

CITY OF WEST KELOWNA

Monthly Water Quality Report



Powers Creek Water Service Area

January 2026

WATER SUPPLY AND TREATMENT





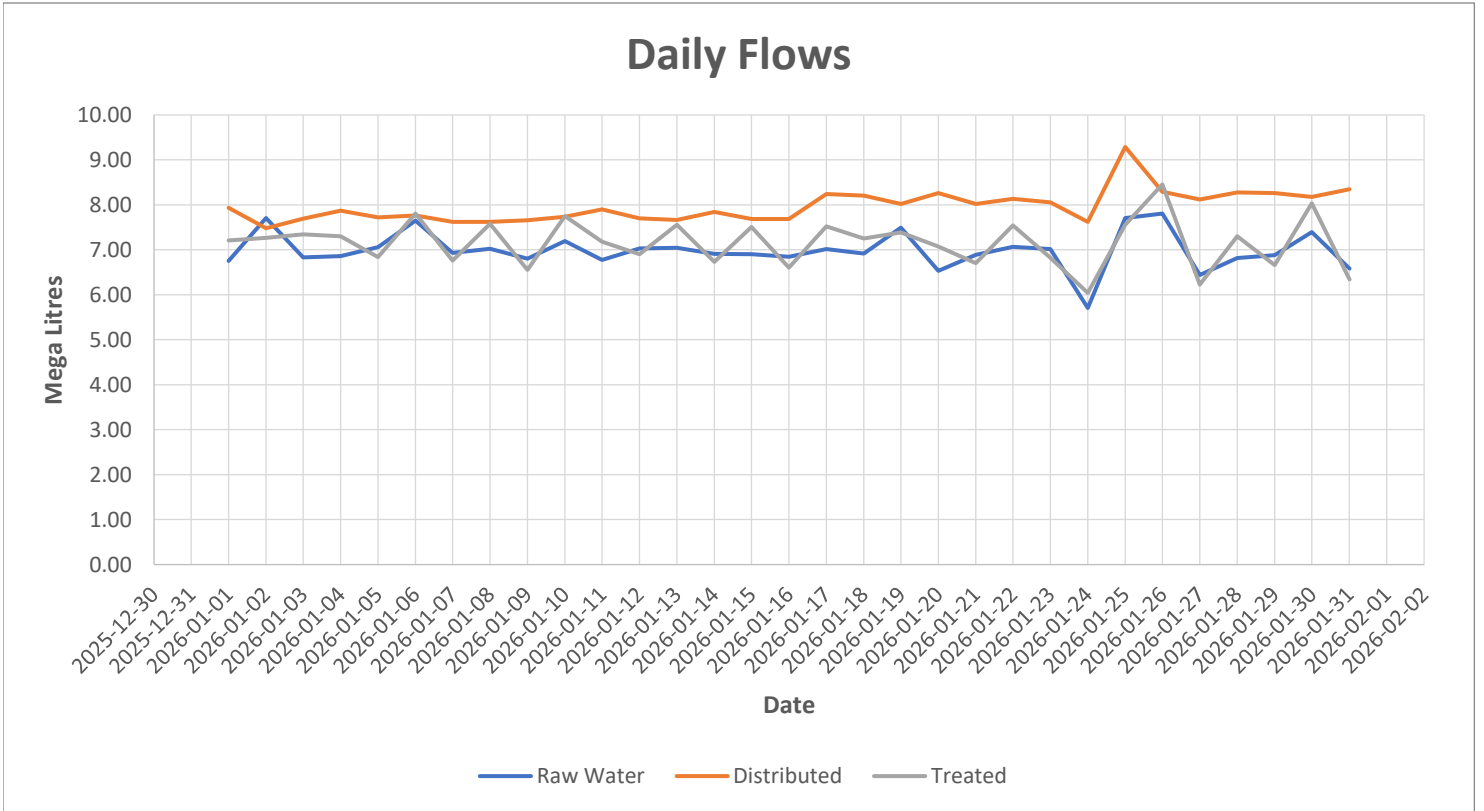
Powers Creek Water Treatment Plant Monthly Water Quality Summary

2026-02-10

January, 2026

Flow Demand:

	Total for Month
Raw Processed Water:	216.58 ML
Treated Water :	221.81 ML
Distributed Water :	246.88 ML
Backwash Water :	9.23 ML



Notes:

Raw Water Specifications:

Date	Raw Turbidity (NTU)			Raw pH		
	Min	Max	Average	Min	Max	Average
2026-01-01	1.77	4.99	2.06	7.64	7.71	7.68
2026-01-02	1.29	3.55	1.91	7.65	7.76	7.71
2026-01-03	1.38	3.87	1.55	7.66	7.72	7.69
2026-01-04	0.93	3.07	1.21	7.65	7.74	7.70
2026-01-05	1.09	3.92	1.42	7.63	7.78	7.70
2026-01-06	1.10	3.19	1.32	7.62	7.78	7.70
2026-01-07	1.34	6.29	1.63	7.69	7.80	7.74
2026-01-08	1.02	2.42	1.37	7.66	7.76	7.71
2026-01-09	0.64	2.02	0.95	7.64	7.75	7.69
2026-01-10	0.98	3.80	1.46	7.63	7.74	7.68
2026-01-11	1.35	4.54	1.79	7.66	7.74	7.71
2026-01-12	0.87	3.05	1.16	7.70	7.76	7.73
2026-01-13	1.30	2.91	1.67	7.68	7.79	7.73
2026-01-14	1.44	4.32	1.64	7.67	7.75	7.71
2026-01-15	1.00	3.05	1.27	7.64	7.71	7.67
2026-01-16	1.13	3.00	1.39	7.60	7.68	7.64
2026-01-17	1.69	6.16	2.42	7.57	7.66	7.61
2026-01-18	1.12	2.97	1.62	7.59	7.68	7.64
2026-01-19	1.00	2.54	1.25	7.65	7.78	7.71
2026-01-20	0.91	2.56	1.09	7.63	7.78	7.70
2026-01-21	1.09	2.93	1.29	7.62	7.73	7.68
2026-01-22	1.18	6.48	1.68	7.65	7.79	7.72
2026-01-23	0.75	1.84	0.91	7.67	7.76	7.71
2026-01-24	0.93	4.52	1.60	7.54	7.69	7.60
2026-01-25	1.13	3.82	1.61	7.58	7.72	7.65
2026-01-26	2.34	5.94	3.33	7.68	7.79	7.73
2026-01-27	1.65	6.31	2.09	7.48	7.72	7.66
2026-01-28	1.41	3.88	1.83	7.63	7.74	7.68
2026-01-29	1.41	6.71	2.18	7.65	7.73	7.69
2026-01-30	1.54	5.70	2.11	7.67	7.77	7.72
2026-01-31	1.29	3.26	2.10	7.65	7.73	7.69

Notes:

Raw Water Specifications (Continued):

Date	Raw Temp (°C)			Raw DOC (mg/L)		
	Min	Max	Average	Min	Max	Average
2026-01-01	0.93	1.05	0.97	8.97	9.22	9.10
2026-01-02	0.95	1.72	1.29	8.84	9.12	8.99
2026-01-03	1.70	2.05	1.90	8.60	8.94	8.78
2026-01-04	2.04	2.54	2.21	8.55	8.80	8.70
2026-01-05	2.31	4.57	2.50	8.46	8.86	8.64
2026-01-06	2.38	2.60	2.47	8.32	9.95	8.44
2026-01-07	2.35	2.53	2.45	8.21	8.54	8.32
2026-01-08	2.02	2.37	2.21	8.14	8.44	8.23
2026-01-09	1.77	2.81	1.91	7.99	8.34	8.14
2026-01-10	1.98	2.34	2.12	7.98	8.28	8.08
2026-01-11	2.30	2.46	2.36	7.79	8.08	7.92
2026-01-12	2.33	2.70	2.50	7.68	7.92	7.80
2026-01-13	2.67	3.05	2.87	7.66	7.92	7.75
2026-01-14	2.84	3.30	3.04	7.87	8.90	8.25
2026-01-15	2.77	3.27	3.03	8.87	9.91	9.45
2026-01-16	2.00	2.76	2.32	9.74	10.03	9.88
2026-01-17	1.47	2.02	1.69	9.60	9.93	9.79
2026-01-18	1.15	1.48	1.31	9.52	9.81	9.68
2026-01-19	0.99	4.11	1.07	9.33	12.30	9.47
2026-01-20	0.88	1.19	0.98	9.00	9.38	9.23
2026-01-21	0.87	1.01	0.96	8.90	9.23	9.03
2026-01-22	0.83	1.10	0.97	8.77	9.09	8.87
2026-01-23	0.92	1.35	1.05	8.66	8.94	8.80
2026-01-24	0.92	1.14	1.01	8.72	9.24	8.99
2026-01-25	0.80	1.03	0.90	9.22	9.97	9.52
2026-01-26	0.76	2.49	0.86	9.42	10.01	9.77
2026-01-27	0.73	0.96	0.84	8.54	9.32	8.84
2026-01-28	0.70	0.93	0.79	8.27	8.58	8.43
2026-01-29	0.77	0.90	0.81	7.86	8.35	8.09
2026-01-30	0.91	1.89	1.49	???	96.30	6.75
2026-01-31	1.88	2.28	2.04	6.99	7.31	7.14

Notes:

Jan 30th - DOC taken offline for servicing resulting in min value displaying "???"

