

CITY OF WEST KELOWNA

Monthly Water Quality Report



**Powers Creek Water Service Area
September 2025**

WATER SUPPLY AND TREATMENT





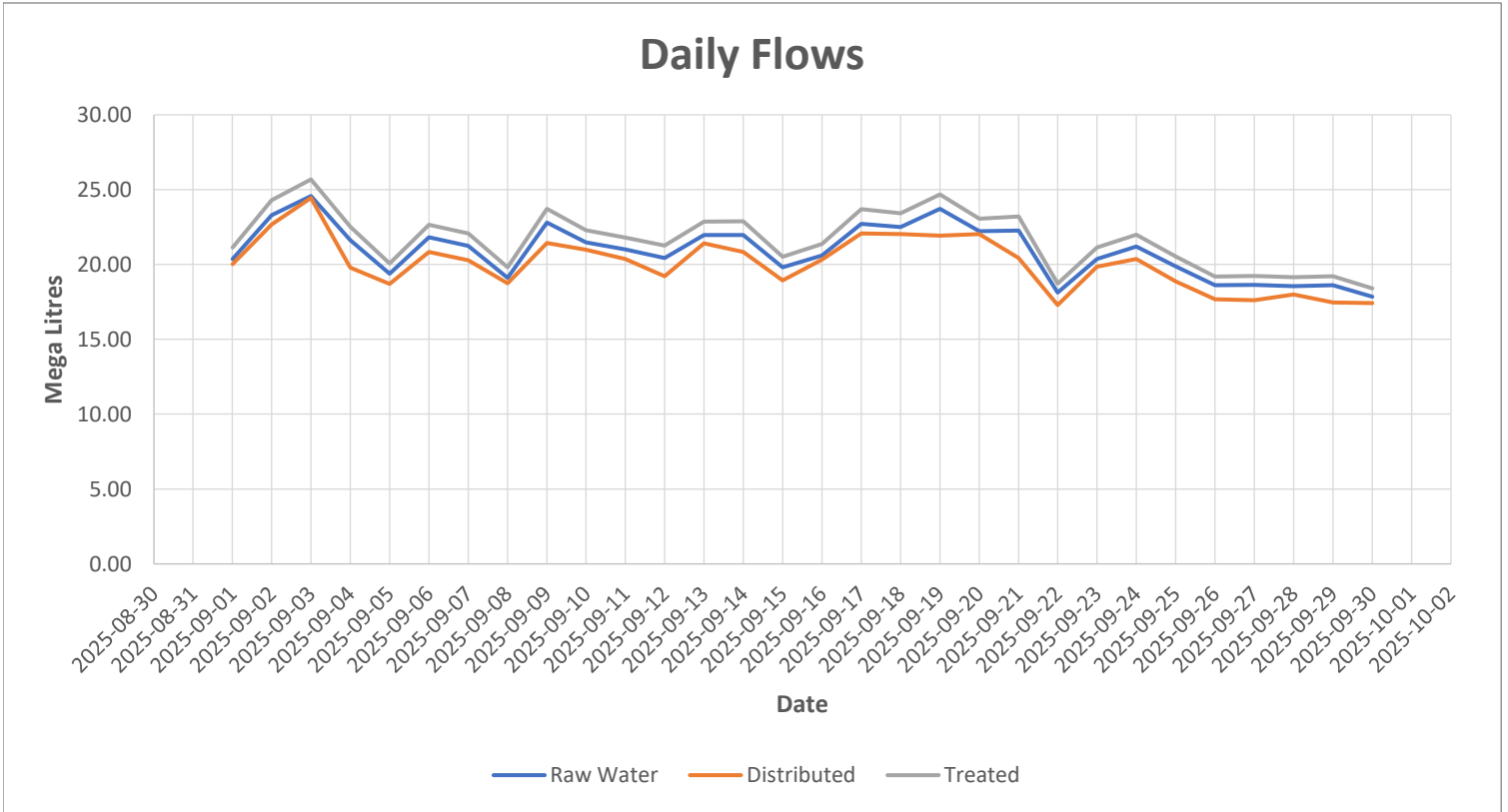
Powers Creek Water Treatment Plant Monthly Water Quality Summary

2025-10-06

September, 2025

Flow Demand:

	Total for Month
Raw Processed Water:	626.67 ML
Treated Water :	650.54 ML
Distributed Water :	602.01 ML
Backwash Water :	22.58 ML



Notes:

Raw Water Specifications:

Date	Raw Turbidity (NTU)			Raw pH		
	Min	Max	Average	Min	Max	Average
2025-09-01	0.68	2.83	0.83	7.40	7.72	7.60
2025-09-02	0.43	2.69	0.75	7.32	7.82	7.52
2025-09-03	0.39	2.09	0.52	7.40	7.90	7.68
2025-09-04	0.32	1.44	0.51	7.54	7.81	7.67
2025-09-05	0.01	2.27	0.52	7.45	7.88	7.69
2025-09-06	0.50	1.64	0.72	7.67	7.90	7.77
2025-09-07	0.55	2.21	0.76	7.64	7.82	7.75
2025-09-08	0.43	1.32	0.55	7.35	7.80	7.66
2025-09-09	0.46	1.38	0.56	7.54	7.86	7.72
2025-09-10	0.50	1.79	0.66	7.59	7.84	7.71
2025-09-11	0.57	4.49	0.92	7.65	7.88	7.75
2025-09-12	0.93	3.19	1.07	7.56	7.84	7.71
2025-09-13	0.99	3.40	1.42	7.67	7.91	7.77
2025-09-14	1.05	3.37	1.51	7.69	7.81	7.75
2025-09-15	0.78	4.08	0.96	7.40	7.81	7.64
2025-09-16	0.82	2.60	1.02	7.46	7.83	7.67
2025-09-17	1.02	3.13	1.33	7.71	7.87	7.79
2025-09-18	0.80	2.74	1.04	7.63	7.85	7.75
2025-09-19	0.91	2.91	1.09	7.63	7.82	7.73
2025-09-20	1.15	3.44	1.42	7.67	7.86	7.75
2025-09-21	0.81	2.55	1.13	7.71	7.81	7.75
2025-09-22	0.76	2.64	1.09	7.64	7.80	7.72
2025-09-23	0.87	2.75	1.13	7.30	7.75	7.55
2025-09-24	0.30	2.57	1.15	7.52	7.85	7.72
2025-09-25	0.95	3.03	1.21	7.67	7.81	7.75
2025-09-26	0.76	2.34	1.08	7.62	7.79	7.72
2025-09-27	0.78	3.77	1.33	7.73	7.84	7.78
2025-09-28	1.07	5.29	1.64	7.72	7.84	7.80
2025-09-29	1.05	6.99	1.63	7.68	7.78	7.72
2025-09-30	1.28	4.92	1.75	7.70	7.75	7.72

Notes:

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Raw Water Specifications (Continued):

Date	Raw Temp (°C)			Raw DOC (mg/L)		
	Min	Max	Average	Min	Max	Average
2025-09-01	16.94	22.88	21.06	8.41	8.86	8.65
2025-09-02	16.06	17.69	16.83	8.22	9.03	8.67
2025-09-03	16.03	17.98	17.00	8.47	9.18	8.87
2025-09-04	16.07	17.79	16.86	8.44	8.94	8.63
2025-09-05	14.74	16.70	15.67	1.45	116.18	8.43
2025-09-06	14.97	16.41	15.66	8.24	9.09	8.76
2025-09-07	15.85	18.07	16.52	8.28	9.10	8.75
2025-09-08	15.15	17.99	16.51	8.17	8.55	8.41
2025-09-09	14.71	16.42	15.65	7.99	8.57	8.30
2025-09-10	14.11	15.79	15.14	8.07	9.58	8.86
2025-09-11	14.18	15.94	15.13	???	116.11	9.58
2025-09-12	13.83	16.67	14.92	9.00	9.26	9.16
2025-09-13	13.89	15.71	14.75	8.98	9.57	9.29
2025-09-14	14.64	15.61	15.04	9.04	9.52	9.31
2025-09-15	14.37	15.89	15.09	9.08	9.45	9.28
2025-09-16	13.83	15.53	14.73	8.98	9.31	9.16
2025-09-17	13.68	15.18	14.48	8.89	9.32	9.13
2025-09-18	13.63	15.22	14.38	8.79	9.21	9.02
2025-09-19	12.50	14.61	13.49	8.83	9.19	9.02
2025-09-20	12.15	13.78	13.06	8.95	9.37	9.18
2025-09-21	13.56	14.58	13.95	9.04	9.42	9.23
2025-09-22	11.84	14.03	12.79	8.73	9.42	9.15
2025-09-23	11.03	12.76	11.92	8.75	9.24	9.00
2025-09-24	11.06	12.55	11.82	8.40	9.27	8.98
2025-09-25	11.26	12.40	11.83	9.17	9.82	9.55
2025-09-26	9.52	11.64	10.34	9.20	9.88	9.63
2025-09-27	10.33	11.65	10.83	9.37	10.20	9.83
2025-09-28	11.33	12.62	11.85	9.30	10.08	9.79
2025-09-29	11.37	12.34	11.83	9.46	10.31	9.93
2025-09-30	12.23	12.93	12.51	9.42	10.67	10.30

Notes:

Sept 11th - Raw water DOC showed negative values in the historian due to maintenance for 5 minutes. Max value also shown after 5 minutes. Trend returned to normal for rest of the day.

