

**CITY OF WEST KELOWNA**

# Monthly Water Quality Report



**Powers Creek Water Service Area**

**February 2026**

# WATER SUPPLY AND TREATMENT





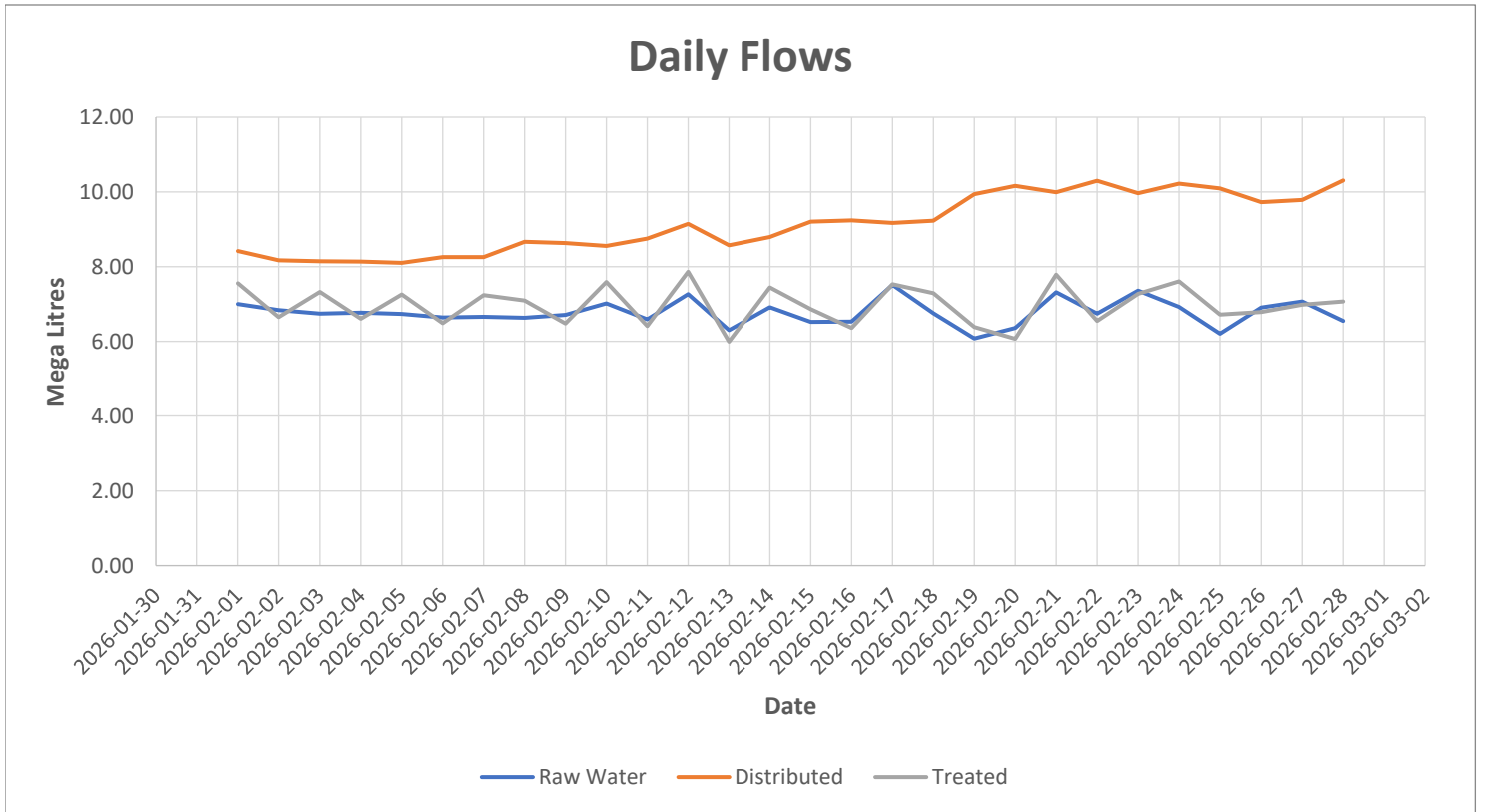
# Powers Creek Water Treatment Plant Monthly Water Quality Summary