Raw Water Specifications (Continued):

Date	Raw Cond ($\mu\text{S}/\text{cm}$)			Streaming Current		
	Min	Max	Average	Min	Max	Average
2026-01-01	90.33	91.76	91.11	50.12	73.89	59.39
2026-01-02	77.32	92.36	90.44	???	75.87	48.53
2026-01-03	89.87	91.68	90.56	45.09	65.59	53.56
2026-01-04	88.86	90.80	89.93	45.09	67.81	56.82
2026-01-05	-0.25	91.59	90.05	37.17	75.82	53.45
2026-01-06	91.25	92.93	91.97	???	50.96	5.41
2026-01-07	92.82	94.31	93.60	-11.30	19.44	-0.25
2026-01-08	94.09	95.11	94.63	-8.20	7.28	-1.17
2026-01-09	-0.10	97.83	95.67	-12.15	16.58	-0.96
2026-01-10	94.97	97.02	95.84	-10.22	7.80	-0.55
2026-01-11	95.45	97.40	96.17	-8.05	10.26	1.15
2026-01-12	95.19	97.00	95.88	-11.42	14.45	-0.32
2026-01-13	94.41	97.02	95.47	-16.16	4.01	-5.11
2026-01-14	89.59	94.88	93.51	-17.33	10.21	-7.02
2026-01-15	88.05	89.74	89.17	-20.90	5.27	-8.83
2026-01-16	87.98	90.12	88.94	-18.88	16.58	-8.05
2026-01-17	89.38	91.46	90.42	-18.14	8.18	-7.14
2026-01-18	90.72	92.96	91.93	-16.14	8.21	-6.24
2026-01-19	-0.19	93.77	92.89	-20.05	21.37	-6.49
2026-01-20	92.70	94.52	93.79	???	25.35	-13.67
2026-01-21	93.40	95.38	94.56	-18.04	3.18	-10.39
2026-01-22	94.45	95.09	94.71	-16.21	-3.09	-9.64
2026-01-23	95.05	97.70	96.19	-20.02	-0.14	-8.77
2026-01-24	98.84	108.97	104.42	-22.96	-5.98	-14.92
2026-01-25	99.29	107.32	104.22	-24.91	-0.16	-15.54
2026-01-26	0.02	96.65	92.11	-11.42	12.36	0.70
2026-01-27	89.14	90.80	89.75	-39.05	16.55	7.41
2026-01-28	90.26	91.34	90.66	-68.78	22.58	10.17
2026-01-29	91.22	93.33	92.30	1.96	24.59	10.70
2026-01-30	90.59	91.62	91.18	0.96	18.60	7.98
2026-01-31	90.59	93.60	91.92	-11.32	17.34	1.46

Notes:

Jan 2nd - Streaming current taken offline for cleaning resulting in min reading displaying "???"
 Jan 6th - Streaming current taken offline for cleaning & calibrating resulting in min reading displaying "???"
 Jan 20th Streaming current taken offline for cleaning resulting in min reading displaying "???"

Raw Water Specifications (Continued):

Date	Coagulated pH			Coagulated Temp (°C)		
	Min	Max	Average	Min	Max	Average
2026-01-01	6.97	7.01	6.99	1.32	1.46	1.37
2026-01-02	6.98	7.15	7.02	1.25	10.14	1.74
2026-01-03	7.01	7.06	7.03	2.30	2.72	2.60
2026-01-04	7.00	7.04	7.02	2.68	3.11	2.90
2026-01-05	7.01	7.19	7.06	2.79	5.28	3.20
2026-01-06	7.06	7.17	7.10	3.31	11.39	3.79
2026-01-07	7.07	7.16	7.11	3.38	3.83	3.56
2026-01-08	7.09	7.14	7.11	3.21	3.81	3.52
2026-01-09	7.07	7.14	7.11	2.35	3.34	2.59
2026-01-10	7.10	7.15	7.13	2.48	2.97	2.64
2026-01-11	7.11	7.14	7.13	2.89	3.27	3.05
2026-01-12	7.11	7.17	7.14	2.85	3.31	3.13
2026-01-13	7.12	7.18	7.15	3.17	3.76	3.48
2026-01-14	7.08	7.18	7.12	3.12	3.70	3.41
2026-01-15	7.08	7.14	7.11	3.40	3.74	3.54
2026-01-16	6.96	7.21	7.05	2.37	14.97	2.82
2026-01-17	6.95	7.02	7.00	2.30	2.53	2.39
2026-01-18	7.00	7.03	7.01	2.16	2.34	2.28
2026-01-19	6.99	7.15	7.05	0.71	3.33	1.46
2026-01-20	7.00	7.05	7.02	1.22	6.66	1.45
2026-01-21	7.02	7.07	7.04	1.56	2.02	1.83
2026-01-22	7.01	7.04	7.03	1.55	1.82	1.65
2026-01-23	7.00	7.07	7.03	1.48	1.91	1.71
2026-01-24	7.02	7.08	7.05	1.60	2.05	1.86
2026-01-25	7.06	7.09	7.07	1.73	1.92	1.82
2026-01-26	6.93	7.04	6.97	1.05	3.78	1.36
2026-01-27	6.93	7.13	7.00	0.63	1.28	1.03
2026-01-28	6.95	7.03	6.99	1.32	1.64	1.46
2026-01-29	6.98	7.06	7.01	1.65	1.95	1.75
2026-01-30	6.97	7.02	6.99	2.02	2.69	2.36
2026-01-31	6.97	7.04	7.01	2.79	3.29	3.03

Notes:

Train 1 Filter Turbidity (NTU):

Date	Filter 1			Filter 2			Filter 3		
	Min	Max	Average	Min	Max	Average	Min	Max	Average
2026-01-01	0.06	0.08	0.06	0.03	0.05	0.03	0.01	0.04	0.01
2026-01-02	0.03	0.08	0.04	0.03	0.04	0.03	0.01	0.07	0.02
2026-01-03	0.02	0.03	0.02	0.04	0.05	0.05	0.02	0.02	0.02
2026-01-04	0.01	0.06	0.02	0.06	0.07	0.06	0.02	0.05	0.02
2026-01-05	0.02	0.07	0.02	0.05	0.07	0.06	0.02	0.04	0.03
2026-01-06	0.02	0.02	0.02	0.06	0.07	0.06	0.04	0.05	0.04
2026-01-07	0.02	0.02	0.02	0.06	0.09	0.07	0.01	0.05	0.03
2026-01-08	0.02	0.03	0.02	0.06	0.09	0.07	0.01	0.02	0.01
2026-01-09	0.02	0.03	0.03	0.06	0.07	0.06	0.01	0.04	0.01
2026-01-10	0.01	0.03	0.02	0.06	0.07	0.07	0.01	0.02	0.02
2026-01-11	0.02	0.03	0.02	0.07	0.09	0.08	0.02	0.03	0.02
2026-01-12	0.02	0.08	0.03	0.06	0.08	0.07	0.01	0.03	0.02
2026-01-13	0.03	0.03	0.03	0.05	0.08	0.06	0.01	0.02	0.01
2026-01-14	0.03	0.03	0.03	0.02	0.07	0.05	0.01	0.02	0.01
2026-01-15	0.03	0.04	0.03	0.02	0.03	0.02	0.01	0.01	0.01
2026-01-16	0.02	0.04	0.03	0.02	0.11	0.02	0.01	0.02	0.01
2026-01-17	0.02	0.04	0.02	0.02	0.04	0.03	0.01	0.02	0.02
2026-01-18	0.02	0.13	0.05	0.02	0.04	0.02	0.02	0.02	0.02
2026-01-19	0.02	0.17	0.04	0.02	0.06	0.02	0.02	0.02	0.02
2026-01-20	0.03	0.03	0.03	0.02	0.06	0.02	0.02	0.02	0.02
2026-01-21	0.02	0.05	0.03	0.02	0.09	0.03	0.02	0.03	0.02
2026-01-22	0.01	0.04	0.02	0.02	0.04	0.03	0.02	0.02	0.02
2026-01-23	0.02	0.03	0.03	0.02	0.03	0.02	0.01	0.04	0.02
2026-01-24	0.03	0.03	0.03	0.02	0.04	0.02	0.01	0.01	0.01
2026-01-25	0.03	0.04	0.03	0.03	0.07	0.03	0.01	0.09	0.02
2026-01-26	0.03	0.04	0.04	0.03	0.08	0.03	0.02	0.03	0.02
2026-01-27	0.04	0.05	0.04	0.02	3.73	0.03	0.01	0.03	0.02
2026-01-28	0.04	0.04	0.04	0.02	0.03	0.03	0.01	0.01	0.01
2026-01-29	0.03	0.05	0.03	0.02	0.03	0.03	0.01	0.03	0.01
2026-01-30	0.02	0.03	0.02	0.03	0.03	0.03	0.01	0.02	0.02
2026-01-31	0.02	0.07	0.03	0.04	0.04	0.04	0.02	0.02	0.02

