

CHEDOKE CREEK	CC SW1 - 2022		CC SW1 - 2023		CC SW2 - 2022		CC SW2 - 2023		CC SW3 - EAST 2022		CC SW3 - EAST 2023		CC SW3 - WEST 2023		CC SW5 - 2022		CC SW5 - 2023		
	10 Samples Collected		12 Samples Collected		10 Samples Collected		12 Samples Collected		11 Samples Collected		11 Samples Collected		3 Samples Collected		12 Samples Collected		13 Samples Collected		
	RANGE	AVERAGE	RANGE	AVERAGE	RANGE	AVERAGE	RANGE	AVERAGE	RANGE	AVERAGE	RANGE	AVERAGE	RANGE	AVERAGE	RANGE	AVERAGE	RANGE	AVERAGE	
Ammonia + Ammonium as N (mg/L)	0.05 - 1.41	0.65	0.01 - 1.94	0.62	0.17 - 1.67	0.65	0.01 - 1.38	0.42	< 0.01 - 0.62	0.09	0.02 - 0.22	0.07	0.01 - 0.04	0.027	< 0.01 - 0.21	0.04	< 0.01 - 0.07	0.022	
Carbonaceous Biochemical Oxygen Demand (mg/L)	< 2.0 - 10.0	4.0	< 2.0 - 16	4.8	< 2.0 - 18.0	5.0	< 2.0 - 16	4.92	< 2.0 - 7.0	3.00	< 2.0 - 37	5.17	< 2.0 - < 3.0	< 2.3	< 2.0 - < 3.0	< 2.0	< 2.0 - 4.0	2.2	
Chloride (mg/L)	125 - 893	314	132 - 983	281.92	107 - 704	302	194 - 947	314.83	132 - 699	352.00	87.4 - 860	350.45	237 - 345	292.33	125 - 579	293	48.7 - 608	259.75	
Dissolved o-Phosphate as P (mg/L)			< 0.05 - 0.17	0.142			< 0.05 - 0.22	0.16			0.08 - 0.49	0.299	0.22 - 0.32	0.28			0.07 - 0.33	0.25	
Dissolved Oxygen - Field (mg/L)	4.0 - 12.6	8.90	4.31 - 14.6	9.25	2.9 - 13.40	8.53	4.37 - 17.2	10.84	7.3 - 15.8	12.03	7.34 - 19.51	11.96	8.45 - 12.13	9.84	8.0 - 14.9	11.30	8.71 - 13.6	11.02	
Escherichia coli (MPN/100mL)	3 - 280000	29842	20 - 26100	4945.5	38 - 133000	17540	24 - 8660	2587.67	148 - 27600	4552.00	100 - 43500	5783.00	99 - 3650	1913	220 - 5170	1422	160 - 15000	1857.15	
Nitrate as N (mg/L)	0.52 - 2.99	1.68	< 0.1 - 2.59	1.44	1.27 - 3.17	2.19	< 0.1 - 3.1	1.86	1.64 - 3.45	2.62	0.45 - 4.38	2.62	2.67 - 3.67	3.11	0.29 - 3.39	2.44	1.0 - 4.16	2.71	
Nitrite as N (mg/L)	< 0.05 - 0.10	0.06	< 0.05 - 0.13	0.06	< 0.05 - 0.10	0.06	< 0.05 - 0.11	0.059	< 0.05 - 0.10	0.06	< 0.05 - < 0.1	< 0.055	< 0.05	< 0.05	< 0.05 - < 0.10	< 0.05	< 0.05 - < 0.1	0.058	
O-Phosphate as P (mg/L)	< 0.05 - 0.30	0.16	< 0.05 - 0.20	0.09	< 0.05 - 0.45	0.24	< 0.05 - 0.24	0.117	0.15 - 0.47	0.31	0.06 - 0.43	0.23	0.22 - 0.31	0.277	0.13 - 0.45	0.28	0.07 - 0.33	0.219	
Phosphorus Total (mg/L)	0.101 - 0.417	0.283	0.101 - 0.319	0.202	0.121 - 0.686	0.356	0.122 - 0.445	0.255	0.165 - 0.523	0.34	0.166 - 0.659	0.35	0.312 - 0.354	0.337	0.134 - 0.510	0.301	0.093 - 0.369	0.259	
Total Kjeldahl Nitrogen (mg/L)	0.8 - 1.9	1.30	0.7 - 2.4	1.43	0.5 - 3.3	1.30	0.6 - 3.3	1.33	< 0.20 - 1.90	0.47	0.3 - 3.1	0.81	0.2 - 2.3	0.90	< 0.20 - 0.60	0.30	< 0.2 - 1.2	0.33	
Total Suspended Solids (mg/L)	4.2 - 48.0	18.4	4.9 - 49.1	21.63	2.1 - 83.5	20.2	2.9 - 65.6	22.37	1.6 - 30.2	5.60	1.4 - 119	25.97	< 2.0 - 12.2	5.73	1.6 - 78.2	12.6	< 1.0 - 58.9	14.3	
Un-ionized Ammonia as NH3 at Field Temp. (ug/L)	4.2 - 44.9	19.5	< 0.9 - 32.6	13.6	6.8 - 48.4	21.0	3.2 - 27.5	13.06	1.6 - 53.4	8.10	1.2 - 15.5	4.47	0.7 - 0.7				< 0.2 - 2.0	0.646	
Metals:																			
Aluminum (mg/L)	0.152 - 1.180	0.438	0.111 - 0.895	0.512	0.062 - 2.490	0.568	0.07 - 1.45	0.4370	0.046 - 0.936	0.1670	0.037 - 3.27	0.6760	0.019 - 0.523	0.2243	0.018 - 0.498	0.174	0.023 - 1.59	0.428	
Cobalt (mg/L)			0.002 - 0.0009	0.00048			0.0002 - 0.0013	0.0004			0.0001 - 0.0015	0.0004	0.0001 - 0.0003	0.0002			< 0.0001 - 0.001	0.00043	
Copper (mg/L)	0.0022 - 0.0081	0.004	0.002 - 0.0065	0.00387	0.0022 - 0.0210	0.005	0.0023 - 0.0083	0.0039	0.0024 - 0.0137	0.0042	0.0027 - 0.0163	0.0051	0.0035 - 0.0053	0.0042	0.0019 - 0.0053	0.003	0.0019 - 0.0095	0.0035	
Iron (mg/L)			0.3 - 1.28	0.750			0.332 - 1.44	0.6460			0.114 - 3.49	0.8070	0.091 - 0.587	0.2943			0.063 - 2.02	0.051	
Lead (mg/L)	0.0007 - 0.0026	0.001	0.0004 - 0.0042	0.002	0.0002 - 0.0059	0.002	0.0003 - 0.0071	0.0016	0.0002 - 0.0026	0.0005	0.0002 - 0.0124	0.0022	0.0001 - 0.0018	0.00077	0.0002 - 0.0043	0.001	0.0002 - 0.0106	0.0020	
Nickel (mg/L)			0.0015 - 0.0044	0.002			0.0014 - 0.0063	0.0021			0.0013 - 0.0045	0.0020	0.0011 - 0.0014	0.0012			0.0009 - 0.0035	0.0015	
Zinc (mg/L)	0.010 - 0.067	0.032	0.009 - 0.064	0.027	0.014 - 0.118	0.038	0.012 - 0.071	0.0311	0.011 - 0.076	0.0310	0.015 - 0.113	0.0432	0.013 - 0.019	0.0160	0.018 - 0.042	0.030	0.016 - 0.087	0.035	

