CITY OF WEST KELOWNA

Monthly Water Quality Report

Powers Creek Water Service Area

June 2025

WATER SUPPLY AND TREATMENT

CITY OF
WEST
KELOWNA

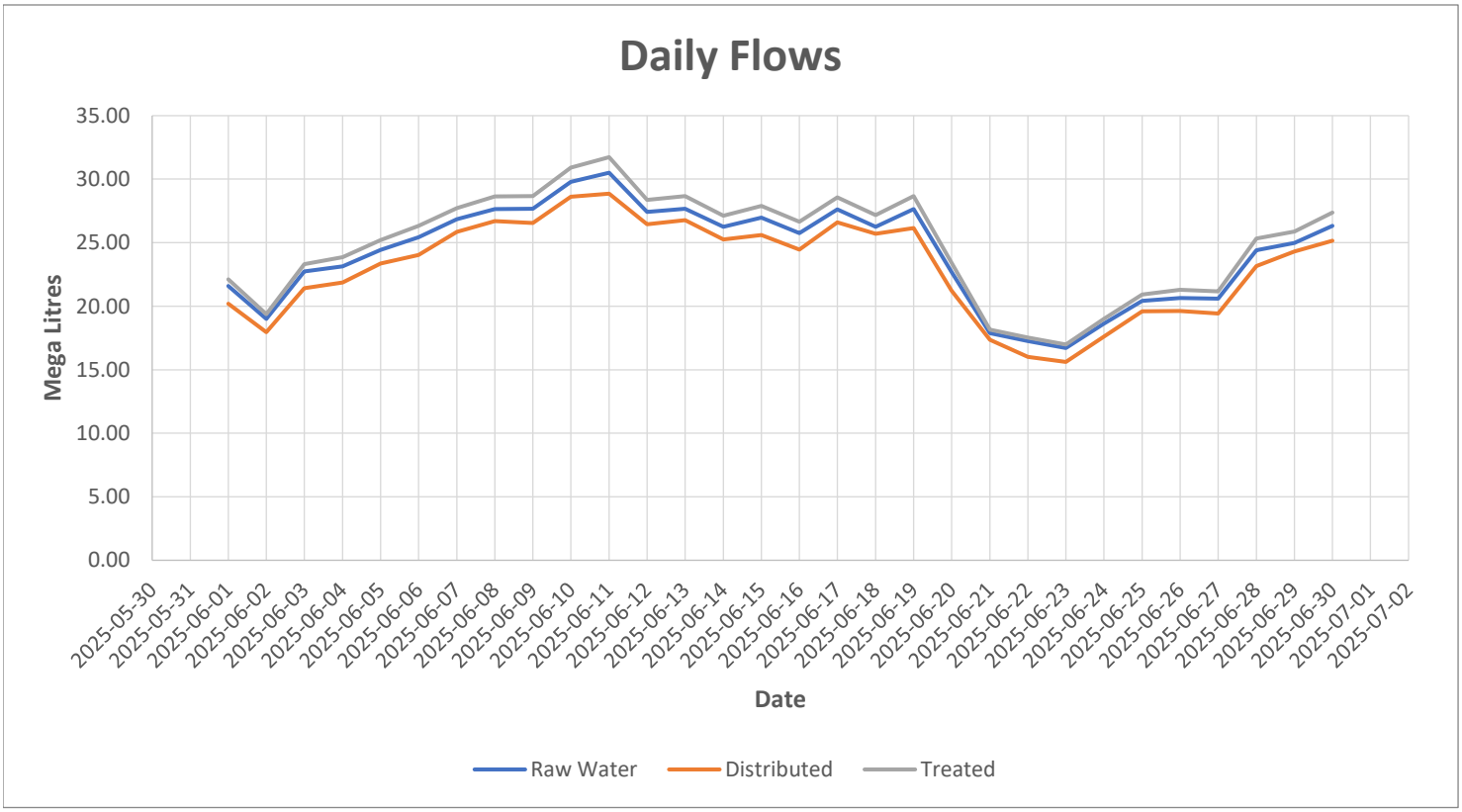
Powers Creek
Water Treatment Plant Monthly
Water Quality Summary

2025-07-14

June, 2025

Flow Demand:

	Total for Month
Raw Processed Water:	724.88 ML
Treated Water :	748.01 ML
Distributed Water :	691.43 ML
Backwash Water :	27.29 ML



Notes:

Raw Water Specifications:

	Raw Turbidity (NTU)			Raw pH		
Date	Min	Max	Average	Min	Max	Average
2025-06-01	0.93	3.89	1.10	7.56	7.80	7.73
2025-06-02	0.86	1.96	1.02	7.41	7.80	7.62
2025-06-03	0.85	14.37	1.32	7.60	7.87	7.72
2025-06-04	0.84	1.77	0.96	7.48	7.79	7.67
2025-06-05	0.70	2.45	0.87	7.62	7.94	7.80
2025-06-06	0.82	2.19	0.90	7.56	7.88	7.75
2025-06-07	0.79	1.28	0.90	7.57	7.78	7.72
2025-06-08	0.67	1.27	0.84	7.34	7.55	7.45
2025-06-09	0.74	2.42	0.85	7.36	7.95	7.61
2025-06-10	0.59	1.19	0.73	7.57	7.92	7.77
2025-06-11	0.59	1.41	0.65	7.68	7.93	7.78
2025-06-12	0.56	1.17	0.68	7.56	7.83	7.69
2025-06-13	0.50	5.05	0.61	7.58	7.88	7.74
2025-06-14	0.47	0.96	0.59	7.75	7.91	7.81
2025-06-15	0.36	1.45	0.52	7.70	7.86	7.76
2025-06-16	0.37	3.41	0.61	7.67	7.95	7.79
2025-06-17	0.60	1.10	0.66	7.73	7.95	7.81
2025-06-18	0.51	1.06	0.59	7.69	7.93	7.82
2025-06-19	0.50	2.29	0.57	7.69	7.96	7.82
2025-06-20	0.51	0.95	0.60	7.56	7.89	7.74
2025-06-21	0.61	1.60	0.75	7.57	7.88	7.75
2025-06-22	0.53	1.32	0.63	7.48	7.84	7.64
2025-06-23	0.41	1.12	0.50	7.32	7.86	7.60
2025-06-24	0.39	1.04	0.45	7.72	7.84	7.81
2025-06-25	0.38	1.25	0.48	7.50	7.84	7.68
2025-06-26	0.37	0.82	0.42	7.50	7.72	7.60
2025-06-27	0.36	0.95	0.42	7.51	7.69	7.60
2025-06-28	0.35	0.79	0.40	7.54	7.72	7.61
2025-06-29	0.36	0.78	0.41	7.50	7.74	7.60
2025-06-30	0.39	1.96	0.47	7.45	7.72	7.57

Notes:

Raw Water Specifications (Continued):

	Raw Temp (˚C)			Raw DOC (mg/L)		
Date	Min	Max	Average	Min	Max	Average
2025-06-01	10.98	18.75	15.01	17.14	17.61	17.31
2025-06-02	8.71	18.94	11.68	16.83	17.22	17.06
2025-06-03	9.87	18.92	13.69	16.71	19.56	16.92
2025-06-04	10.99	19.23	13.75	16.46	16.77	16.60
2025-06-05	10.97	15.35	12.97	16.30	16.62	16.45
2025-06-06	12.30	19.00	13.78	15.80	16.27	16.08
2025-06-07	13.32	17.75	15.95	15.57	15.87	15.71
2025-06-08	16.67	20.87	19.71	15.23	15.65	15.46
2025-06-09	12.83	20.49	15.31	14.98	15.36	15.25
2025-06-10	13.08	17.55	15.34	14.63	14.97	14.78
2025-06-11	13.18	20.90	15.88	14.37	14.67	14.55
2025-06-12	14.73	21.93	18.51	14.37	14.55	14.47
2025-06-13	13.26	19.33	14.75	14.32	17.99	14.46
2025-06-14	12.85	15.62	14.10	14.34	15.02	14.67
2025-06-15	12.75	17.82	14.55	14.59	15.12	14.89
2025-06-16	12.38	15.59	14.10	14.49	15.09	14.74
2025-06-17	11.93	15.42	14.21	14.47	14.88	14.68
2025-06-18	12.49	14.49	13.66	14.69	15.44	15.08
2025-06-19	11.17	17.72	13.51	15.15	15.88	15.51
2025-06-20	12.49	20.99	15.15	15.46	16.31	15.85
2025-06-21	11.27	13.30	12.20	16.04	16.92	16.52
2025-06-22	12.01	19.78	17.51	16.50	17.16	16.83
2025-06-23	11.89	19.86	14.63	15.99	16.81	16.51
2025-06-24	11.82	15.07	12.73	15.87	16.64	16.27
2025-06-25	12.95	14.64	13.67	13.32	16.11	15.30
2025-06-26	12.09	15.62	13.33	11.83	13.11	12.63
2025-06-27	12.50	13.87	13.17	11.45	12.34	11.88
2025-06-28	12.00	13.98	12.94	11.35	12.14	11.64
2025-06-29	12.03	18.04	13.94	11.18	11.79	11.47
2025-06-30	13.13	18.54	14.96	11.01	12.40	11.39