Notes:

Jan 27th - Turbidity Spike on Filter 2 occurred after a backwash while the filter was offline. Spike lasted 2 minutes, Turbidity unit was cleaned after occurrence

Train 2 Filter Turbidity (NTU)

Date	Filter 4			Filter 5			Filter 6		
	Min	Max	Average	Min	Max	Average	Min	Max	Average
2026-01-01	0.02	0.02	0.02	0.03	0.04	0.04	0.01	0.21	0.02
2026-01-02	0.01	0.06	0.02	0.04	0.04	0.04	0.02	0.10	0.02
2026-01-03	0.02	0.03	0.02	0.04	0.04	0.04	0.02	0.04	0.02
2026-01-04	0.02	0.02	0.02	0.04	0.06	0.05	0.02	0.05	0.02
2026-01-05	0.01	0.03	0.02	0.06	0.07	0.07	0.02	0.04	0.02
2026-01-06	0.02	0.03	0.02	0.07	0.08	0.07	0.02	0.05	0.02
2026-01-07	0.01	0.03	0.02	0.07	0.07	0.07	0.01	0.05	0.02
2026-01-08	0.02	0.02	0.02	0.08	0.12	0.09	0.01	0.04	0.01
2026-01-09	0.02	0.03	0.02	0.06	0.07	0.06	0.01	0.05	0.02
2026-01-10	0.01	0.04	0.02	0.07	0.07	0.07	0.02	0.06	0.02
2026-01-11	0.01	0.02	0.02	0.06	0.06	0.06	0.02	0.06	0.02
2026-01-12	0.02	0.03	0.02	0.06	0.07	0.06	0.02	0.05	0.02
2026-01-13	0.02	0.03	0.02	0.06	0.06	0.06	0.01	0.05	0.02
2026-01-14	0.02	0.05	0.02	0.03	0.09	0.04	0.01	0.06	0.02
2026-01-15	0.02	0.03	0.02	0.02	0.03	0.03	0.02	0.03	0.02
2026-01-16	0.02	0.02	0.02	0.02	0.03	0.03	0.02	0.06	0.02
2026-01-17	0.02	0.02	0.02	0.03	0.03	0.03	0.02	0.08	0.02
2026-01-18	0.02	0.03	0.03	0.03	0.04	0.03	0.02	0.15	0.04
2026-01-19	0.02	0.03	0.02	0.03	0.04	0.03	0.01	0.19	0.04
2026-01-20	0.02	0.03	0.03	0.03	0.03	0.03	0.01	0.04	0.01
2026-01-21	0.02	0.04	0.03	0.02	0.03	0.03	0.02	0.07	0.02
2026-01-22	0.02	0.04	0.02	0.03	0.03	0.03	0.02	0.06	0.03
2026-01-23	0.02	0.03	0.02	0.03	0.03	0.03	0.02	0.09	0.03
2026-01-24	0.02	0.02	0.02	0.03	0.03	0.03	0.01	0.11	0.02
2026-01-25	0.01	0.02	0.02	0.03	0.04	0.03	0.01	0.09	0.03
2026-01-26	0.02	0.03	0.03	0.02	0.02	0.02	0.03	0.09	0.03
2026-01-27	0.03	0.04	0.03	0.02	0.06	0.03	0.01	0.06	0.02
2026-01-28	0.03	0.04	0.03	0.03	0.04	0.04	0.01	0.05	0.02
2026-01-29	0.02	0.08	0.03	0.04	0.04	0.04	0.01	0.08	0.02
2026-01-30	0.02	0.03	0.02	0.05	0.07	0.05	0.02	0.06	0.02
2026-01-31	0.02	0.06	0.03	0.05	0.13	0.06	0.02	0.08	0.02

Notes:

UV Treatment:

Date	Average Flow (L/s)	Avg Validated Dose (mj/cm2)	UV Availability (%)
2026-01-01	98.67	21.90	99.93
2026-01-02	32.00	38.54	99.93
2026-01-03	98.32	21.47	99.93
2026-01-04	98.54	20.12	99.93
2026-01-05	98.96	21.28	99.93
2026-01-06	94.29	20.98	99.93
2026-01-07	98.97	20.92	99.93
2026-01-08	100.05	22.42	99.93
2026-01-09	99.16	20.50	99.93
2026-01-10	99.26	20.82	99.93
2026-01-11	98.99	21.90	99.93
2026-01-12	94.80	21.60	99.93
2026-01-13	99.55	21.60	99.93
2026-01-14	98.32	22.20	99.93
2026-01-15	99.67	20.60	99.93
2026-01-16	100.26	21.00	99.93
2026-01-17	99.11	20.88	99.93
2026-01-18	98.45	20.40	99.93
2026-01-19	99.24	21.42	99.93
2026-01-20	100.33	20.28	99.93
2026-01-21	100.16	21.50	98.38
2026-01-22	93.60	21.12	71.27
2026-01-23	96.30	21.12	99.93
2026-01-24	99.40	20.25	99.93
2026-01-25	63.59	23.15	99.93
2026-01-26	95.70	20.80	99.93
2026-01-27	80.15	22.00	99.93
2026-01-28	99.63	21.38	99.93
2026-01-29	99.91	99.93	99.93
2026-01-30	98.94	99.93	99.93
2026-01-31	88.03	99.93	99.93

Notes:

Jan 22nd - UV reactor taken offline and bypassed for annual service resulting in lower UV availability

UV Transmittance %:

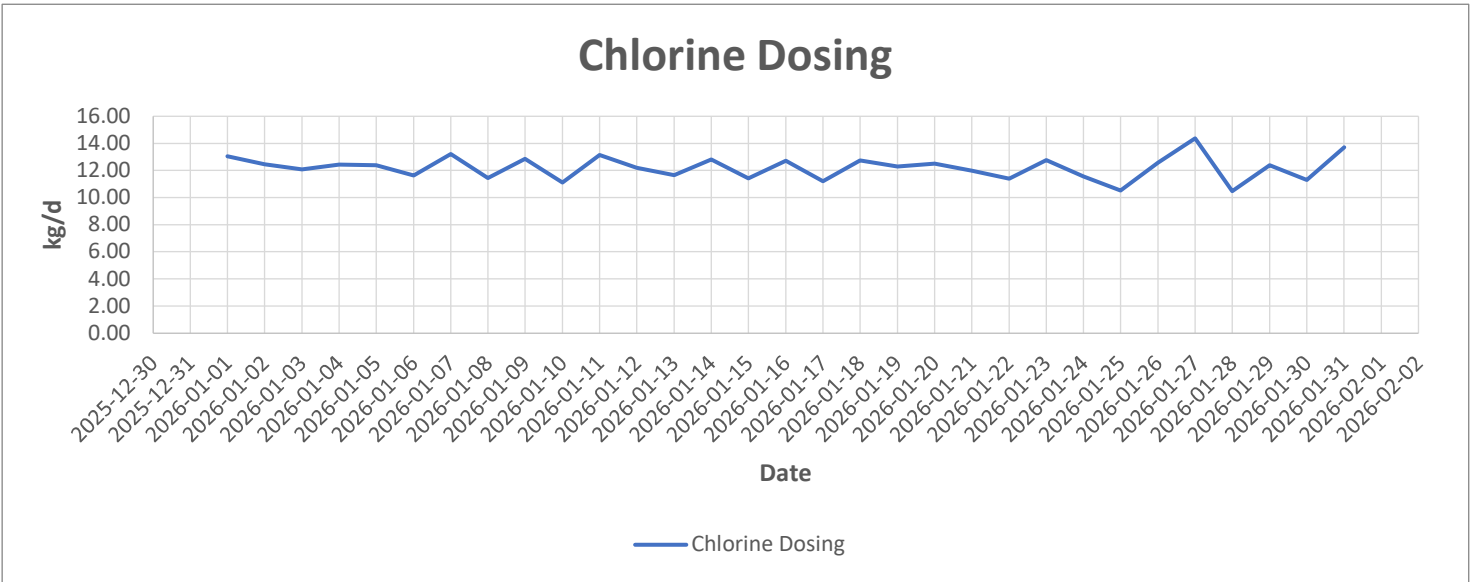
Date	Min	Max	Average
2026-01-01	90.00	92.80	91.06
2026-01-02	89.60	93.30	91.29
2026-01-03	90.00	93.60	91.51
2026-01-04	90.00	93.90	91.59
2026-01-05	89.70	94.20	91.52
2026-01-06	89.30	92.80	90.94
2026-01-07	89.40	94.20	90.68
2026-01-08	89.50	92.20	90.54
2026-01-09	89.50	92.30	90.40
2026-01-10	88.70	92.60	90.70
2026-01-11	89.60	92.30	90.59
2026-01-12	89.70	92.70	90.60
2026-01-13	89.10	95.00	90.63
2026-01-14	88.70	92.60	90.60
2026-01-15	89.10	91.90	90.44
2026-01-16	88.60	91.60	90.04
2026-01-17	88.40	91.70	89.88
2026-01-18	88.30	91.10	89.60
2026-01-19	88.70	90.80	89.41
2026-01-20	89.00	90.00	89.52
2026-01-21	87.80	99.50	91.48
2026-01-22	32.50	90.80	89.57
2026-01-23	89.40	89.90	89.68
2026-01-24	88.70	89.70	89.22
2026-01-25	86.90	88.70	88.43
2026-01-26	88.60	89.90	89.11
2026-01-27	89.30	90.50	89.99
2026-01-28	90.50	90.80	90.61
2026-01-29	90.10	91.10	90.71
2026-01-30	91.00	91.40	91.26
2026-01-31	90.80	91.40	91.11

