonate	1.5	5	--																																												
	Alkalinity, Total (as CaCO3)	0.85	10	--																																												
SW6010B (ug/L)	Barium	1.8	5	200	35		0.37	1	34		0.37	1	31		0.37	1	48		0.37	1	20		0.37	1	19		0.37	1	48		0.37	1	47		0.37	1	32		0.37	1								
	Calcium	31	1100	--																																												
	Chromium	0.74	10	100	2.1	U	2.1	1	2.1	U	2.1	1	2.1	U	2.1	1	2.1	U	2.1	1	2.1	U	2.1	1	2.1	U	2.1	1	2.1	U	2.1	1	2.1	U	2.1	1	2.1	U	2.1	1								
	Copper	0.76	10	1300	0.97	U	0.97	1	1.5	F	0.97	1	0.97	U	0.97	1	0.97	U	0.97	1	0.97	U	0.97	1	0.97	U	0.97	1	0.97	U	0.97	1	0.97	U	0.97	1	0.97	U	0.97	1								
	Iron	13	200	--																																												
	Magnesium	24	100	--																																												
	Manganese	0.49	3	--																																												
	Nickel	1.7	10	100	4.2	U	4.2	1	4.2	U	4.2	1	45		4.2	1	4.2	U	4.2	1	4.2	U	4.2	1	4.2	U	4.2	1	4.2	U	4.2	1	4.2	U	4.2	1	4.2	U	4.2	1								
	Potassium	490	1000	--																																												
	Sodium	26	1000	--																																												
	Zinc	6.8	10	11000	35.0		3.6	1	5.0	F	3.6	1	16.0		3.6	1	7.4	F	3.6	1	11.0		3.6	1	5.6	F	3.6	1	7.3	F	3.6	1	6.7	F	3.6	1	5.9	F	3.6	1								
SW6020 (ug/L)	Arsenic	0.061	5	50	0.65	F	0.12	1	3.1	F	0.12	1	0.42	F	0.12	1	0.94	F	0.12	1	0.34	F	0.12	1	0.29	F	0.12	1	0.63	F	0.12	1	0.63	F	0.12	1	2.6	F	0.12	1								
	Cadmium	0.022	1	3	0.051	U	0.051	1	0.051	U	0.051	1	0.051	U	0.051	1	0.051	U	0.051	1	0.051	U	0.051	1	0.051	U	0.051	1	0.051	U	0.051	1	0.051	U	0.051	1	0.051	U	0.051	1								
	Lead	0.15	2	15	0.19	U	0.19	1	0.19	U	0.19	1	0.19	U	0.19	1	0.19	U	0.19	1	0.19	U	0.19	1	0.19	U	0.19	1	0.19	U	0.19	1	0.19	U	0.19	1	0.19	U	0.19	1								
SW7470A (ug/L)	Mercury	0.015	1	2	0.015	U	0.015	1	0.023	F	0.015	1	0.015	U	0.015	1	0.015	U	0.015	1	0.015	U	0.015	1	0.015	U	0.015	1	0.015	U	0.015	1	0.015	U	0.015	1	0.015	U	0.015	1								
SW8260B (ug/L)	Acetone	24	200	--																																												
	Butanone, 2-	24	50	--																																												
	Chloroform	0.05	0.4	100	0.05	U	0.05	1	0.05	U	0.05	1	0.05	U	0.05	1	0.05	U	0.05	1	0.05	U	0.05	1	0.05	U	0.05	1	0.05	U	0.05	1	0.05	U	0.05	1	0.05	U	0.05	1								
	Chloromethane	0.06	1.3	--																																												
	Dichloroethene, cis-1,2-	0.09	1.2	70	0.09	U	0.09	1	0.09	U	0.09	1	0.09	U	0.09	1	0.09	U	0.09	1	0.09	U	0.09	1	0.09	U	0.09	1	0.09	U	0.09	1	0.09	U	0.09	1	0.09	U	0.09	1								
	Dichloroethene, trans-1,2-	0.04	0.6	100	0.04	U	0.04	1	0.04	U	0.04	1	0.04	U	0.04	1	0.04	U	0.04	1	0.04	U	0.04	1	0.04	U	0.04	1	0.04	U	0.04	1	0.04	U	0.04	1	0.04	U	0.04	1								
	Methylene chloride	0.2	2	5	0.2	U	0.2	1	0.2	U	0.2	1	0.2	U	0.2	1	0.2	U	0.2	1	0.2	U	0.2	1	0.2	U	0.2	1	0.2	U	0.2	1	0.2	U	0.2	1	0.2	U	0.2	1								
	Naphthalene	0.09	0.4	--																																												
	Tetrachloroethene	0.05	1.4	5	0.65	F	0.05	1	0.05	U	0.05	1	0.071	F	0.05	1	0.05	U	0.05	1	0.05	U	0.05	1	0.05	U	0.05	1	0.05	U	0.05	1	0.05	U	0.05	1	0.05	U	0.05	1								
	Toluene	0.06	1.1	1000	0.06	U	0.06	1	0.06	U	0.06	1	0.06	U	0.06	1	0.072	F	0.06	1	0.06	U	0.06	1	0.06	U	0.06	1	0.06	U	0.06	1	0.06	U	0.06	1	0.06	U	0.06	1								
	Trichloroethene	0.03	1	5	0.03	U	0.03	1	0.03	U	0.03	1	0.03	U	0.03	1	0.03	U	0.03	1	0.03	U	0.03	1	0.03	U	0.03	1	0.03	U	0.03	1	0.03	U	0.03	1	0.03	U	0.03	1								
	Vinyl chloride	0.03	1.1	2	0.03	U	0.03	1	0.03	U	0.03	1	0.03	U	0.03	1	0.03	U	0.03	1	0.03	U	0.03	1	0.03	U	0.03	1	0.03	U	0.03	1	0.03	U	0.03	1	0.03	U	0.03	1								
SW9056 (mg/L)	Bromide	0.031	0.5	--																																												
	Chloride	0.12	1	--																																												
	Fluoride	0.035	1	4																																												
	Nitrate	0.031	1	10																																												
	Phosphorus, Total Orthophosphate	0.041	1	--																																												
	Sulfate	1	5	--																																												