Notes:

Raw Water Specifications (Continued):

	Raw Cond (µS/cm)			Streaming Current		
Date	Min	Max	Average	Min	Max	Average
2025-06-01	89.50	89.98	89.78	-2.09	28.66	13.28
2025-06-02	56.60	97.56	90.39	1.20	38.08	18.71
2025-06-03	40.61	94.70	91.48	-10.08	25.54	7.98
2025-06-04	68.85	93.18	92.53	-15.99	20.60	4.15
2025-06-05	88.94	94.60	93.41	-24.79	13.74	-4.89
2025-06-06	68.66	96.79	95.08	-26.75	1.13	-15.33
2025-06-07	96.16	97.48	96.56	-15.14	51.15	3.23
2025-06-08	96.02	99.53	97.54	-19.93	47.38	4.25
2025-06-09	97.62	99.53	98.35	-17.90	70.79	6.54
2025-06-10	81.71	116.86	100.51	-0.76	128.30	21.49
2025-06-11	99.96	102.97	101.94	???	57.42	2.05
2025-06-12	100.15	103.17	102.68	-45.70	34.19	-3.88
2025-06-13	100.89	103.82	102.98	-20.71	53.29	4.16
2025-06-14	101.23	103.90	103.02	-26.65	31.31	3.77
2025-06-15	101.55	104.78	102.81	-29.87	35.32	4.97
2025-06-16	82.66	105.07	103.63	-20.59	42.04	10.60
2025-06-17	98.93	108.94	103.82	-22.62	45.33	8.23
2025-06-18	97.85	104.92	103.18	-21.93	51.22	12.92
2025-06-19	87.83	103.78	102.49	-9.29	40.11	15.83
2025-06-20	100.71	102.87	101.88	-32.71	46.23	8.18
2025-06-21	98.86	103.07	100.50	-51.78	54.51	2.18
2025-06-22	102.35	103.25	102.80	-57.98	47.43	-12.75
2025-06-23	96.33	103.74	102.33	-59.96	39.15	-9.53
2025-06-24	102.80	104.65	103.32	-56.62	39.27	-2.99
2025-06-25	48.51	105.77	104.72	???	52.46	-9.17
2025-06-26	0.24	103.02	102.19	-40.86	19.53	-4.96
2025-06-27	78.62	102.00	101.59	-23.91	4.15	-9.34
2025-06-28	100.48	101.89	101.59	-24.72	-0.90	-15.77
2025-06-29	99.55	102.90	102.33	-34.78	2.01	-19.04
2025-06-30	91.19	105.87	103.07	-58.65	-13.94	-34.39

Notes:

Raw Water Specifications (Continued):

	Coagulated pH			Coagulated Temp (˚C)		
Date	Min	Max	Average	Min	Max	Average
2025-06-01	6.88	6.94	6.91	9.50	11.16	10.48
2025-06-02	6.87	6.97	6.92	8.60	11.07	9.92
2025-06-03	6.92	7.00	6.96	9.87	12.34	10.91
2025-06-04	6.91	7.02	6.95	10.59	11.99	11.38
2025-06-05	6.95	7.00	6.97	10.78	14.23	12.30
2025-06-06	6.95	7.02	6.99	12.21	13.54	12.89
2025-06-07	6.88	6.98	6.94	12.22	15.12	13.45
2025-06-08	6.90	6.99	6.95	11.78	15.14	13.40
2025-06-09	6.92	7.02	6.96	12.91	16.29	14.41
2025-06-10	6.83	6.98	6.90	13.05	15.82	14.56
2025-06-11	6.87	6.96	6.91	13.19	16.21	14.79
2025-06-12	6.83	6.93	6.89	14.64	15.58	15.21
2025-06-13	6.82	6.96	6.91	13.26	19.55	14.14
2025-06-14	6.90	6.97	6.93	13.36	15.53	14.30
2025-06-15	6.89	6.95	6.91	13.34	15.70	14.48
2025-06-16	6.79	6.93	6.87	12.42	14.84	13.91
2025-06-17	6.83	6.98	6.90	12.05	14.70	13.58
2025-06-18	6.86	6.95	6.90	12.80	14.41	13.65
2025-06-19	6.83	7.00	6.90	11.25	13.92	12.77
2025-06-20	6.89	6.96	6.92	12.76	13.54	13.20
2025-06-21	6.85	7.00	6.94	11.67	12.51	12.17
2025-06-22	6.94	7.03	6.98	12.23	14.50	12.91
2025-06-23	6.87	7.02	6.95	12.23	14.77	13.57
2025-06-24	???	???	6.98	12.35	???	13.43
2025-06-25	6.96	7.08	7.04	13.44	25.57	14.31
2025-06-26	7.07	7.16	7.11	12.24	14.09	13.20
2025-06-27	7.13	7.18	7.16	12.40	13.45	12.96
2025-06-28	7.17	7.23	7.20	11.82	13.59	12.68
2025-06-29	7.19	7.26	7.23	11.98	15.02	13.27
2025-06-30	7.24	7.29	7.26	12.99	16.11	14.37

Notes:

Train 1 Filter Turbidity (NTU):

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

Notes:

Train 2 Filter Turbidity (NTU)

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

Notes:

UV Treatment:

Date	Average Flow (L/s)	Avg Validated Dose (mj/cm2)	UV Availability (%)
2025-06-01	186.19	36.30	96.77
2025-06-02	184.23	37.56	99.92
2025-06-03	195.20	37.14	99.24
2025-06-04	319.14	36.38	99.93
2025-06-05	290.37	37.54	99.93
2025-06-06	348.08	35.30	99.93
2025-06-07	236.97	37.46	99.93
2025-06-08	355.61	36.84	99.93
2025-06-09	386.99	35.86	99.93
2025-06-10	380.87	36.70	99.93
2025-06-11	409.45	35.96	99.93
2025-06-12	362.02	39.40	99.93
2025-06-13	365.89	38.22	99.93
2025-06-14	290.06	21.34	99.93
2025-06-15	294.31	20.72	99.93
2025-06-16	386.56	21.80	99.93
2025-06-17	263.10	21.40	99.93
2025-06-18	351.55	20.80	99.93
2025-06-19	289.93	20.64	99.93
2025-06-20	342.89	20.60	99.93
2025-06-21	169.12	28.36	99.93
2025-06-22	172.30	27.14	99.93
2025-06-23	208.16	22.50	99.93
2025-06-24	219.47	22.26	99.93
2025-06-25	217.60	22.30	99.93
2025-06-26	298.45	20.88	99.93
2025-06-27	192.11	34.26	99.92
2025-06-28	323.45	21.36	99.17
2025-06-29	219.93	99.93	99.93
2025-06-30	282.46	99.93	99.93

Notes:

UV Transmittance %:

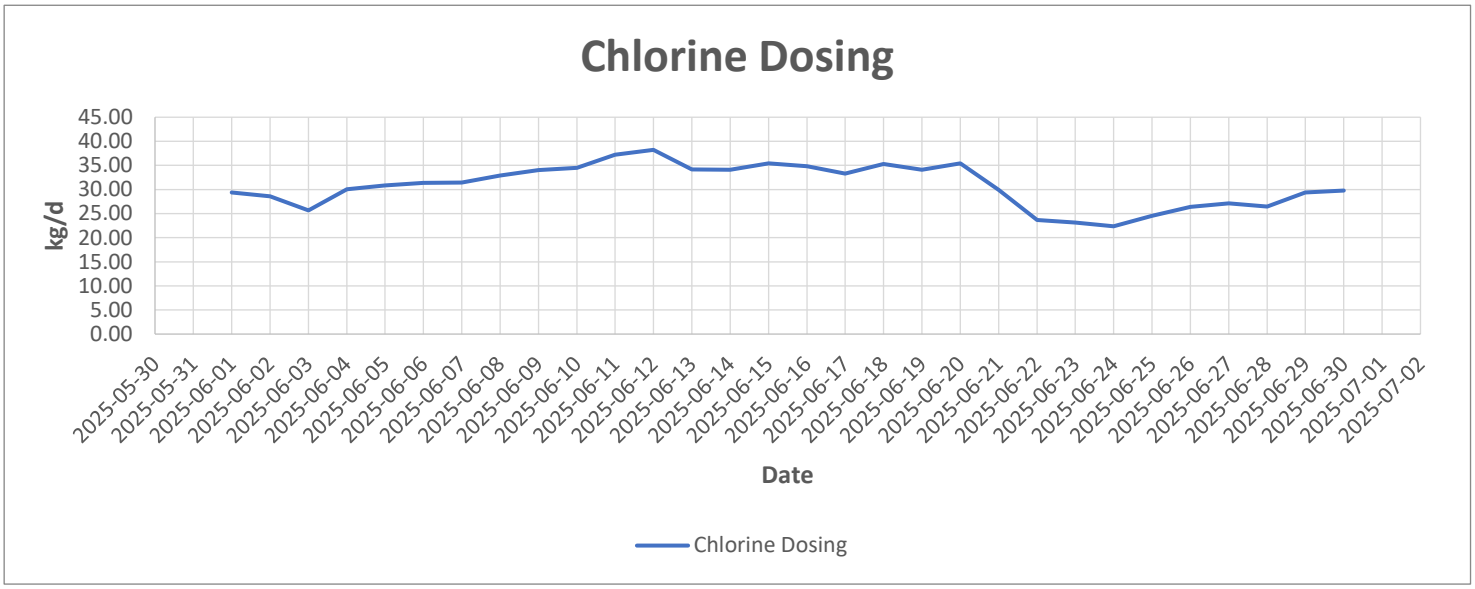
Date	Min	Max	Average
2025-06-01	90.30	91.00	90.75
2025-06-02	90.40	91.10	90.78
2025-06-03	90.30	91.00	90.71
2025-06-04	90.40	90.80	90.62
2025-06-05	89.20	90.90	90.11
2025-06-06	89.30	89.80	89.61
2025-06-07	89.10	89.90	89.50
2025-06-08	89.20	89.90	89.54
2025-06-09	88.90	89.80	89.36
2025-06-10	89.00	89.70	89.38
2025-06-11	89.20	89.80	89.51
2025-06-12	89.50	89.90	89.67
2025-06-13	89.60	90.20	89.85
2025-06-14	89.20	90.30	89.80
2025-06-15	89.10	90.40	89.72
2025-06-16	89.10	90.00	89.58
2025-06-17	89.20	90.20	89.61
2025-06-18	89.10	90.10	89.57
2025-06-19	89.00	90.30	89.55
2025-06-20	89.10	89.80	89.33
2025-06-21	88.90	90.30	89.59
2025-06-22	88.60	89.40	88.96
2025-06-23	88.50	89.60	89.09
2025-06-24	88.50	89.90	89.24
2025-06-25	88.90	90.40	89.58
2025-06-26	90.40	92.90	92.13
2025-06-27	91.60	93.40	92.45
2025-06-28	91.80	92.60	92.18
2025-06-29	91.80	92.70	92.23
2025-06-30	91.20	92.90	91.97

Notes:

Chemical Demand:

Chlorine Used:

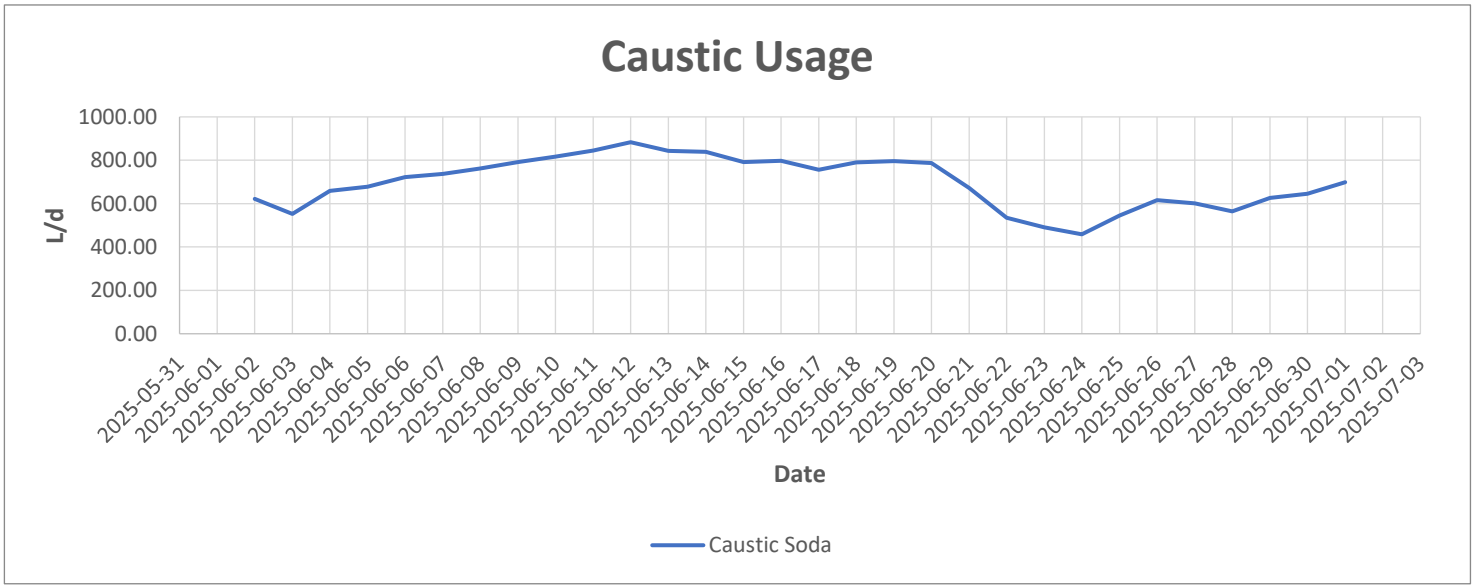
Total for Month
923.59 Kgs



Notes:

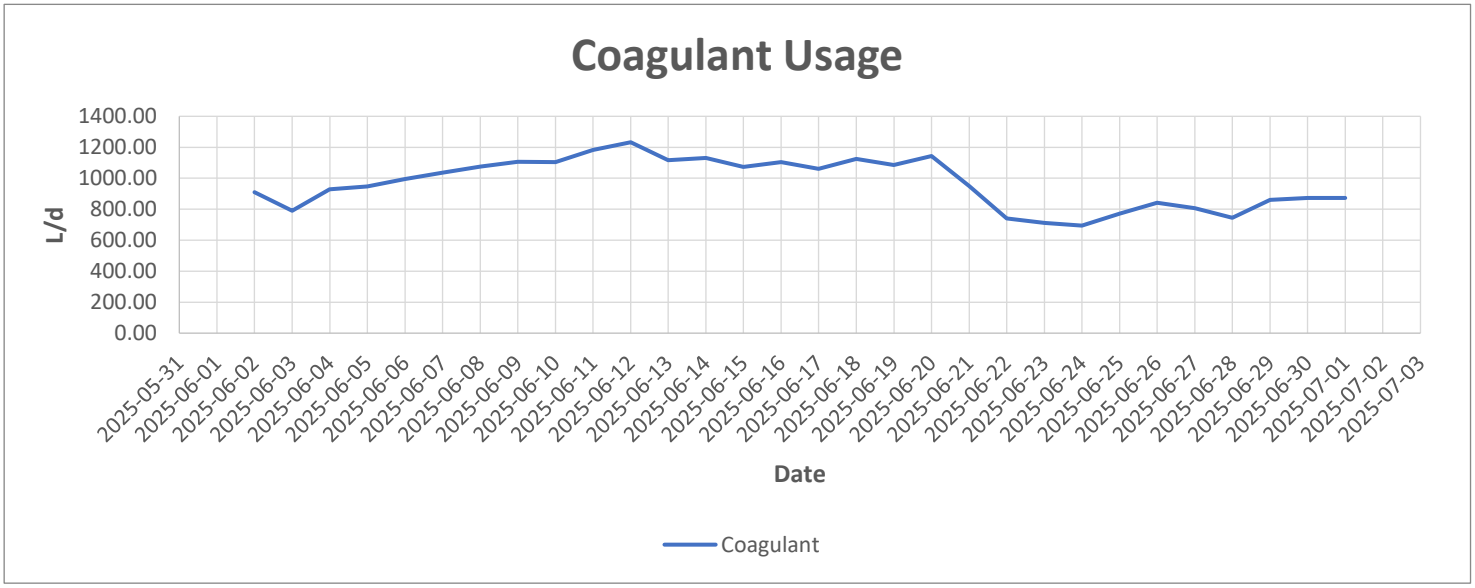
Caustic Soda Used:

Total for Month
20926.68 Litres



Notes:

	Total for Month
Coagulant Used:	29014.55 Litres

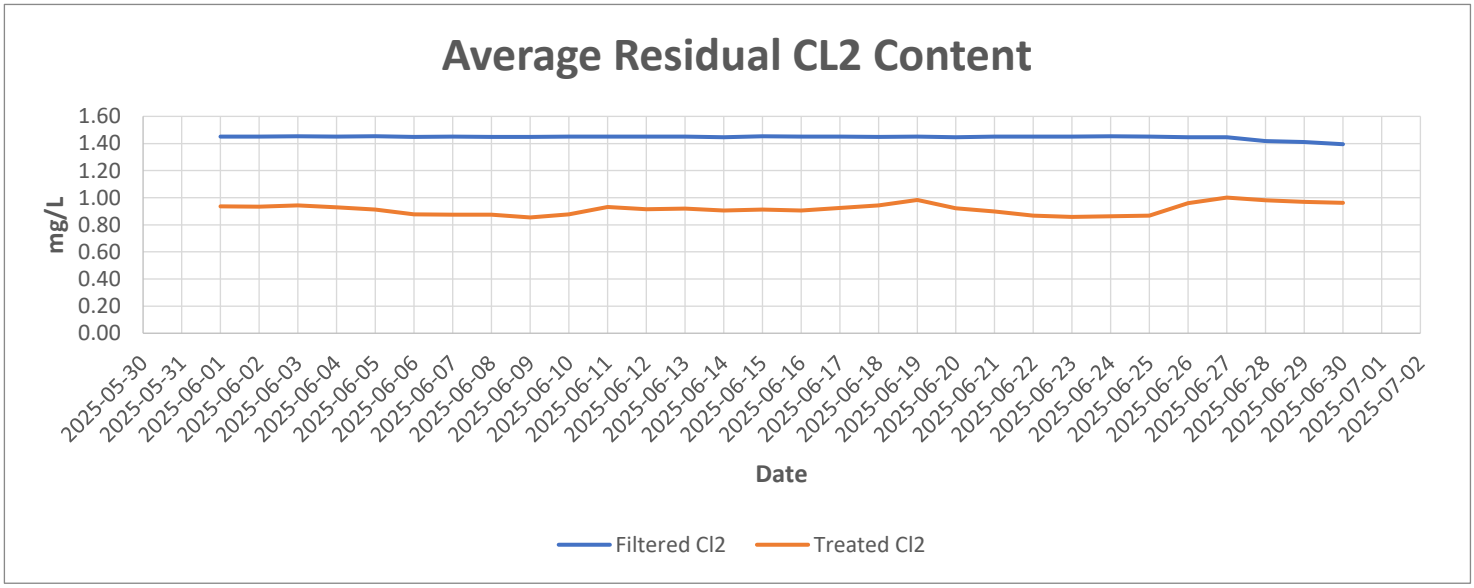


Notes:

	Total for Month
DAF & Residual DAF Neat Polymer	506.71 L
Centrifuge Neat Polymer	883.05 L

Chlorine Dose

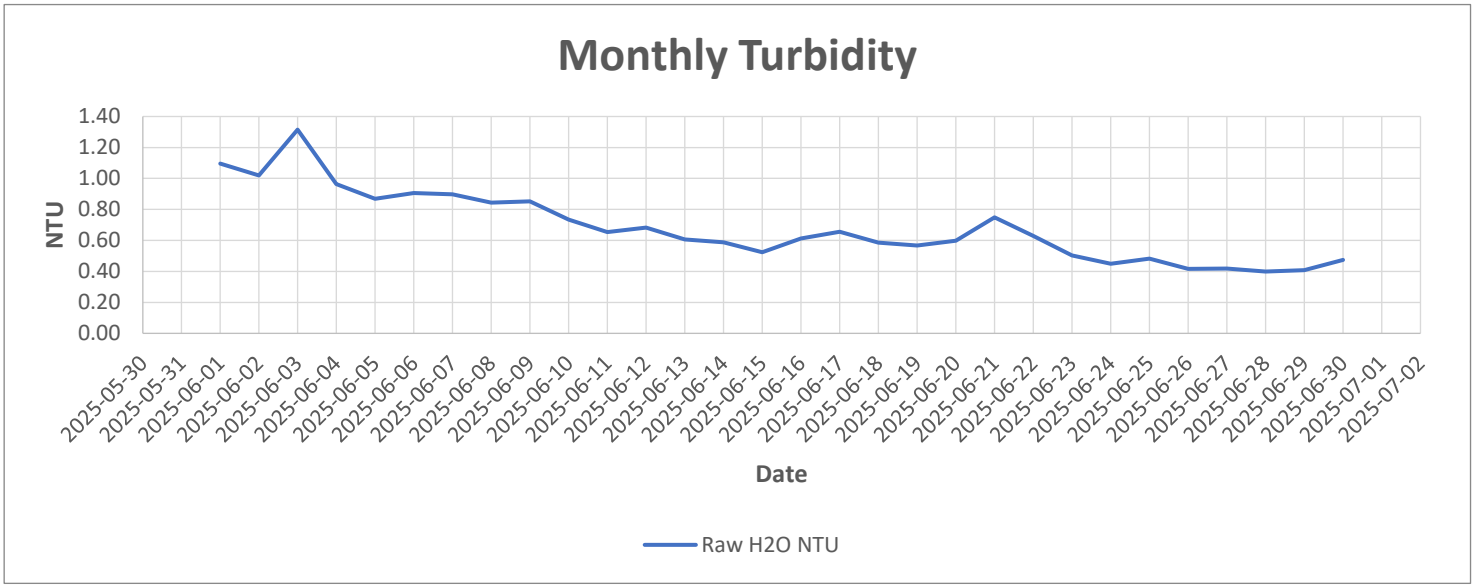
Filtered Water Residual Cl2 Average (mg/L):	1.45 mg/L
Treated Water (Distributed) Cl2 Average (mg/L):	0.92 mg/L



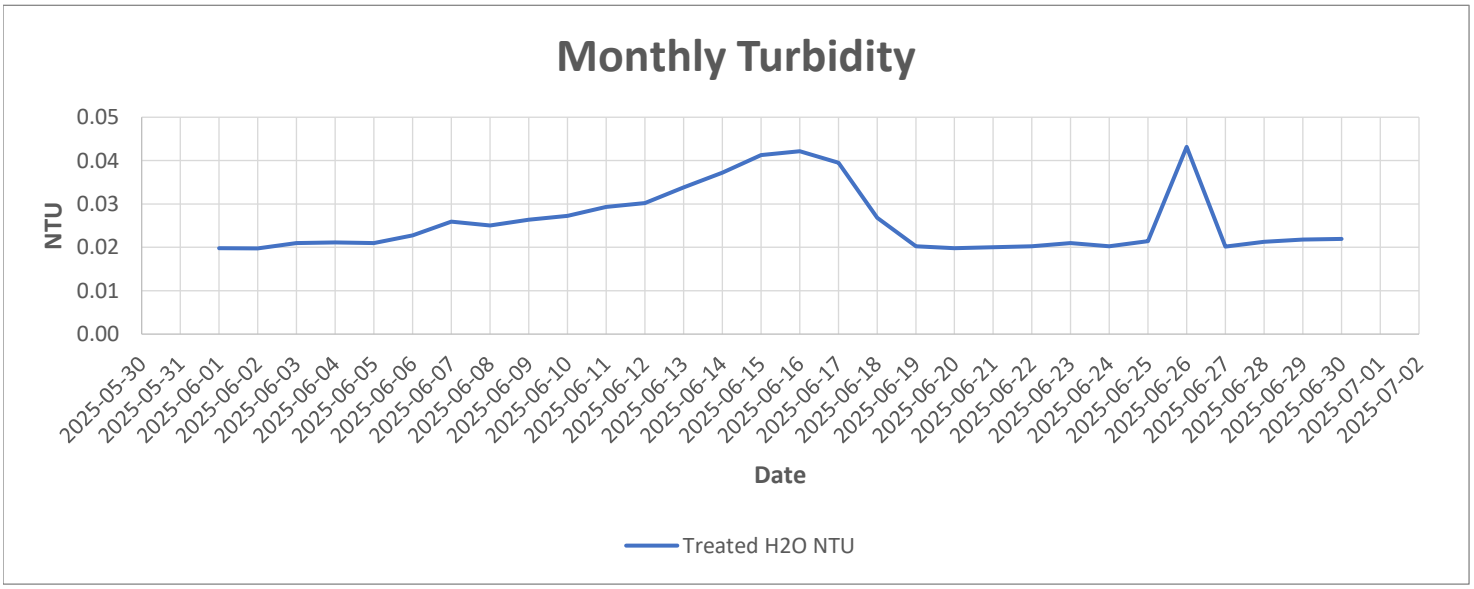
Water Quality Analytics:

Turbidity

Raw Water Monthly Average: 0.68 NTU



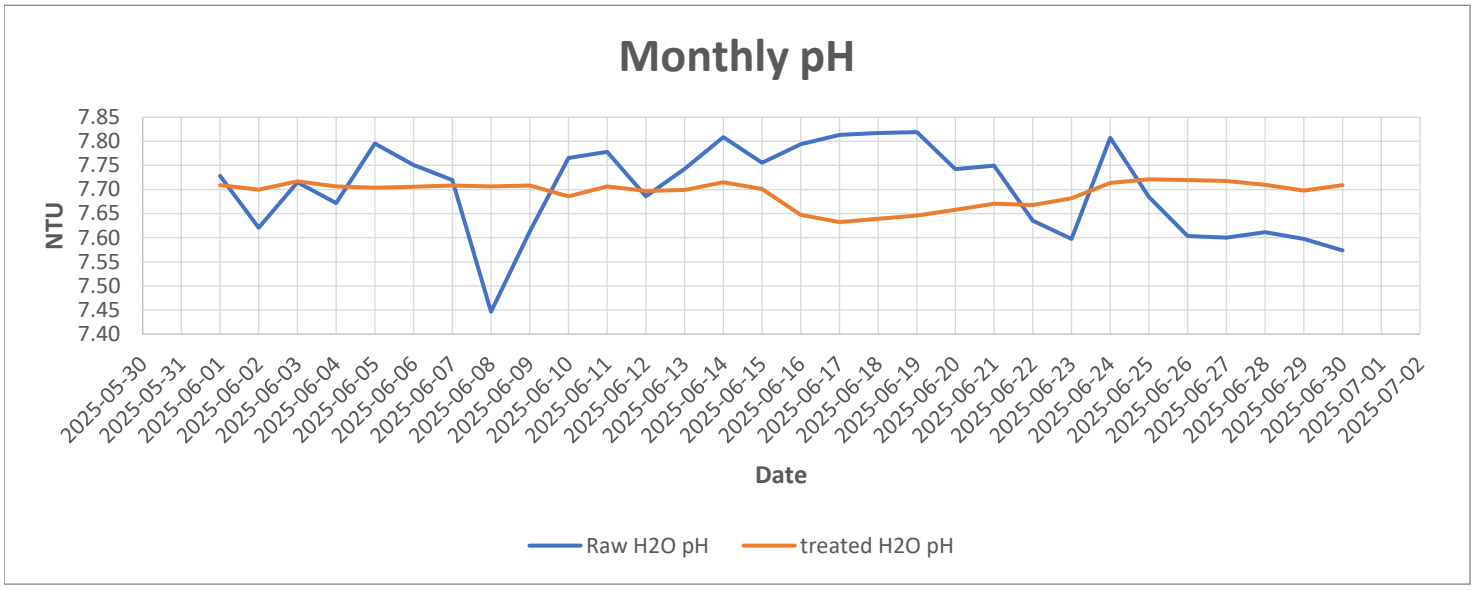
Treated Water Monthly Average: 0.03 NTU



Notes:

pH

Raw Water Monthly Average:	7.70 pH
Treated Water Monthly Average:	7.69 pH



Notes:

Powers Creek WTP Operational Highlights:

June 2nd - 6th - set night time flows
June 3rd - installed flashboards on pond
June 5th - Chemical(AluPAC 4000B) bulk load delivery
June 11th - installed new residual DAF sludge pump
June 11th/12th - flushed & zeroed streaming current
June 13th - Lowered UV dose setpoint from 35 down to 20 mj/cm^2
June 16th - water back on to 2.5" Agricultural connection on intake road line
June 18th - Flushed centrifuge sludge pumps
June 23rd - 26th - 1000 hr service on all six DAFS
June 23rd - Chemical (Caustic) bulk load delivery
June 24th - Opened and started upland lake flows
June 25th - Chemical (AluPAC 4000B) bulk load delivery
June 25th - Chemical (Chlorine tonner) delivery and return of empty tonners
June 26th - Changed raw water tubing

Power Creek Watershed Operational Highlights:

Lamby Lake
Weekly Dam inspections done
June 11th - changed fuel cell
June 24th - Level = 3270 ML

Jackpine Lake
Weekly Dam inspections
June 24th - Level = 1224 ML

Paynter Lake
Weekly Dam inspections
June 10th/11th Dam maintenance (cut down V-notch to provide better flow, cut down 2 trees close to Dam)
June 24th - Level = 473.5 ML

Horseshoe Lake
Weekly Dam inspections
June 16th - Dam maintenence (cleaned out low level outlet as per ECORA)
June 24th - Level = 995.4 ML

Dobbin Lake
Weekly Dam inspections
June 10th/11th - spillway road maintenance (installed gate at road)
June 16th - Cleaned out low level outlet as per ECORA
June 24th - Level = 692 ML opened low level outlet 16 ML/D

Tadpole Lake
Weekly Dam inpsections
June 17th - Fixed potholes on crest of south Dam
June 18th - ditch clean out
June 23rd - Completed Piezometers
June 24th - Opened low level outlet 8.2 ML/D

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

CITY OF
WEST
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Power's Creek Water Service Area – Distribution System Monitoring

June 2025

Water Quality Data Review

- Based on the distribution system sample monitoring data all locations except Glenrosa Reservoir met the free chlorine residual, turbidity and bacteriological parameters for the month.
    - Glenrosa Reservoir Cell #1 had a positive Total Coliform hit, see June 26th note below for further details.
    - 25 samples to CARO for analysis
    - 18 samples analyzed in-house at RVWTP
    - All bacteriological samples except 1 Glenrosa Res Cell #1 sample results indicated <1 CFU/100mL for Total Coliforms and <1 CFU/100mL for E.coli.
- June 18, 2025 – Glenrosa Reservoir PS online FCR analyzer calibration adjustment 0.17mg/L decrease.
- June 20, 2025 – Lateral One PS online FCR and pH analyzer calibration adjustments as follows; FCR 0.11mg/L increase and pH 0.74 decrease.
- June 26, 2025 – Smith Creek Reservoir Cell #3 FCR was low at 0.08mg/L. Reservoir was dosed with a total of 6.6L of high strength hypo sodium chlorite to raise chlorine levels to approximately 0.40mg/L.
- June 26, 2025 – Glenrosa Reservoir Cell #1 had a result of 34 CFU/100mL for Total Coliforms.
    - June 28, 2025 – Glenrosa Res Cell #1, #2 & #3, as well as the Glenrosa Res PS and Webber SS were sampled for bacteriological parameters and analyzed in-house at the RVWTP. All samples results indicated <1 CFU/100mL for Total Coliforms and E.coli. Hypo dosing was increased by 0.5mg/L.
    - June 29, 2025 – Glenrosa Res Cell #1, #2 & #3, as well as the Glenrosa Res PS and Webber SS were sampled for bacteriological parameters and analyzed in-house at the RVWTP. All samples results indicated <1 CFU/100mL for Total Coliforms and E.coli.
    - June 30, 2025 – Glenrosa Res Cell #1, #2 & #3, as well as the Glenrosa Res PS, McIver SS and Webber SS were sampled for bacteriological parameters and analyzed by external lab CARO. All samples results indicated <1 CFU/100mL for Total Coliforms and E.coli.
    - July 2, 2025 – Genrosa Res Cell #1 and #2 FCR profiles were taken. FCR at each depth was >0.20 mg/L.
    - July 3, 2025 – Glenrosa Res Cell #2 & #3, as well as the Glenrosa Res PS and McIver SS were sampled for bacteriological parameters and analyzed by external lab CARO. All samples results indicated <1 CFU/100mL for Total Coliforms and E.coli.
    - Incident Report regarding the exceedance was drafted and submitted to Interior Health Authority for review and comment.

Operational System Improvements/Events

- June 4, 2025 – 3473 Webber Rd curb stop box and rod replaced due to service leak.
- June 6, 2025 – Glenrosa Reservoir (GR) new hypo tank replaced existing tank, FCR after swap 0.61mg/L.