Raw Water Specifications (Continued):

Date	Raw Cond ($\mu\text{S}/\text{cm}$)			Streaming Current		
	Min	Max	Average	Min	Max	Average
2025-09-01	89.36	91.65	90.54	-42.82	12.52	-13.26
2025-09-02	89.15	91.26	90.28	-49.78	25.49	-20.81
2025-09-03	64.24	90.81	89.76	-53.74	9.68	-24.86
2025-09-04	-0.23	90.96	89.79	-49.66	8.44	-15.73
2025-09-05	-0.25	90.20	87.64	???	36.17	-1.88
2025-09-06	87.66	89.58	88.45	-17.90	54.51	4.40
2025-09-07	87.20	89.88	88.34	-22.76	34.27	-2.18
2025-09-08	88.33	90.19	88.82	-15.97	35.34	-1.50
2025-09-09	55.08	89.44	88.67	-25.96	44.04	9.99
2025-09-10	59.95	88.52	87.47	-23.77	44.14	3.22
2025-09-11	78.11	88.30	87.27	-18.62	37.39	10.52
2025-09-12	85.63	86.87	86.22	-22.74	60.78	7.15
2025-09-13	84.39	86.73	85.44	-23.93	1.29	-9.98
2025-09-14	84.54	86.41	85.27	-27.82	-3.76	-13.18
2025-09-15	84.91	86.71	85.61	-25.79	0.08	-8.53
2025-09-16	52.75	86.75	85.80	-13.28	4.20	-6.67
2025-09-17	78.68	86.73	85.08	-15.99	-2.83	-9.61
2025-09-18	60.12	86.57	85.04	???	4.13	-14.91
2025-09-19	-0.38	86.11	78.77	-17.85	1.29	-7.89
2025-09-20	75.22	75.97	75.63	-20.00	11.66	-4.70
2025-09-21	75.20	76.55	75.80	-23.98	-0.02	-11.10
2025-09-22	38.31	75.91	75.51	-21.95	14.57	2.22
2025-09-23	75.06	76.68	75.55	-23.84	19.48	3.40
2025-09-24	31.16	76.42	75.16	-22.00	18.74	0.01
2025-09-25	74.14	74.97	74.59	-20.00	12.52	-2.17
2025-09-26	73.93	74.37	74.15	-9.27	20.77	8.84
2025-09-27	73.47	74.53	74.09	-22.74	20.77	2.34
2025-09-28	73.93	74.71	74.24	-17.88	12.50	-2.49
2025-09-29	73.66	74.89	74.21	-30.68	16.55	0.90
2025-09-30	73.96	75.23	74.46	-23.86	14.50	1.40

Notes:

Sept 5th- 0830 Streaming current displayed -749mV for 7 minutes. Historian tracks to -500.

Sept 18th - 0814 Streaming current displayed -749 for 7 minutes. Returned to normal values for the rest of the day.

Raw Water Specifications (Continued):

Date	Coagulated pH			Coagulated Temp (°C)		
	Min	Max	Average	Min	Max	Average
2025-09-01	7.06	7.12	7.08	15.36	16.86	16.06
2025-09-02	7.04	7.17	7.11	15.72	17.70	16.64
2025-09-03	7.08	7.12	7.10	15.92	17.67	16.87
2025-09-04	7.06	7.15	7.11	16.08	17.25	16.62
2025-09-05	7.11	7.18	7.15	14.78	19.71	15.67
2025-09-06	7.10	7.17	7.14	15.00	16.11	15.54
2025-09-07	7.14	7.18	7.17	15.43	16.37	15.88
2025-09-08	7.13	7.20	7.18	15.37	16.59	16.01
2025-09-09	7.10	7.20	7.14	14.85	16.26	15.54
2025-09-10	7.06	7.18	7.13	14.24	15.76	15.04
2025-09-11	7.04	7.16	7.07	14.15	15.48	14.87
2025-09-12	7.06	7.20	7.14	14.13	17.24	14.75
2025-09-13	7.16	7.27	7.21	14.07	15.69	14.86
2025-09-14	7.17	7.31	7.23	14.97	15.68	15.35
2025-09-15	7.10	7.25	7.15	14.25	15.74	15.15
2025-09-16	7.12	7.19	7.16	13.81	15.09	14.66
2025-09-17	7.15	7.22	7.17	13.52	15.02	14.37
2025-09-18	7.18	7.22	7.21	13.74	15.34	14.32
2025-09-19	7.17	7.25	7.20	12.60	14.35	13.39
2025-09-20	7.14	7.27	7.20	12.22	13.57	12.93
2025-09-21	7.14	7.28	7.20	13.42	14.31	13.79
2025-09-22	7.13	7.18	7.16	11.87	13.86	12.66
2025-09-23	7.18	7.30	7.21	11.31	12.50	11.89
2025-09-24	7.15	7.31	7.22	11.26	12.56	11.89
2025-09-25	7.18	7.26	7.22	11.47	12.38	11.88
2025-09-26	7.17	7.24	7.21	9.81	11.62	10.50
2025-09-27	7.18	7.34	7.25	10.49	11.50	10.92
2025-09-28	7.19	7.34	7.26	11.34	12.35	11.75
2025-09-29	7.18	7.30	7.23	11.44	12.38	11.93
2025-09-30	7.20	7.28	7.24	12.41	12.93	12.61

Notes:

Train 1 Filter Turbidity (NTU):

Date	Filter 1			Filter 2			Filter 3		
	Min	Max	Average	Min	Max	Average	Min	Max	Average
2025-09-01	0.02	0.03	0.02	0.02	0.03	0.03	0.01	0.05	0.02
2025-09-02	0.02	0.07	0.03	0.03	0.09	0.04	0.01	0.02	0.02
2025-09-03	0.03	0.04	0.03	0.03	0.04	0.03	0.02	0.06	0.02
2025-09-04	0.02	0.09	0.04	0.03	0.11	0.04	0.02	0.02	0.02
2025-09-05	0.03	0.07	0.04	0.00	0.05	0.04	0.01	0.06	0.02
2025-09-06	0.02	0.09	0.03	0.03	0.13	0.04	0.02	0.02	0.02
2025-09-07	0.02	0.03	0.03	0.03	0.04	0.03	0.02	0.07	0.02
2025-09-08	0.02	0.07	0.03	0.03	0.12	0.04	0.01	0.02	0.02
2025-09-09	0.02	0.03	0.02	0.03	0.04	0.03	0.01	0.06	0.02
2025-09-10	0.02	0.08	0.03	0.03	0.11	0.04	0.01	0.02	0.02
2025-09-11	0.03	0.04	0.03	0.03	0.08	0.05	0.02	0.03	0.02
2025-09-12	0.02	0.06	0.03	0.03	0.10	0.03	0.01	0.01	0.01
2025-09-13	0.02	0.02	0.02	0.02	0.04	0.03	0.01	0.05	0.01
2025-09-14	0.02	0.05	0.02	0.02	0.09	0.03	0.01	0.01	0.01
2025-09-15	0.02	0.03	0.02	0.02	0.04	0.03	0.01	0.05	0.01
2025-09-16	0.02	0.04	0.02	0.03	0.08	0.03	0.01	0.01	0.01
2025-09-17	0.01	0.02	0.02	0.02	0.03	0.03	0.01	0.04	0.01
2025-09-18	0.02	0.04	0.02	0.02	0.07	0.03	0.01	0.01	0.01
2025-09-19	0.02	0.02	0.02	0.02	0.04	0.03	0.01	0.05	0.01
2025-09-20	0.02	0.08	0.02	0.02	0.09	0.03	0.01	0.01	0.01
2025-09-21	0.02	0.03	0.02	0.02	0.04	0.02	0.01	0.05	0.01
2025-09-22	0.02	0.05	0.02	0.02	0.07	0.03	0.01	0.01	0.01
2025-09-23	0.02	0.03	0.02	0.02	0.05	0.03	0.01	0.05	0.01
2025-09-24	0.02	0.06	0.02	0.02	0.09	0.03	0.01	0.01	0.01
2025-09-25	0.02	0.06	0.02	0.02	0.04	0.03	0.01	0.06	0.02
2025-09-26	0.02	0.06	0.02	0.03	0.11	0.03	0.01	0.01	0.01
2025-09-27	0.02	0.02	0.02	0.02	0.04	0.03	0.01	0.07	0.02
2025-09-28	0.02	0.07	0.02	0.02	0.10	0.03	0.01	0.02	0.01
2025-09-29	0.02	0.03	0.02	0.02	0.04	0.03	0.01	0.06	0.02
2025-09-30	0.02	0.05	0.02	0.02	0.08	0.03	0.01	0.01	0.01