2026-03-09

**February, 2026**

## Flow Demand:

	Total for Month
Raw Processed Water:	189.69 ML
Treated Water :	195.30 ML
Distributed Water :	255.96 ML
Backwash Water :	7.88 ML



## Notes:

## Raw Water Specifications:

Date	Raw Turbidity (NTU)			Raw pH		
	Min	Max	Average	Min	Max	Average
2026-02-01	1.50	4.78	1.92	7.66	7.72	7.69
2026-02-02	1.58	5.59	1.87	7.69	7.78	7.74
2026-02-03	1.27	7.15	1.69	7.70	7.77	7.75
2026-02-04	1.30	5.52	1.74	7.38	7.76	7.59
2026-02-05	1.45	4.54	1.66	7.44	7.63	7.52
2026-02-06	0.96	4.36	1.48	7.51	7.70	7.60
2026-02-07	1.39	7.32	2.00	7.64	7.83	7.70
2026-02-08	1.23	3.85	1.74	7.74	7.84	7.79
2026-02-09	1.21	5.79	1.54	7.72	7.81	7.75
2026-02-10	1.06	3.07	1.48	7.68	7.80	7.75
2026-02-11	1.31	6.35	1.86	7.66	7.79	7.74
2026-02-12	0.86	2.35	1.27	7.63	7.73	7.68
2026-02-13	0.99	2.99	1.18	7.65	7.76	7.71
2026-02-14	1.11	2.96	1.32	7.68	7.78	7.72
2026-02-15	1.15	4.61	1.51	7.64	7.74	7.69
2026-02-16	0.85	4.07	1.61	7.63	7.73	7.68
2026-02-17	0.67	2.13	0.89	7.68	7.79	7.74
2026-02-18	0.98	4.32	1.48	7.62	7.80	7.73
2026-02-19	1.38	5.25	1.91	7.65	7.78	7.73
2026-02-20	1.33	4.20	1.67	7.48	7.75	7.69
2026-02-21	1.46	7.01	2.00	7.67	7.77	7.72
2026-02-22	1.02	3.11	1.28	7.66	7.76	7.71
2026-02-23	0.98	3.15	1.26	7.48	7.78	7.67
2026-02-24	1.39	5.00	1.63	7.48	7.80	7.67
2026-02-25	0.93	3.70	1.25	7.64	7.88	7.76
2026-02-26	1.07	3.64	1.36	7.69	7.88	7.80
2026-02-27	1.01	4.76	1.25	7.77	7.87	7.82
2026-02-28	1.35	3.56	1.64	7.79	7.88	7.83

Notes:

**Raw Water Specifications (Continued):**

Date	Raw Temp (°C)			Raw DOC (mg/L)		
	Min	Max	Average	Min	Max	Average
2026-02-01	2.27	2.56	2.40	6.98	7.30	7.17
2026-02-02	2.54	2.89	2.68	7.16	7.43	7.27
2026-02-03	2.86	3.36	3.05	7.19	7.40	7.29
2026-02-04	3.02	3.39	3.25	7.14	7.30	7.22
2026-02-05	3.19	3.48	3.27	7.17	7.65	7.36
2026-02-06	3.13	3.50	3.28	7.52	7.85	7.71
2026-02-07	3.00	4.08	3.10	7.71	7.96	7.82
2026-02-08	3.20	3.48	3.33	7.81	8.07	7.92
2026-02-09	2.51	3.20	2.71	7.82	8.12	7.91
2026-02-10	2.54	3.51	2.89	7.77	8.00	7.87
2026-02-11	2.77	4.03	3.52	7.73	7.97	7.82
2026-02-12	2.37	2.88	2.59	7.66	7.87	7.74
2026-02-13	2.78	3.40	3.01	7.58	7.85	7.71
2026-02-14	3.38	4.11	3.73	7.55	7.80	7.70
2026-02-15	2.40	3.76	3.04	7.54	7.79	7.69
2026-02-16	2.05	2.42	2.20	7.50	7.78	7.63
2026-02-17	1.88	2.74	2.25	7.35	96.13	7.58
2026-02-18	1.24	2.49	1.86	7.37	7.75	7.52
2026-02-19	1.03	1.27	1.11	7.41	8.03	7.69
2026-02-20	0.82	1.11	0.99	7.99	8.47	8.15
2026-02-21	0.84	1.02	0.93	7.76	8.38	8.17
2026-02-22	0.83	1.01	0.92	7.13	7.76	7.43
2026-02-23	0.75	2.70	0.90	6.77	8.98	6.93
2026-02-24	0.79	1.16	0.96	6.69	6.81	6.74
2026-02-25	1.05	1.47	1.24	6.65	6.89	6.76
2026-02-26	1.46	2.16	1.76	6.55	6.79	6.67
2026-02-27	2.04	2.59	2.25	6.43	6.64	6.51
2026-02-28	2.50	3.98	3.19	6.40	6.65	6.54