Notes:

Chemical Demand:

Chlorine Used:

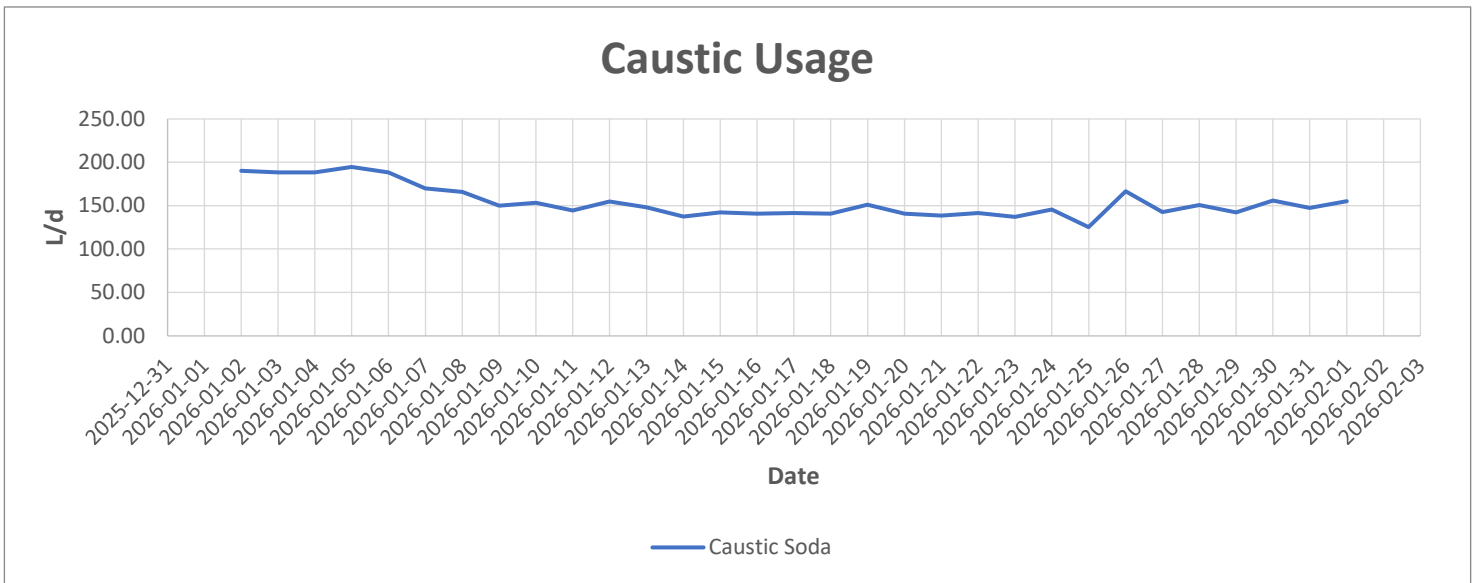
Total for Month
378.29 Kgs



Notes:

Caustic Soda Used:

Total for Month
4779.15 Litres

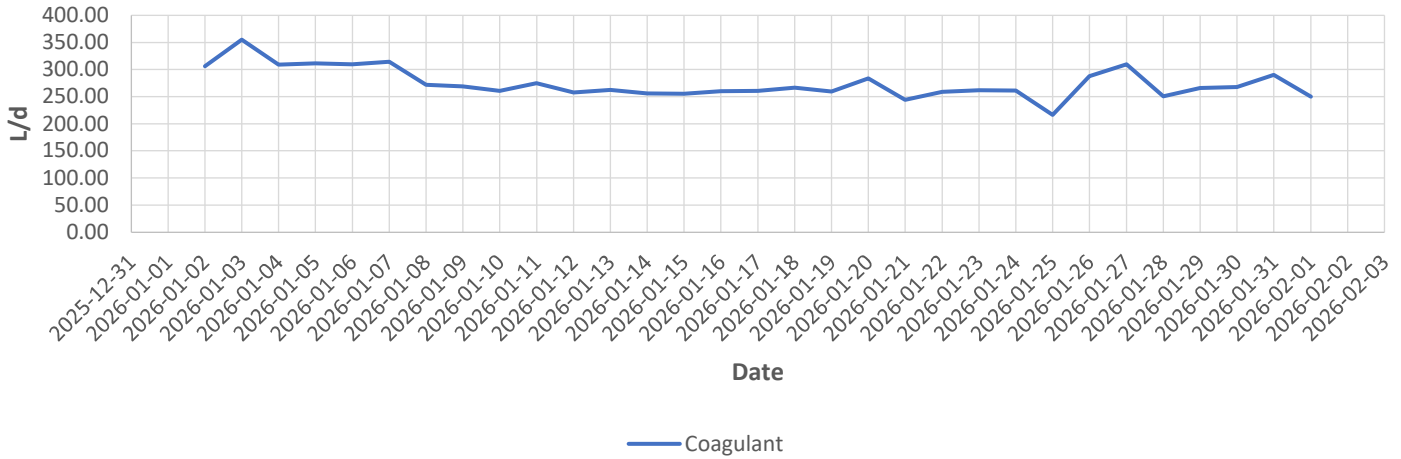


Notes:

Coagulant Used:

Total for Month
8506.72 Litres

Coagulant Usage



Notes:

DAF & Residual DAF Neat Polymer

Total for Month
137.41 L

Centrifuge Neat Polymer

Total for Month
297.56 L

Chlorine Dose

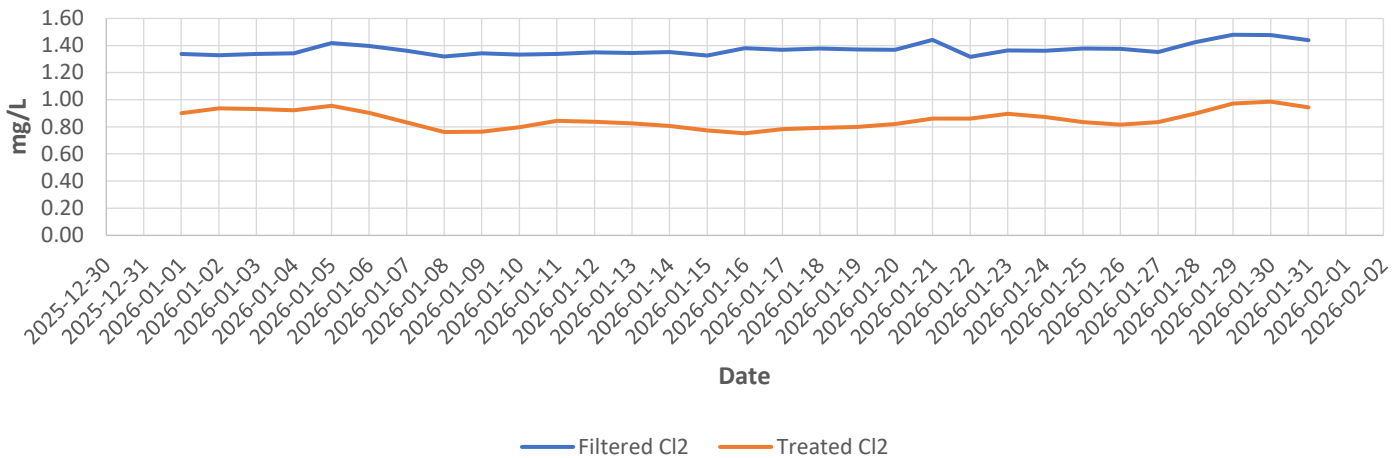
Filtered Water Residual Cl2 Average (mg/L):