Notes:

Train 2 Filter Turbidity (NTU)

Date	Filter 4			Filter 5			Filter 6		
	Min	Max	Average	Min	Max	Average	Min	Max	Average
2025-09-01	0.02	0.05	0.02	0.03	0.04	0.03	0.02	0.04	0.02
2025-09-02	0.02	0.03	0.02	0.03	0.07	0.04	0.01	0.02	0.02
2025-09-03	0.02	0.06	0.03	0.03	0.03	0.03	0.02	0.05	0.02
2025-09-04	0.02	0.03	0.02	0.03	0.09	0.04	0.02	0.04	0.02
2025-09-05	0.02	0.07	0.03	0.03	0.03	0.03	0.02	0.06	0.02
2025-09-06	0.02	0.03	0.03	0.03	0.09	0.05	0.02	0.03	0.02
2025-09-07	0.02	0.07	0.03	0.03	0.03	0.04	0.02	0.07	0.03
2025-09-08	0.02	0.03	0.02	0.02	0.07	0.03	0.02	0.03	0.02
2025-09-09	0.02	0.06	0.03	0.03	0.04	0.03	0.02	0.06	0.02
2025-09-10	0.02	0.03	0.02	0.03	0.08	0.04	0.02	0.03	0.02
2025-09-11	0.03	0.10	0.03	0.03	0.03	0.03	0.02	0.07	0.03
2025-09-12	0.02	0.04	0.03	0.03	0.07	0.03	0.02	0.02	0.02
2025-09-13	0.02	0.07	0.03	0.03	0.04	0.03	0.02	0.06	0.02
2025-09-14	0.02	0.03	0.03	0.03	0.06	0.03	0.03	0.03	0.03
2025-09-15	0.02	0.08	0.03	0.03	0.04	0.03	0.02	0.07	0.03
2025-09-16	0.02	0.03	0.02	0.02	0.06	0.03	0.02	0.03	0.02
2025-09-17	0.02	0.07	0.03	0.02	0.04	0.03	0.02	0.06	0.03
2025-09-18	0.02	0.03	0.02	0.02	0.07	0.03	0.02	0.02	0.02
2025-09-19	0.02	0.07	0.03	0.02	0.04	0.02	0.02	0.06	0.03
2025-09-20	0.02	0.04	0.03	0.02	0.06	0.03	0.02	0.03	0.02
2025-09-21	0.02	0.08	0.03	0.02	0.04	0.03	0.02	0.07	0.03
2025-09-22	0.02	0.03	0.02	0.02	0.07	0.03	0.02	0.05	0.02
2025-09-23	0.02	0.07	0.03	0.03	0.03	0.03	0.02	0.06	0.02
2025-09-24	0.02	0.05	0.02	0.03	0.09	0.03	0.02	0.02	0.02
2025-09-25	0.03	0.11	0.03	0.02	0.03	0.03	0.02	0.07	0.03
2025-09-26	0.03	0.03	0.03	0.03	0.09	0.03	0.02	0.03	0.03
2025-09-27	0.03	0.09	0.04	0.03	0.04	0.03	0.02	0.09	0.03
2025-09-28	0.02	0.05	0.03	0.02	0.08	0.03	0.02	0.04	0.03
2025-09-29	0.02	0.08	0.03	0.03	0.03	0.03	0.02	0.07	0.03
2025-09-30	0.02	0.03	0.03	0.02	0.08	0.03	0.02	0.03	0.02

Notes:

UV Treatment:

Date	Average Flow (L/s)	Avg Validated Dose (mj/cm2)	UV Availability (%)
2025-09-01	279.97	21.60	99.93
2025-09-02	195.34	30.58	99.93
2025-09-03	319.24	20.50	99.93
2025-09-04	379.45	21.06	99.93
2025-09-05	217.25	25.12	99.93
2025-09-06	204.72	27.42	99.93
2025-09-07	299.06	20.66	99.93
2025-09-08	223.53	24.90	99.93
2025-09-09	301.93	20.20	99.92
2025-09-10	271.04	22.70	98.50
2025-09-11	253.75	22.20	94.84
2025-09-12	290.57	20.34	99.93
2025-09-13	224.45	25.72	99.93
2025-09-14	196.92	29.08	99.93
2025-09-15	163.40	35.22	99.93
2025-09-16	221.62	27.44	99.93
2025-09-17	312.54	20.36	99.93
2025-09-18	335.23	20.50	99.93
2025-09-19	336.45	21.46	99.93
2025-09-20	291.62	22.10	99.93
2025-09-21	381.83	20.44	99.93
2025-09-22	225.24	27.20	99.93
2025-09-23	200.69	29.92	99.93
2025-09-24	271.61	23.24	99.93
2025-09-25	269.02	24.20	99.93
2025-09-26	228.74	25.86	99.93
2025-09-27	165.81	33.66	99.93
2025-09-28	162.69	34.78	99.37
2025-09-29	194.91	43.05	43.05
2025-09-30	226.70	98.97	98.97

Notes:

UV Transmittance %:

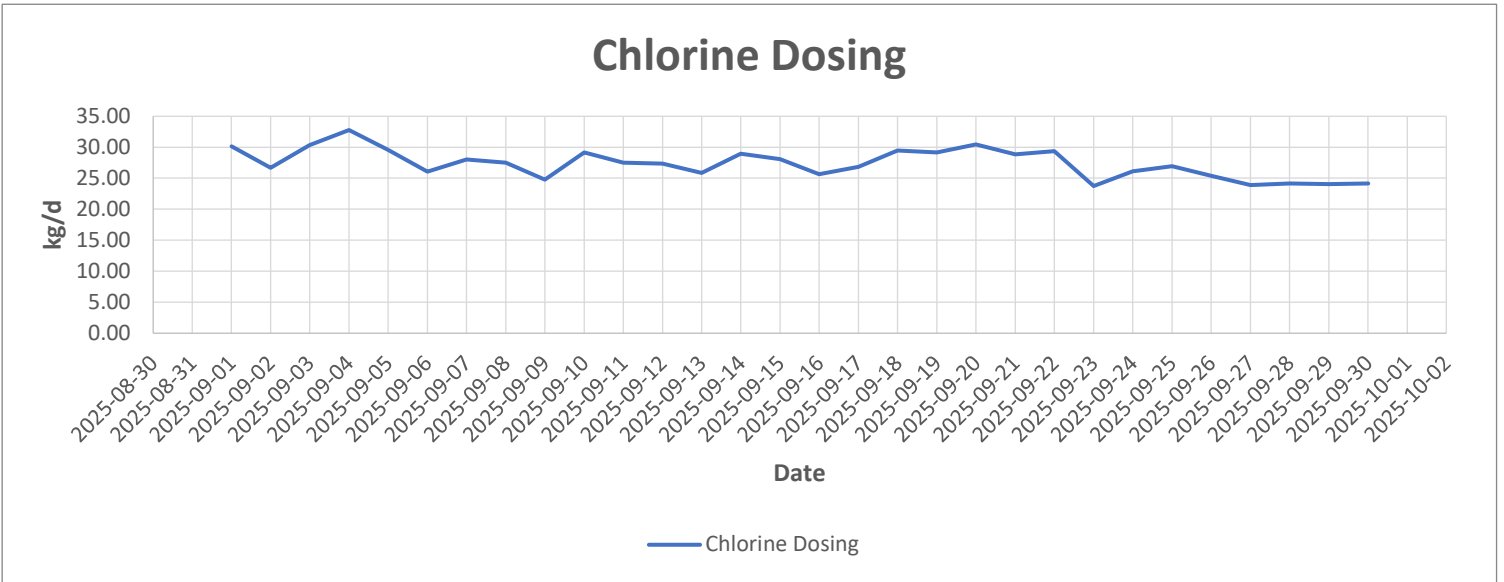
Date	Min	Max	Average
2025-09-01	91.10	91.90	91.55
2025-09-02	90.00	92.70	91.28
2025-09-03	90.10	91.40	90.68
2025-09-04	54.00	91.50	90.83
2025-09-05	90.40	91.70	90.96
2025-09-06	90.30	91.80	90.89
2025-09-07	90.50	91.70	90.95
2025-09-08	90.60	91.60	91.19
2025-09-09	91.10	92.20	91.50
2025-09-10	90.50	92.00	91.21
2025-09-11	89.90	90.70	90.27
2025-09-12	90.40	91.40	91.07
2025-09-13	91.00	92.00	91.38
2025-09-14	91.20	92.10	91.67
2025-09-15	91.60	92.60	92.08
2025-09-16	91.90	93.20	92.28
2025-09-17	91.80	93.40	92.26
2025-09-18	91.90	93.40	92.25
2025-09-19	91.90	92.90	92.25
2025-09-20	91.60	93.20	92.07
2025-09-21	91.70	93.80	92.14
2025-09-22	91.70	94.20	92.13
2025-09-23	90.80	93.60	92.00
2025-09-24	90.90	93.90	92.15
2025-09-25	91.40	93.70	91.89
2025-09-26	90.50	93.30	91.52
2025-09-27	90.90	92.30	91.53
2025-09-28	90.50	92.80	91.71
2025-09-29	91.30	93.00	91.97
2025-09-30	91.30	93.30	92.18

