

CITY OF WEST KELOWNA

Monthly Water Quality Report



Powers Creek Water Service Area

May 2025

WATER SUPPLY AND TREATMENT





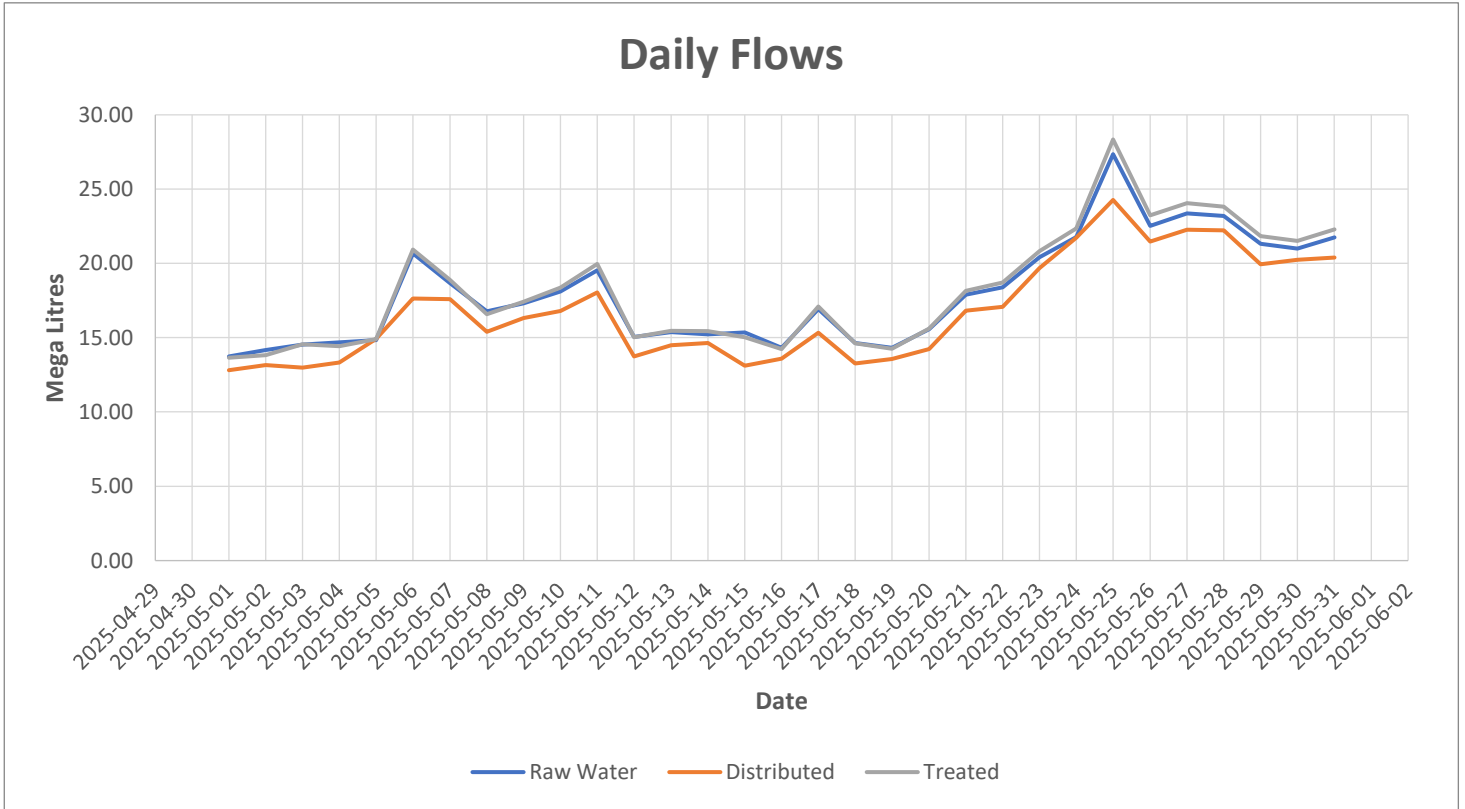
Powers Creek Water Treatment Plant Monthly Water Quality Summary

2025-06-03

May, 2025

Flow Demand:

	Total for Month
Raw Processed Water:	558.69 ML
Treated Water :	565.31 ML
Distributed Water :	520.98 ML
Backwash Water :	29.89 ML



Notes:

Raw Water Specifications:

Date	Raw Turbidity (NTU)			Raw pH		
	Min	Max	Average	Min	Max	Average
2025-05-01	3.73	13.78	5.74	7.15	7.58	7.35
2025-05-02	2.64	14.63	5.35	7.30	7.60	7.41
2025-05-03	2.08	11.81	4.27	7.27	7.46	7.35
2025-05-04	1.87	5.08	2.41	7.12	7.35	7.25
2025-05-05	1.64	8.68	3.86	7.23	7.59	7.37
2025-05-06	3.11	12.73	4.30	7.42	7.65	7.51
2025-05-07	2.35	6.54	3.04	7.29	7.59	7.43
2025-05-08	2.21	8.40	2.86	7.42	7.57	7.49
2025-05-09	1.28	6.45	2.49	7.12	7.55	7.36
2025-05-10	2.10	6.13	2.44	7.17	7.66	7.45
2025-05-11	1.89	4.78	2.29	7.43	7.61	7.51
2025-05-12	1.70	4.99	2.15	7.55	7.68	7.61
2025-05-13	1.17	5.89	2.19	7.50	7.64	7.56
2025-05-14	0.57	7.46	2.29	7.43	7.57	7.48
2025-05-15	1.52	4.34	1.91	7.43	7.61	7.51
2025-05-16	1.28	8.20	1.94	7.46	7.62	7.52
2025-05-17	0.92	4.74	1.50	7.45	7.55	7.50
2025-05-18	0.80	1.73	1.18	7.38	7.52	7.46
2025-05-19	1.02	6.94	1.60	7.25	7.46	7.40
2025-05-20	1.42	5.64	1.71	7.38	7.59	7.49
2025-05-21	1.50	18.08	2.45	7.42	7.64	7.53
2025-05-22	1.05	4.69	1.63	7.21	7.97	7.62
2025-05-23	1.48	3.45	1.77	7.74	7.86	7.80
2025-05-24	1.28	5.03	1.58	7.75	7.89	7.80
2025-05-25	0.84	3.44	1.09	7.74	7.84	7.78
2025-05-26	0.86	4.36	1.36	7.70	7.78	7.73
2025-05-27	1.26	4.47	1.51	7.58	7.76	7.68
2025-05-28	1.18	3.08	1.42	7.67	7.85	7.74
2025-05-29	1.00	3.97	1.53	7.61	7.77	7.69
2025-05-30	0.87	2.28	1.24	7.54	7.80	7.68
2025-05-31	1.07	2.91	1.25	7.68	7.89	7.76

Notes:

Raw Water Specifications (Continued):

Date	Raw Temp (°C)			Raw DOC (mg/L)		
	Min	Max	Average	Min	Max	Average
2025-05-01	5.03	14.46	10.12	35.13	59.49	37.55
2025-05-02	5.73	13.89	11.04	3.40	116.19	39.19
2025-05-03	6.73	14.19	11.85	0.95	116.19	46.46
2025-05-04	12.92	13.49	13.27	5.21	116.35	38.50
2025-05-05	5.10	15.33	10.39	1.20	116.18	36.53
2025-05-06	6.12	15.44	11.17	2.55	35.37	32.73
2025-05-07	8.13	14.25	10.83	32.58	33.69	33.15
2025-05-08	6.82	14.14	10.57	31.02	33.72	32.81
2025-05-09	6.46	13.01	9.25	5.06	50.19	29.91
2025-05-10	7.47	12.74	9.01	27.91	29.31	28.71
2025-05-11	6.53	8.90	7.79	27.54	28.64	28.16
2025-05-12	7.74	12.73	8.90	27.15	29.33	27.46
2025-05-13	7.33	14.32	10.66	27.19	28.31	27.70
2025-05-14	8.36	14.52	10.38	25.79	27.37	26.51
2025-05-15	7.13	12.82	9.32	24.99	26.03	25.59
2025-05-16	8.21	14.47	10.15	24.22	25.31	24.55
2025-05-17	8.32	14.26	12.02	23.92	24.88	24.38
2025-05-18	8.32	14.36	12.00	24.39	25.91	25.28
2025-05-19	7.28	14.37	10.51	23.70	24.77	24.23
2025-05-20	7.21	10.43	8.24	7.89	24.34	23.72
2025-05-21	7.18	10.24	8.52	20.31	23.93	23.06
2025-05-22	7.68	11.95	9.23	21.55	116.17	22.39
2025-05-23	8.67	14.68	10.23	21.42	25.01	21.73
2025-05-24	9.30	12.31	10.64	20.93	21.60	21.31
2025-05-25	9.89	15.72	12.40	19.52	54.49	20.77
2025-05-26	11.30	16.25	12.46	19.26	20.32	19.97
2025-05-27	9.41	14.47	11.19	18.08	19.21	18.66
2025-05-28	10.23	14.23	12.06	17.75	18.27	18.07
2025-05-29	11.71	16.69	13.06	17.73	18.19	17.94
2025-05-30	9.76	18.07	12.31	17.51	18.19	17.83
2025-05-31	11.48	15.19	12.38	17.44	17.72	17.59