CHEDOKE CREEK	CC SW7 - 2022		CC SW7 - 2023		CC SW8 - 2022		CC SW8 - 2023		CC SW9 - 2022		CC SW9 - 2023		CC SW10 - 2022		CC SW10 - 2023	
	11 Samples Collected		12 Samples Collected		4 Samples Collected		9 Samples Collected		10 Samples Collected		12 Samples Collected		10 Samples Collected		12 Samples Collected	
	RANGE	AVERAGE	RANGE	AVERAGE	RANGE	AVERAGE	RANGE	AVERAGE	RANGE	AVERAGE	RANGE	AVERAGE	RANGE	AVERAGE	RANGE	AVERAGE
Ammonia + Ammonium as N (mg/L)	< 0.01 - 0.29	0.06	< 0.01 - 0.23	0.033	< 0.01 - 0.20	0.08	< 0.01 - 0.03	0.016	0.01 - 0.94	0.38	0.05 - 1.26	0.36	0.01 - 0.55	0.14	< 0.01 - 0.15	0.05
Carbonaceous Biochemical Oxygen Demand (mg/L)	< 2.0 - < 3.0	< 2.0	< 2.0 - < 3.0	< 2.1	< 2.0 - < 3.0	< 2.0	< 2.0 - < 3.0	< 2.25	< 2.0 - < 3.0	< 2.0	< 2.0 - 5.0	2.5	< 2.0 - < 3.0	< 2.0	< 2.0 - < 3.0	< 2.08
Chloride (mg/L)	186 - 1030	396	210 - 1070	371.58	103 - 951	633	42.8 - 965	349.85	138 - 426	251	97.4 - 889	264	106 - 453	273	150 - 828	327
Dissolved o-Phosphate as P (mg/L)			0.08 - 0.28	0.23			< 0.05	< 0.05			0.1 - 0.86	0.49			< 0.05 - 0.25	0.094
Dissolved Oxygen - Field (mg/L)	6.7 - 14.5	10.70	7.6 - 13.1	10.20	7.8 - 15.5	12.20	8.66 - 14.4	11.06	7.1 - 14.1	9.90	6.68 - 12.28	9.74	1.4 - 14.4	7.90	3.16 - 14.1	8.72
Escherichia coli (MPN/100mL)	470 - 8660	3186	580 - 15500	3894.17	109 - 7200	1928	5 - 50000	7488.75	2600 - 28000	12877	900 - 98000	26890.83	6 - 1050	213	1.0 - 308	74.5
Nitrate as N (mg/L)	1.95 - 4.10	2.71	1.92 - 3.77	2.58	1.05 - 1.56	1.31	0.41 - 2.02	1.33	2.73 - 7.83	5.58	2.58 - 8.57	4.73	0.15 - 0.94	0.41	0.14 - 1.16	0.43
Nitrite as N (mg/L)	< 0.05 - 0.10	0.06	< 0.05 - < 0.1	< 0.057	< 0.05 - < 0.05	< 0.05	< 0.05 - 0.40	0.19	< 0.05 - 0.40	0.19	< 0.05 - 0.48	0.15	< 0.05 - < 0.10	< 0.05	< 0.05 - < 0.10	< 0.05
O-Phosphate as P (mg/L)	0.11 - 0.47	0.25	0.07 - 0.32	0.194	< 0.05 - 0.06	0.05	< 0.05 - 0.13	0.06	0.13 - 0.87	0.48	0.11 - 0.86	0.46	< 0.05 - 0.27	0.07	< 0.05 - 0.27	0.068
Phosphorus Total (mg/L)	0.115 - 0.498	0.257	0.135 - 0.37	0.230	0.032 - 0.164	0.078	0.03 - 0.302	0.112	0.130 - 0.913	0.515	0.144 - 0.953	0.531	0.017 - 0.388	0.085	0.032 - 0.83	0.121
Total Kjeldahl Nitrogen (mg/L)	< 0.2 - 0.6	0.30	< 0.2 - 0.6	0.33	0.2 - 0.8	0.50	< 0.2 - 1.0	0.44	0.4 - 1.7	1.00	0.3 - 2.1	0.92	< 0.2 - 1.3	0.40	< 0.2 - 1.3	0.69
Total Suspended Solids (mg/L)	2.0 - 8.8	5.4	4.2 - 34.1	15.3	4.4 - 63.8	22.6	4.3 - 184	54.8	1.0 - 21.4	5.1	1.6 - 26.6	9.18	0.8 - 39.0	5.3	< 1.0 - 6.0	2.51
Un-ionized Ammonia as NH3 at Field Temp. (ug/L)	0.5 - 6.1	1.5	< 0.2 - 5.0	0.775	< 0.4 - 2.8	1.3	< 0.2 - 0.8	0.4	0.4 - 22.7	10.1	1.2 - 15.9	6.72	0.1 - 2.2	0.9	< 0.2 - 3.6	0.683
Metals:																
Aluminum (mg/L)	0.050 - 0.320	0.169	0.08 - 1.15	0.502	0.179 - 3.000	1.083	0.24 - 9.09	2.815	0.017 - 0.447	0.102	0.024 - 0.381	0.151	0.006 - 0.165	0.037	0.007 - 0.04	0.0185
Cobalt (mg/L)			0.0001 - 0.0006	0.00033			0.0002 - 0.0043	0.0013			0.0001 - 0.0004	0.00018			< 0.0001 - 0.0001	0.0001
Copper (mg/L)	0.0030 - 0.0050	0.004	0.0031 - 0.0058	0.0043	0.0020 - 0.0093	0.004	0.0022 - 0.0186	0.0071	0.0027 - 0.0075	0.004	0.0028 - 0.0111	0.005	0.0008 - 0.0099	0.002	0.0011 - 0.0144	0.0025
Iron (mg/L)			0.116 - 1.08	0.501			0.318 - 11.7	3.454			0.04 - 0.641	0.217			0.036 - 0.438	0.149
Lead (mg/L)	0.0001 - 0.0006	0.0003	0.0003 - 0.0018	0.00083	0.0004 - 0.0052	0.002	0.0006 - 0.0151	0.004	0.0004 - 0.0023	0.001	0.0003 - 0.0026	0.0011	< 0.0001 - 0.0015	0.000	0.0001 - 0.0006	0.0006
Nickel (mg/L)			0.0011 - 0.0021	0.00145			0.0012 - 0.0114	0.0042			0.001 - 0.0023	0.0016			0.0004 - 0.0009	0.0006
Zinc (mg/L)	0.010 - 0.039	0.020	0.014 - 0.04	0.027	0.014 - 0.070	0.039	0.018 - 0.142	0.051	0.124 - 0.251	0.175	0.098 - 0.334	0.159	0.015 - 0.114	0.050	0.025 - 0.065	0.0447

The 2022 Average data has been calculated using 0.0 instead of the laboratory's Method Detection Limit (MDL) (< 2.0 becomes 0.0 for MDL calculation)

The 2023 Average data has been calculated using the laboratory's MDL (< 2.0 becomes 2.0 for MDL calculation)

*Wet vs Dry sampling events have not been separated; averages are combined.