Notes:

Chemical Demand:

Chlorine Used:

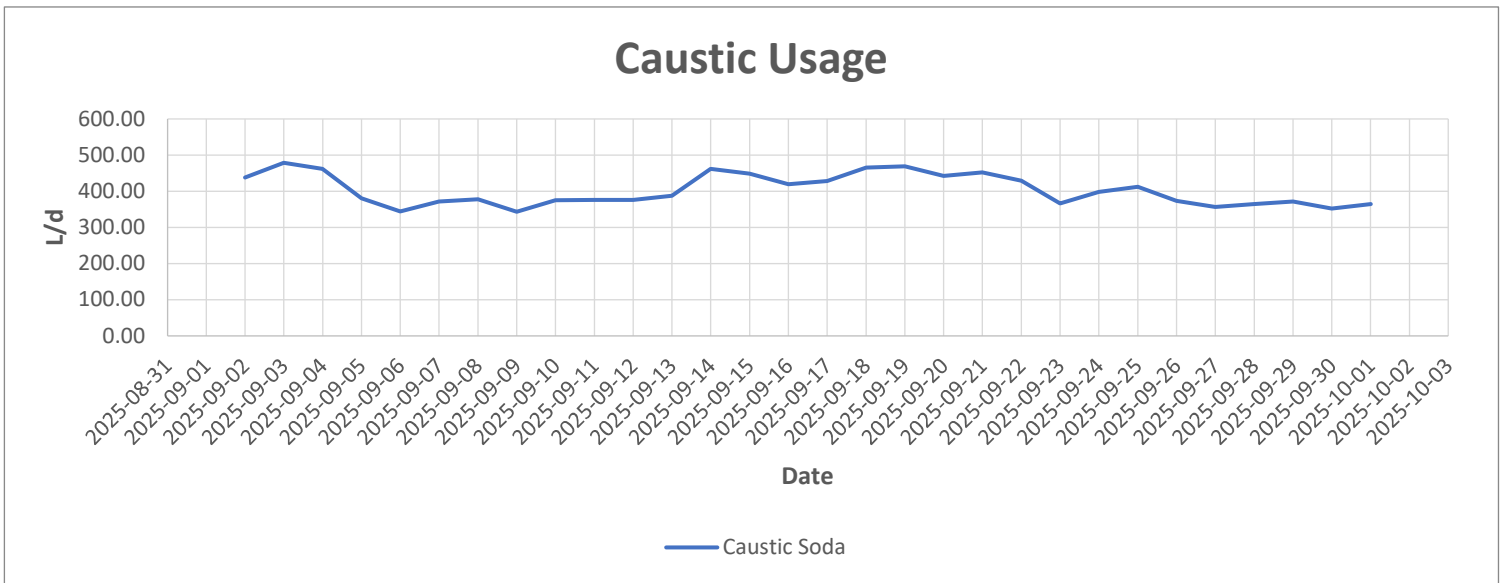
Total for Month
820.84 Kgs



Notes:

Caustic Soda Used:

Total for Month
12081.32 Litres

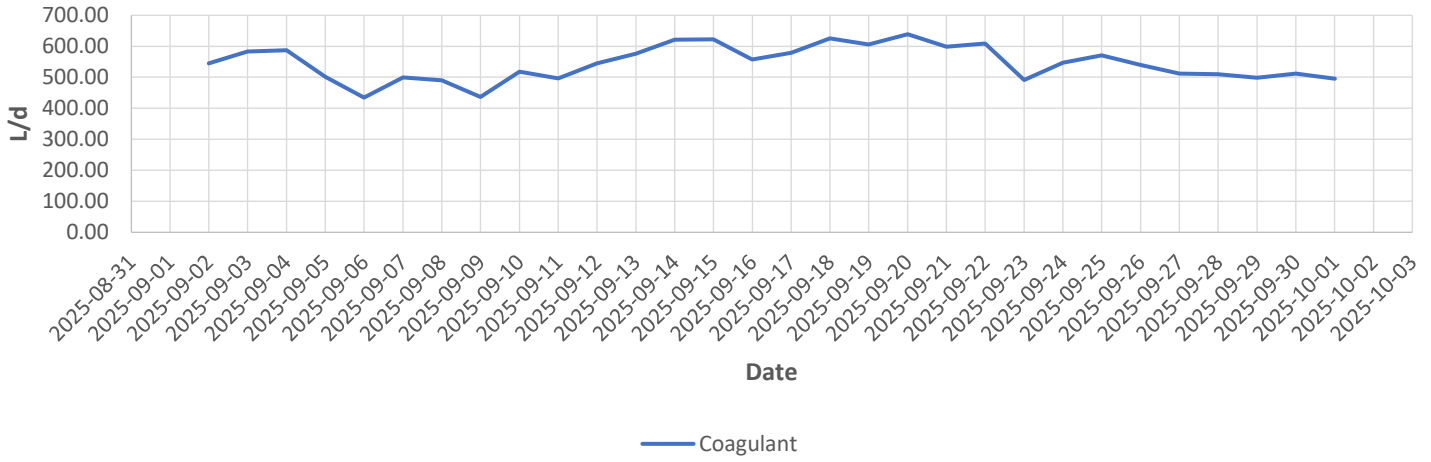


Notes:

Coagulant Used:

Total for Month
16346.26 Litres

Coagulant Usage



Notes:

DAF & Residual DAF Neat Polymer

Total for Month
330.45 L

Centrifuge Neat Polymer

Total for Month
679.43 L

Chlorine Dose

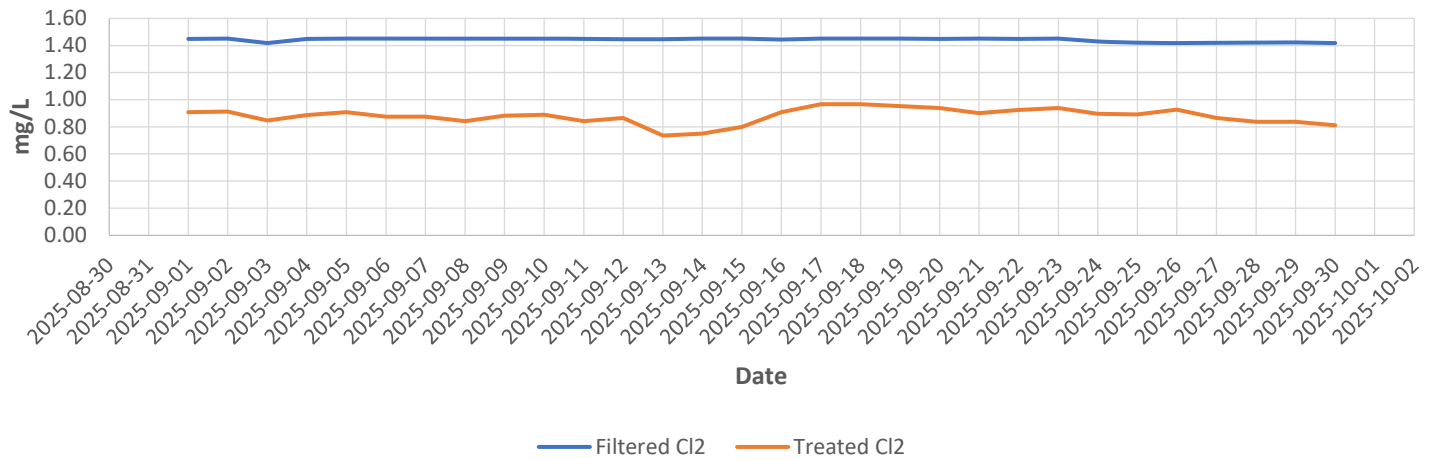
Filtered Water Residual Cl2 Average (mg/L):