Notes:

Raw Water Specifications (Continued):

Date	Raw Cond ($\mu\text{S}/\text{cm}$)			Streaming Current		
	Min	Max	Average	Min	Max	Average
2025-05-01	62.71	70.15	67.22	-130.26	84.55	-107.21
2025-05-02	61.35	67.80	66.38	-115.94	85.77	23.45
2025-05-03	60.96	65.78	64.52	-76.41	93.20	28.25
2025-05-04	62.88	68.51	66.51	-60.89	64.76	17.74
2025-05-05	0.29	76.28	71.27	-47.73	45.23	10.34
2025-05-06	68.01	72.18	71.33	-70.54	33.98	-20.03
2025-05-07	66.85	70.81	69.97	-46.96	-14.04	-30.25
2025-05-08	67.49	72.01	70.41	-169.56	137.86	-28.07
2025-05-09	67.04	74.58	73.28	-56.24	55.39	-4.35
2025-05-10	68.37	74.86	74.38	-27.99	37.29	3.62
2025-05-11	74.98	75.69	75.24	-34.76	38.10	1.98
2025-05-12	72.51	76.47	75.76	-70.52	43.25	-5.97
2025-05-13	0.53	77.44	75.21	-73.55	37.96	-6.11
2025-05-14	75.25	76.26	75.76	-118.73	35.98	-11.33
2025-05-15	53.78	77.50	76.62	-61.94	24.35	-10.36
2025-05-16	77.84	78.68	78.19	-91.72	12.43	-27.07
2025-05-17	77.60	78.65	78.29	-62.06	11.57	-20.46
2025-05-18	75.75	80.43	77.74	-84.30	23.39	-26.68
2025-05-19	76.23	82.61	78.80	-73.45	34.12	-21.74
2025-05-20	77.37	79.79	78.80	-46.76	27.42	-28.27
2025-05-21	0.01	81.10	80.15	-57.45	34.12	-12.20
2025-05-22	79.82	82.33	81.62	-66.66	12.45	-40.29
2025-05-23	81.46	83.78	82.98	-89.40	-30.68	-53.96
2025-05-24	83.73	84.70	84.16	-78.46	-30.63	-57.03
2025-05-25	84.60	85.39	84.94	-127.41	-41.72	-81.72
2025-05-26	0.17	86.12	85.06	-148.41	-61.96	-74.96
2025-05-27	86.64	87.60	87.16	-88.26	-57.86	-72.19
2025-05-28	87.82	89.20	88.57	-120.41	-63.96	-93.12
2025-05-29	0.18	89.52	88.55	-105.40	21.53	-20.82
2025-05-30	0.24	90.05	88.56	-3.07	30.00	12.93
2025-05-31	86.77	90.09	89.39	-15.14	25.54	4.90

Notes:

Raw Water Specifications (Continued):

Date	Coagulated pH			Coagulated Temp (°C)		
	Min	Max	Average	Min	Max	Average
2025-05-01	6.11	6.41	6.25	5.38	9.28	8.03
2025-05-02	5.97	6.31	6.13	5.94	13.10	9.71
2025-05-03	6.04	6.13	6.10	12.72	13.58	13.21
2025-05-04	6.15	6.22	6.19	12.32	12.56	12.44
2025-05-05	6.15	6.40	6.27	5.44	12.86	9.86
2025-05-06	6.14	6.48	6.30	8.59	15.37	11.98
2025-05-07	6.38	6.47	6.43	7.23	9.57	8.35
2025-05-08	6.25	6.74	6.42	7.67	8.75	8.25
2025-05-09	6.22	6.56	6.35	6.92	10.52	8.04
2025-05-10	6.35	6.48	6.42	7.67	9.11	8.34
2025-05-11	6.31	6.45	6.39	7.54	9.61	8.54
2025-05-12	6.28	6.53	6.40	8.31	13.39	9.36
2025-05-13	6.40	6.52	6.47	7.44	9.89	8.81
2025-05-14	6.37	6.54	6.46	8.23	10.74	9.33
2025-05-15	6.41	6.58	6.50	7.93	10.25	9.25
2025-05-16	6.40	6.59	6.49	8.94	9.93	9.49
2025-05-17	6.46	6.54	6.52	8.63	10.34	9.54
2025-05-18	6.46	6.56	6.52	8.80	9.83	9.50
2025-05-19	6.46	6.58	6.54	8.55	9.72	9.20
2025-05-20	6.46	6.63	6.57	7.75	14.70	8.59
2025-05-21	6.54	6.60	6.58	7.10	9.90	8.33
2025-05-22	6.57	6.80	6.68	7.95	16.44	9.18
2025-05-23	6.75	6.81	6.79	8.71	11.18	9.86
2025-05-24	6.78	6.85	6.81	9.25	12.19	10.54
2025-05-25	6.79	7.00	6.88	9.86	12.97	11.41
2025-05-26	6.77	6.85	6.83	11.08	12.28	11.72
2025-05-27	6.83	6.93	6.87	9.43	12.02	10.70
2025-05-28	6.87	6.99	6.95	10.38	15.54	11.96
2025-05-29	6.83	7.01	6.90	11.54	13.02	12.37
2025-05-30	6.85	6.89	6.88	9.71	13.25	11.42
2025-05-31	6.82	6.94	6.89	11.42	13.08	12.19

Notes:

Train 1 Filter Turbidity (NTU):

Date	Filter 1			Filter 2			Filter 3		
	Min	Max	Average	Min	Max	Average	Min	Max	Average
2025-05-01	0.01	0.03	0.02	0.02	0.05	0.02	0.01	0.09	0.02
2025-05-02	0.02	0.08	0.03	0.02	0.09	0.03	0.02	0.03	0.02
2025-05-03	0.02	0.03	0.02	0.02	0.04	0.02	0.02	0.08	0.03
2025-05-04	0.02	0.07	0.03	0.02	0.08	0.03	0.02	0.03	0.02
2025-05-05	0.02	0.04	0.02	0.02	0.02	0.02	0.01	0.03	0.02
2025-05-06	0.02	0.08	0.03	0.02	0.07	0.02	0.01	0.07	0.03
2025-05-07	0.01	0.03	0.02	0.01	0.02	0.02	0.01	0.06	0.02
2025-05-08	0.01	0.11	0.03	0.01	0.08	0.02	0.01	0.07	0.02
2025-05-09	0.02	0.03	0.02	0.01	0.03	0.02	0.01	0.10	0.03
2025-05-10	0.02	0.06	0.02	0.01	0.06	0.02	0.01	0.03	0.02
2025-05-11	0.01	0.04	0.02	0.01	0.03	0.02	0.01	0.07	0.02
2025-05-12	0.02	0.11	0.03	0.01	0.06	0.02	0.01	0.02	0.02
2025-05-13	0.02	0.03	0.02	0.01	0.02	0.02	0.01	0.07	0.02
2025-05-14	0.02	0.08	0.04	0.01	0.04	0.02	0.01	0.03	0.02
2025-05-15	0.02	0.11	0.04	0.01	0.02	0.02	0.01	0.06	0.02
2025-05-16	0.02	0.04	0.02	0.01	0.05	0.02	0.01	0.04	0.01
2025-05-17	0.01	0.06	0.02	0.02	0.02	0.02	0.01	0.06	0.02
2025-05-18	0.02	0.03	0.02	0.02	0.05	0.02	0.01	0.02	0.01
2025-05-19	0.02	0.05	0.02	0.01	0.02	0.02	0.01	0.05	0.02
2025-05-20	0.01	0.02	0.02	0.01	0.05	0.02	0.01	0.02	0.01
2025-05-21	0.02	0.06	0.02	0.02	0.03	0.02	0.00	0.06	0.02
2025-05-22	0.02	0.02	0.02	0.02	0.08	0.03	0.01	0.02	0.01
2025-05-23	0.02	0.04	0.02	0.02	0.03	0.02	0.01	0.05	0.02
2025-05-24	0.02	0.02	0.02	0.02	0.08	0.03	0.01	0.02	0.01
2025-05-25	0.02	0.06	0.02	0.02	0.03	0.02	0.01	0.06	0.02
2025-05-26	0.01	0.03	0.02	0.02	0.09	0.03	0.01	0.02	0.01
2025-05-27	0.02	0.04	0.02	0.02	0.03	0.02	0.01	0.05	0.01
2025-05-28	0.02	0.04	0.02	0.02	0.09	0.03	0.00	0.02	0.01
2025-05-29	0.02	0.05	0.02	0.02	0.03	0.02	0.00	0.04	0.01
2025-05-30	0.02	0.02	0.02	0.02	0.08	0.03	0.00	0.02	0.01
2025-05-31	0.02	0.04	0.02	0.02	0.03	0.02	0.01	0.05	0.02