1.37 mg/L

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

0.86 mg/L

Average Residual Cl2 Content



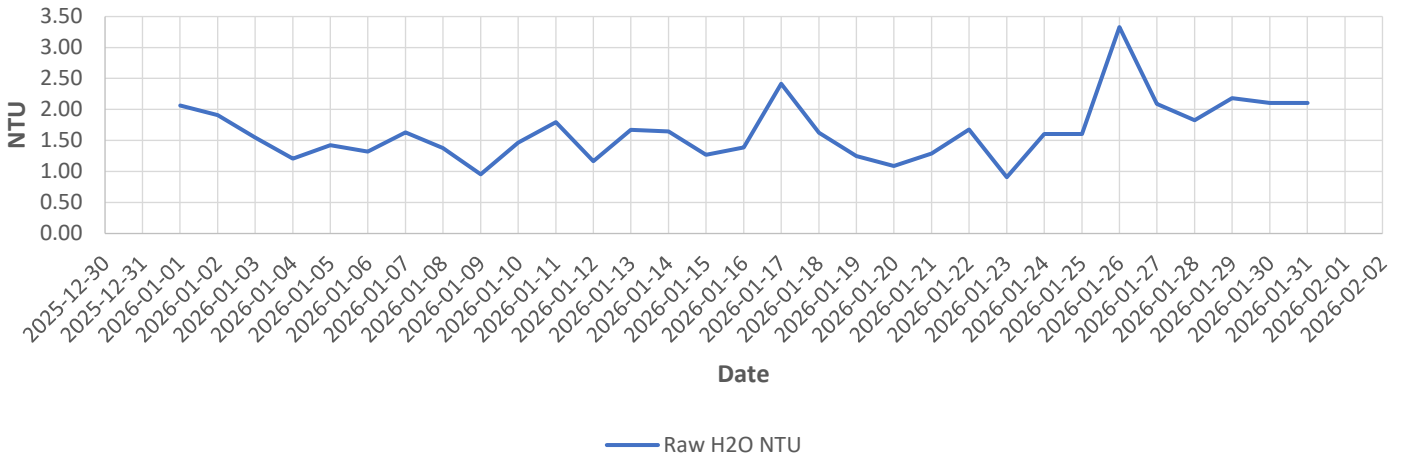
Water Quality Analytics:

Turbidity

Raw Water Monthly Average:

1.64 NTU

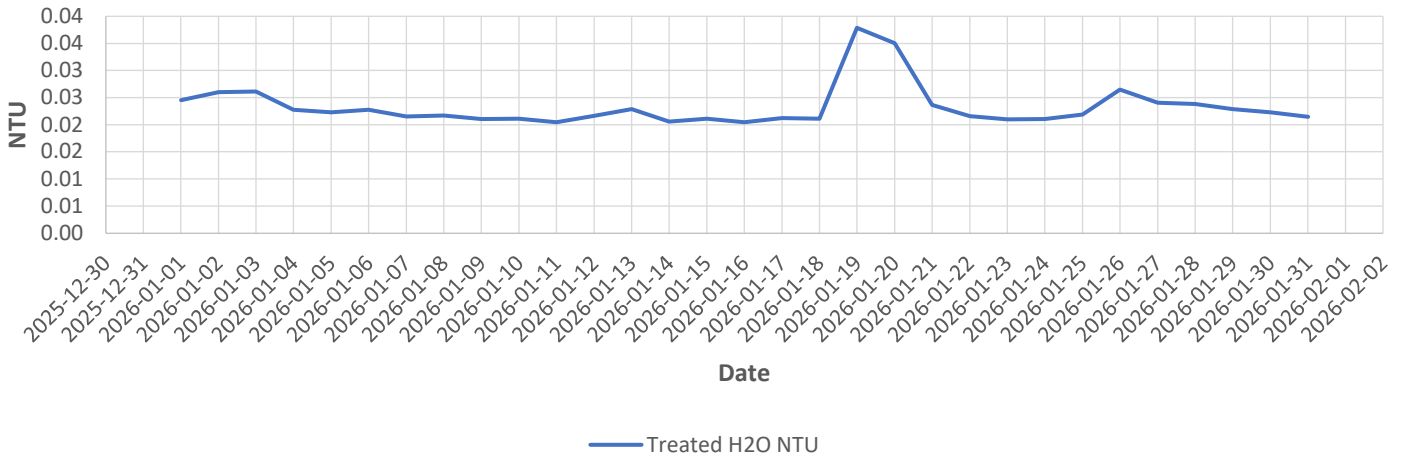
Monthly Turbidity



Treated Water Monthly Average:

0.02 NTU

Monthly Turbidity



Notes:

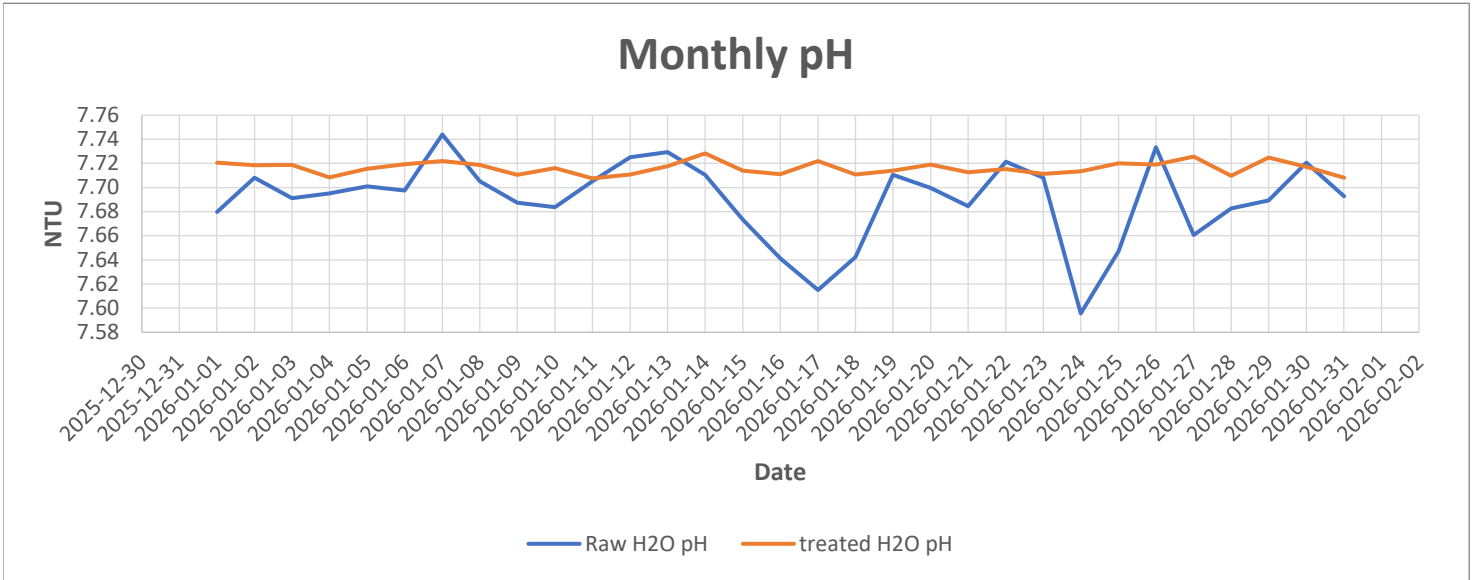
pH

Raw Water Monthly Average:

7.69 pH

Treated Water Monthly Average:

7.72 pH



Notes:

Powers Creek WTP Operational Highlights:

Ongoing Hypochlorite Project by Contrator (AECOM), all month (working on deficiencies & substantial completion)