BATTLEFIELD CREEK 2022 & 2023	BatC SW1 - 2022		BatC SW1 - 2023		BatC SW2 - 2022		BatC SW2 - 2023		BatC SW3 - 2023	
	12 Samples Collected		12 Samples Collected		10 Samples Collected		12 Samples Collected		2 Samples Collected	
	RANGE	AVERAGE	RANGE	AVERAGE	RANGE	AVERAGE	RANGE	AVERAGE	RANGE	AVERAGE
Ammonia + Ammonium as N (mg/L)	0.06 - 5.28	1.02	0.07 - 0.31	0.162	< 0.01 - 0.06	0.02	< 0.01 - 0.05	0.015	< 0.01 - 0.06	0.035
Carbonaceous Biochemical Oxygen Demand (mg/L)	< 2.0 - 10.0	4.0	< 2.0 - 6.0	2.7	< 1.0 - 3.0	2.0	< 2.0 - 3.0	2.1	< 2.0 - 2.0	2.0
Chloride (mg/L)	59.6 - 8881	292.9	22 - 300	168.5	90.5 - 414	258.3	80.2 - 691	220.3	83.7 - 287	185.4
Dissolved o-Phosphate as P (mg/L)			< 0.05 - 0.52	0.216			< 0.05 - 0.12	0.06	0.06 - 0.12	0.09
Dissolved Oxygen - Field (mg/L)	4.3 - 14.6	8.4	5.39 - 14.2	10.17	4.1 - 15.4	9.8	3.04 - 15.1	10.7	12.3 - 12.94	12.62
Escherichia coli (MPN/100mL)	300 - 517000	80475	122 - 38700	7564.92	4 - 31000	4457	39 - 10200	1345	299 - 921	610
Nitrate as N (mg/L)	0.41 - 1.51	0.99	0.49 - 1.73	1.09	0.15 - 2.64	0.76	0.1 - 1.89	0.715	0.52 - 2.33	1.425
Nitrite as N (mg/L)	< 0.05 - 0.18	0.1	< 0.05 - 0.32	0.089	< 0.05 - < 0.10	0.07	< 0.05 - < 0.05	< 0.05	< 0.05 - < 0.05	< 0.05
O-Phosphate as P (mg/L)	< 0.05 - 0.93	0.3	< 0.05 - 0.52	0.199	< 0.05 - 0.08	0.06	< 0.05 - 0.12	0.06	0.06 - 0.11	0.085
Phosphorus Total (mg/L)	0.059 - 1.060	0.389	0.115 - 0.582	0.264	< 0.010 - 0.175	0.066	0.015 - 0.219	0.093	0.146 - 0.193	0.17
Total Kjeldahl Nitrogen (mg/L)	0.4 - 6.2	1.7	0.5 - 2.1	0.78	< 0.2 - 0.9	0.4	0.2 - 1	0.58	0.8 - 0.8	0.8
Total Suspended Solids (mg/L)	2.0 - 129.2	18.2	1.2 - 45.2	10.58	1.8 - 52.8	12.1	2.5 - 90	15.3	8.2 - 11.2	9.7
Un-ionized Ammonia as NH3 at Field Temp. (ug/L)	1.3 - 122.0	20.7	1 - 7.4	3.23	< 0.2 - 1.1	0.5	< 0.1 - 0.7	0.275	0.1 - 0.3	0.2
Metals:										
Aluminum (mg/L)	0.026 - 2.560	0.472	0.049 - 2.34	0.543	0.026 - 2.200	0.51	0.088 - 2.92	0.953	0.751 - 1.99	1.37
Cobalt (mg/L)			0.001 - 0.0008	0.00024			< 0.0001 - 0.0013	0.00037	0.0005	0.0005
Copper (mg/L)	0.0024 - 0.0141	0.0050	0.0022 - 0.0089	0.0039	0.0019 - 0.0086	0.0033	0.0019 - 0.0075	0.0033	0.0029 - 0.0031	0.003
Iron (mg/L)			0.125 - 2.32	0.5930			0.087 - 3.12	0.844	1.12 - 1.55	1.335
Lead (mg/L)	0.0002 - 0.0094	0.0018	0.0003 - 0.0052	0.0017	0.0001 - 0.0051	0.0013	0.0001 - 0.0048	0.0013	0.002 - 0.0034	0.0027
Nickel (mg/L)			0.0009 - 0.0027	0.0013			0.0007 - 0.0038	0.0017	0.0021 - 0.0023	0.0022
Zinc (mg/L)	0.007 - 0.069	0.021	0.007 - 0.052	0.02	0.002 - 0.035	0.011	0.002 - 0.031	0.011	0.02 - 0.027	0.0235

The 2022 Average data has been calculated using 0.0 instead of the laboratory's Method Detection Limit (MDL) (< 2.0 becomes 0.0 for MDL calculation)

The 2023 Average data has been calculated using the laboratory's MDL (< 2.0 becomes 2.0 for MDL calculation)

*Wet vs Dry sampling events have not been separated; averages are combined.

STONE CREEK 2023	StoC SW1		StoC SW2		StoC SW3	
	3 Samples Collected		3 Samples Collected		2 Samples Collected	
	RANGE	AVERAGE	RANGE	AVERAGE	RANGE	AVERAGE
Ammonia + Ammonium as N (mg/L)	0.23 - 0.28	0.26	0.01 - 0.15	0.09	0.02 - 0.02	0.02
Carbonaceous Biochemical Oxygen Demand (mg/L)	2.0 - 4.0	3.3	< 2.0 - 4.0	2.7	< 2.0 - < 2.0	2.0
Chloride (mg/L)	56.1 - 187	109.2	64 - 152	102.5	84.7 - 140	112.35
Dissolved o-Phosphate as P (mg/L)	0.12 - 0.37	0.22	0.10 - 0.13	0.11	0.06 - 0.12	0.09
Dissolved Oxygen - Field (mg/L)	5.09 - 11.64	8.6	2.34 - 13.82	9.52	12.66 - 12.9	12.78
Escherichia coli (MPN/100mL)	70 - 9800	3427	145 - 5750	2071.67	88 - 461	274.2
Nitrate as N (mg/L)	0.16 - 0.95	0.623	< 0.1 - 1.52	0.643	< 0.1 - 1.51	0.805
Nitrite as N (mg/L)	< 0.05 - < 0.05	< 0.05	< 0.05 - < 0.05	> 0.05	< 0.05 - < 0.05	> 0.05
O-Phosphate as P (mg/L)	0.11 - 0.40	0.23	0.07 - 0.16	0.113	0.06 - 0.17	0.115
Phosphorus Total (mg/L)	0.19 - 0.525	0.354	0.138 - 0.286	0.204	0.078 - 0.304	0.191
Total Kjeldahl Nitrogen (mg/L)	0.7 - 1.2	0.93	0.4 - 1.0	0.667	0.7 - 1.4	1.05
Total Suspended Solids (mg/L)	11.4 - 29.8	19.4	6.2 - 13.8	10.53	1.0 - 10	5.5
Un-ionized Ammonia as NH3 at Field Temp. (ug/L)	4.5 - 17.3	10.5	0.1 - 3.4	1.73	0.1 - 0.2	0.15
Metals:						
Aluminum (mg/L)	0.32 - 3.76	1.496	0.43 - 5.54	2.184	0.085 - 6.49	3.288
Cobalt (mg/L)	0.0002 - 0.0012	0.00057	0.0002 - 0.0012	0.0006	0.0001 - 0.0014	0.00075
Copper (mg/L)	0.0024 - 0.0084	0.0053	0.0019 - 0.0059	0.0042	0.0008 - 0.006	0.0034
Iron (mg/L)	0.578 - 3.59	1.6220	0.58 - 4.38	1.877	0.147 - 5.09	2.62
Lead (mg/L)	0.0019 - 0.0041	0.0028	0.0013 - 0.0025	0.0021	0.0001 - 0.0027	0.0014
Nickel (mg/L)	0.0013 - 0.0040	0.0024	0.001 - 0.0047	0.0025	0.0008 - 0.0053	0.0031
Zinc (mg/L)	0.009 - 0.042	0.025	0.008 - 0.033	0.022	0.002 - 0.027	0.015

The 2022 Average data has been calculated using 0.0 instead of the laboratory's Method Detection Limit (MDL) (< 2.0 becomes 0.0 for MDL calculation)

The 2023 Average data has been calculated using the laboratory's MDL (< 2.0 becomes 2.0 for MDL calculation)

*Wet vs Dry sampling events have not been separated; averages are combined.