Table 4-1 June 2003 Quarterly Groundwater Detected Concentrations

Method	Water Comparison Criteria			CS-MW12-LGR				CS-MW12-BS				CS-MW12-CC				CS-MW16-LGR				CS-MW17-LGR				CS-MW17-LGR				CS-MW18-LGR				CS-MW19-LGR							
	Lab MDL	Lab RL	MCL	Result	Flag	SQL	DL	Result	Flag	SQL	DL	Result	Flag	SQL	DL	Result	Flag	SQL	DL	Result	Flag	SQL	DL	Result	Flag	SQL	DL	Result	Flag	SQL	DL	Result	Flag	SQL	DL				
Alkalinity, Bicarbonate	1.5	5	--																																				
Alkalinity, Total (as CaCO3)	0.85	10	--																																				
Barium	1.8	5	200	33.0		0.37	1	7.1		0.37	1	37.0		0.37	1	38.0		0.37	1	30.0		0.37	1	31.0		0.37	1	230.0		0.37	1	34.0		0.37	1				
Calcium	31	1100	--																																				
Chromium	0.74	10	100	2.1	U	2.1	1	2.1	U	2.1	1	2.1	U	2.1	1	2.1	U	2.1	1	2.1	U	2.1	1	2.1	U	2.1	1	14.0		2.1	1	2.6	F	2.1	1				
Copper	0.76	10	1300	2.2	F	0.97	1	1.3	F	0.97	1	1.8	F	0.97	1	1.2	F	0.97	1	0.97	U	0.97	1	0.97	U	0.97	1	0.97	U	0.97	1	0.97	U	0.97	1				
Iron	13	200	--																																				
Magnesium	24	100	--																																				
Manganese	0.49	3	--																																				
Nickel	1.7	10	100	5.6	F	4.2	1	11		4.2	1	4.2	U	4.2	1	4.2	U	4.2	1	4.2	U	4.2	1	39.0		4.2	1	38.0		4.2	1	6.6	F	4.2	1	85		4.2	1
Potassium	490	1000	--																																				
Sodium	26	1000	--																																				
Zinc	6.8	10	11000	31.0		3.6	1	18.0		3.6	1	20.0		3.6	1	330.0		3.6	1	11.0		3.6	1	17.0		3.6	1	3.6	U	3.6	1	35.0		3.6	1				
Arsenic	0.061	5	50	0.46	F	0.12	1	3.0	F	0.12	1	1.9	F	0.12	1	0.4	F	0.12	1	0.81	F	0.12	1	0.7	F	0.12	1	0.78	F	0.12	1	0.65	F	0.12	1				
Cadmium	0.022	1	3	0.051	U	0.051	1	0.051	U	0.051	1	0.051	U	0.051	1	0.051	U	0.051	1	0.052	F	0.051	1	0.066	F	0.051	1	0.051	U	0.051	1	0.051	U	0.051	1				
Lead	0.15	2	15	0.19	U	0.19	1	0.19	U	0.19	1	0.19	U	0.19	1	0.19	U	0.19	1	0.19	U	0.19	1	0.19	U	0.19	1	0.19	U	0.19	1	0.19	U	0.19	1				
Mercury	0.015	1	2	0.035	F	0.015	1	0.032	F	0.015	1	0.04	F	0.015	1	0.015	U	0.015	1	0.015	U	0.015	1	0.015	U	0.015	1	0.015	U	0.015	1	0.015	U	0.015	1				
Acetone	24	200	--																																				
Butanone, 2-	24	50	--																																				
Chloroform	0.05	0.4	100	0.05	U	0.05	1	0.05	U	0.05	1	0.05	U	0.05	1	0.05	U	0.05	1	0.05	U	0.05	1	0.05	U	0.05	1	0.05	U	0.05	1	0.05	U	0.05	1				
Chloromethane	0.06	1.3	--																																				