- Jan 2nd - flushed streaming current
- Jan 5th - repaired residual DAF floc mixer motor shaft
- Jan 6th - swapped scrolls in CTF
- Jan 7th - annual inspection and maintenance of backwash tank pump 512
- Jan 9th - changed raw water tubing
- Jan 12th - flushed treated water tubing
- Jan 13th - changed treated water tubing
- Jan 14th - replaced worn pump seal on DAF saturator pump 430
- Jan 15th - replaced work pump seal on Residual DAF pump 527
- Jan 16th - cleaned & verified all pH probes
- Jan 19th - quarterly greasing of screens & flushed "Y" strainers
- Jan 20th - swapped scrolls in CTF
- Jan 20th - installed new sensor on residual DAF NTU analyzer
- Jan 20th - cleaned treated water vial and verified
- Jan 20th - flushed streaming current
- Jan 21st - annual UV system maintenance - changed & rotated bulbs, cleaned sleeves
- Jan 22nd - replaced Optiview UVT UV bulb
- Jan 26th - Chemical (AluPac 4000B) bulk load delivery
- Jan 29th - cleaned & rinsed DAF poly make down system
- Jan 30th - flushed treated water particle counter

Power Creek Watershed Operational Highlights:

Lambly

Lambly reservoir has significant logging activity going on near the Paddle Creek diversion and intake road to spillway

- Jan 5th Site check & adjusted headgate from 1500-980usgpm
- Jan 14th Site check, logging in the area
- Jan 20th Site check, logging in the area
- Jan 24th Site check, opened headgate from 5.3ML/d to 16ML/d
- Jan 26th Site check, adjusted headgate to 10.9ML/d

Jackpine

- Jan 7th Site check
- Jan 14th Site check
- Jan 20th Site check
- Jan 27th Site check

Paynter

- Jan 14th Site check
- Jan 20th Site check
- Jan 27th Site check

Horseshoe

- Jan 7th Site check
- Jan 14th Site check
- Jan 27th Site check
- Jan 28th Snow Course done, average snow depth 53.5cm, Water equivalent 135cm

Dobbin

- Jan 7th Site check
- Jan 14th Site check
- Jan 20th Site check
- Jan 27th Site check

Tadpole

- Jan 7th Site check
- Jan 14th Site check
- Jan 20th Site check
- Jan 27th site check

Definitions:

UV Availability (%) - Calculated daily percentage of the time the UV is in operation divided by the time where there is flow going through the UV reactor. (Note: SCADA performing this calculation has a small error based on the time the values are pulled which does not allow the UV Availability to show 100% when the Reactor was operating for a full day without interruption (i.e. 99.93% represents a full day running without issue).

WATER DISTRIBUTION



Power's Creek Water Service Area – Distribution System Monitoring

January 2026

Water Quality Data Review

- Based on the Power's Creek Water Service Area distribution system grab sample data, it appears the turbidity, free-chlorine (FCR) and bacteriological results have met the Water Quality Objectives during the month of January.
- January Bacteriological Sampling Summary:
 - 16 samples to CARO for analysis
 - 8 samples analyzed in-house at RVWTP
 - All bacteriological sample results were <1 CFU/100mL for Total Coliforms and <1 CFU/100mL for *E.coli*.
- January 14, 2026 – Lateral One PS online FCR analyzer calibration adjustment of 0.14mg/L increase.
- January 19, 2026 – Online FCR analyzer calibration adjustment of 0.32mg/L decrease.
- Lateral One PS the online analyzer appears to have been experiencing varying FCR readings of which may be related to the pumping dynamics suggesting the sample port may need to be relocated to an improved location within the station.

Operational System Improvements/Events

- January 10, 2026 – Glenrosa Reservoir experienced a power outage from 12:58 to 15:56. The newly acquired portable battery power pack was utilized for the duration of outage instead of a standard generator.
- January 23, 2026 – Glenrosa Reservoir had a no flow alarm for the pressure pumps, was investigated and pumps were not alternating, can be manually changed or if one pump faults. EIT will investigate further.
- January 22-23, 2026 – 2978 McAllister Rd water service line repair was completed by City crews, main was throttled down which resulted in lowered pressure for 14 homes. Only home without water from Jan 22 to 23 was 2978 McAllister Rd. Positive pressure was maintained throughout excavation and repair.
- January 27, 2026 – 3515 McIver Rd water service line repair completed by City crews. Three valves were throttled down affecting 4 properties and 3515 McIver Rd was without water from 12pm to 3pm. Repair completed under positive pressure.

WQ Field and SCADA 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. Re-chlorination occurring at this location.
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.

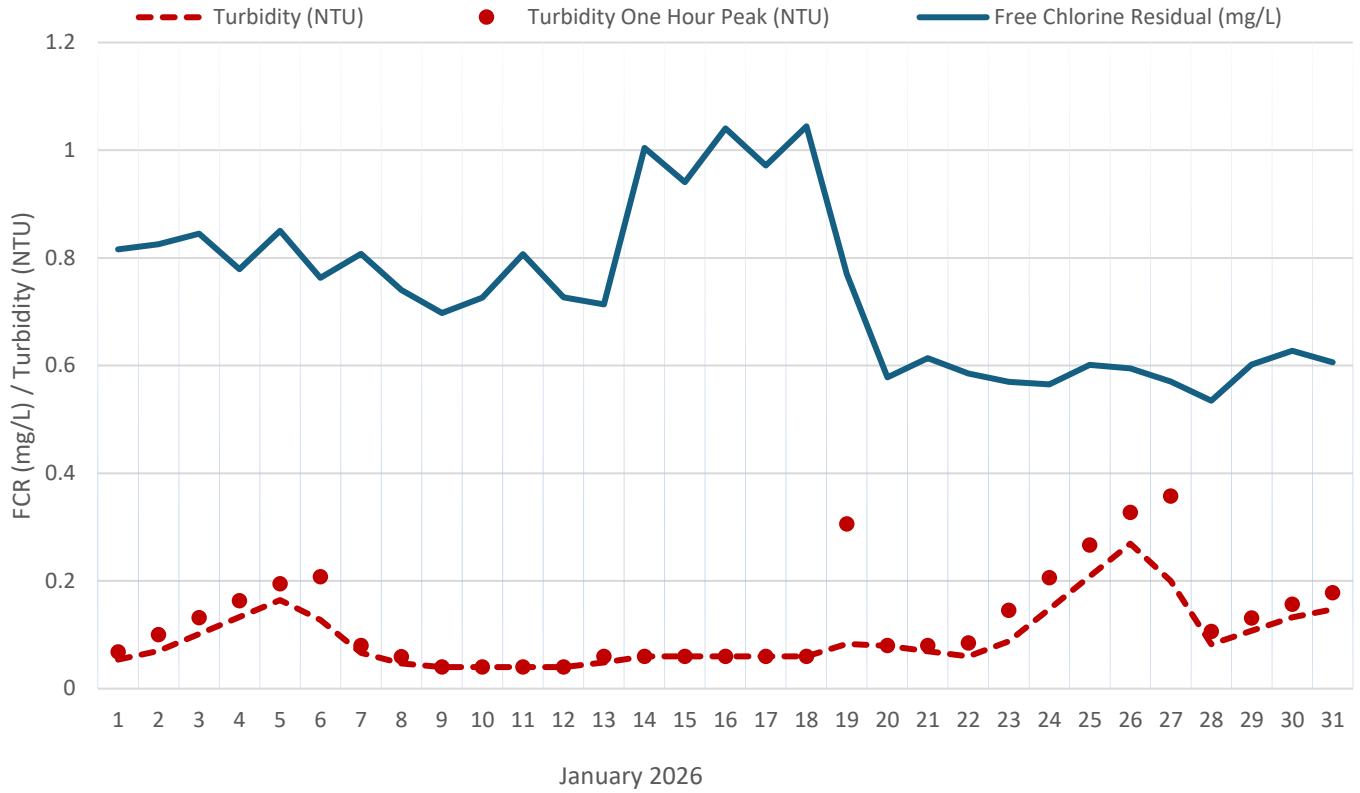
- **PS** = Pump Station
- **SS** = Sample Station
- **Res** = Reservoir
- **WQS** = Water Quality Station