RED HILL VALLEY - 2022 & 2023	RHV SW1 - 2022		RHV SW1 - 2023		RHV SW2 - 2022		RHV SW2 - 2023		RHV SW3 - 2022		RHV SW3 - 2023		RHV SW4 - 2022		RHV SW4 - 2023	
	9 Samples Collected		10 Samples Collected		10 Samples Collected		12 Samples Collected		10 Samples Collected		12 Samples Collected		11 Samples Collected		12 Samples Collected	
	RANGE	AVERAGE	RANGE	AVERAGE	RANGE	AVERAGE	RANGE	AVERAGE	RANGE	AVERAGE	RANGE	AVERAGE	RANGE	AVERAGE	RANGE	AVERAGE
Ammonia + Ammonium as N (mg/L)	0.03 - 9.43	2.41	0.03 - 23	3.49	0.08 - 7.00	2.34	0.07 - 4.76	0.876	0.01 - 0.13	0.06	0.01 - 0.22	0.048	< 0.01 - 0.13	0.04	< 0.01 - 0.22	0.0375
Carbonaceous Biochemical Oxygen Demand (mg/L)	< 2.0 - 4.0	3.0	< 2.0 - 6.0	2.6	< 2.0 - 5.0	4.0	< 2.0 - 3.0	2.3	< 2.0 - 5.0	3.0	< 2.0 - 4.0	2.2	< 2.0 - 5.0	2.0	< 2.0 - 3.0	2.2
Chloride (mg/L)	95.7 - 308	193.3	93 - 284	186.3	132 - 404	240	89.2 - 335	219.68	44.9 - 468	286.1	55.7 - 506	246.44	37.2 - 567	341.3	49.4 - 556	286.95
Dissolved o-Phosphate as P (mg/L)			< 0.05 - 0.09	0.054			< 0.05 - 0.13	0.066			< 0.05 - 0.08	0.055			< 0.05 - 0.07	0.053
Dissolved Oxygen - Field (mg/L)	4.0 - 11.1	7.2	6.21 - 13.9	8.458	4.2 - 9.0	6.3	5.25 - 11.97	8.93	6.8 - 13.4	10.1	5.9 - 14.5	10.2	8.2 - 15.4	11.3	9.25 - 14.5	11.835
Escherichia coli (MPN/100mL)	5.0 - 7700	2178	121 - 120000	15350.5	10 - 17300	3159	15 - 13000	2599.5	110 - 14100	3424	130 - 9000	1888.58	100 - 9210	2613	225 - 9900	2224.33
Nitrate as N (mg/L)	3.74 - 21.40	12.06	2.98 - 22.3	12.758	6.50 - 18.00	14.1	5.25 - 22.7	15.25	0.11 - 1.48	0.75	0.32 - 2.24	1.08	0.10 - 1.64	0.85	0.41 - 2.45	1.23
Nitrite as N (mg/L)	0.07 - 2.07	0.45	< 0.05 - 0.65	0.23	0.06 - 1.13	0.39	< 0.05 - 0.52	0.23	< 0.05 - < 0.10	0.07	< 0.05 - < 1.0	0.054	< 0.05 - < 0.10	0.07	< 0.05 - < 0.10	0.054
O-Phosphate as P (mg/L)	< 0.05 - 0.47	0.17	< 0.05 - 0.09	0.055	0.06 - 0.41	0.18	< 0.05 - 0.14	0.07	< 0.05 - 0.10	0.06	< 0.05 - 0.07	0.05	0.05 - 0.06	0.05	< 0.05 - 0.07	0.0525
Phosphorus Total (mg/L)	0.092 - 0.597	0.291	0.059 - 0.337	0.172	0.213 - 0.626	0.405	0.064 - 0.356	0.186	0.034 - 0.164	0.104	0.033 - 0.199	0.078	0.018 - 0.247	0.08	0.022 - 0.158	0.055
Total Kjeldahl Nitrogen (mg/L)	1.0 - 10.2	3.1	0.6 - 21.5	3.99	1.0 - 9.0	3.4	0.6 - 5.9	1.625	0.4 - 1.0	0.6	0.2 - 1.0	0.417	< 0.2 - 1.4	0.4	< 0.2 - 0.7	0.317
Total Suspended Solids (mg/L)	2.8 - 27.8	9.8	2.2 - 30.4	8.45	3.4 - 20.8	12.6	2.4 - 35.8	8.95	2.4 - 38.4	14.5	< 1.0 - 79.4	10.2	< 1.0 - 135.0	21.8	< 1.0 - 54.6	6.675
Un-ionized Ammonia as NH3 at Field Temp. (ug/L)	7.5 - 44.9	17.1	0.6 - 236	41.27	0.2 - 39.9	13.2	0.5 - 65.3	9.43	0.3 - 8.4	2.9	0.2 - 4.8	1	< 0.2 - 4.2	1.8	< 0.2 - 6.2	1.008
Metals:																
Aluminum (mg/L)	0.034 - 0.586	0.16	0.067 - 0.511	0.16	0.035 - 0.404	0.158	0.071 - 0.752	0.163	0.071 - 1.420	0.436	0.05 - 1.69	0.315	0.031 - 2.270	0.628	0.016 - 1.53	0.235
Cobalt (mg/L)			0.0001 - 0.0011	0.00067			0.0005 - 0.0009	0.00072			< 0.0001 - 0.0009	0.0002			< 0.0001 - 0.0007	0.00015
Copper (mg/L)	0.0020 - 0.0074	0.0038	0.0016 - 0.0054	0.0037	0.0039 - 0.0061	0.0049	0.0023 - 0.008	0.0042	0.0021 - 0.0076	0.0037	0.0022 - 0.0087	0.0033	0.0014 - 0.0110	0.0039	0.0018 - 0.0079	0.00268
Iron (mg/L)			0.131 - 1.64	0.8458			0.573 - 1.65	0.912			0.09 - 2.05	0.36			0.028 - 1.78	0.256
Lead (mg/L)	0.0002 - 0.0024	0.0008	0.0004 - 0.002	0.00083	0.0030 - 0.0013	0.0007	0.003 - 0.0027	0.00084	0.0003 - 0.0034	0.0012	0.0002 - 0.0054	0.0009	0.0002 - 0.0084	0.0017	< 0.0001 - 0.0042	0.00058
Nickel (mg/L)			0.0014 - 0.0044	0.0032			0.0024 - 0.0052	0.0036			0.001 - 0.003	0.0015			0.0008 - 0.0027	0.00138
Zinc (mg/L)	0.006 - 0.046	0.022	0.007 - 0.044	0.0269	0.025 - 0.040	0.031	0.018 - 0.058	0.03375	0.010 - 0.076	0.032	0.008 - 0.089	0.0335	0.008 - 0.164	0.05	0.008 - 0.095	0.0397