- June 12 & 13, 2025 – GR power outage occurred due to a blown high line fuse, the UPS failed which affected the online analyzer. The initial outage and then the follow up swap to a new UPS caused erroneous analyzer readings both days, the values did not represent the water quality in the water mains at the time.
- June 16, 2025 – Water Treatment Plant irrigation main repair completed on a 2" PVC line running along the treatment plant road. One home was affected by repair 3196 Shetler Rd for 5 hours the home and irrigation service connections were without water.
- June 23, 2025 – Lateral One online analyzer experienced erratic values on SCADA, caused by the PLC backplane faulting. The correct values were displayed on the analyzer in the station just the values translated into SCADA were erratic. SCADA values June 21-23 were removed from the table and graph.
    - June 24, 2025 – Lateral One online analyzer now functioning properly with SCADA after the EI Technician repaired the problem with the PLC backplane.
    - Calibration adjustment 0.0mg/L, no change necessary.

WQ Field and SCADA Data

Sampling Location Table:

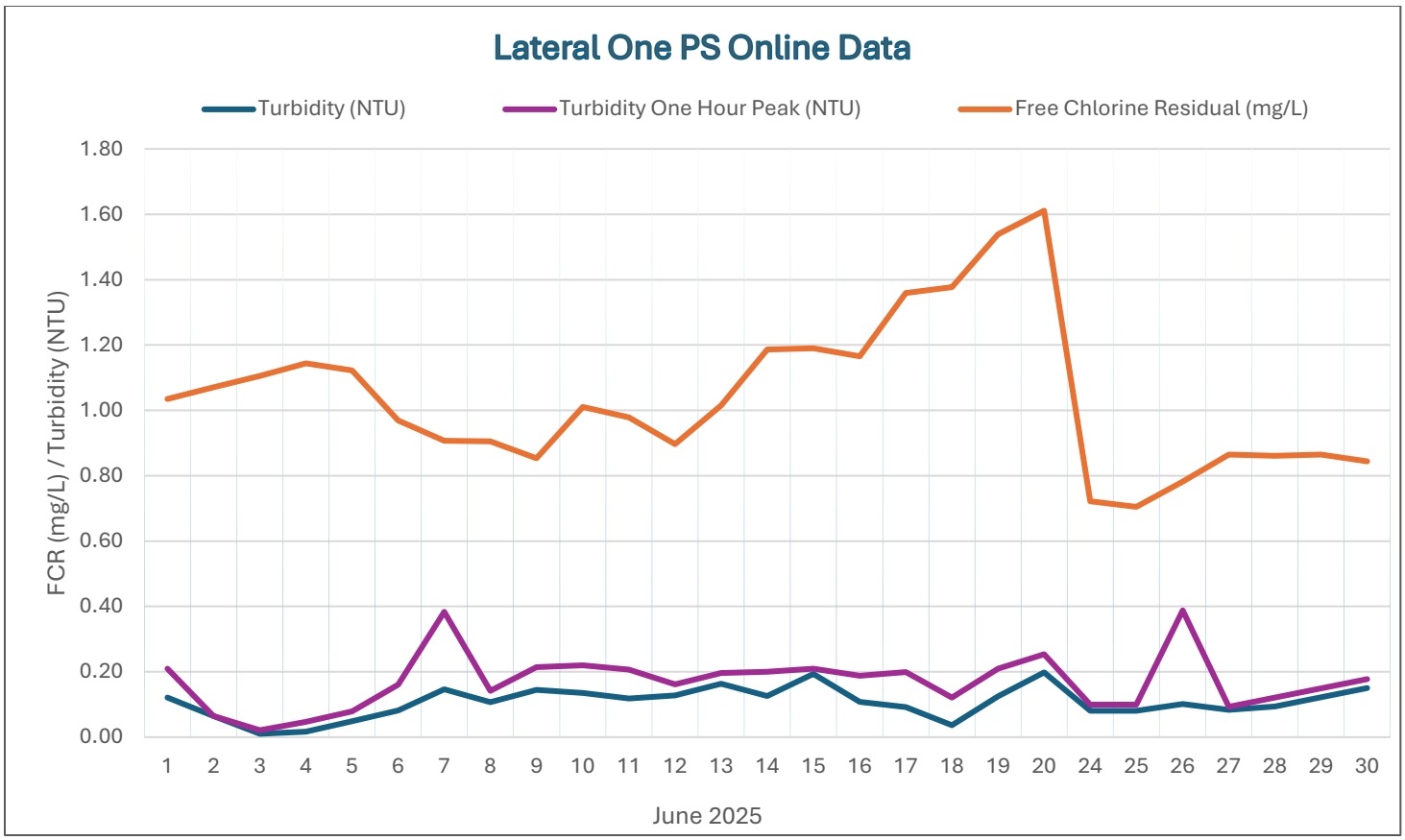
Sample Name	Civic Address	Pressure Zone	WQ Sampling Rationale
Lateral One PS	3188 Shetler Dr	630	1st Customer water quality check.
Glenrosa PS	3149 Coventry Cres	673	Mid system water quality check. Water quality distributed throughout Glenrosa area.
Glenrosa Res	3313 Glenrosa Rd	673	Mid system water 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.
McIver SS	3036 McIver 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

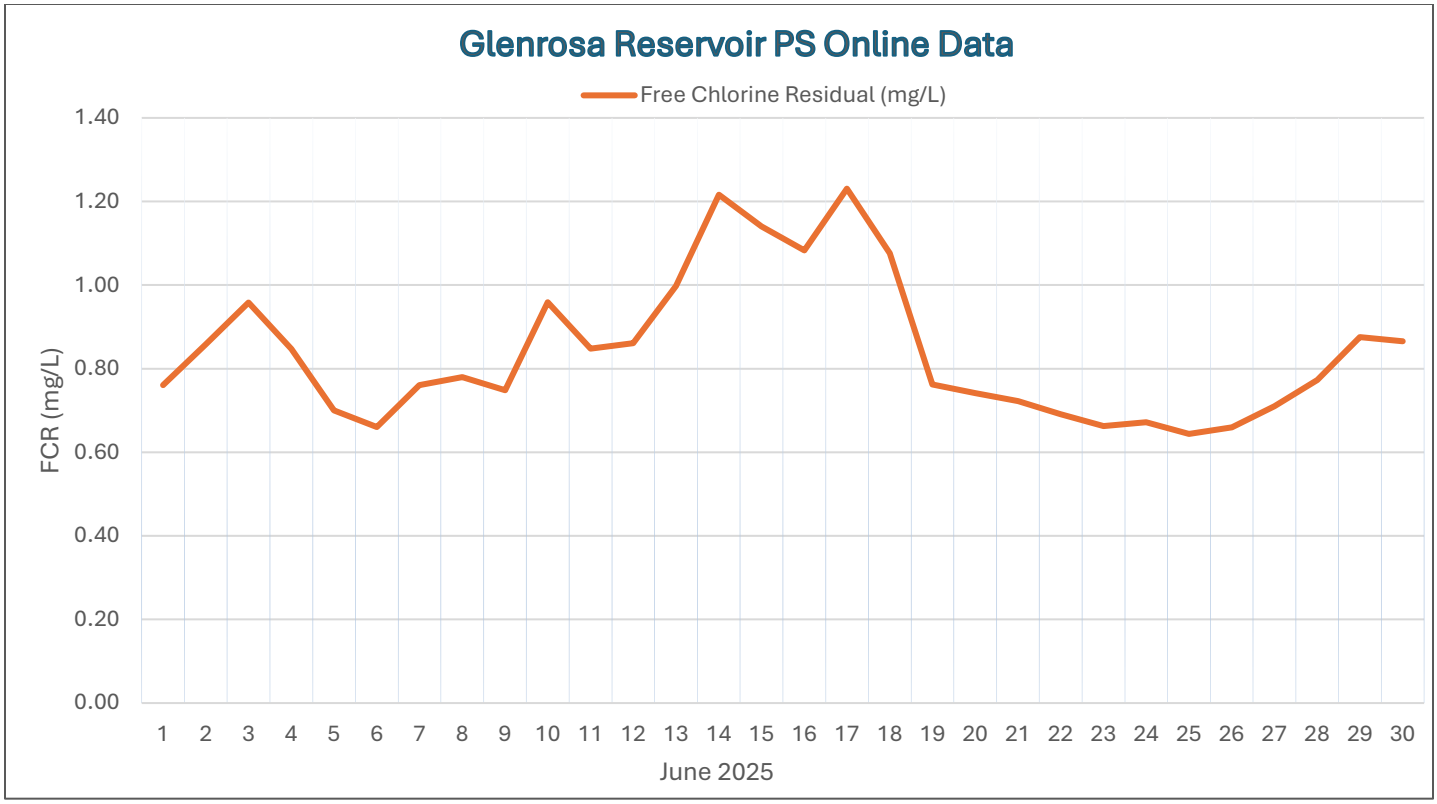
Lateral One PS Online Data							
Date	pH	Turbidity	Turbidity (Peak 1 Hr)	Temp	FCR		
	Avg (pH)	Avg (NTU)	Max Based On 1 Hr Avg	Avg (ºC)	Min (mg/L)	Max (mg/L)	Avg (mg/L)
June 2025							
1	8.13	0.12	0.21	16.06	0.94	1.20	1.03
2	8.32	0.07	0.07	15.24	0.93	1.17	1.07
3	8.23	0.01	0.02	15.37	1.01	1.16	1.11
4	8.28	0.02	0.05	15.51	1.10	1.19	1.14
5	8.15	0.05	0.08	15.22	1.06	1.17	1.12
6	8.07	0.08	0.16	18.51	0.76	1.13	0.97
7	8.37	0.15	0.38	22.20	0.75	1.19	0.91
8	8.41	0.11	0.14	22.47	0.78	1.08	0.91
9	8.30	0.14	0.21	23.56	0.71	1.01	0.85
10	8.46	0.14	0.22	21.09	0.81	1.11	1.01
11	8.70	0.12	0.21	24.01	0.74	1.15	0.98
12	8.91	0.13	0.16	25.98	0.74	1.10	0.90
13	9.64	0.16	0.20	26.74	0.71	1.24	1.01
14	10.40	0.13	0.20	26.35	0.97	1.52	1.19
15	10.86	0.19	0.21	28.76	0.96	1.45	1.19
16	10.23	0.11	0.19	26.97	0.93	1.42	1.17
17	10.16	0.09	0.20	24.64	0.95	1.58	1.36
18	10.03	0.04	0.12	22.97	1.24	1.55	1.38
19	10.97	0.12	0.21	25.67	1.42	1.61	1.54
20	11.33	0.20	0.25	26.97	1.21	2.16	1.61
24	5.33	0.08	0.10	8.70	0.00	0.93	0.72
25	7.18	0.08	0.10	14.70	0.56	0.78	0.70
26	7.52	0.10	0.39	17.10	0.55	0.90	0.78
27	7.17	0.08	0.09	14.34	0.74	0.98	0.86
28	7.17	0.09	0.12	13.91	0.73	0.96	0.86
29	7.19	0.12	0.15	14.07	0.74	0.93	0.87
30	7.21	0.15	0.18	15.36	0.72	0.92	0.84
Average	8.76	0.16		21.89	0.90	4.09	1.59
Min	5.33	0.01		8.70	0.00	0.78	0.70
Max	11.98	0.78	9.61	49.35	2.60	30.00	8.79