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	pH	Turbidity	Turbidity (Peak 1 Hr)	Temp	FCR		
	Avg (pH)	Avg (NTU)	Max Based On 1 Hr Avg	Avg (°C)	Min (mg/L)	Max (mg/L)	Avg (mg/L)
January 2026							
1	7.28	0.05	0.07	3.66	0.57	1.80	0.82
2	7.30	0.07	0.10	3.70	0.65	0.95	0.83
3	7.26	0.10	0.13	4.05	0.68	0.97	0.85
4	7.37	0.13	0.16	4.33	0.00	0.97	0.78
5	7.28	0.16	0.19	4.63	0.35	0.98	0.85
6	7.31	0.13	0.21	4.71	0.46	0.90	0.76
7	7.25	0.07	0.08	4.67	0.51	2.61	0.81
8	7.23	0.05	0.06	4.71	0.55	1.42	0.74
9	7.32	0.04	0.04	4.51	0.27	1.74	0.70
10	7.29	0.04	0.04	4.33	0.22	1.94	0.73
11	7.25	0.04	0.04	4.45	0.30	1.41	0.81
12	7.25	0.04	0.04	4.48	0.46	2.08	0.73
13	7.26	0.05	0.06	5.27	0.53	3.27	0.71
14	7.25	0.06	0.06	5.36	0.39	3.44	1.00
15	7.27	0.06	0.06	5.53	0.65	2.97	0.94
16	7.23	0.06	0.06	5.51	0.67	2.66	1.04
17	7.28	0.06	0.06	4.98	0.64	2.51	0.97
18	7.31	0.06	0.06	4.56	0.41	2.05	1.04
19	7.35	0.08	0.31	5.21	0.29	3.42	0.77
20	7.21	0.08	0.08	3.95	0.43	1.11	0.58
21	7.23	0.07	0.08	3.42	0.43	1.24	0.61
22	7.25	0.06	0.09	3.45	0.25	0.90	0.59
23	7.29	0.09	0.15	3.48	0.03	0.68	0.57
24	7.28	0.15	0.21	3.95	0.43	0.67	0.56
25	7.25	0.21	0.27	3.09	0.39	1.69	0.60
26	7.26	0.27	0.33	3.21	0.46	1.39	0.59
27	7.22	0.20	0.36	3.33	0.45	1.23	0.57
28	7.28	0.08	0.11	3.50	0.13	0.68	0.53
29	7.22	0.11	0.13	3.58	0.49	0.69	0.60
30	7.21	0.13	0.16	3.91	0.51	0.72	0.63
31	7.23	0.15	0.18	4.11	0.21	0.68	0.61
Average	7.27	0.10		4.25	0.41	1.61	0.74
Min	7.21	0.04		3.09	0.00	0.67	0.53
Max	7.37	0.27	0.36	5.53	0.68	3.44	1.04

Lateral One PS Online Data



- January 14, 2026 – Lateral One PS online FCR analyzer calibration adjustment of 0.14mg/L increase.
- January 19, 2026 – Online FCR analyzer calibration adjustment of 0.32mg/L decrease.

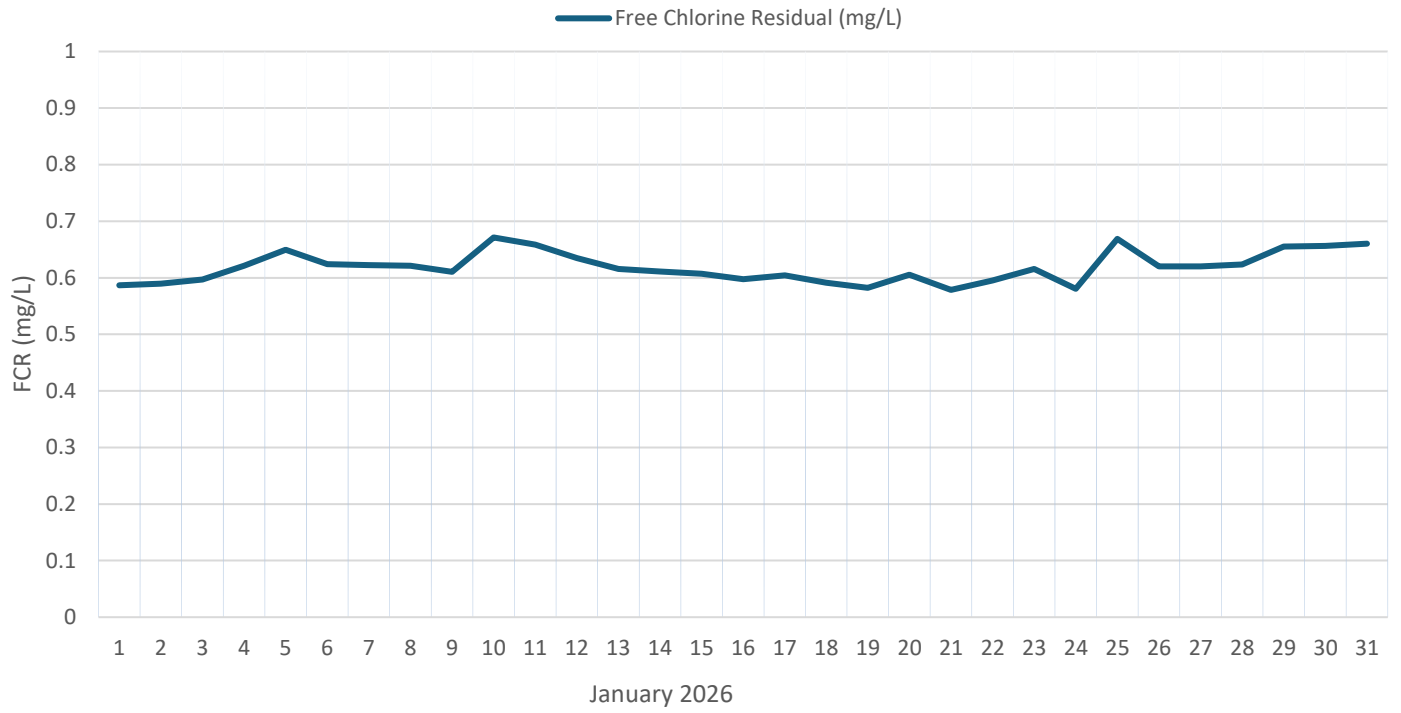
Lateral One PS Water Quality

Date	Turbidity		Temp	FCR		pH
	Grab (NTU)	Online (NTU)	Grab (°C)	Grab (mg/L)	Online (mg/L)	
06-Jan-26	0.23	0.17	3.8	0.76	0.66	7.86
13-Jan-26	0.32	0.08	7.0	0.79	0.64	7.30
20-Jan-26	0.14	0.08	4.1	0.76	0.55	7.69
27-Jan-26	0.52	0.07	2.5	0.85	0.60	7.84
# of Samples	4	4	4	4	4	4
Average	0.30	0.10	4.4	0.79	0.61	7.59
Range	0.14-0.52	0.07-0.17	2.5-7	0.76-0.85	0.55-0.66	7.3-7.84

Glenrosa PS & Reservoir

Glenrosa PS & Reservoir Online Data							
Date	Flow Total From PS	Peak Flow From PS	Reservoir pH	Reservoir Temp	Reservoir FCR		
	(ML)	Max (ML/Day)	Avg (pH)	Avg (°C)	Min (mg/L)	Max (mg/L)	Avg (mg/L)
January 2026							
1	1.98	4.36	7.61	3.13	0.42	1.55	0.59
2	1.76	4.37	7.60	3.11	0.44	0.94	0.59
3	1.68	4.36	7.62	3.19	0.45	0.95	0.60
4	1.82	4.35	7.62	3.30	0.47	1.01	0.62
5	1.86	4.37	7.62	3.40	0.49	0.97	0.65
6	1.71	4.34	7.61	3.50	0.51	0.90	0.62
7	1.74	4.12	7.64	3.59	0.51	1.74	0.62
8	1.72	4.11	7.63	3.62	0.50	1.64	0.62
9	1.72	4.16	7.64	3.60	0.47	1.75	0.61
10	1.68	4.18	7.63	3.55	0.48	2.26	0.67
11	1.81	4.16	7.61	3.56	0.51	1.20	0.66
12	1.78	5.01	7.60	3.64	0.50	2.03	0.64
13	1.69	4.39	7.60	3.73	0.49	1.99	0.62
14	1.87	4.39	7.60	3.85	0.49	1.90	0.61
15	1.68	4.51	7.60	3.95	0.49	2.40	0.61
16	1.62	4.41	7.61	3.97	0.48	2.20	0.60
17	1.84	4.39	7.63	3.90	0.48	2.53	0.60
18	1.82	4.40	7.63	3.72	0.46	2.84	0.59
19	1.66	4.39	7.63	3.57	0.46	1.89	0.58
20	1.86	5.07	7.62	3.42	0.46	2.42	0.61
21	1.57	5.05	7.62	3.34	0.46	1.69	0.58
22	1.76	5.05	7.62	3.20	0.48	1.23	0.59
23	1.80	5.06	7.62	3.09	0.49	1.73	0.62
24	1.37	5.05	7.63	2.99	0.49	1.71	0.58
25	2.27	5.05	7.62	2.62	0.51	1.71	0.67
26	1.71	5.04	7.63	2.61	0.51	2.09	0.62
27	1.73	5.05	7.63	2.56	0.51	1.89	0.62
28	1.84	4.36	7.62	2.59	0.49	1.86	0.62
29	1.98	4.36	7.62	2.61	0.50	0.95	0.66
30	1.83	4.36	7.64	2.69	0.52	0.99	0.66
31	1.88	4.37	7.64	2.84	0.53	0.96	0.66
Total	53						
Average	1.78	4.54	7.62	3.30	0.49	1.67	0.62
Min	1.37	4.11	7.60	2.56	0.42	0.90	0.58
Max	2.27	5.07	7.64	3.97	0.53	2.84	0.67