RED HILL VALLEY - 2022 & 2023	RHV SWS - 2023		UO SW1 - 2022		UO SW1 - 2023		HC SW1 - 2023		UDC SW1 - 2023		UDC SW2 - 2023	
	3 Samples Collected		12 Samples Collected		13 Samples Collected		3 Samples Collected		3 Samples Collected		3 Samples Collected	
	RANGE	AVERAGE	RANGE	AVERAGE	RANGE	AVERAGE	RANGE	AVERAGE	RANGE	AVERAGE	RANGE	AVERAGE
Ammonia + Ammonium as N (mg/L)	0.02 - 0.04	0.0267	0.03 - 0.38	0.13	0.01 - 0.50	0.105	0.05 - 1.38	0.723	0.02 - 0.26	0.15	0.04 - 0.30	0.207
Carbonaceous Biochemical Oxygen Demand (mg/L)	< 2.0 - < 2.0	< 2	< 2.0 - 7.0	3.0	< 2.0 - 4.0	2.2	< 2.0 - 3.0	2.3	< 2.0 - < 2.0	< 2	< 2.0 - 4.0	2.7
Chloride (mg/L)	136 - 229	184.67	50.9 - 814	418.2	29.9 - 1540	410.92	200 - 1100	513	171 - 1120	490	110 - 1030	433
Dissolved o-Phosphate as P (mg/L)	0.05 - 0.05	0.05			< 0.05 - 0.13	0.091	0.06 - 0.16	0.116	< 0.05 - 0.05	0.05	< 0.05 - 0.12	0.073
Dissolved Oxygen - Field (mg/L)	9.02 - 11.70	10.76	7.1 - 13.9	11.3	8.73 - 18.90	12.38	8.84 - 10.9	10.02	11.67 - 12.66	12.11	7.54 - 11.5	9.42
Escherichia coli (MPN/100mL)	179 - 980	579.33	100 - 36500	10072	248 - 12000	4486.77	280 - 43500	19293.3	172 - 2600	1117	280 - 4600	2596.67
Nitrate as N (mg/L)	0.42 - 1.21	0.807	0.49 - 1.69	1.22	0.48 - 2.85	1.635	0.53 - 1.49	0.873	0.56 - 1.13	0.807	< 0.10 - 1.07	0.477
Nitrite as N (mg/L)	< 0.05 - < 0.05	< 0.05	< 0.05 - < 0.10	0.07	< 0.05 - 0.07	0.053	< 0.05 - 0.06	0.057	< 0.05 - < 0.05	< 0.05	< 0.05 - 0.07	0.03
O-Phosphate as P (mg/L)	< 0.05 - 0.07	0.06	0.05 - 0.15	0.07	< 0.05 - 0.12	0.062	0.07 - 0.16	0.12	< 0.05 - 0.05	0.05	< 0.05 - 0.1	0.067
Phosphorus Total (mg/L)	0.065 - 0.091	0.0787	0.045 - 0.185	0.106	0.033 - 0.163	0.09	0.12 - 0.234	0.19	0.075 - 0.075	0.075	0.054 - 0.201	0.11
Total Kjeldahl Nitrogen (mg/L)	0.3 - 0.4	0.33	0.3 - 0.9	0.5	0.3 - 0.7	0.469	0.4 - 1.4	1.03	0.5 - 0.7	0.567	0.4 - 0.8	0.567
Total Suspended Solids (mg/L)	3.0 - 5.7	4.1	3.0 - 27.2	9.5	1.4 - 67	10.21	8 - 24.9	17.3	2.8 - 12.4	7.467	9.2 - 16.7	12.867
Un-ionized Ammonia as NH3 at Field Temp. (ug/L)	0.2 - 0.5	0.3	0.8 - 6.4	3.1	0.3 - 6.8	2.177	0.8 - 27	12.7	0.8 - 5.8	2.9	0.9 - 5.3	3.63
Metals:												
Aluminum (mg/L)	0.218 - 0.272	0.244	0.051 - 2.350	0.423	0.044 - 1.38	0.34	0.175 - 0.815	0.566	0.075 - 0.248	0.158	0.587 - 0.811	0.692
Cobalt (mg/L)	0.0001 - 0.0002	0.000167			0.0001 - 0.0007	0.000215	0.0003 - 0.0004	0.00037	< 0.0001 - 0.0002	0.000133	0.0004 - 0.0005	0.000467
Copper (mg/L)	0.0021 - 0.0026	0.0023	0.0016 - 0.0116	0.0036	0.0013 - 0.0108	0.00292	0.0011 - 0.0041	0.0025	0.002 - 0.0027	0.00237	0.0022 - 0.0038	0.0028
Iron (mg/L)	0.255 - 0.331	0.2840			0.066 - 1.87	0.389	0.335 - 1.01	0.73	0.099 - 0.286	0.1877	0.591 - 0.934	0.7640
Lead (mg/L)	0.0004 - 0.0006	0.00047	0.0004 - 0.0033	0.0012	0.0002 - 0.0051	0.00088	0.0004 - 0.0015	0.0011	0.0003 - 0.001	0.00063	0.0007 - 0.0016	0.00117
Nickel (mg/L)	0.0011 - 0.0012	0.00117			0.0023 - 0.0033	0.00277	0.0017 - 0.0025	0.0021	0.0024 - 0.0033	0.0028	0.0028 - 0.0030	0.0029
Zinc (mg/L)	0.007 - 0.015	0.011	0.049 - 0.242	0.145	0.075 - 0.189	0.143	0.047 - 0.078	0.061	0.071 - 0.136	0.105	0.049 - 0.07	0.105

The 2022 Average data has been calculated using 0.0 instead of the laboratory's Method Detection Limit (MDL) (< 2.0 becomes 0.0 for MDL calculation)

The 2023 Average data has been calculated using the laboratory's MDL (< 2.0 becomes 2.0 for MDL calculation)

*Wet vs Dry sampling events have not been separated; averages are combined.

ANCASTER CREEK	AC SW1 - 2022		AC SW1 - 2023		AC SW4 - 2022		AC SW4 - 2023	
	9 Samples Collected		12 Samples Collected		9 Samples Collected		12 Samples Collected	
	RANGE	AVERAGE	RANGE	AVERAGE	RANGE	AVERAGE	RANGE	AVERAGE
Ammonia + Ammonium as N (mg/L)	0.03 - 0.09	0.06	0.01 - 0.08	0.034	0.03 - 0.13	0.08	0.02 - 0.13	0.062
Carbonaceous Biochemical Oxygen Demand (mg/L)	< 1.0 - < 2.0	< 2.0	< 2.0 - < 2.0	< 2.0	< 1.0 - < 2.0	< 2.0	< 2.0 - < 2.0	< 2.0
Chloride (mg/L)	150 - 238	192	128 - 333	191.75	64.5 - 279	146.5	51.6 - 540	151.52
Dissolved o-Phosphate as P (mg/L)			< 0.05 - < 0.05	< 0.05			< 0.05 - 0.06	0.052
Dissolved Oxygen - Field (mg/L)	7.7 - 12.1	10.3	8.17 - 12.66	10.885	2.9 - 13.1	8.6	6.02 - 13.41	9.94
Escherichia coli (MPN/100mL)	34 - 17300	3540	127 - 5170	1512.25	50 - 620	210	4.0 - 1240	214.08
Nitrate as N (mg/L)	0.57 - 1.10	0.80	0.5 - 0.81	0.66	0.26 - 0.94	0.63	0.15 - 0.98	0.48
Nitrite as N (mg/L)	< 0.05 - < 0.10	< 0.06	< 0.05 - < 0.10	< 0.06	< 0.05 - < 0.10	< 0.06	< 0.05 - < 0.10	< 0.06
O-Phosphate as P (mg/L)	0.05 - 0.08	0.06	< 0.05 - < 0.05	< 0.05	0.05 - 0.08	0.06	< 0.05 - 0.10	0.06
Phosphorus Total (mg/L)	0.036 - 0.107	0.054	0.02 - 0.078	0.04	0.032 - 0.225	0.114	0.032 - 0.211	0.94
Total Kjeldahl Nitrogen(mg/L)	0.2 - 1.4	0.50	< 0.2 - 0.6	0.31	0.40 - 1.10	0.56	0.2 - 0.9	0.51
Total Suspended Solids (mg/L)	1.6 - 8.6	3.8	1.5 - 7.6	4.0	< 2.0 - 22.0	7.5	< 0.8 - 40.4	6.9
Un-ionized Ammonia as NH3 at Field Temp. (ug/L)	0.8 - 2.5	1.5	0.1 - 2.6	0.59	0.5 - 3.4	1.4	< 0.1 - 3.6	1.18
Metals:								
Aluminum (mg/L)	0.044 - 0.213	0.082	0.034 - 0.406	0.099	0.025 - 0.354	0.118	0.016 - 2.6	0.29
Cobalt (mg/L)			0.0001 - 0.0002	0.00013			< 0.0001 - 0.0002	0.0002
Copper (mg/L)	0.0005 - 0.0014	0.0009	0.005 - 0.0018	0.0009	0.0004 - 0.0028	0.0011	0.0006 - 0.0066	0.0019
Iron (mg/L)			0.188 - 0.584	0.2975			0.111 - 3.23	0.63
Lead (mg/L)	0.0001 - 0.0004	0.0002	0.0001 - 0.0006	0.00028	< 0.0001 - 0.0010	0.0004	< 0.0001 - 0.0041	0.00054
Nickel (mg/L)			0.0004 - 0.0007	0.00049			0.0002 - 0.0027	0.00056
Zinc (mg/L)	0.003 - 0.006	0.005	0.004 - 0.19	0.01	0.003 - 0.030	0.012	0.006 - 0.029	0.01

The 2022 Average data has been calculated using 0.0 instead of the laboratory's Method Detection Limit (MDL) (< 2.0 becomes 0.0 for MDL calculation)

The 2023 Average data has been calculated using the laboratory's MDL (< 2.0 becomes 2.0 for MDL calculation)

*Wet vs Dry sampling events have not been separated; averages are combined.