Lateral One PS WQ Data						
Date	**Turbidity**		**Water Temp**	**FCR**		**pH**
	Grab (NTU)	Online (NTU)	Grab (°C)	Grab (mg/L)	Online (mg/L)	
03-Jun-25	0.12	0.08	12.4	0.89	0.94	7.78
10-Jun-25	0.18	0.08	15.8	0.85	0.83	7.74
17-Jun-25	0.12	0.08	14.8	0.75	0.92	7.51
24-Jun-25	0.21	0.08	14.2	0.73	0.66	7.64
# of Samples	4	4	4	4	4	4
Average	0.16	0.08	14.30	0.81	0.84	7.67
Range	0.12-0.21	0.08-0.08	12.4-15.8	0.73-0.89	0.66-0.94	7.51-7.78

Glenrosa PS & Reservoir

Glenrosa Pump Station & Reservoir Online Data							
Date	Flow Total From PS	Peak Flow From PS	Reservoir pH	Reservoir Temp	FCR		
	(ML)	Max (ML/Day)	Avg (pH)	Avg (ºC)	Min (mg/L)	Max (mg/L)	Avg (mg/L)
June 2025							
1	3.36	4.41	8.05	11.19	0.55	1.46	0.76
2	3.12	4.51	8.06	10.72	0.73	1.53	0.86
3	3.63	8.39	8.07	10.73	0.78	5.73	0.96
4	3.39	5.06	8.06	11.02	0.63	2.55	0.85
5	3.60	5.05	8.04	11.26	0.50	0.92	0.70
6	3.41	5.05	8.04	11.93	0.43	1.81	0.66
7	3.72	5.03	8.05	12.21	0.47	9.68	0.76
8	4.11	5.05	8.06	12.47	0.59	2.59	0.78
9	3.66	5.04	8.05	13.06	0.61	1.88	0.75
10	4.06	8.77	8.07	13.39	0.61	8.28	0.96
11	3.90	5.04	8.07	13.65	0.64	12.74	0.85
12	3.38	8.93	8.07	13.79	0.69	2.59	0.86
13	3.68	8.93	8.07	13.91	0.74	2.66	1.00
14	3.34	8.93	8.10	13.65	0.92	6.41	1.22
15	3.66	8.96	8.09	13.62	0.93	2.34	1.14
16	3.32	5.03	8.07	13.72	0.84	2.17	1.08
17	3.82	8.95	8.05	13.74	0.91	5.80	1.23
18	3.69	8.92	8.06	13.81	0.63	14.64	1.08
19	3.47	5.02	8.05	13.41	0.63	1.43	0.76
20	3.18	5.04	8.05	13.36	0.55	2.79	0.74
21	2.82	5.05	8.06	13.05	0.59	1.50	0.72
22	2.91	5.00	8.04	12.54	0.58	1.27	0.69
23	2.61	5.00	8.07	12.65	0.56	1.47	0.66
24	3.00	5.03	8.07	12.79	0.50	1.54	0.67
25	3.14	5.01	8.07	13.12	0.55	1.39	0.64
26	2.88	5.00	8.08	13.42	0.52	1.46	0.66
27	2.94	4.99	8.08	13.33	0.58	1.57	0.71
28	3.38	4.98	8.08	13.20	0.62	1.59	0.77
29	3.86	8.69	8.09	13.21	0.78	1.66	0.88
30	3.50	4.99	8.08	13.63	0.69	1.62	0.87
Total	99						
Average	3.42	6.13	8.07	12.85	0.65	3.50	0.84
Min	2.61	4.41	8.04	10.72	0.43	0.92	0.64
Max	4.11	8.96	8.10	13.91	0.93	14.64	1.23



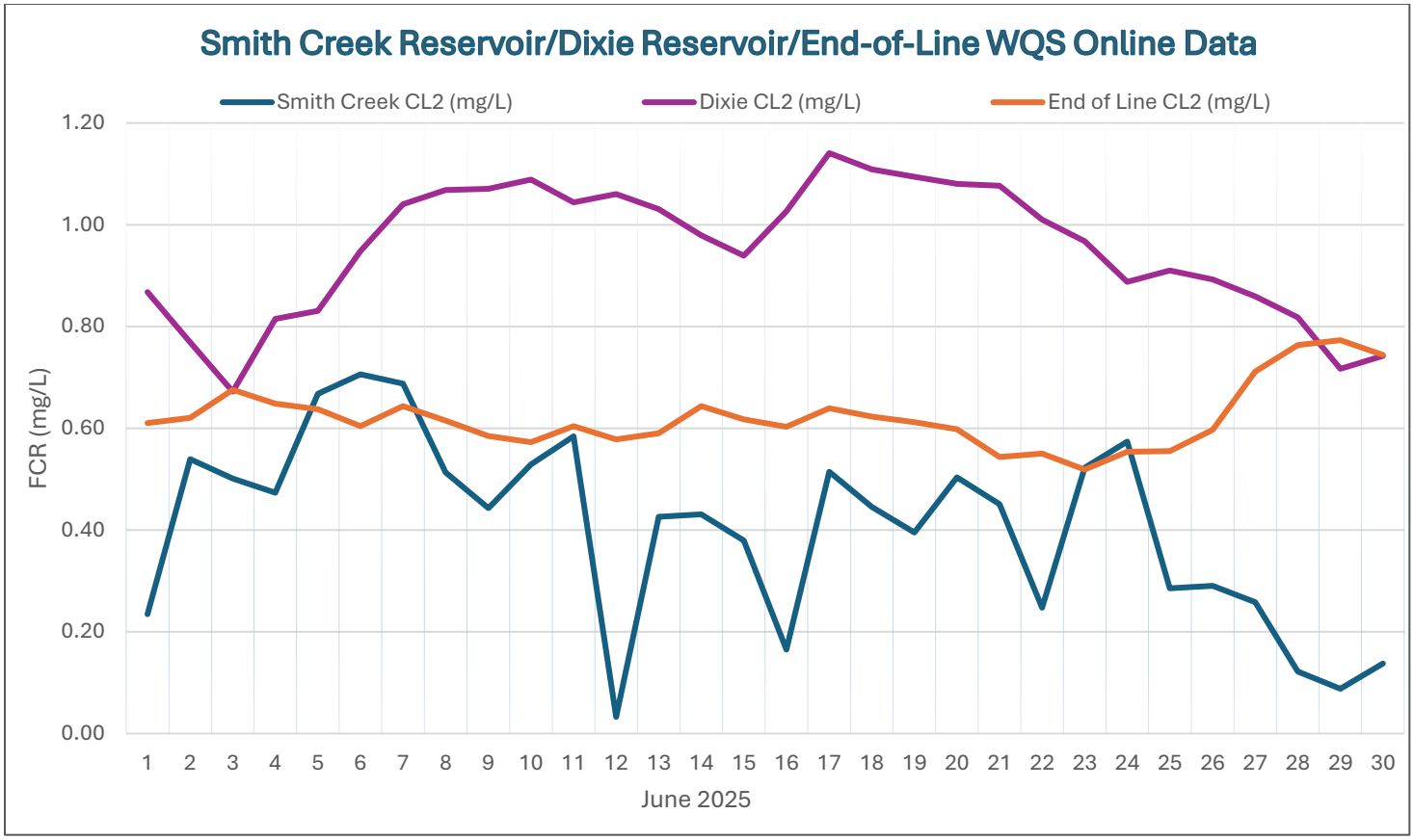
Glenrosa Reservoir Building PS WQ Data					
Date	**Turbidity**	**Temp**	**FCR**		**pH**
	Grab (NTU)	Grab (°C)	Grab (mg/L)	Online (mg/L)	
03-Apr-25	0.08	5.3	0.45	0.29	7.49
01-May-25	0.16	6.6	0.39	0.3	7.27
29-May-25	0.09	12.3	0.8	0.89	7.07
26-Jun-25	0.24	13.3	0.68	0.56	7.65
Average	0.11	8.07	0.55	0.49	7.28
Range	0.08-0.16	5.3-12.3	0.39-0.8	0.29-0.89	7.07-7.49