**Notes:**

## Raw Water Specifications (Continued):

Date	Raw Cond ( $\mu\text{S}/\text{cm}$ )			Streaming Current		
	Min	Max	Average	Min	Max	Average
2026-02-01	90.71	93.29	91.78	-10.22	11.59	-0.33
2026-02-02	89.61	91.76	90.82	-10.13	14.50	0.74
2026-02-03	90.10	92.61	90.91	-11.44	27.40	1.14
2026-02-04	90.45	92.42	91.41	-17.30	17.43	-0.66
2026-02-05	89.42	92.25	91.16	-12.15	10.16	-0.61
2026-02-06	89.26	91.80	89.97	-13.30	16.55	-0.37
2026-02-07	88.88	90.58	90.02	-11.39	9.47	-0.79
2026-02-08	88.84	90.99	89.63	-11.32	9.42	-1.08
2026-02-09	89.60	91.28	90.09	-13.25	13.64	0.30
2026-02-10	87.98	92.38	90.06	-14.23	67.72	0.25
2026-02-11	89.26	91.10	90.36	-10.08	18.51	1.03
2026-02-12	89.14	92.70	91.01	-12.20	12.43	2.45
2026-02-13	89.24	93.11	91.04	-14.11	14.50	0.45
2026-02-14	89.33	93.50	90.71	-16.11	12.36	-3.27
2026-02-15	87.99	91.09	89.76	-12.11	12.24	-0.10
2026-02-16	82.81	87.51	86.13	-13.32	14.31	2.20
2026-02-17	-0.03	93.16	88.85	-11.34	21.42	2.68
2026-02-18	91.12	94.49	92.15	-13.25	15.65	3.14
2026-02-19	97.20	100.96	99.02	-16.02	11.28	-2.06
2026-02-20	101.53	104.77	103.11	-15.37	10.23	-5.02
2026-02-21	97.45	104.15	101.41	-9.37	21.32	1.27
2026-02-22	93.96	97.04	95.83	1.01	33.12	14.10
2026-02-23	0.09	94.00	92.85	11.40	45.23	21.82
2026-02-24	92.27	94.31	92.91	9.26	34.05	22.93
2026-02-25	87.15	96.37	95.12	10.23	30.33	18.50
2026-02-26	91.28	95.95	94.14	-60.89	35.24	18.08
2026-02-27	91.24	95.62	93.27	-6.03	31.26	11.02
2026-02-28	91.97	96.67	93.55	-7.22	15.69	2.42