Notes:

Train 2 Filter Turbidity (NTU)

Date	Filter 4			Filter 5			Filter 6		
	Min	Max	Average	Min	Max	Average	Min	Max	Average
2025-05-01	0.05	0.06	0.05	0.01	0.01	0.02	0.02	0.05	0.02
2025-05-02	0.05	0.07	0.06	0.02	0.03	0.02	0.02	0.03	0.02
2025-05-03	0.07	0.08	0.08	0.01	0.02	0.02	0.02	0.07	0.03
2025-05-04	0.08	0.10	0.09	0.01	0.05	0.02	0.02	0.05	0.03
2025-05-05	0.03	0.10	0.07	0.01	0.03	0.02	0.02	0.07	0.03
2025-05-06	0.02	0.05	0.03	0.02	0.04	0.02	0.01	0.03	0.02
2025-05-07	0.02	0.08	0.03	0.01	0.01	0.01	0.01	0.05	0.02
2025-05-08	0.02	0.03	0.03	0.01	0.03	0.02	0.01	0.03	0.02
2025-05-09	0.02	0.08	0.03	0.01	0.03	0.01	0.02	0.05	0.02
2025-05-10	0.02	0.03	0.03	0.01	0.04	0.02	0.02	0.04	0.02
2025-05-11	0.02	0.08	0.03	0.01	0.01	0.02	0.02	0.05	0.02
2025-05-12	0.02	0.03	0.03	0.02	0.03	0.02	0.02	0.03	0.02
2025-05-13	0.02	0.06	0.03	0.01	0.03	0.01	0.02	0.04	0.02
2025-05-14	0.02	0.03	0.03	0.01	0.03	0.02	0.02	0.04	0.02
2025-05-15	0.03	0.07	0.03	0.01	0.03	0.01	0.02	0.02	0.02
2025-05-16	0.02	0.04	0.03	0.02	0.02	0.02	0.02	0.04	0.02
2025-05-17	0.03	0.07	0.03	0.01	0.01	0.01	0.01	0.03	0.02
2025-05-18	0.02	0.04	0.02	0.01	0.02	0.01	0.02	0.04	0.02
2025-05-19	0.02	0.07	0.03	0.01	0.01	0.01	0.01	0.03	0.02
2025-05-20	0.02	0.03	0.03	0.02	0.02	0.02	0.01	0.04	0.02
2025-05-21	0.02	0.06	0.03	0.01	0.04	0.02	0.00	0.02	0.02
2025-05-22	0.02	0.03	0.02	0.03	0.06	0.03	0.02	0.06	0.02
2025-05-23	0.02	0.06	0.03	0.02	0.02	0.02	0.02	0.03	0.02
2025-05-24	0.02	0.02	0.02	0.02	0.04	0.02	0.02	0.05	0.02
2025-05-25	0.02	0.05	0.02	0.02	0.02	0.02	0.02	0.02	0.02
2025-05-26	0.02	0.02	0.02	0.02	0.05	0.03	0.02	0.06	0.02
2025-05-27	0.02	0.05	0.02	0.03	0.03	0.03	0.02	0.03	0.02
2025-05-28	0.02	0.04	0.02	0.03	0.05	0.03	0.02	0.05	0.02
2025-05-29	0.02	0.04	0.02	0.03	0.03	0.03	0.02	0.02	0.02
2025-05-30	0.02	0.03	0.02	0.02	0.04	0.02	0.02	0.05	0.02
2025-05-31	0.02	0.05	0.02	0.02	0.02	0.02	0.02	0.09	0.02

Notes:

UV Treatment:

Date	Average Flow (L/s)	Avg Validated Dose (mj/cm2)	UV Availability (%)
2025-05-01	143.50	39.06	99.93
2025-05-02	192.87	37.14	99.93
2025-05-03	194.30	36.24	99.93
2025-05-04	128.47	120.00	99.93
2025-05-05	188.38	38.14	99.93
2025-05-06	192.86	36.54	99.93
2025-05-07	207.06	38.62	99.93
2025-05-08	174.99	36.00	99.93
2025-05-09	169.51	36.88	99.93
2025-05-10	173.41	37.30	99.77
2025-05-11	172.76	37.80	83.22
2025-05-12	195.36	35.56	99.93
2025-05-13	159.64	37.54	99.93
2025-05-14	156.09	37.84	99.93
2025-05-15	175.51	36.32	99.93
2025-05-16	161.56	35.96	99.93
2025-05-17	160.26	37.84	99.93
2025-05-18	159.78	36.64	99.93
2025-05-19	158.09	37.10	99.93
2025-05-20	159.95	38.46	99.91
2025-05-21	165.27	36.06	97.66
2025-05-22	166.19	37.10	99.93
2025-05-23	221.17	36.60	99.93
2025-05-24	292.81	38.00	99.93
2025-05-25	337.09	37.54	99.93
2025-05-26	229.26	38.36	99.93
2025-05-27	279.65	37.16	99.93
2025-05-28	236.20	35.94	99.93
2025-05-29	314.96	99.93	99.93
2025-05-30	275.74	99.93	99.93
2025-05-31	314.77	99.90	99.90

Notes:

UV Transmittance %:

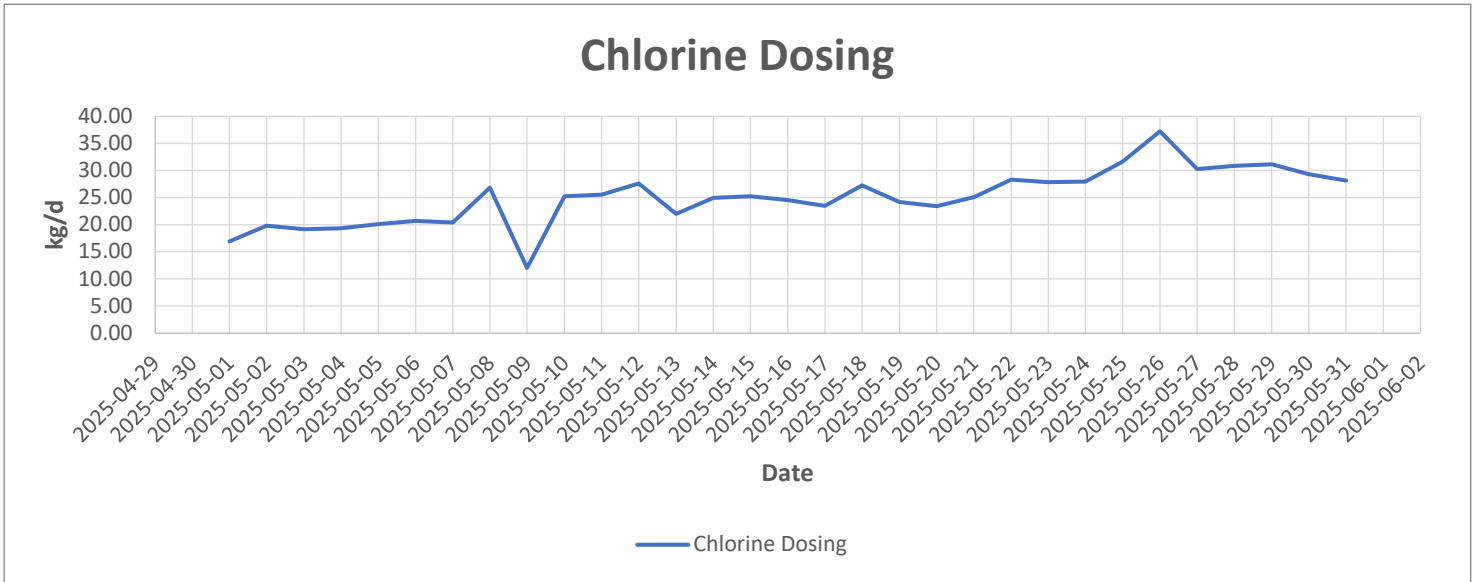
Date	Min	Max	Average
2025-05-01	89.10	89.50	89.29
2025-05-02	89.20	89.80	89.47
2025-05-03	89.10	89.60	89.40
2025-05-04	89.30	89.70	89.44
2025-05-05	89.30	89.80	89.51
2025-05-06	89.30	89.70	89.55
2025-05-07	89.50	90.00	89.78
2025-05-08	89.40	91.40	89.92
2025-05-09	89.40	90.10	89.71
2025-05-10	89.50	90.10	89.77
2025-05-11	89.60	90.00	89.76
2025-05-12	89.60	90.10	89.75
2025-05-13	89.70	90.20	89.90
2025-05-14	89.80	90.50	90.08
2025-05-15	90.00	90.60	90.23
2025-05-16	90.00	90.50	90.16
2025-05-17	90.00	90.70	90.32
2025-05-18	90.10	90.60	90.27
2025-05-19	90.10	90.70	90.32
2025-05-20	90.20	91.70	90.48
2025-05-21	90.10	93.70	90.47
2025-05-22	90.10	90.70	90.36
2025-05-23	89.90	90.50	90.28
2025-05-24	90.00	90.60	90.31
2025-05-25	90.10	90.50	90.31
2025-05-26	90.10	90.70	90.38
2025-05-27	90.60	91.20	90.93
2025-05-28	90.40	91.30	90.85
2025-05-29	89.90	98.90	90.59
2025-05-30	90.30	90.90	90.62
2025-05-31	90.30	90.80	90.60