SPRING CREEK	SprC SW1 - 2022		SprC SW1 - 2023		SprC SW2 - 2022		SprC SW2 - 2023	
	9 Samples Collected		12 Samples Collected		9 Samples Collected		12 Samples Collected	
	MIN - MAX	AVERAGE	MIN - MAX	AVERAGE	MIN - MAX	AVERAGE	MIN - MAX	AVERAGE
Ammonia + Ammonium as N (mg/L)	0.01 - 0.06	0.02	< 0.01 - 0.07	0.02	0.01 - 0.04	0.02	< 0.01 - 0.06	0.0167
Carbonaceous Biochemical Oxygen Demand (mg/L)	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Chloride (mg/L)	62.8 - 96.7	74.6	71.5 - 273	100.53	45.7 - 76.7	58	57 - 110	74.36
Dissolved o-Phosphate as P (mg/L)			< 0.05 - 0.05	0.05			< 0.05 - 0.06	0.051
Dissolved Oxygen - Field (mg/L)	9.0 - 15.7	11.7	8.74 - 15.9	12.5	9.0 - 15.1	11.6	9.07 - 15.6	12.36
Escherichia coli (MPN/100mL)	28 - 1200	467	60 - 24200	2241.33	7 - 461	195	5.0 - 16000	1412.42
Nitrate as N (mg/L)	0.10 - 0.69	0.24	< 0.1 - 1.13	0.3267	0.10 - 0.73	0.22	< 0.1 - 1.29	0.3167
Nitrite as N (mg/L)	< 0.05 - < 0.10	< 0.06	< 0.05 - < 0.10	< 0.06	< 0.05 - < 0.10	< 0.06	< 0.05 - < 0.10	< 0.06
O-Phosphate as P (mg/L)	< 0.05	< 0.05	< 0.05 - 0.6	0.051	< 0.05	< 0.05	< 0.05 - 0.07	0.05
Phosphorus Total (mg/L)	< 0.010 - 0.085	0.040	< 0.01 - 0.229	0.045	< 0.010 - 0.160	0.043	< 0.01 - 0.174	0.0644
Total Kjeldahl Nitrogen (mg/L)	0.14 - 0.50	0.25	< 0.2 - 0.9	0.317	0.11 - 0.40	0.26	< 0.2 - 0.7	0.275
Total Suspended Solids (mg/L)	< 0.9 - 80.0	19.6	2.0 - 157	20.42	3.9 - 167.0	30.9	1.8 - 156	46.77
Un-ionized Ammonia as NH3 at Field Temp. (ug/L)	< 0.2 - 4.1	1.3	< 0.2 - 0.8	0.492	0.2 - 1.9	0.7	< 0.2 - 0.8	0.33
Metals:								
Aluminum (mg/L)	0.014 - 2.900	0.567	0.05 - 2.86	0.494	0.220 - 4.680	0.852	0.057 - 6.46	1.495
Cobalt (mg/L)			< 0.0001 - 0.002	0.00034			< 0.0001 - 0.0032	0.0009
Copper (mg/L)	0.0006 - 0.0050	0.0020	0.001 - 0.0097	0.0022	0.0007 - 0.0076	0.0020	0.0009 - 0.0064	0.0028
Iron (mg/L)			0.135 - 4.81	0.8040			0.184 - 7.66	1.9212
Lead (mg/L)	< 0.0001 - 0.0016	0.0005	< 0.0001 - 0.0033	0.00053	0.0001 - 0.0027	0.0006	< 0.0001 - 0.0026	0.0008
Nickel (mg/L)			0.0004 - 0.005	0.00104			0.0004 - 0.0074	0.00205
Zinc (mg/L)	0.001 - 0.012	0.004	0.001 - 0.02	0.005	0.001 - 0.015	0.003	< 0.001 - 0.017	0.00575

The 2022 Average data has been calculated using 0.0 instead of the laboratory's Method Detection Limit (MDL) (< 2.0 becomes 0.0 for MDL calculation)

The 2023 Average data has been calculated using the laboratory's MDL (< 2.0 becomes 2.0 for MDL calculation)

*Wet vs Dry sampling events have not been separated; averages are combined.