### Notes:

Feb 26th - low value due to flushing streaming current

**Raw Water Specifications (Continued):**

Date	Coagulated pH			Coagulated Temp (°C)		
	Min	Max	Average	Min	Max	Average
2026-02-01	7.00	7.03	7.02	3.45	3.81	3.63
2026-02-02	6.96	7.04	7.00	3.37	3.75	3.56
2026-02-03	7.00	7.07	7.03	3.88	4.70	4.28
2026-02-04	6.96	7.06	7.01	4.14	5.10	4.49
2026-02-05	6.97	7.09	7.01	4.26	4.51	4.42
2026-02-06	6.96	7.03	7.00	4.32	4.63	4.42
2026-02-07	6.99	7.03	7.01	4.35	4.72	4.50
2026-02-08	6.98	7.01	6.99	4.67	5.05	4.87
2026-02-09	6.90	7.02	6.97	2.92	9.04	3.81
2026-02-10	6.97	7.02	6.99	3.12	4.21	3.64
2026-02-11	6.97	7.01	6.99	3.90	4.20	4.00
2026-02-12	6.96	7.03	6.99	3.49	4.15	3.83
2026-02-13	6.98	7.01	6.99	3.17	9.96	3.88
2026-02-14	6.96	6.99	6.97	3.68	4.05	3.86
2026-02-15	6.97	7.01	6.99	2.85	3.75	3.20
2026-02-16	7.00	7.03	7.01	2.55	2.70	2.63
2026-02-17	7.00	7.02	7.01	2.34	4.48	2.66
2026-02-18	5.99	7.18	7.01	1.92	11.79	2.29
2026-02-19	7.01	7.10	7.07	1.88	2.08	1.97
2026-02-20	7.05	7.11	7.08	1.89	2.06	1.97
2026-02-21	7.01	7.07	7.04	1.86	2.36	2.03
2026-02-22	7.02	7.05	7.04	1.84	2.39	2.13
2026-02-23	6.99	7.13	7.03	0.95	3.68	1.59
2026-02-24	7.00	7.07	7.04	1.10	1.78	1.46
2026-02-25	6.97	7.17	7.02	1.18	1.78	1.48
2026-02-26	6.99	7.12	7.04	1.72	2.79	2.25
2026-02-27	6.99	7.05	7.02	2.50	5.46	2.73
2026-02-28	6.98	7.03	7.00	2.42	2.96	2.65

**Notes:**

**Train 1 Filter Turbidity (NTU):**

Date	Filter 1			Filter 2			Filter 3		
	Min	Max	Average	Min	Max	Average	Min	Max	Average
2026-02-01	0.02	0.06	0.02	0.04	0.04	0.04	0.02	0.02	0.02
2026-02-02	0.02	0.04	0.03	0.02	0.05	0.04	0.02	0.03	0.03
2026-02-03	0.03	0.03	0.03	0.02	0.03	0.02	0.03	0.03	0.03
2026-02-04	0.04	0.05	0.04	0.02	0.07	0.03	0.01	0.04	0.02
2026-02-05	0.04	0.05	0.05	0.02	0.03	0.02	0.01	0.01	0.01
2026-02-06	0.04	0.06	0.05	0.02	0.05	0.03	0.01	0.04	0.01
2026-02-07	0.04	0.05	0.05	0.02	0.03	0.02	0.01	0.03	0.02
2026-02-08	0.04	0.05	0.05	0.02	0.05	0.02	0.02	0.02	0.02
2026-02-09	0.02	0.08	0.04	0.02	0.12	0.02	0.02	0.03	0.02
2026-02-10	0.02	0.05	0.02	0.02	0.03	0.02	0.02	0.02	0.02
2026-02-11	0.02	0.04	0.03	0.03	0.03	0.03	0.01	0.04	0.02
2026-02-12	0.03	0.03	0.03	0.03	0.04	0.04	0.01	0.06	0.01
2026-02-13	0.02	0.04	0.03	0.04	0.06	0.04	0.01	0.04	0.01
2026-02-14	0.02	0.03	0.02	0.04	0.04	0.04	0.01	0.02	0.02
2026-02-15	0.02	0.05	0.02	0.04	0.05	0.04	0.02	0.02	0.02
2026-02-16	0.02	0.09	0.03	0.02	0.05	0.04	0.02	0.02	0.02
2026-02-17	0.02	0.06	0.03	0.02	0.10	0.03	0.02	0.02	0.02
2026-02-18	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
2026-02-19	0.02	0.03	0.02	0.02	0.05	0.02	0.02	0.03	0.02
2026-02-20	0.02	0.03	0.02	0.02	0.90	0.05	0.02	0.02	0.02
2026-02-21	0.02	0.03	0.02	0.04	0.07	0.04	0.02	0.03	0.02
2026-02-22	0.02	0.10	0.03	0.04	0.05	0.04	0.01	0.05	0.02
2026-02-23	0.02	0.04	0.03	0.04	0.04	0.04	0.01	0.02	0.01
2026-02-24	0.03	0.03	0.03	0.04	0.05	0.05	0.01	0.01	0.01
2026-02-25	0.03	0.03	0.03	0.04	0.05	0.05	0.01	0.01	0.01
2026-02-26	0.03	0.04	0.03	0.02	0.06	0.03	0.01	0.04	0.01
2026-02-27	0.03	0.03	0.03	0.02	0.23	0.03	0.01	0.05	0.02
2026-02-28	0.03	0.04	0.03	0.03	0.05	0.03	0.01	0.03	0.01