Notes:

Chemical Demand:

Chlorine Used:

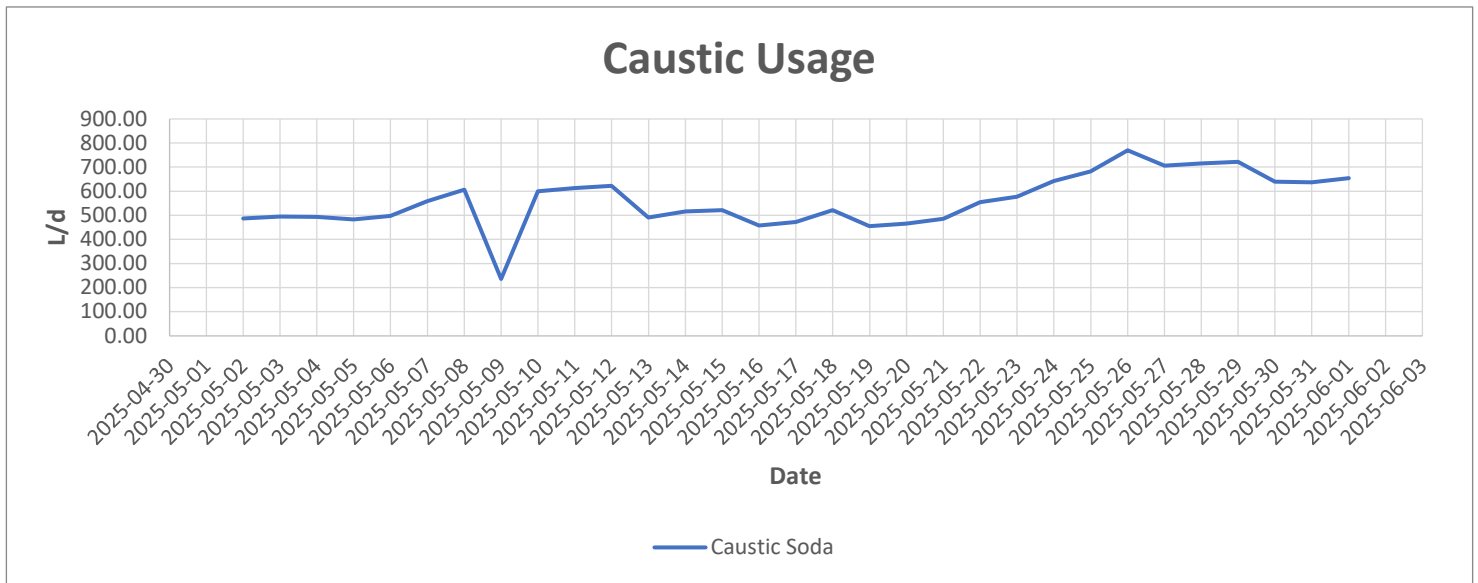
Total for Month
776.11 Kgs



Notes:

Caustic Soda Used:

Total for Month
17373.69 Litres

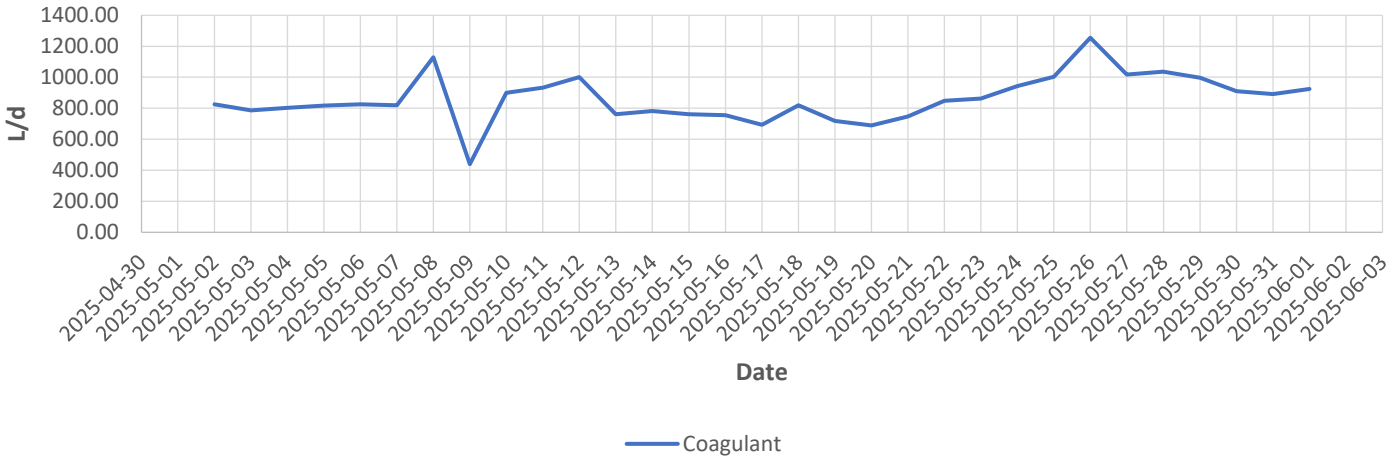


Notes:

Coagulant Used:

Total for Month
26688.47 Litres

Coagulant Usage



Notes:

DAF & Residual DAF Neat Polymer

Total for Month
411.22 L

Centrifuge Neat Polymer

Total for Month
965.76 L

Chlorine Dose

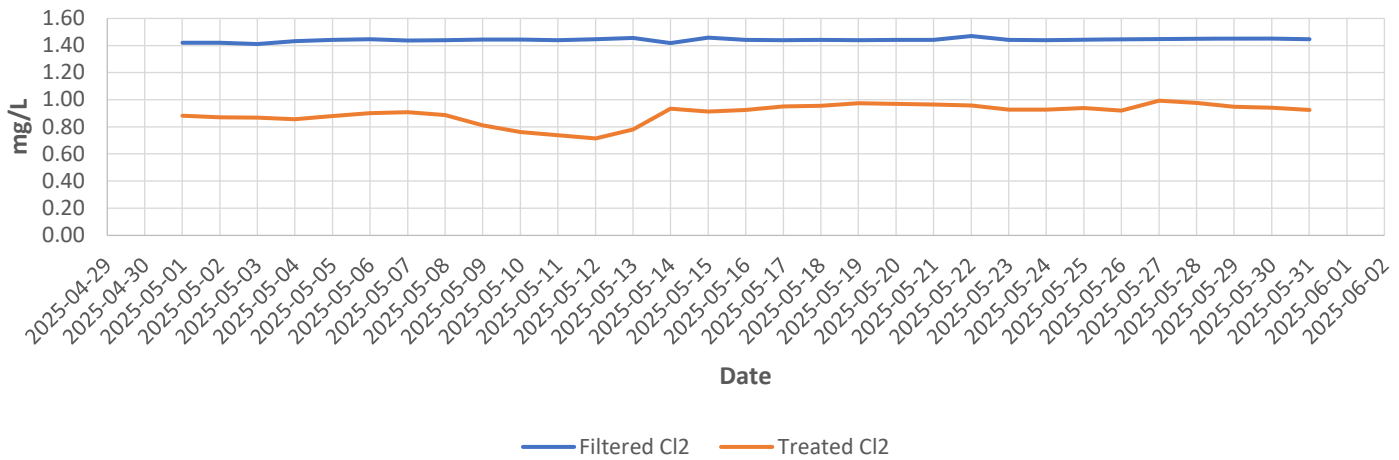
Filtered Water Residual Cl2 Average (mg/L):

1.44 mg/L

Treated Water (Distributed) Cl2 Average (mg/L):