1.44 mg/L

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

0.88 mg/L

Average Residual CL2 Content

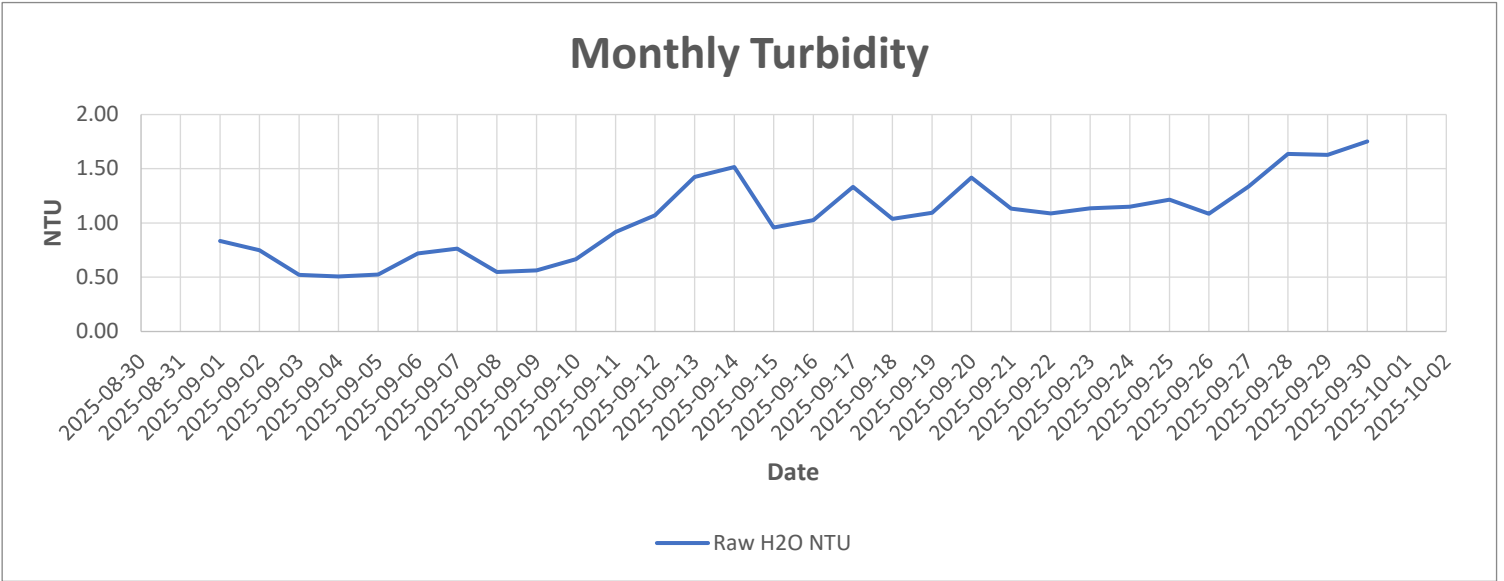


Water Quality Analytics:

Turbidity

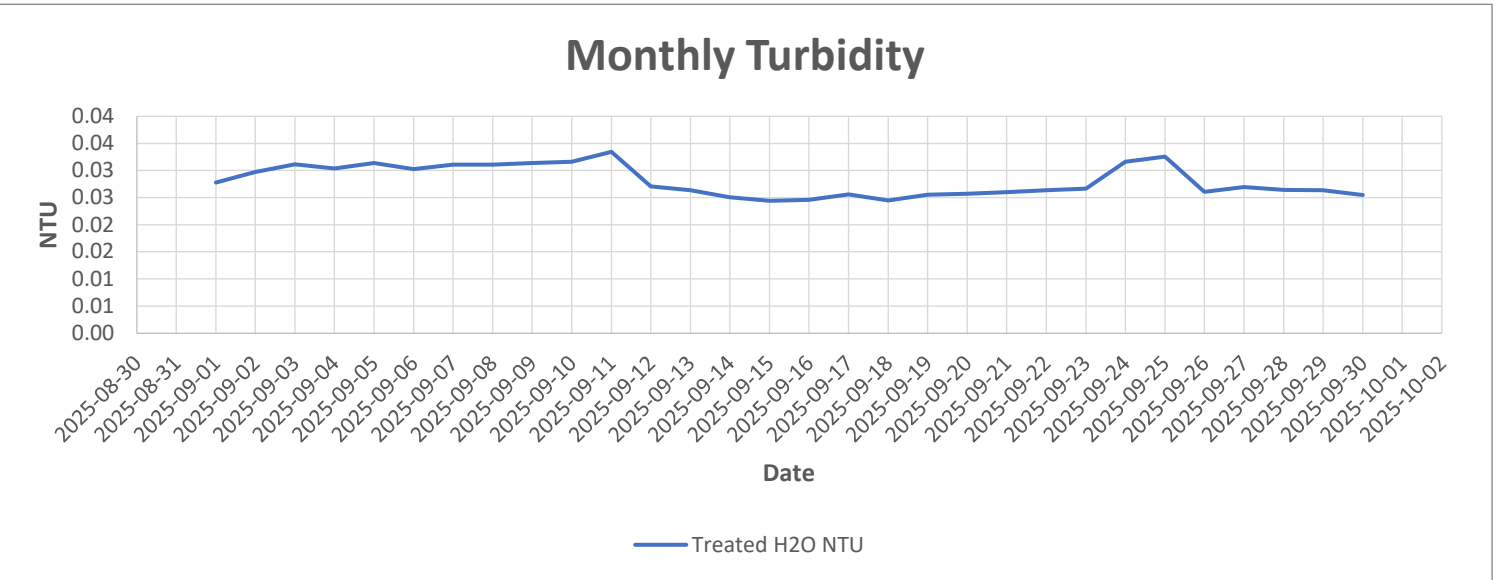
Raw Water Monthly Average:

1.04 NTU



Treated Water Monthly Average:

0.03 NTU



Notes:

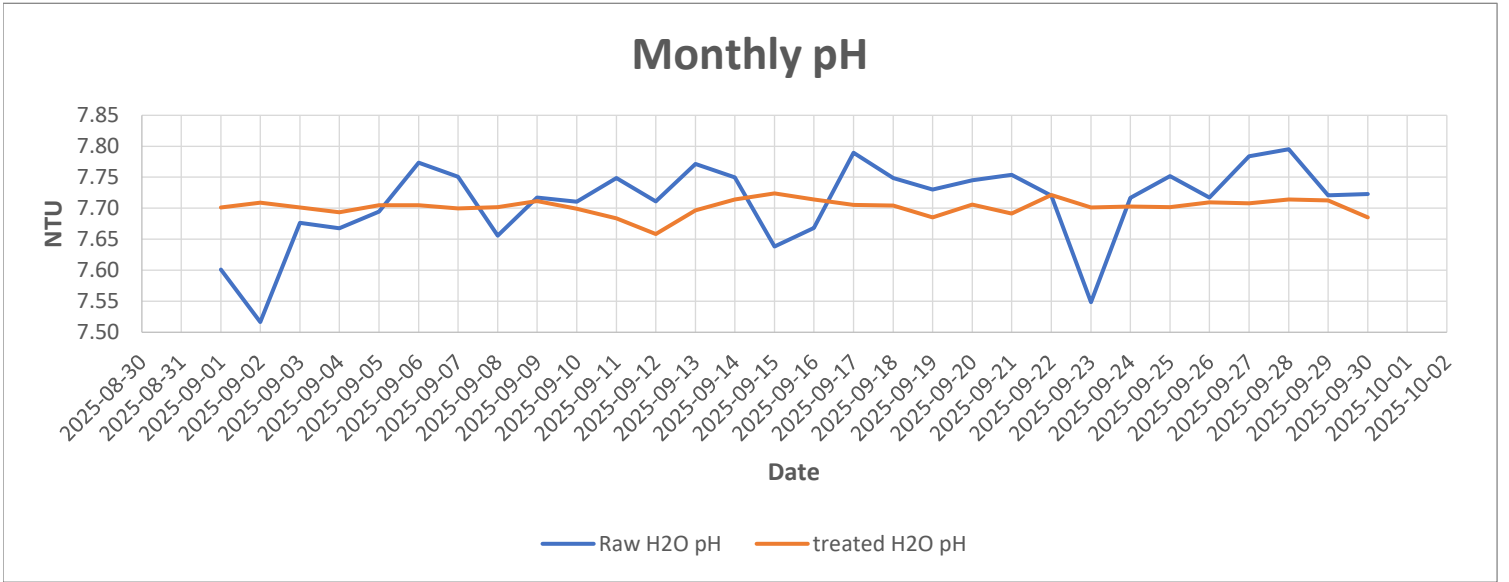
pH

Raw Water Monthly Average:

7.71 pH

Treated Water Monthly Average:

7.70 pH



Notes:

Powers Creek WTP Operational Highlights:

Ongoing Hypochlorite Project by contractor, all month (currently on hold due to deficiencies)

Sept 2nd-5th - New Cathodic Anode bed installed by contractors (Approved Services & Southwest Corrosion)

Sept 4th - Chemical (Chlorine gas) delivered & 2 tonners returned

Sept 4th - quarterly greasing of screens, rinse "Y" strainers

Sept 4th - semi-annual cleaning of Opti-view (UV system)

Sept 4th - new monitors installed at operator stations in control room

Sept 11th - Chemical (AluPAC 4000B) bulk load delivery

Sept 11th - cleaned & calibrated all NTU analyzers (Water Quality Technician)

Sept 12th - cleaned & calibrated all pH units (Water Quality Technician)

Sept 15th - staff training off site with Summitt Valve

Sept 16th - Chemical (Caustic) bulk load delivery

Sept 16th - Chlorine tonner swap out

Sept 18th - charged up Chlorine tonner

Sept 18th - 1000hr service on DAFs # 1, 2, 5 (millwright)

Sept 19th - cleaned rotameters & replaced lines on treated water NTU analyzer

Sept 23rd - 1000hr service on DAFs #3, 4, 6 (millwright)

Power Creek Watershed Operational Highlights:

Ongoing dam maintenance throughout the month

Lambly

Weekly Dam inspections

Sept 2nd 2664.3ML opened to 3600usgpm

Sept 17th Moved boom logs as per ACORA

Sept 23rd 2643.3ML opened to 2900usgpm

Jackpine

Weekly Dam inspections

Sept 2nd 1149.6ML

Sept 8th Opened to 1500usgpm

Sept 23rd 1037.4ML

Paynter

Sept 2nd Empty and closed for season

Horseshoe

Weekly Dam inspections

Sept 2nd 754.9ML Opened to 3800usgpm

Sept 17th Cleaned up spillway and moved boom logs as per ACORA

Sept 23rd 637.7ML opened to 3500usgpm

Dobbin

Weekly Dam inspection

Sept 2nd 349.1ML. Noticed small hole in culvert at NCD diversion pipe

Sept 23rd 336.7ML

Tadpole

Weekly Dam inspections

Sept 2nd 2558.2ML opened to 4500usgpm

Sept 16th 2258ML opened to 4186usgpm

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

September 2025

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 September.
- September Bacteriological Sampling Summary:
 - 16 samples to CARO for analysis
 - 8 samples analyzed in-house at RWTP
 - All bacteriological sample results were <1 CFU/100mL for Total Coliforms and <1 CFU/100mL for *E.coli*.
- September 10, 2025 – Dixie Reservoir was dosed with sodium hypochlorite (hypo) in an effort to increase the FCR by 0.20 mg/L.
- September 12, 2025 – Smith Creek Reservoir was dosed with hypo in an effort to raise the FCR by 0.40 mg/L.
- September 12, 2025 – Dixie Reservoir was dosed with hypo in an effort to raise the FCR by 0.20 mg/L.
- September 17, 2025 – Smith Creek Reservoir was dosed with hypo in an effort to raise the FCR by 0.20 mg/L.
- September 17, 2025 – Dixie Reservoir was dosed with hypo in an effort to raise the FCR by 0.20 mg/L.
- September 18, 2025 – Lateral One PS online analyzer housing and sensors were cleaned and were calibrated and verified 24 hours later.
 - September 19, 2025 – Lateral One PS online analyzer calibration adjustment of 0.39 mg/L increase.
- September 22, 2025 – Smith Creek PS online analyzer housing and sensors were cleaned and were calibrated and verified 24 hours later.
 - September 24, 2025 – Smith Creek PS online analyzer did not require calibration adjustment for FCR but the pH sensor required a calibration adjustment of 1.0 decrease.

Operational System Improvements/Events

- September 14, 2025 – Lateral One PS had a callout for “no flow” alarm, lead pump was switched over by treatment plant operations staff.
 - September 15, 2025 – Lateral 1 Pump #1 was placed into OFF position, it was found to have an electrical wiring issue and will be out of service until repairs are completed.
- September 19, 2025 – Dixie Reservoir the re-chlorination setpoint was raised from 0.50 mg/L to 0.70 mg/L.
- September 21, 2025 – Smith Creek PS had a security maintenance alarm (low battery level) and operator confirm security system remains in operation and tested by triggering an intrusion as a test. Battery maintenance took place at a later date.
- September 26, 2025 – Smith Creek Reservoir cleaning commenced.
- September 29, 2025 – Smith Creek Reservoir cleaning was completed.

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

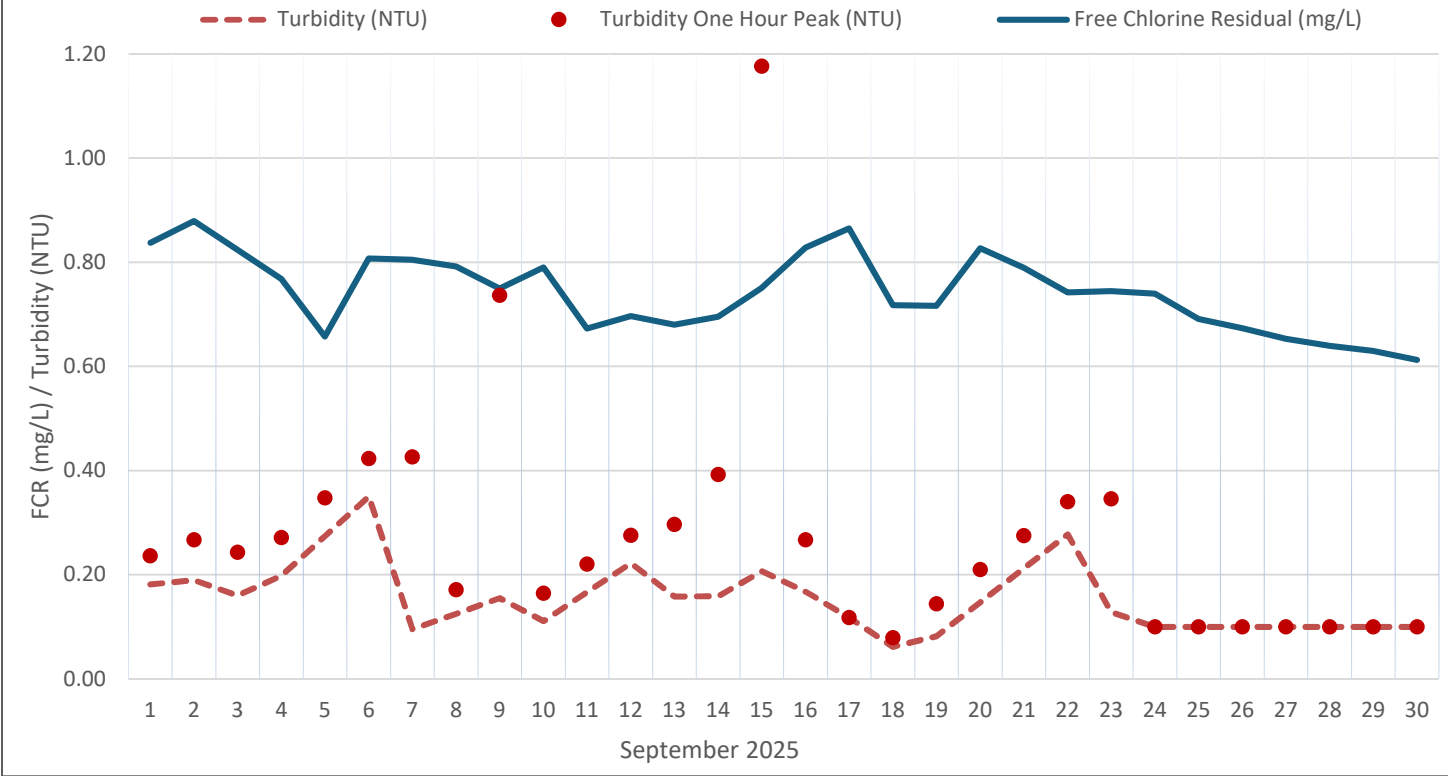
Note: Water Quality (WQ) field data results reflect that of the noted location within the distribution system at the time of the grab sample collection.