Dichloroethene, cis-1,2-	0.09	1.2	70	0.09	U	0.09	1	0.09	U	0.09	1	0.09	U	0.09	1	15.0		0.09	1	0.09	U	0.09	1	0.09	U	0.09	1	0.09	U	0.09	1	0.09	U	0.09	1				
Dichloroethene, trans-1,2-	0.04	0.6	100	0.04	U	0.04	1	0.04	U	0.04	1	0.04	U	0.04	1	0.04	U	0.04	1	0.04	U	0.04	1	0.04	U	0.04	1	0.04	U	0.04	1	0.04	U	0.04	1				
Methylene chloride	0.2	2	5	0.2	U	0.2	1	0.2	U	0.2	1	0.2	U	0.2	1	0.2	U	0.2	1	0.2	U	0.2	1	0.2	U	0.2	1	1.7	F	0.2	1	0.2	U	0.2	1				
Naphthalene	0.09	0.4	--	0.09	U	0.09	1	0.36	F	0.09	1	0.09	U	0.09	1	0.09	U	0.09	1	0.09	U	0.09	1	0.09	U	0.09	1	0.09	U	0.09	1	0.09	U	0.09	1				
Tetrachloroethene	0.05	1.4	5	0.05	U	0.05	1	0.05	U	0.05	1	0.05	U	0.05	1	18.0		0.05	1	0.19	F	0.05	1	0.18	F	0.05	1	0.05	U	0.05	1	0.3	F	0.05	1				
Toluene	0.06	1.1	1000	0.06	U	0.06	1	0.31	F	0.06	1	0.82	F	0.06	1	0.06	U	0.06	1	0.06	U	0.06	1	0.06	U	0.06	1	0.06	U	0.06	1	0.06	U	0.06	1				
Trichloroethene	0.03	1	5	0.03	U	0.03	1	0.03	U	0.03	1	0.03	U	0.03	1	18.0		0.03	1	0.03	U	0.03	1	0.03	U	0.03	1	0.03	U	0.03	1	0.03	U	0.03	1				
Vinyl chloride	0.03	1.1	2	0.03	U	0.03	1	0.14	F	0.03	1	0.03	U	0.03	1	0.03	U	0.03	1	0.03	U	0.03	1	0.03	U	0.03	1	0.03	U	0.03	1	0.03	U	0.03	1				
Bromide	0.031	0.5	--																																				
Chloride	0.12	1	--																																				
Fluoride	0.035	1	4																																				
Nitrate	0.031	1	10																																				
Phosphorus, Total Orthophosphate	0.041	1	--																																				
Sulfate	1	5	--																																				

Tables present all laboratory results for analytes detected above the method detection limit. Results from all laboratory analysis are presented in Appendix B. All samples were analyzed by Severn Trent Laboratories (STL).

Abbreviations/Notes:
 -- = No risk reduction standard or background level available
 FD = Field Duplicate
 MDL = Method Detection Limit
 N = Environmental Sample
 RL = Reporting Limit
 SQL = Sample Quantitation Limit
 MCL = Maximum Contamination Level
 DL = Dilution

Data Qualifiers:
 F - The analyte was positively identified but the associated numerical value is below the RL.
 J - The analyte was positively identified, the quantitation is an estimation.
 U - The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL.
 M - Matrix Effect Present
 B - The analyte was found in an associated blank, as well as in the sample.
 Bolded results indicate the analyte was detected.
 Bolded and boxed results indicate results > RL.
 Bolded and shaded results indicate results > MCL.