0.90 mg/L

Average Residual Cl2 Content



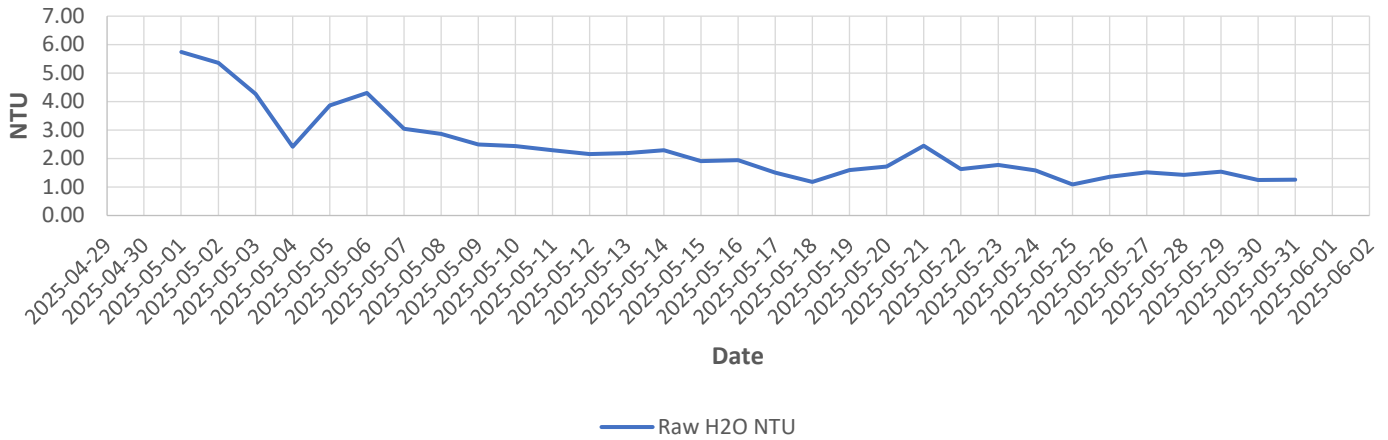
Water Quality Analytics:

Turbidity

Raw Water Monthly Average:

2.33 NTU

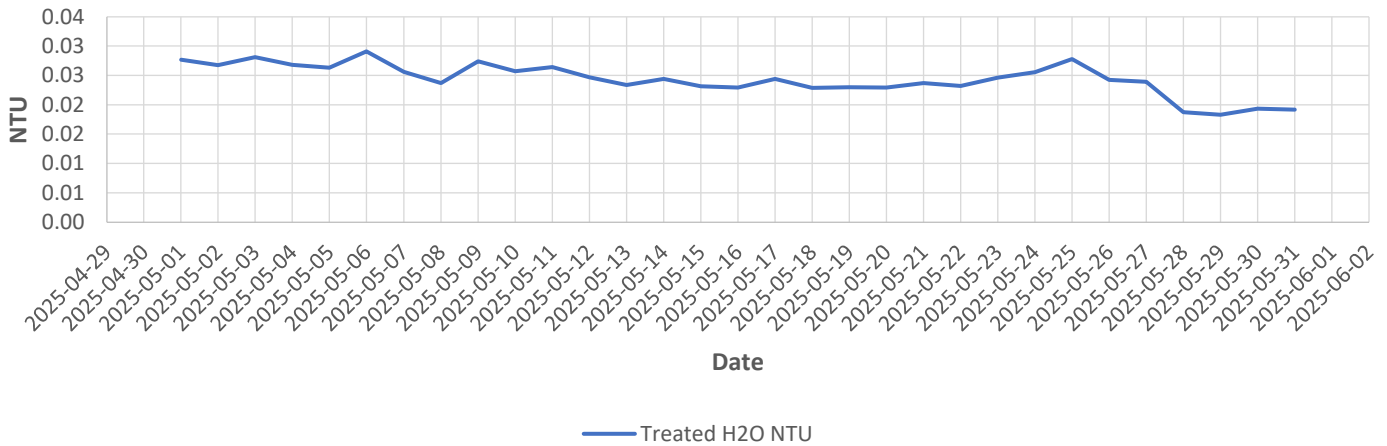
Monthly Turbidity



Treated Water Monthly Average:

0.02 NTU

Monthly Turbidity



Notes:

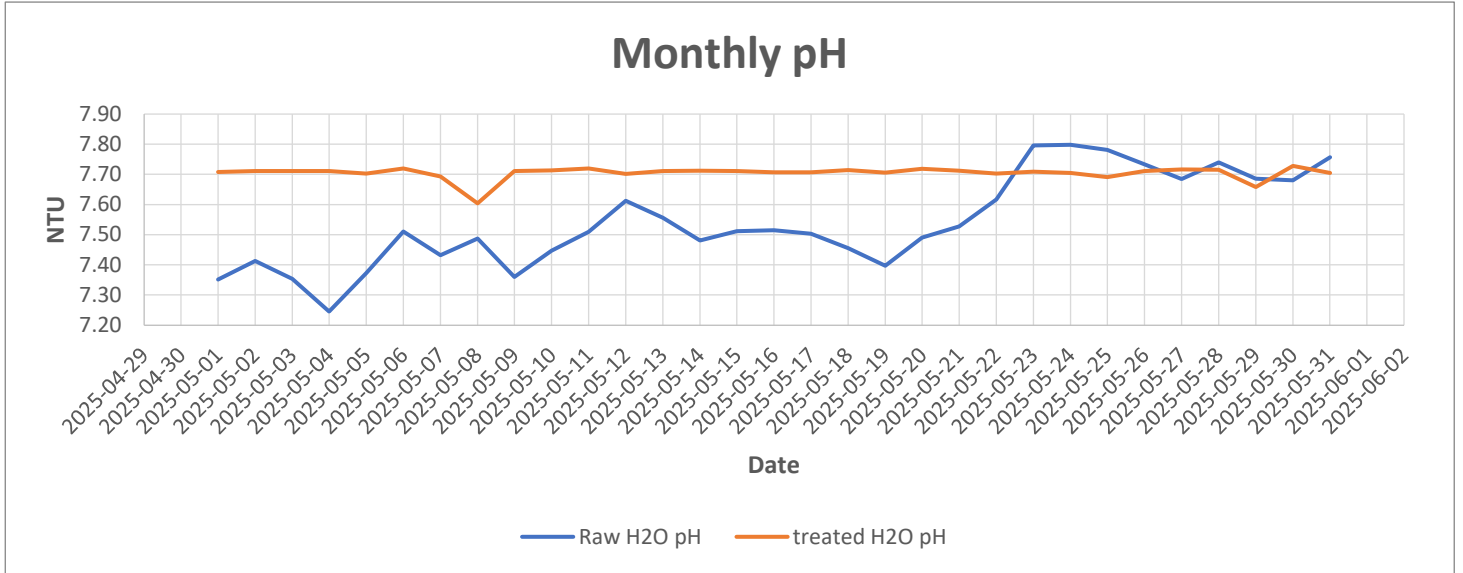
pH

Raw Water Monthly Average:

7.54 pH

Treated Water Monthly Average:

7.70 pH



Notes:

Powers Creek WTP Operational Highlights:

May 8th - Changed batteries in Plant UPS
May 9th - Chemical (AluPAC 4000 B) bulk load delivery
May 13th - Bi-monthly Intake screens #1 & #2 greasing, cleaned Y-strainers
May 13th - Clean & rinse centrifuge poly make down system
May 13th - 16th - Rebuild of flash mix pumps
May 14th - Changed Cl2 membrane on AIC-365 going into reservoir (every 5mo)
May 14th - Semi-annual clean & rinse residual DAF poly pumps
May 15th - Clean & rinse DAF poly make down system
May 15th - Moved to 4 bulbs in UV for the summer season
May 20th - New DAF saturator delivered, to be install during low flows
May 21st - Chemical (Caustic) bulk load delivery
May 21st - Spartan in to clean up SCADA system
May 22nd - Switched from 100lb to 200lb Cl2
May 22nd - Clean & calibrate pH analyzers
May 27th - dust control done by contractor on intake road to plant
May 27th - 29th - Annual greasing of all DAF Floc drive gear boxes
May 27th - 29th - Oil change on centrifuge sludge pump
May 28th - Changed Cl2 membrane on AI-396 leaving reservoir
May 29th - Swapped out Cl2 tonners
May 29th - UV Optiview cleaning & maintenance
May 29th - Flush, clean and zero streaming current

May Capital Projects

May 1st - 31st - Capital crew installed new bypass pipe, manholes & bridge at pond intake for Bypass project
May 9th - Paving completed by contractor on plant grounds for Hypo conversion project
May 21st - New Hypo tanks delivered for Hypo project
May 23rd - Hypo tanks installed in building by contractor

Power Creek Watershed Operational Highlights:

Lambly Lake

May 2nd - removed old log boom
May 6th - installed first set of flash boards
May 21st - Dam Inspection
May 26th - installed 2nd set of flash boards (level = 2783 acre feet)

Jackpine Lake

May 21st - Dam Inspection

Paynter Lake

May 28th - Dam Inspection - full and spilling

Horseshoe Lake

May 26th - Dam Inspection, brush cut center Dam - Full and spilling

Dobbin Lake

May 21st - Dam Inspection (Level 11" below full pool)

Tadpole Lake

May 22nd - Dam Inspection (Level 4" below full pool)
May 22nd - Piezometers completed

Definitions:

WATER DISTRIBUTION



Power's Creek Water Service Area – Distribution System Monitoring

May 2025

Water Quality Data Review

- Based on the distribution system sample monitoring data it appears the water quality objectives were met for free chlorine residual, turbidity and bacteriological parameters for the month.
 - Bacteriological Samples:
 - 24 samples to CARO for analysis
 - 8 samples analyzed in-house at RVWTP
 - All bacteriological sample results indicated <1 CFU/100mL for Total Coliforms and <1 CFU/100mL for *E.coli*.
- May 1, 2025 – Smith Creek Pump Station (SCPS) online FCR analyzer calibration adjustment 0.22mg/L increase.
- May 6, 2025 – Lateral One PS online turbidity analyzer spike during pump start and field sample tap flow activation causing the interference. The temporary reading noted was not representative of the water in the main at the time, and the Field Sample collected was measured at 0.23 NTU.
- May 13, 2025 – End-of-Line WQS field sample indicated the turbidity was 1.36 NTU. A bacteriological sample collected at the time indicated <1 CFU/100mL for Total Coliforms and <1 CFU/100mL for *E.coli* upon completion of the testing. A review of SCADA trending showed the Majoros PRV supplying Pressure Zone 449, which includes the End of Line Sample Station, experienced an unusual 15-minute-high flow at approximately 8:00am that morning. Operators were quickly deployed to investigate a potential cause of the high flow from unauthorized/unexpected hydrant or blowoff use etc. Unfortunately, no such evidence was found, a subsequent turbidity reading performed at the End of Line Sample Station later indicated an improved a value of 0.09NTU.
- May 27, 2025 – Q2 quarterly sampling was completed and all parameters measured appear to meet the Guidelines for Canadian Drinking Water Quality. See the summary of the 2025 Q2 – PCWSA WQ Analysis below.
- May 30, 2025 – Lateral One online FCR and Turbidity analyzer was cleaned and serviced by Electrical and Instrumentation Technician. Online FCR analyzer calibration adjustment 0.12mg/L increase.
- May 30, 2025 – Smith Creek Pump Station (SCPS) online FCR analyzer calibration adjustment 0.06mg/L increase.

Operational System Improvements/Events

- May 18, 2025 – A Glenway Rd shared service line leak was repaired.
- May 21, 2025 – 2” agricultural service line strike during authorized ditching works along Paynter Rd. It appears that the depth of cover over the service was unexpectedly insufficient and was improved as part of the repair works completed the same day.
- May 26, 2025 – Utility Department moved into the new Utility Operations Center at 2515 Bartley Crt.

WQ Field Data and Online Data

Sampling Location Table:

Sample Name	Civic Address	Pressure Zone	WQ Sampling Rationale
Lateral One PS	3188 Shetler Dr	630	1 st Customer water quality check.
Glenrosa PS	3149 Coventry Cres	673	Mid system water quality check. Water quality distributed throughout Glenrosa area.
Glenrosa Res	3313 Glenrosa Rd	673	Mid system water quality check on reservoir. Re-chlorination occurring at this location.
Smith Creek PS &Res	2802 Smith Creek Rd	630	Mid system water quality check. Water quality distributed throughout Smith Creek and downtown Westbank area.
Dixie Res	2850 Dixie Rd	630	Mid system water quality check.
End-of-Line WQS	4119 Gellatly Rd	449	End system water quality check.
Mclver SS	3036 Mclver Rd	626	Mid system water quality check.
Bulk Water Stn	3020 Shannon Lake Rd	583	End system water quality check. Water quality for bulk water filling and free water available to public.

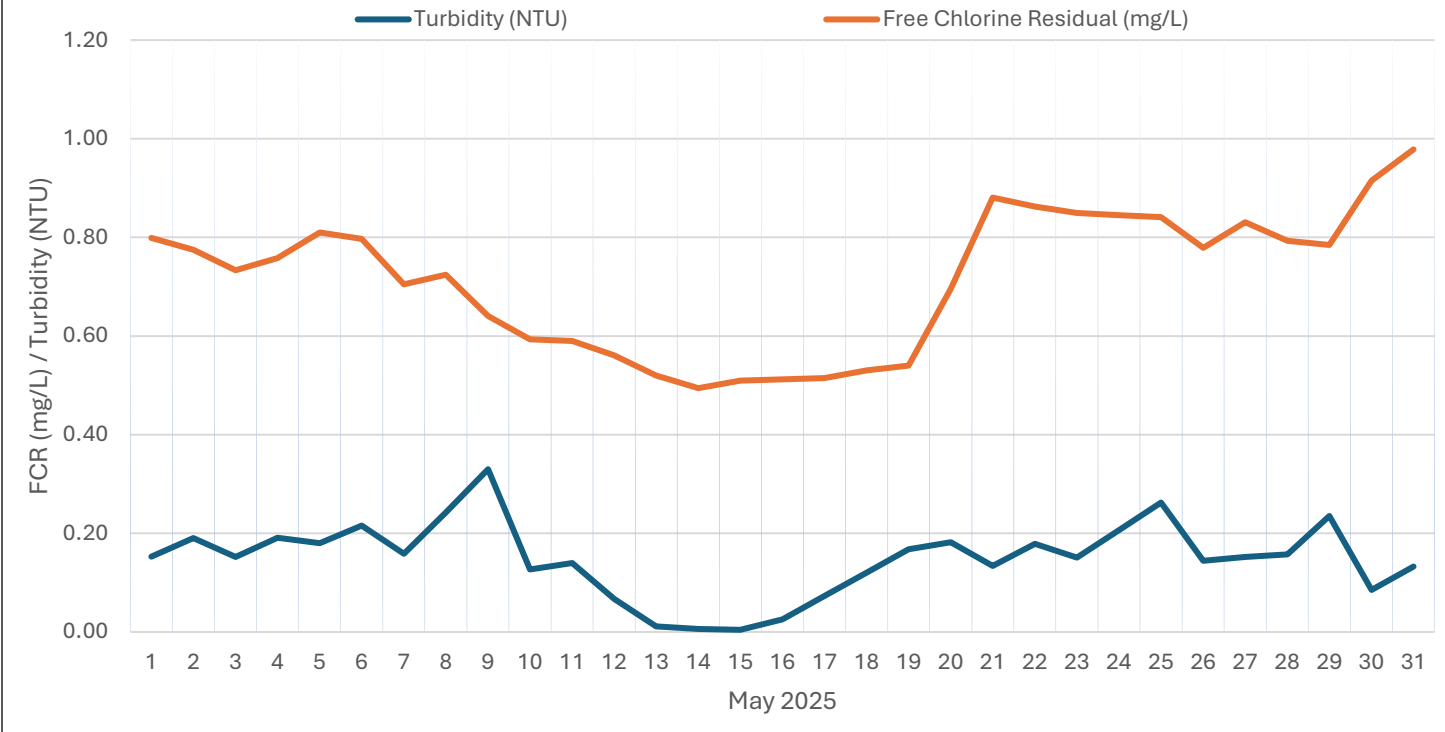
- **PS** = Pump Station
- **SS** = Sample Station
- **Res** = Reservoir
- **WQS** = Water Quality Station

Note: Water Quality (WQ) Field Data results reflect that of the noted location within the distribution system at the time of the grab sample collection.

Lateral One PS

Lateral One PS Online Data							
Date	L1 Water PH	L1 Turbidity	L1 Turbidity (Peak 1 Hr)	L1 Water Temp	L1 Chlorine Residual		
	Avg (pH)	Avg (NTU)	Max Based On 1 Hr Avg	Avg (°C)	Min (mg/L)	Max (mg/L)	Avg (mg/L)
May 2025							
1	7.74	0.15	0.19	8.43	0.65	0.92	0.80
2	7.62	0.19	0.23	8.98	0.63	0.91	0.77
3	7.61	0.15	0.32	9.61	0.57	0.85	0.73
4	7.94	0.19	0.26	9.13	0.55	0.89	0.76
5	7.99	0.18	0.29	8.90	0.66	0.95	0.81
6	7.72	0.22	0.80	9.25	0.63	0.90	0.80
7	7.36	0.16	0.41	9.98	0.60	0.82	0.70
8	7.36	0.24	0.38	10.19	0.55	1.25	0.72
9	7.61	0.33	0.50	10.01	0.55	0.71	0.64
10	7.63	0.13	0.26	10.44	0.50	0.67	0.59
11	7.68	0.14	0.36	10.46	0.47	0.67	0.59
12	7.87	0.07	0.07	11.07	0.48	0.64	0.56
13	7.98	0.01	0.02	13.01	0.47	0.60	0.52
14	7.93	0.01	0.01	14.00	0.48	0.52	0.49
15	8.09	0.00	0.02	14.40	0.49	0.54	0.51
16	8.13	0.03	0.07	14.51	0.50	0.54	0.51
17	8.14	0.07	0.12	14.54	0.49	0.54	0.52
18	8.35	0.12	0.17	15.04	0.52	0.55	0.53
19	8.52	0.17	0.21	15.43	0.52	0.56	0.54
20	8.49	0.18	0.25	13.76	0.53	0.95	0.70
21	8.43	0.13	0.18	11.86	0.79	0.95	0.88
22	8.38	0.18	0.22	12.39	0.74	0.95	0.86
23	8.25	0.15	0.23	13.27	0.76	0.94	0.85
24	8.09	0.21	0.61	13.84	0.74	0.90	0.84
25	7.93	0.26	0.80	14.60	0.73	0.92	0.84
26	7.98	0.14	0.19	15.83	0.71	0.85	0.78
27	7.96	0.15	0.32	14.78	0.73	0.95	0.83
28	7.72	0.16	0.27	14.83	0.67	0.86	0.79
29	7.60	0.24	0.34	16.20	0.70	0.90	0.78
30	7.96	0.08	0.13	15.83	0.64	1.12	0.92
31	7.82	0.13	0.20	16.28	0.85	1.07	0.98
Average	7.93	0.15		12.61	0.61	0.82	0.71
Min	7.36	0.00		8.43	0.47	0.52	0.49
Max	8.52	0.33	0.80	16.28	0.85	1.25	0.98