Glenrosa Reservoir Cell WQ Data					
Date	**Cell #**	**Turbidity**	**Temp**	**FCR**	**pH**
		Grab (NTU)	Grab (°C)	Grab (mg/L)	
03-Apr-25	1	0.14	5.2	0.28	7.52
01-May-25	3	0.16	8	0.4	7.15
29-May-25	1	0.09	12.5	0.44	7.24
26-Jun-25	1	0.19	16.6	0.25	7.77
Average		0.13	8.57	0.37	7.30
Range		0.09-0.16	5.2-12.5	0.28-0.44	7.15-7.52

Bacteriological Results	26-Jun-25		28-Jun-25		29-Jun-25		30-Jun-25		03-Jul-25	
Sample Location	Total Coliforms (CFU/100 mL)	E.coli (CFU/100 mL)	Total Coliforms (CFU/100 mL)	E.coli (CFU/100 mL)	Total Coliforms (CFU/100 mL)	E.coli (CFU/100 mL)	Total Coliforms (CFU/100 mL)	E.coli (CFU/100 mL)	Total Coliforms (CFU/100 mL)	E.coli (CFU/100 mL)
GLENROSA RES PS	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
GLENROSA RES CELL #1	34	<1	<1	<1	<1	<1	<1	<1		
GLENROSA RES CELL #2		<1	<1	<1	<1	<1	<1	<1	<1	<1
GLENROSA RES CELL #3		<1	<1	<1	<1	<1	<1	<1	<1	<1
WEBBER SS		<1	<1	<1	<1	<1	<1	<1		
MCIVER SS							<1	<1	<1	<1
		In-House Analysis						CARO Analysis		

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

Date	Smith Creek Reservoir 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)
June 2025									
1	0.00	0.78	0.23	0.83	0.92	0.87	0.58	0.67	0.61
2	0.04	0.67	0.54	0.70	0.83	0.77	0.58	0.66	0.62
3	0.06	0.55	0.50	0.62	0.72	0.67	0.64	0.74	0.68
4	0.03	0.75	0.47	0.63	0.90	0.81	0.58	0.72	0.65
5	0.52	0.72	0.67	0.78	0.87	0.83	0.60	0.68	0.64
6	0.00	5.11	0.71	0.67	1.07	0.95	0.55	0.68	0.60
7	0.05	0.91	0.69	0.98	1.12	1.04	0.57	0.79	0.64
8	0.01	0.86	0.51	1.02	1.11	1.07	0.58	0.72	0.62
9	0.01	0.78	0.44	1.03	1.11	1.07	0.55	0.65	0.58
10	0.01	0.87	0.53	1.03	1.13	1.09	0.53	0.62	0.57
11	0.01	0.86	0.58	0.80	1.08	1.04	0.56	0.65	0.60
12	0.01	0.18	0.03	0.95	1.10	1.06	0.54	0.63	0.58
13	0.01	0.74	0.43	0.99	1.06	1.03	0.55	0.63	0.59
14	0.01	0.74	0.43	0.92	1.03	0.98	0.58	0.71	0.64
15	0.01	0.70	0.38	0.88	0.97	0.94	0.57	0.69	0.62
16	0.01	0.76	0.17	0.84	1.17	1.03	0.56	0.63	0.60
17	0.08	0.81	0.51	1.09	1.17	1.14	0.58	0.76	0.64
18	0.07	0.72	0.45	1.05	1.16	1.11	0.56	0.69	0.62
19	0.01	0.75	0.40	1.06	1.12	1.09	0.59	0.67	0.61
20	0.04	0.77	0.50	1.02	1.14	1.08	0.53	0.67	0.60
21	0.04	0.70	0.45	1.02	1.12	1.08	0.50	0.61	0.54
22	0.00	0.72	0.25	0.97	1.05	1.01	0.47	0.62	0.55
23	0.01	0.65	0.52	0.93	1.00	0.97	0.47	0.55	0.52
24	0.04	0.61	0.57	0.81	0.94	0.89	0.49	0.61	0.55
25	0.01	0.61	0.29	0.83	0.94	0.91	0.48	0.62	0.55
26	0.00	0.57	0.29	0.85	0.92	0.89	0.56	0.70	0.60
27	0.02	0.53	0.26	0.81	0.89	0.86	0.66	0.78	0.71
28	0.10	0.14	0.12	0.76	0.86	0.82	0.73	0.81	0.76
29	0.07	0.10	0.09	0.67	0.77	0.72	0.72	0.90	0.77
30	0.07	0.44	0.14	0.65	0.83	0.74	0.70	0.82	0.74
Average	0.04	0.80	0.40	0.87	1.00	0.95	0.57	0.69	0.62
Min	0.00	0.10	0.03	0.62	0.72	0.67	0.47	0.55	0.52
Max	0.52	5.11	0.71	1.09	1.17	1.14	0.73	0.90	0.77



End-of-Line WQS WQ Data					
Date	**Turbidity**	**Temp**	**FCR**		**pH**
	Grab (NTU)	Grab (°C)	Grab (mg/L)	Online (mg/L)	
03-Jun-25	0.48	13.1	0.63	0.68	7.7
10-Jun-25	0.16	15.2	0.52	0.54	7.73
17-Jun-25	0.11	20.1	0.55	0.63	7.67
24-Jun-25	0.19	15.5	0.59	0.58	7.5
# of Samples	4	4	4	4	4
Average	0.24	15.98	0.57	0.61	7.65
Range	0.11-0.48	13.1-20.1	0.52-0.63	0.54-0.68	7.5-7.73

WQ Field Data

McIver SS

McIver SS WQ Data				
Date	Turbidity	Temp	FCR	pH
	Grab (NTU)	Grab (°C)	Grab (mg/L)	
03-Jun-25	0.22	12.6	0.68	7.83
10-Jun-25	0.21	14.1	0.48	7.76
17-Jun-25	0.21	14.8	0.56	7.62
24-Jun-25	0.18	15.4	0.47	7.59
# of Samples	4	4	4	4
Average	0.21	14.23	0.55	7.70
Range	0.18-0.22	12.60-15.40	0.47-0.68	7.59-7.83

Bulk Water Station (Stn)

Bulk Water Stn WQ Data				
Date	Turbidity	Temp	FCR	pH
	Grab (NTU)	Grab (°C)	Grab (mg/L)	
03-Jun-25	0.53	12.5	0.71	7.71
10-Jun-25	0.41	15.8	0.52	7.7
17-Jun-25	0.2	17.2	0.37	7.59
24-Jun-25	0.22	16.2	0.53	7.57
# of Samples	4	4	4	4
Average	0.34	15.43	0.53	7.64
Range	0.20-0.53	12.50-17.20	0.37-0.71	7.57-7.71