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)
September 2025							
1	7.18	0.18	0.24	19.14	0.69	0.92	0.84
2	7.21	0.19	0.27	19.84	0.74	0.99	0.88
3	7.23	0.16	0.24	20.57	0.63	0.95	0.82
4	7.26	0.20	0.27	21.52	0.49	1.04	0.77
5	7.27	0.27	0.35	21.39	0.49	0.99	0.66
6	7.23	0.35	0.42	19.34	0.65	0.90	0.81
7	7.25	0.10	0.43	19.27	0.64	0.92	0.81
8	7.22	0.13	0.17	19.13	0.67	0.86	0.79
9	7.23	0.16	0.74	20.54	0.57	0.92	0.75
10	7.26	0.11	0.16	18.84	0.63	1.17	0.79
11	7.28	0.17	0.22	19.82	0.56	1.00	0.67
12	7.19	0.22	0.28	19.42	0.55	0.96	0.70
13	7.31	0.16	0.30	18.80	0.53	0.96	0.68
14	7.26	0.16	0.39	18.24	0.54	0.90	0.70
15	7.27	0.21	1.18	16.08	0.61	0.82	0.75
16	7.31	0.17	0.27	16.46	0.67	0.90	0.83
17	7.25	0.12	0.12	16.08	0.71	0.93	0.87
18	7.58	0.06	0.08	17.27	0.42	0.92	0.72
19	7.51	0.08	0.14	15.09	0.47	0.91	0.72
20	7.49	0.15	0.21	14.40	0.65	0.89	0.83
21	7.48	0.21	0.27	14.70	0.63	0.86	0.79
22	7.48	0.28	0.34	14.43	0.61	0.81	0.74
23	7.75	0.13	0.35	15.58	0.58	0.84	0.74
24	7.45	0.10	0.10	13.01	0.59	0.85	0.74
25	7.44	0.10	0.10	13.03	0.54	0.76	0.69
26	7.41	0.10	0.10	12.05	0.55	0.73	0.67
27	7.41	0.10	0.10	11.64	0.53	0.73	0.65
28	7.36	0.10	0.10	12.05	0.54	0.71	0.64
29	7.36	0.10	0.10	12.53	0.53	0.68	0.63
30	7.42	0.10	0.10	12.90	0.49	0.68	0.61
Average	7.35	0.16		16.77	0.58	0.88	0.74
Min	7.18	0.06		11.64	0.42	0.68	0.61
Max	7.75	0.35	1.18	21.52	0.74	1.17	0.88

- September 14-15, 2025 – Lateral One Pump #1 electrical issue, causing pumping disturbance associated temporary online turbidity analyzer spike not reflective that of the water quality at the time. Pump #1 offline until repair can be completed, leaving Pump #2 & #3 to run in the interim.

Lateral One PS Online Data



Lateral One PS Water Quality

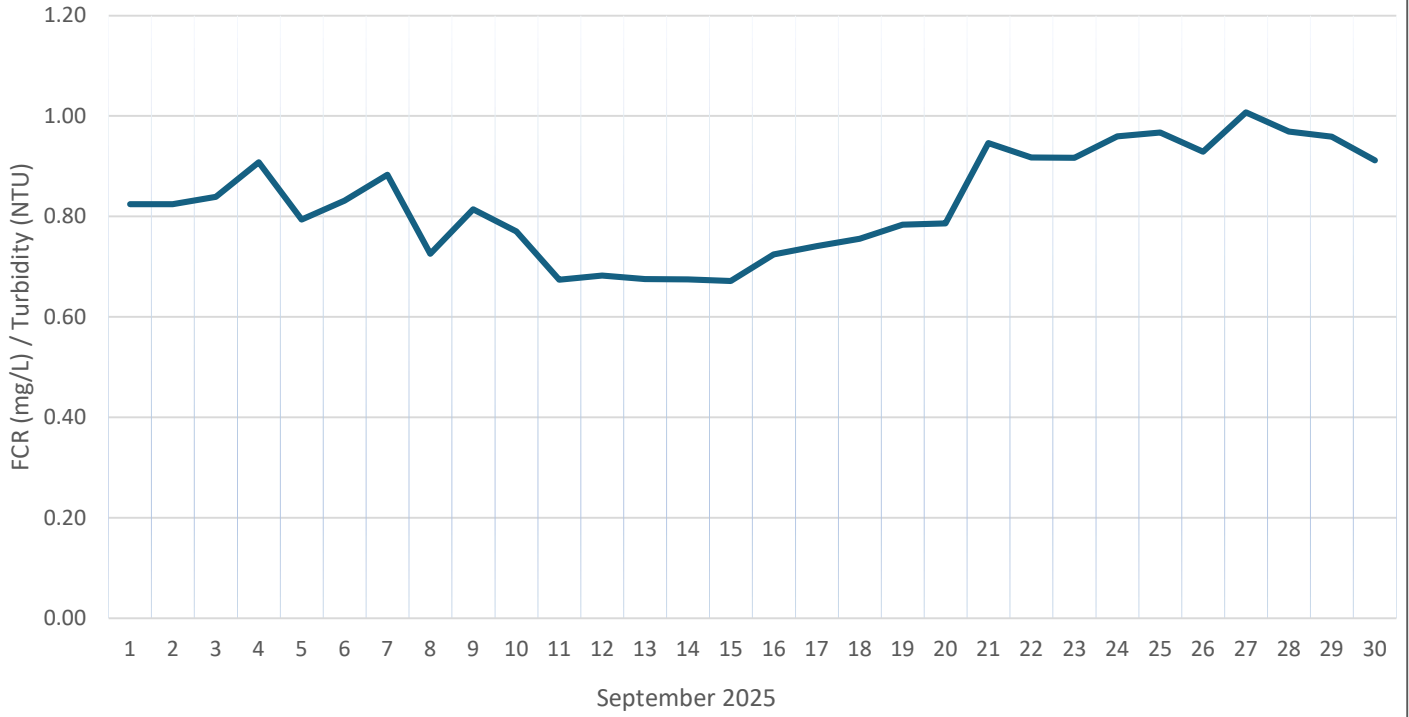
Date	Turbidity		Temp	FCR		pH
	Grab (NTU)	Online (NTU)	Grab (°C)	Grab (mg/L)	Online (mg/L)	
02-Sep-25	0.13	0.10	19.6	0.84	0.95	7.56
09-Sep-25	0.96	0.47	22.0	0.71	0.59	7.63
16-Sep-25	0.30	0.12	15.3	0.86	0.89	
23-Sep-25	0.13	0.06	13.0	0.91	0.81	7.42
# of Samples	4	4	4	4	4	3
Average	0.38	0.19	17.5	0.83	0.81	7.54
Range	0.13-0.96	0.06-0.47	13-22	0.71-0.91	0.59-0.95	7.42-7.63

Glenrosa PS & Reservoir

Glenrosa PS & Reservoir Online Data					
Date	Flow Total From PS	Peak Flow From PS	Reservoir pH	Reservoir Temp	FCR
	(ML)	Max (ML/Day)	Avg (pH)	Avg (°C)	Avg (mg/L)
September 2025					
1	3.80	5.08	8.03	17.09	0.82
2	3.85	5.07	8.03	17.09	0.82
3	4.13	9.01	8.05	17.02	0.84
4	3.30	5.09	8.06	17.09	0.91
5	3.43	5.10	8.06	16.69	0.79
6	3.68	8.83	8.07	16.30	0.83
7	3.70	5.09	8.07	16.25	0.88
8	3.53	5.07	8.06	16.22	0.73
9	3.51	8.82	8.07	16.20	0.81
10	3.64	5.07	8.06	15.92	0.77
11	3.53	5.06	8.04	15.63	0.67
12	3.00	5.08	8.02	15.63	0.68
13	3.63	5.10	8.07	15.47	0.68
14	3.60	5.09	8.07	15.54	0.67
15	2.94	5.07	8.09	15.36	0.67
16	3.53	5.06	8.10	15.43	0.72
17	3.63	5.06	8.10	15.24	0.74
18	3.45	5.05	8.11	15.14	0.76
19	3.02	5.05	8.11	14.85	0.78
20	3.41	5.05	8.11	14.37	0.79
21	3.52	9.01	8.11	14.37	0.95
22	2.81	5.08	8.11	14.27	0.92
23	3.37	8.98	8.12	13.69	0.92
24	3.12	5.06	8.11	13.28	0.96
25	2.96	5.06	8.10	13.13	0.97
26	3.18	5.06	8.09	12.72	0.93
27	3.41	5.06	8.10	12.30	1.01
28	3.41	5.06	8.09	12.37	0.97
29	2.93	5.07	8.09	12.50	0.96
30	2.96	5.09	8.08	12.68	0.91
Total	98				
Average	3.40	5.71	8.08	15.00	0.83
Min	2.81	5.05	8.02	12.30	0.67
Max	4.13	9.01	8.12	17.09	1.01

Glenrosa Reservoir Online Data

Free Chlorine Residual (mg/L)