Lateral One PS Online Data



Lateral One PS Water Quality Field Data

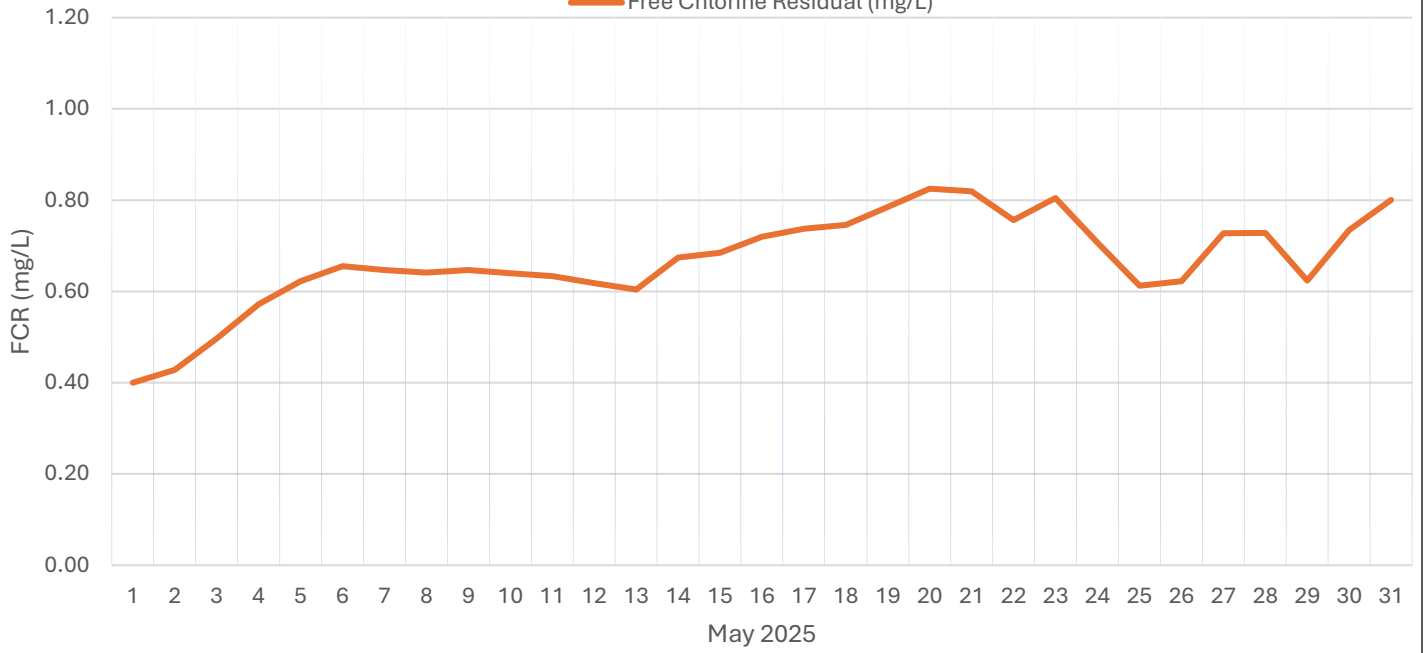
Date	Turbidity		Water Temp	FCR		pH
	Grab (NTU)	Online (NTU)	Grab (°C)	Grab (mg/L)	Online (mg/L)	
06-May-25	0.16	0.21	8.4	0.83	0.75	7.15
13-May-25	0.44	0.11	12.4	0.46	0.45	7.85
20-May-25	0.16	0.11	9.1	0.85	0.73	7.73
27-May-25	0.05	0.11	12.1	0.8	0.7	7.28
# of Samples	4	4	4	4	4	4
Average	0.2025	0.135	10.5	0.735	0.6575	7.5025
Range	0.05-0.44	0.11-0.21	8.4-12.4	0.46-0.85	0.45-0.75	7.15-7.85

Glenrosa PS & Reservoir

Glenrosa Pump Station & Reservoir Online Data							
Date	Flow Total From PS	Peak Flow From PS	Reservoir Water pH	Reservoir Water Temp	Chlorine Residual		
	(ML)	Max (ML/Day)	Avg (pH)	Avg (°C)	Min (mg/L)	Max (mg/L)	Avg (mg/L)
May 2025							
1	2.13	5.07	7.98	6.59	0.25	0.79	0.40
2	2.42	5.05	7.98	6.89	0.24	1.28	0.43
3	2.39	5.05	8.00	7.21	0.29	1.32	0.50
4	2.57	5.04	8.01	7.20	0.38	1.35	0.57
5	2.33	5.04	8.02	7.05	0.48	1.39	0.62
6	2.70	5.02	8.03	7.22	0.49	1.39	0.66
7	2.69	5.06	8.02	7.62	0.52	1.36	0.65
8	2.53	5.06	7.98	7.80	0.54	1.26	0.64
9	2.73	5.04	8.01	7.82	0.57	1.31	0.65
10	2.72	5.05	8.02	7.96	0.55	1.39	0.64
11	2.88	5.05	8.03	8.03	0.53	1.33	0.63
12	2.24	5.05	8.02	8.15	0.50	1.53	0.62
13	2.38	5.05	8.03	8.27	0.50	1.99	0.60
14	2.34	4.38	8.03	8.51	0.00	1.79	0.67
15	2.25	4.37	8.04	8.55	0.54	1.66	0.68
16	2.26	4.37	8.04	8.59	0.58	3.15	0.72
17	2.63	4.38	8.04	8.68	0.59	1.68	0.74
18	2.24	4.39	8.04	8.68	0.63	1.63	0.75
19	2.47	4.38	8.04	8.62	0.66	1.60	0.78
20	2.40	4.37	8.05	8.46	0.75	1.72	0.83
21	2.74	4.10	8.05	8.45	0.72	1.44	0.82
22	2.76	4.11	8.04	8.69	0.67	1.41	0.76
23	2.79	4.10	8.05	9.12	0.60	3.12	0.80
24	3.19	4.09	8.04	9.52	0.52	0.95	0.71
25	3.62	8.16	8.02	9.89	0.42	0.90	0.61
26	2.77	4.12	8.03	10.62	0.39	1.28	0.62
27	3.27	8.18	8.05	10.42	0.38	2.58	0.73
28	3.36	4.42	8.05	10.55	0.47	1.98	0.73
29	2.67	4.51	8.03	10.96	0.46	1.84	0.62
30	2.94	4.40	8.05	11.16	0.48	1.74	0.73
31	3.01	4.40	8.06	11.22	0.56	8.92	0.80
Total	80						
Average	2.66	4.87	8.03	8.66	0.49	1.84	0.67
Min	2.13	4.09	7.98	6.59	0.00	0.79	0.40
Max	3.62	8.18	8.06	11.22	0.75	8.92	0.83

Glenrosa Reservoir Online Data

Free Chlorine Residual (mg/L)