LOWER SPENCER CREEK	LSC SW1 - 2022		LSC SW1 - 2023		LSC SW2 - 2022		LSC SW2 -2023		LSC SW2.1 - 2023		LSC SW3 - 2022		LSC SW3 - 2023		LSC SW4 - 2023		LSC SW5 - 2023	
	10 Samples Collected		12 Samples Collected		11 Samples Collected		9 Samples Collected		3 Samples Collected		10 Samples Collected		13 Samples Collected		3 Samples Collected		3 Samples Collected	
	MIN - MAX	AVERAGE	MIN - MAX	AVERAGE	MIN - MAX	AVERAGE	MIN - MAX	AVERAGE	MIN - MAX	AVERAGE	MIN - MAX	AVERAGE	MIN - MAX	AVERAGE	MIN - MAX	AVERAGE	MIN - MAX	AVERAGE
Ammonia + Ammonium as N (mg/L)	0.03 - 0.26	0.15	0.02 - 0.21	0.0975	0.04 - 0.34	0.15	0.03 - 0.21	0.0956	< 0.01 - 0.01	0.01	0.01 - 0.07	0.04	< 0.01 - 0.22	0.041	0.44 - 1.30	0.88	< 0.01 - 0.02	0.013
Carbonaceous Biochemical Oxygen Demand (mg/L)	< 2.0 - 4.0	3.0	< 2.0 - 3.0	2.2	< 2.0 - 14.0	3.0	< 2.0 - 10	3.1	< 2.0 - 6.0	3.3	< 2.0	< 2.0	< 2.0 - < 3.0	2.08	8.0 - 10	9.0	< 2.0 - < 2.0	< 2.0
Chloride (mg/L)	149 - 300	198	128 - 324	197.58	151 - 389	219	128 - 332	237.78	255 - 372	318	566 - 618	597	493 - 604	574.92	243 - 264	253.3	449 - 508	472.67
Dissolved o-Phosphate as P (mg/L)			< 0.05 - 0.10	0.0582			< 0.05 - 0.12	0.059	< 0.05 - 0.12	0.073			< 0.05 - < 0.05	< 0.05	< 0.05 - < 0.05	< 0.05	0.09 - 0.14	0.113
Dissolved Oxygen - Field (mg/L)	7.8 - 17.2	11.0	8.72 - 14.25	11.5	3.5 - 17.1	9.42	5.21 - 14.67	10.36	1.54 - 6.58	3.68	5.8 - 13.1	8.6	6.27 - 13.55	10.00	3.74 - 12.37	7.2	8.29 - 12.71	10.16
Escherichia coli (MPN/100mL)	3.0 - 1730	386	5.0 - 3080	879.83	7.0 - 2420	894	9.0 - 4880	1289.3	61 - 92100	30883.67	8.0 - 1990	335	9.0 - 15500	1373.46	38 - 60	44	10 - 205	129
Nitrate as N (mg/L)	14.4 - 21.4	17.1	10.7 - 18.5	14.23	7.76 - 21.50	16.21	6.71 - 18.5	12.1	0.62 - 1.19	0.92	0.29 - 0.53	0.43	0.23 - 0.52	0.398	< 0.1 - 0.18	0.127	0.82 - 1.86	1.18
Nitrite as N (mg/L)	< 0.05 - 0.10	0.08	< 0.05 - 0.07	0.055	< 0.05 - 0.10	0.07	< 0.05 - 0.09	0.058	< 0.05	< 0.05	< 0.05 - < 0.10	< 0.06	< 0.05 - < 0.2	< 0.65	< 0.05	< 0.05	< 0.05	< 0.05
O-Phosphate as P (mg/L)	< 0.05 - 0.07	0.06	< 0.05 - 0.10	0.058	0.05 - 0.12	0.07	< 0.05 - 0.11	0.057	< 0.05 - 0.09	0.063	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.09 - 0.14	0.113
Phosphorus Total (mg/L)	0.059 - 0.193	0.107	0.022 - 0.166	0.087	0.084 - 0.435	0.161	0.048 - 0.177	0.104	0.022 - 0.223	0.097	0.014 - 0.142	0.039	0.018 - 0.075	0.038	0.102 - 0.271	0.214	0.091 - 0.136	0.1097
Total Kjeldahl Nitrogen (mg/L)	0.5 - 1.5	0.9	0.2 - 1.5	0.68	0.5 - 3.0	1.1	0.3 - 1.6	0.756	< 0.2 - 0.7	0.367	0.20 - 0.70	0.3	< 0.2 - 0.5	0.277	0.9 - 2.8	2.133	< 0.2 - 0.3	0.267
Total Suspended Solids (mg/L)	3.4 - 13.8	7.9	1.2 - 10.8	5.79	1.4 - 199	32.8	1.2 - 25.2	7.78	2.1 - 40.3	14.93	1.0 - 145.0	17.2	1.1 - 6.4	2.92	12.2 - 32.3	20.9	2.3 - 14.2	6.53
Un-ionized Ammonia as NH3 at Field Temp. (ug/L)	0.5 - 6.8	3.2	0.2 - 6.0	2.125	0.3 - 9.0	2.9	0.5 - 8.6	2.3	< 0.1	< 0.1	< 0.1 - 1.5	0.8	< 0.1 - 3.2	0.569	3.7 - 8.4	5.3	< 0.1 - 0.2	0.133
Metals:																		
Aluminum (mg/L)	0.045 - 0.138	0.093	0.013 - 0.151	0.079	0.024 - 0.760	0.133	0.021 - 0.667	0.14	0.009 - 1.35	0.457	0.006 - 0.374	0.057	0.006 - 0.055	0.021	0.052 - 0.199	0.112	0.048 - 0.203	0.102
Cobalt (mg/L)			< 0.0001 - 0.0008	0.000525			0.0004 - 0.0009	0.00061	< 0.0001 - 0.0007	0.0003			< 0.0001 - 0.0006	0.00015	0.0001 - 0.0002	0.000167	< 0.0001 - 0.0002	0.00013
Copper (mg/L)	0.0035 - 0.0064	0.0048	0.0004 - 0.0068	0.0036	0.0025 - 0.0081	0.0053	0.0026 - 0.0066	0.0039	0.001 - 0.0055	0.0025	0.0002 - 0.0019	0.0006	0.0003 - 0.0029	0.00071	0.0004 - 0.0008	0.0006	0.0015 - 0.002	0.0017
Iron (mg/L)			0.117 - 0.373	0.2589			0.16 - 0.92	0.353	0.032 - 1.65	0.584			0.126 - 2.21	0.373	0.5 - 2.23	1.51	0.037 - 0.208	0.1
Lead (mg/L)	0.0003 - 0.0011	0.0007	< 0.0001 - 0.0013	0.00064	0.0002 - 0.0051	0.0011	0.0003 - 0.0054	0.0012	0.0001 - 0.0133	0.0045	0.0001 - 0.0011	0.0002	< 0.0001 - 0.0002	0.00012	0.0003 - 0.0012	0.00077	< 0.0001 - 0.0003	0.00017
Nickel (mg/L)			0.0004 - 0.0037	0.00299			0.0021 - 0.0039	0.00289	0.0004 - 0.0022	0.001			0.0005 - 0.0023	0.00068	0.0006 - 0.001	0.00077	0.0005 - 0.0007	0.00057
Zinc (mg/L)	0.011 - 0.028	0.020	< 0.001 - 0.056	0.018	0.014 - 0.110	0.028	0.01 - 0.028	0.021	0.023 - 0.063	0.037	< 0.001 - 0.006	0.002	< 0.001 - 0.027	0.00438	0.002 - 0.004	0.003	0.001 - 0.003	0.002

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GRINDSTONE CREEK	GC218 SW1 - 2023		GC220 SW1 - 2023		GC222 SW1 - 2022		GC222 SW1	
	3 Samples Collected		3 Samples Collected		9 Samples Collected		12 Samples Collected	
	MIN - MAX	AVERAGE	MIN - MAX	AVERAGE	MIN - MAX	AVERAGE	MIN - MAX	AVERAGE
Ammonia + Ammonium as N (mg/L)	0.05 - 0.05	0.05	<0.01 - 0.13	0.05	0.01 - 0.07	0.02	<0.01 - 0.03	0.0192
Carbonaceous Biochemical Oxygen Demand (mg/L)	< 2.0 - < 2.0	< 2.0	< 2.0 - < 2.0	< 2.0	< 2.0	< 2.0	< 2.0 - < 2.0	< 2.0
Chloride (mg/L)	75.2 - 91.6	83.87	83.3 - 125	104.43	76.5 - 127	113.1	64.7 - 244	103.25
Dissolved o-Phosphate as P (mg/L)	< 0.05 - < 0.05	< 0.05	< 0.05 - 0.26	0.12			< 0.05 - 0.08	0.053
Dissolved Oxygen - Field (mg/L)	10.78 - 13.5	12.04	5.38 - 12.62	8.73	7.1 - 15.7	10.6	8.44 - 14.57	11.19
Escherichia coli (MPN/100mL)	53 - 105	72.67	56 - 143	86.33	51 - 9800	2195	60 - 1200	361.75
Nitrate as N (mg/L)	1.66 - 4.62	3.29	0.15 - 0.42	0.267	0.99 - 4.63	2.19	0.67 - 3.99	1.92
Nitrite as N (mg/L)	< 0.05 - < 0.05	< 0.05	< 0.05 - < 0.05	< 0.05	< 0.05 - < 0.10	< 0.06	< 0.05 - < 0.10	< 0.06
O-Phosphate as P (mg/L)	< 0.05 - < 0.05	< 0.05	< 0.05 - 0.26	0.12	0.05 - 0.09	0.06	< 0.05 - 0.07	0.052
Phosphorus Total (mg/L)	0.046 - 0.061	0.054	0.035 - 0.325	0.136	0.019 - 0.103	0.061	0.034 - 0.149	0.065
Total Kjeldahl Nitrogen (mg/L)	0.6 - 1.0	0.77	0.2 - 0.4	0.3	0.20 - 1.20	0.52	0.4 - 2.8	0.742
Total Suspended Solids (mg/L)	4.9 - 8.2	6.23	0.8 - 15.6	6.4	< 0.9 - 10.9	5.2	1.2 - 24	8.125
Un-ionized Ammonia as NH3 at Field Temp. (ug/L)	0.2 - 1.4	0.67	< 0.1 - 0.9	0.367	< 0.4 - 2.3	0.9	< 0.1 - 0.9	0.4
Metals:								
Aluminum (mg/L)	0.098 - 0.14	0.124	0.033 - 0.637	0.25	0.009 - 0.361	0.117	0.028 - 0.698	0.195
Colbalt (mg/L)	0.0002 - 0.0002	0.0002	< 0.0001 - 0.0003	0.00017			0.0001 - 0.0004	0.0002
Copper (mg/L)	0.0013 - 0.0014	0.0014	0.0008 - 0.0022	0.0014	0.0011 - 0.0035	0.0020	0.0015 - 0.004	0.0023
Iron (mg/L)	0.287 - 0.351	0.313	0.149 - 0.763	0.366			0.093 - 0.934	0.3660
Lead (mg/L)	0.0003 - 0.0004	0.00037	< 0.0001 - 0.0012	0.00047	< 0.0001 - 0.0009	0.0003	0.0002 - 0.002	0.00054
Nickel (mg/L)	0.0008 - 0.0011	0.00093	0.0005 - 0.0012	0.00073			0.007 - 0.0015	0.00102
Zinc (mg/L)	0.003 - 0.005	0.0037	0.001 - 0.007	0.0033	0.001 - 0.007	0.003	0.002 - 0.028	0.0084