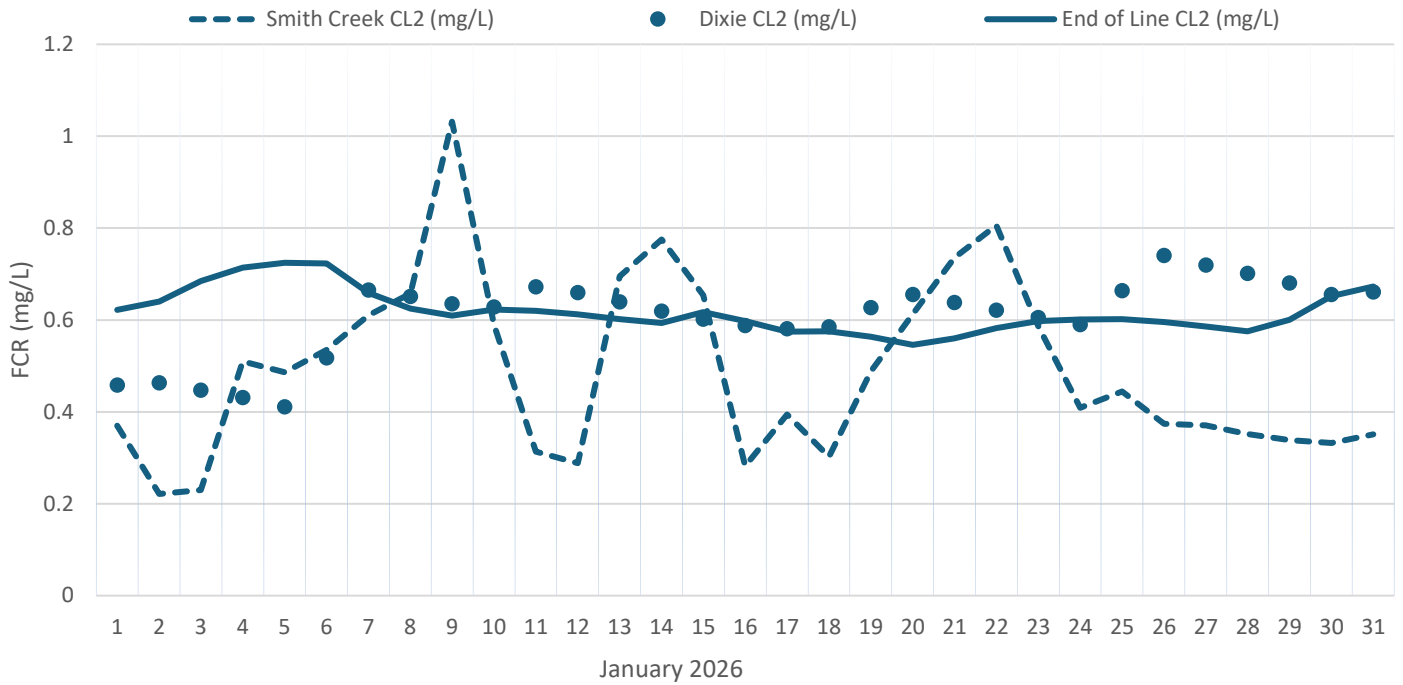
Glenrosa Reservoir Online Data



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

Date	Smith Creek Reservoir FCR			Dixie Reservoir FCR			End-of-Line FCR		
	Min (mg/L)	Max (mg/L)	Avg (mg/L)	Min (mg/L)	Max (mg/L)	Avg (mg/L)	Min (mg/L)	Max (mg/L)	Avg (mg/L)
January 2026									
1	0.24	0.51	0.37	0.42	0.48	0.46	0.61	0.63	0.62
2	0.19	0.24	0.22	0.45	0.48	0.46	0.61	0.70	0.64
3	0.18	0.51	0.23	0.43	0.47	0.45	0.66	0.72	0.68
4	0.48	0.55	0.51	0.41	0.45	0.43	0.70	0.73	0.71
5	0.47	0.50	0.49	0.40	0.43	0.41	0.71	0.73	0.72
6	0.33	0.66	0.54	0.39	0.68	0.52	0.69	0.73	0.72
7	0.58	0.63	0.61	0.65	0.68	0.67	0.61	0.72	0.66
8	0.58	1.25	0.66	0.63	0.68	0.65	0.59	0.67	0.62
9	0.69	1.78	1.03	0.62	0.65	0.64	0.57	0.65	0.61
10	0.33	0.70	0.59	0.59	0.68	0.63	0.60	0.66	0.62
11	0.29	0.34	0.31	0.65	0.70	0.67	0.57	0.69	0.62
12	0.25	0.50	0.29	0.65	0.68	0.66	0.57	0.71	0.61
13	0.50	0.84	0.70	0.62	0.67	0.64	0.56	0.65	0.60
14	0.62	1.06	0.78	0.59	0.64	0.62	0.54	0.77	0.59
15	0.30	1.08	0.65	0.59	0.62	0.60	0.58	0.71	0.62
16	0.26	0.32	0.28	0.58	0.61	0.59	0.53	0.68	0.60
17	0.26	0.77	0.39	0.56	0.61	0.58	0.51	0.63	0.57
18	0.27	0.32	0.30	0.57	0.61	0.59	0.53	0.71	0.58
19	0.26	0.64	0.49	0.56	0.68	0.63	0.49	0.73	0.56
20	0.59	0.63	0.61	0.63	0.68	0.66	0.50	0.61	0.55
21	0.58	1.18	0.74	0.63	0.67	0.64	0.52	0.62	0.56
22	0.69	1.06	0.81	0.61	0.64	0.62	0.55	0.64	0.58
23	0.00		0.59	0.59	0.62	0.60	0.56	0.74	0.60
24	0.32	0.59	0.41	0.58	0.61	0.59	0.58	0.62	0.60
25	0.37	0.57	0.44	0.58	0.75	0.66	0.53	0.67	0.60
26	0.37	0.39	0.37	0.73	0.77	0.74	0.57	0.63	0.60
27	0.35	0.39	0.37	0.70	0.75	0.72	0.53	0.65	0.59
28	0.34	0.37	0.35	0.69	0.73	0.70	0.53	0.66	0.58
29	0.32	0.35	0.34	0.66	0.70	0.68	0.58	0.63	0.60
30	0.32	0.34	0.33	0.62	0.68	0.66	0.61	0.68	0.65
31	0.32	0.42	0.35	0.62	0.69	0.66	0.66	0.72	0.67
Average	0.38	0.92	0.49	0.58	0.64	0.61	0.58	0.68	0.62
Min	0.00	0.24	0.22	0.39	0.43	0.41	0.49	0.61	0.55
Max	0.69	1.78	1.03	0.73	0.77	0.74	0.71	0.77	0.72

Smith Creek/Dixie/End-of-Line Online Data



End-of-Line WQS Water Quality

Date	Turbidity	Temp	FCR		pH
	Grab (NTU)	Grab (°C)	Grab (mg/L)	Online (mg/L)	
06-Jan-26	0.06	7.2	0.64	0.72	7.64
13-Jan-26	0.09	7.0	0.61	0.59	7.39
20-Jan-26	0.12	6.8	0.59	0.54	7.73
27-Jan-26	0.13	6.2	0.61	0.61	7.96
# of Samples	4	4	4	4	4
Average	0.1	6.8	0.61	0.62	7.68
Range	0.06-0.13	6.2-7.2	0.59-0.64	0.54-0.72	7.39-7.96

WQ Field Data

Mclver SS

Mclver SS Water Quality				
Date	Turbidity	Temp	FCR	pH
	Grab (NTU)	Grab (°C)	Grab (mg/L)	
06-Jan-26	0.11	5.0	0.45	7.64
13-Jan-26	0.12	5.2	1.08	7.33
20-Jan-26	0.09	5.0	0.45	7.75
27-Jan-26	0.14	4.2	0.54	8.10
# of Samples	4	4	4	4
Average	0.12	4.85	0.63	7.71
Range	0.09-0.14	4.2-5.2	0.45-1.08	7.33-8.10

Bulk Water Station (Stn)

Bulk Water Station Water Quality				
Date	Turbidity	Temp	FCR	pH
	Grab (NTU)	Grab (°C)	Grab (mg/L)	
06-Jan-26	0.06	8.4	0.49	7.70
13-Jan-26	0.18	7.5	0.65	7.50
20-Jan-26	0.12	8.2	0.40	7.65
27-Jan-26	0.52	7.2	0.39	7.98
# of Samples	4	4	4	4
Average	0.22	7.8	0.48	7.71
Range	0.06-0.52	7.2-8.4	0.39-0.65	7.50-7.98