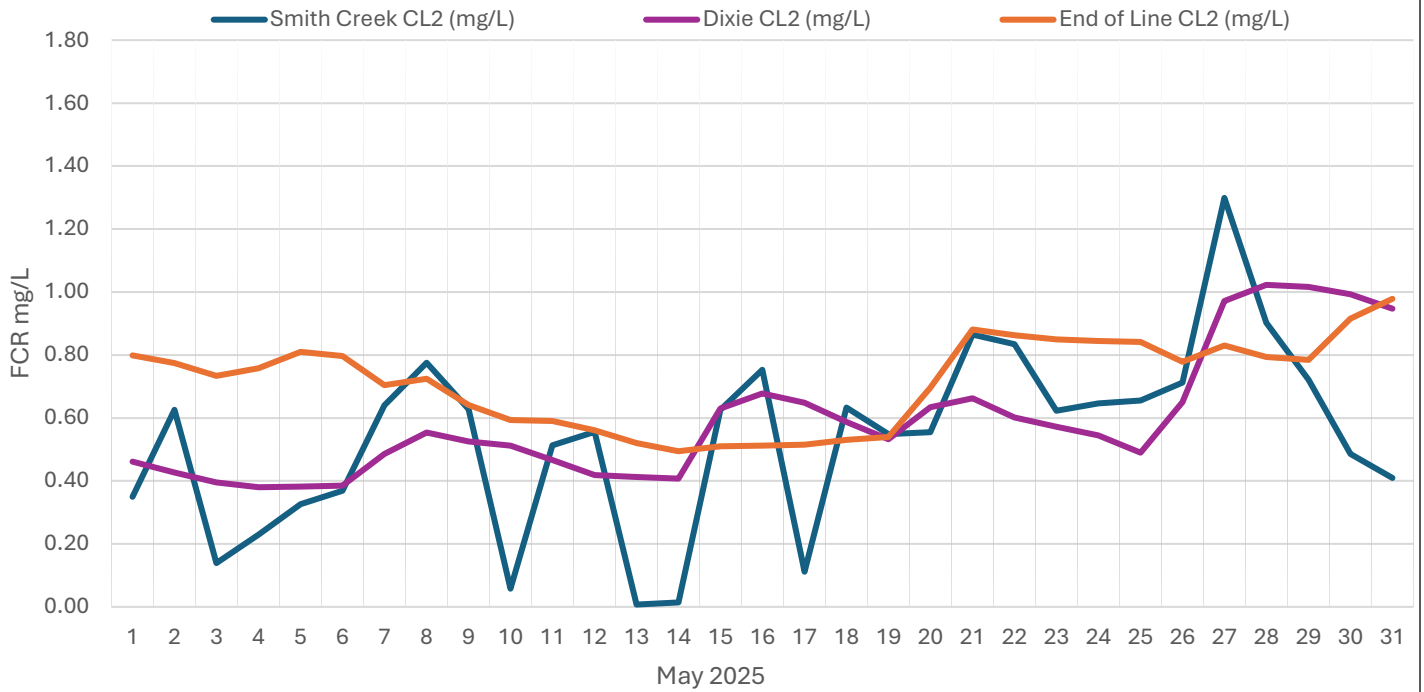
Smith Creek Reservoir, Dixie Reservoir & End-of-Line WQS

Date	Smith Creek Reservoir FCR Online Data		
	Min (mg/L)	Max (mg/L)	Avg (mg/L)
May 2025			
1	0.01	0.73	0.35
2	0.20	0.73	0.63
3	0.07	0.21	0.14
4	0.07	0.40	0.23
5	0.13	0.47	0.33
6	0.10	0.54	0.37
7	0.14	0.96	0.64
8	0.69	0.84	0.78
9	0.08	0.90	0.63
10	0.00	0.26	0.06
11	0.21	0.75	0.51
12	0.01	0.74	0.56
13	0.01	0.01	0.01
14	0.00	0.10	0.01
15	0.01	1.08	0.63
16	0.10	0.99	0.75
17	0.01	0.48	0.11
18	0.44	0.81	0.63
19	0.02	0.84	0.55
20	0.00	1.01	0.55
21	0.79	0.92	0.86
22	0.76	0.89	0.83
23	0.04	0.88	0.62
24	0.58	0.70	0.65
25	0.59	0.78	0.66
26	0.01	1.32	0.71
27	0.18	1.61	1.30
28	0.12	1.54	0.90
29	0.05	1.38	0.72
30	0.03	0.88	0.49
31	0.01	0.77	0.41
Average	0.17	0.79	0.54
Min	0.00	0.01	0.01
Max	0.79	1.61	1.30

Dixie Reservoir FCR Online Data		
Min (mg/L)	Max (mg/L)	Avg (mg/L)
0.42	0.50	0.46
0.40	0.46	0.43
0.36	0.42	0.39
0.00	2.84	0.38
0.34	0.42	0.38
0.35	0.40	0.39
0.32	0.61	0.49
0.51	0.59	0.55
0.48	0.57	0.52
0.46	0.55	0.51
0.40	0.51	0.47
0.37	0.48	0.42
0.37	0.45	0.41
0.34	0.53	0.41
0.48	0.74	0.63
0.63	0.72	0.68
0.59	0.70	0.65
0.51	0.64	0.59
0.48	0.59	0.53
0.50	0.73	0.63
0.61	0.70	0.66
0.55	0.63	0.60
0.53	0.61	0.57
0.49	0.57	0.54
0.44	0.52	0.49
0.42	0.90	0.65
0.84	1.05	0.97
0.98	1.06	1.02
0.96	1.05	1.02
0.95	1.02	0.99
0.91	0.97	0.95
0.52	0.73	0.59
0.00	0.40	0.38
0.98	2.84	1.02

End of The Line FCR Online Data		
Min (mg/L)	Max (mg/L)	Avg (mg/L)
0.57	0.66	0.61
0.55	0.62	0.59
0.50	0.64	0.57
0.45	0.59	0.52
0.48	0.62	0.56
0.60	0.70	0.64
0.56	0.65	0.59
0.51	0.63	0.55
0.43	0.61	0.49
0.38	0.60	0.44
0.37	0.48	0.42
0.32	0.41	0.36
0.33	0.53	0.37
0.00	0.58	0.52
0.44	0.59	0.51
0.51	0.57	0.54
0.55	0.64	0.60
0.50	0.61	0.55
0.50	0.64	0.58
0.56	0.66	0.60
0.58	0.66	0.62
0.59	0.66	0.61
0.57	0.66	0.61
0.59	0.74	0.65
0.59	0.78	0.66
0.48	0.72	0.57
0.56	0.70	0.61
0.58	0.72	0.64
0.55	0.72	0.63
0.57	0.67	0.61
0.57	0.66	0.63
0.50	0.64	0.56
0.00	0.41	0.36
0.60	0.78	0.66

Smith Creek Reservoir, Dixie Reservoir & End-of-Line WQS Online Data



End-of-Line WQS Water Quality Field Data

Date	Turbidity	Water Temp	FCR		pH
	Grab (NTU)	Grab (°C)	Grab (mg/L)	Online (mg/L)	
06-May-25	0.15	9.7	0.5	0.63	7.1
13-May-25	1.36 (and later 0.09)	11	0.42	0.45	7.84
20-May-25	0.08	11.3	0.56	0.61	7.83
27-May-25	0.12	12.3	0.57	0.62	7.2
# of Samples	4	4	4	4	4
Average	0.4275	11.075	0.5125	0.5775	7.4925
Range	0.08-1.36	9.7-12.3	0.42-0.57	0.45-0.63	7.1-7.84

WQ Field Data

Mclver SS

Mclver SS Water Quality Field Data				
Date	Turbidity	Water Temp	Free Chlorine Residual	pH
	Grab (NTU)	Grab (°C)	Grab (mg/L)	
06-May-25	0.09	9.2	0.61	7.19
13-May-25	0.08	14.5	0.4	7.84
20-May-25	0.14	10.3	0.64	7.81
27-May-25	0.16	11.6	0.54	7.25
# of Samples	4	4	4	4
Average	0.1175	11.4	0.5475	7.5225
Range	0.08-0.16	9.2-14.5	0.4-0.64	7.19-7.84

Bulk Water Station (Stn)

Bulk Water Station Water Quality Field Data				
Date	Turbidity	Water Temp	Free Chlorine Residual	pH
	Grab (NTU)	Grab (°C)	Grab (mg/L)	
06-May-25	0.22	9.5	0.52	7.19
13-May-25	0.44	15.3	0.39	7.77
20-May-25	0.13	11.1	0.58	7.68
27-May-25	0.19	13	0.36	7.29
# of Samples	4	4	4	4
Average	0.245	12.225	0.4625	7.4825
Range	0.13-0.44	9.5-15.3	0.36-0.58	7.19-7.77

2025 Q2 – PCWSA WQ Analysis

Disinfection Byproducts

Powers Creek Water Service Area - THM Results (mg/L) MAC=0.10mg/L

Date	Lateral One PS	End-of-Line	Mclver SS
13-May-24	0.0211	0.0272	0.0281
12-Aug-24	0.0368	0.0475	0.0404
27-Nov-24	0.0218	0.0486	0.0552
25-Feb-25	0.0382	0.0402	0.0766
27-May-25	0.0267	0.0412	0.0450
Average	0.0289	0.0409	0.0491

Powers Creek Water Service Area - HAA5 Results (mg/L) MAC=0.08mg/L

Date	Lateral One PS	End-of-Line	Mclver SS
13-May-24	0.0211	0.0272	0.0281
12-Aug-24	0.0205	0.0242	0.0212
27-Nov-24	0.0264	0.0382	0.0476
25-Feb-25	0.0238	0.0300	0.0351
27-May-25	0.0218	0.0308	0.0383
Average	0.0227	0.0301	0.0341

Manganese

Power's Creek Water Service Area - Manganese (mg/L) MAC=0.12mg/L

Location	13-May-24	12-Aug-24	27-Nov-24	25-Feb-25	27-May-25	Average
Lateral One	0.00239	0.00402	0.00383	0.00442	0.00284	0.00350
Mclver	0.00097	0.00122	0.00256	0.00221	0.00901	0.003194
End-of-Line	0.00086	0.00132	0.00119	0.00733	0.00714	0.003568