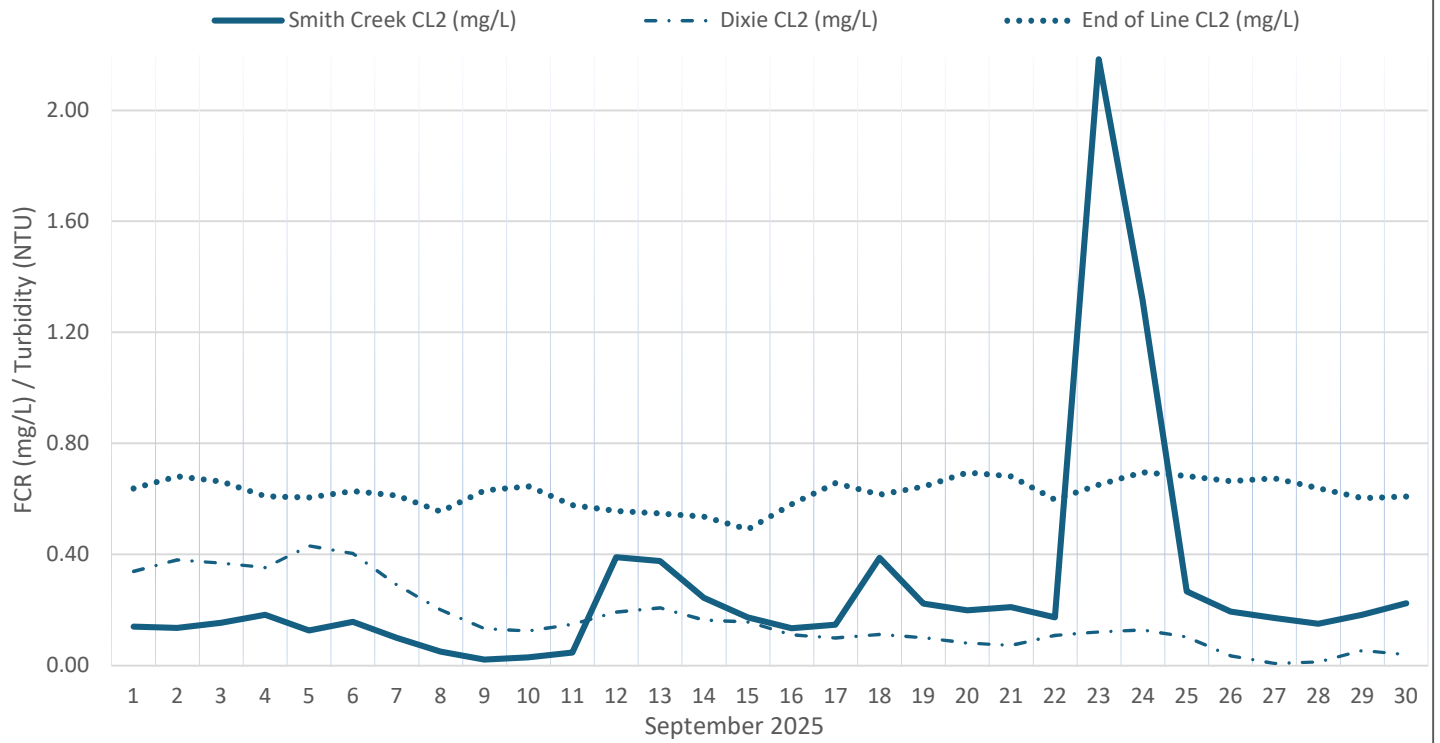


Smith Creek PS, Dixie Reservoir & End-of-Line WQS

Date	Smith Creek FCR Online Data			Dixie Reservoir FCR Online Data			End of The Line FCR Online Data		
	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)
September 2025									
1	0.11	0.15	0.14	0.29	0.39	0.34	0.63	0.67	0.64
2	0.10	0.46	0.14	0.29	0.46	0.38	0.63	0.72	0.68
3	0.12	0.18	0.15	0.30	0.42	0.37	0.58	0.75	0.66
4	0.08	0.42	0.18	0.26	0.44	0.35	0.57	0.63	0.61
5	0.08	0.17	0.13	0.34	0.51	0.43	0.58	0.63	0.61
6	0.12	0.18	0.16	0.33	0.46	0.40	0.58	0.68	0.63
7	0.07	0.13	0.10	0.23	0.34	0.29	0.56	0.69	0.61
8	0.02	0.08	0.05	0.15	0.24	0.20	0.52	0.58	0.56
9	0.01	0.02	0.02	0.09	0.17	0.13	0.56	0.66	0.63
10	0.02	0.06	0.03	0.07	0.23	0.13	0.61	0.71	0.65
11	0.04	0.07	0.05	0.10	0.21	0.15	0.52	0.63	0.58
12	0.03	2.00	0.39	0.12	0.26	0.19	0.52	0.59	0.56
13	0.30	0.46	0.38	0.18	0.24	0.21	0.49	0.64	0.55
14	0.18	0.32	0.24	0.12	0.21	0.16	0.50	0.62	0.54
15	0.15	0.21	0.17	0.12	0.18	0.16	0.44	0.54	0.49
16	0.10	0.17	0.13	0.07	0.17	0.11	0.54	0.62	0.58
17	0.08	0.38	0.15	0.04	0.18	0.10	0.60	0.77	0.66
18	0.32	0.42	0.39	0.07	0.18	0.11	0.59	0.65	0.62
19	0.12	0.32	0.22	0.04	0.15	0.10	0.61	0.69	0.65
20	0.18		0.20	0.04	0.12	0.08	0.65	0.75	0.70
21	0.18	0.28	0.21	0.03	0.11	0.07	0.60	0.77	0.68
22	0.00	2.64	0.17	0.04	0.19	0.11	0.56	0.63	0.60
23	0.00	2.81	2.18	0.07	0.17	0.12	0.60	0.71	0.65
24	0.00	2.53	1.32	0.07	0.18	0.13	0.67	0.76	0.70
25	0.22	0.32	0.27	0.06	0.13	0.10	0.63	0.76	0.68
26	0.15	0.22	0.19	0.01	0.06	0.04	0.62	0.72	0.66
27	0.15	0.18	0.17	0.01	0.02	0.01	0.62	0.74	0.67
28	0.14	0.19	0.15	0.01	0.02	0.01	0.59	0.72	0.64
29	0.15	0.24	0.18	0.02	0.10	0.05	0.56	0.65	0.60
30	0.19	0.24	0.22	0.01	0.06	0.04	0.56	0.65	0.61
Average	0.11	0.75	0.28	0.12	0.22	0.17	0.58	0.68	0.62
Min	0.00	0.02	0.02	0.01	0.02	0.01	0.44	0.54	0.49
Max	0.32	2.81	2.18	0.34	0.51	0.43	0.67	0.77	0.70

- September 23, 2025 – Smith Creek PS pH online analyzer caused the erroneous FCR readings, this was corrected September 24th once the EI Technician serviced and calibrated the pH sensor.

Smith Creek/Dixie/End of Line Online Data



End-of-Line WQS Water Quality

Date	Turbidity		Temp	FCR		pH
	Grab (NTU)	Grab (NTU)	Grab (°C)	Grab (mg/L)	Online (mg/L)	
02-Sep-25	0.12	0.12	19.1	0.57	0.66	7.51
09-Sep-25	0.13	0.13	19.4	0.57	0.65	7.64
16-Sep-25	0.11	0.11	18.5	0.56	0.60	7.89
23-Sep-25	0.14	0.14	16.9	0.66	0.66	7.73
# of Samples	4	4	4	4	4	4
Average	0.13	0.13	18.5	0.59	0.64	7.69
Range	0.11-0.14	0.11-0.14	16.9-19.4	0.56-0.66	0.60-0.66	7.51-7.89

WQ Field Data

Mclver SS

Mclver SS Water Quality				
Date	Turbidity	Temp	FCR	pH
	Grab (NTU)	Grab (°C)	Grab (mg/L)	
02-Sep-25	0.12	18.6	0.49	7.53
09-Sep-25	0.23	19.1	0.66	7.68
16-Sep-25	0.13	18.1	0.63	7.90
23-Sep-25	0.13	16.9	0.75	7.71
# of Samples	4	4	4	4
Average	0.15	18.2	0.63	7.71
Range	0.12-0.23	16.9-19.1	0.49-0.75	7.53-7.90

Bulk Water Station (Stn)

Bulk Water Station Water Quality				
Date	Turbidity	Temp	FCR	pH
	Grab (NTU)	Grab (°C)	Grab (mg/L)	
02-Sep-25	0.14	19.3	0.60	7.51
09-Sep-25	0.35	19.5	0.73	7.66
16-Sep-25	0.21	19.9	0.32	7.80
23-Sep-25	0.21	17.1	0.66	7.47
# of Samples	4	4	4	4
Average	0.23	19.0	0.58	7.61
Range	0.14-0.35	17.1-19.9	0.32-0.73	7.47-7.80