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MIDDLE SPENCER CREEK	MSC SW1 - 2023	
	3 Samples Collected	
	MIN - MAX	AVERAGE
Ammonia + Ammonium as N (mg/L)	< 0.01 - 0.04	0.02
Carbonaceous Biochemical Oxygen Demand (mg/L)	< 2.0 - < 2.0	< 2.0
Chloride (mg/L)	86.1 - 108	94.83
Dissolved o-Phosphate as P (mg/L)	< 0.05 - < 0.05	< 0.05
Dissolved Oxygen - Field (mg/L)	10.73 - 14.76	12.75
Escherichia coli (MPN/100mL)	10.0 - 24.0	17.67
Nitrate as N (mg/L)	0.33 - 0.89	0.527
Nitrite as N (mg/L)	< 0.05 - < 0.05	< 0.05
O-Phosphate as P (mg/L)	< 0.05 - < 0.05	< 0.05
Phosphorus Total (mg/L)	0.02 - 0.031	0.0246
Total Kjeldahl Nitrogen (mg/L)	0.4 - 0.6	0.5
Total Suspended Solids (mg/L)	2.8 - 3.0	2.867
Un-ionized Ammonia as NH3 at Field Temp. (ug/L)	0.2 - 0.7	0.43
Metals:		
Aluminum (mg/L)	0.029 - 0.052	0.043
Colbalt (mg/L)	< 0.0001 - 0.0001	0.0001
Copper (mg/L)	0.0008 - 0.0009	0.00087
Iron (mg/L)	0.082 - 0.16	0.129
Lead (mg/L)	0.0004 - 0.0004	0.0004
Nickel (mg/L)	0.001 - 0.0016	0.0014
Zinc (mg/L)	0.007 - 0.014	0.011

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The 2023 Average data has been calculated using the laboratory's MDL (< 2.0 becomes 2.0 for MDL calculation)

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TIFFANY CREEK	TC SW1 - 2023		TC SW2 - 2023	
	3 Samples Collected		3 Samples Collected	
	MIN - MAX	AVERAGE	MIN - MAX	AVERAGE
Ammonia + Ammonium as N (mg/L)	0.01 - 0.02	0.0167	< 0.01 - 0.01	0.01
Carbonaceous Biochemical Oxygen Demand (mg/L)	< 2.0 - < 2.0	< 2.0	< 2.0 - < 2.0	< 2.0
Chloride (mg/L)	129 - 190	166	107 - 131	118.67
Dissolved o-Phosphate as P (mg/L)	< 0.05 - < 0.05	< 0.05	< 0.05 - 0.07	0.057
Dissolved Oxygen - Field (mg/L)	10.72 - 12.13	11.31	7.59 - 10.8	9.04
Escherichia coli (MPN/100mL)	50 - 308	206	9.0 - 2050	689.67
Nitrate as N (mg/L)	0.17 - 0.29	0.2167	< 0.1 - 0.36	0.1867
Nitrite as N (mg/L)	< 0.05 - < 0.05	< 0.05	< 0.05 - < 0.05	< 0.05
O-Phosphate as P (mg/L)	< 0.05 - < 0.05	< 0.05	< 0.05 - 0.07	0.0567
Phosphorus Total (mg/L)	0.032 - 0.085	0.0513	0.05 - 0.112	0.0723
Total Kjeldahl Nitrogen (mg/L)	< 0.2 - 0.3	0.267	< 0.2 - 0.4	0.267
Total Suspended Solids (mg/L)	3.8 - 7.3	5.467	2.5 - 3.1	2.867
Un-ionized Ammonia as NH3 at Field Temp. (ug/L)	0.1 - 0.5	0.267	< 0.1 - < 0.1	< 0.1
Metals:				
Aluminum (mg/L)	0.062 - 0.278	0.15	0.018 - 0.098	0.0503
Colbalt (mg/L)	< 0.0001 - 0.0002	0.00013	0.0002 - 0.0004	0.000267
Copper (mg/L)	0.0011 - 0.0021	0.0014	0.0004 - 0.001	0.00077
Iron (mg/L)	0.153 - 0.495	0.288	0.238 - 0.415	0.32
Lead (mg/L)	0.0003 - 0.0007	0.00043	< 0.0001 - 0.0003	0.000167
Nickel (mg/L)	0.0009 - 0.0011	0.000967	0.0007 - 0.0009	0.000767
Zinc (mg/L)	0.018 - 0.024	0.021	0.003 - 0.004	0.00367

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SULPHUR CREEK	SuIC SW1 - 2023	
	2 Samples Collected	
	MIN - MAX	AVERAGE
Ammonia + Ammonium as N (mg/L)	0.01 - 0.41	0.21
Carbonaceous Biochemical Oxygen Demand (mg/L)	< 2.0 - 2.0	2
Chloride (mg/L)	50.3 - 95.5	72.9
Dissolved o-Phosphate as P (mg/L)	< 0.05 - < 0.05	< 0.05
Dissolved Oxygen - Field (mg/L)	12.2 - 13.7	12.95
Escherichia coli (MPN/100mL)	10.0 - 3260	1635
Nitrate as N (mg/L)	0.27 - 0.45	0.36
Nitrite as N (mg/L)	< 0.05 - < 0.05	< 0.05
O-Phosphate as P (mg/L)	< 0.05 - < 0.05	< 0.05
Phosphorus Total (mg/L)	0.012 - 0.09	0.051
Total Kjeldahl Nitrogen (mg/L)	< 0.2 - < 0.2	< 0.2
Total Suspended Solids (mg/L)	2.4 - 37.2	19.8
Un-ionized Ammonia as NH ₃ at Field Temp. (ug/L)	0.2 - 5.5	2.85
Metals:		
Aluminum (mg/L)	0.036 - 1.08	0.558
Colbalt (mg/L)	< 0.0001 - 0.0006	0.00035
Copper (mg/L)	0.0006 - 0.0032	0.0019
Iron (mg/L)	0.109 - 1.66	0.885
Lead (mg/L)	< 0.0001 - 0.0015	0.0008
Nickel (mg/L)	0.0002 - 0.0015	0.00085
Zinc (mg/L)	0.001 - 0.006	0.0035

The 2022 Average data has been calculated using 0.0 instead of the laboratory's Method Detection Limit (MDL) (< 2.0 becomes 0.0 for MDL calculation)

The 2023 Average data has been calculated using the laboratory's MDL (< 2.0 becomes 2.0 for MDL calculation)

*Wet vs Dry sampling events have not been seperated; averages are combined.