Notes:

## Train 2 Filter Turbidity (NTU)

Date	Filter 4			Filter 5			Filter 6		
	Min	Max	Average	Min	Max	Average	Min	Max	Average
2026-02-01	0.02	0.03	0.02	0.05	0.07	0.06	0.02	0.07	0.02
2026-02-02	0.02	0.02	0.02	0.02	0.07	0.04	0.01	0.03	0.02
2026-02-03	0.02	0.02	0.02	0.03	0.03	0.03	0.01	0.05	0.02
2026-02-04	0.02	0.03	0.02	0.02	0.04	0.02	0.01	0.05	0.02
2026-02-05	0.02	0.02	0.02	0.03	0.03	0.03	0.01	0.05	0.02
2026-02-06	0.02	0.04	0.03	0.03	0.05	0.03	0.01	0.05	0.02
2026-02-07	0.03	0.04	0.03	0.02	0.05	0.03	0.02	0.05	0.02
2026-02-08	0.03	0.04	0.03	0.02	0.06	0.03	0.02	0.05	0.02
2026-02-09	0.02	0.06	0.03	0.02	0.11	0.03	0.02	0.54	0.02
2026-02-10	0.02	0.03	0.02	0.03	0.03	0.03	0.02	0.12	0.02
2026-02-11	0.02	0.06	0.02	0.04	0.04	0.04	0.01	0.06	0.02
2026-02-12	0.02	0.03	0.02	0.03	0.03	0.04	0.01	0.04	0.01
2026-02-13	0.02	0.05	0.03	0.03	0.04	0.04	0.01	0.04	0.02
2026-02-14	0.02	0.03	0.02	0.03	0.03	0.04	0.02	0.04	0.02
2026-02-15	0.02	0.03	0.02	0.04	0.04	0.04	0.02	0.04	0.02
2026-02-16	0.02	0.04	0.02	0.03	0.06	0.04	0.02	0.04	0.02
2026-02-17	0.02	0.03	0.02	0.03	0.08	0.03	0.02	0.05	0.04
2026-02-18	0.02	0.03	0.02	0.02	0.02	0.02	0.04	0.07	0.05
2026-02-19	0.02	0.03	0.02	0.03	0.08	0.04	0.04	0.12	0.04
2026-02-20	0.02	0.03	0.02	0.03	0.17	0.05	0.04	0.05	0.04
2026-02-21	0.02	0.02	0.02	0.04	0.05	0.05	0.04	0.05	0.04
2026-02-22	0.02	0.09	0.02	0.04	0.04	0.04	0.03	0.06	0.04
2026-02-23	0.02	0.03	0.02	0.04	0.04	0.04	0.01	0.04	0.02
2026-02-24	0.02	0.03	0.02	0.04	0.07	0.04	0.01	0.07	0.01
2026-02-25	0.02	0.03	0.02	0.04	0.06	0.05	0.01	0.02	0.01
2026-02-26	0.03	0.04	0.03	0.04	0.08	0.05	0.02	0.08	0.02
2026-02-27	0.03	0.04	0.04	0.03	0.08	0.03	0.02	0.03	0.02
2026-02-28	0.04	0.04	0.04	0.02	0.02	0.03	0.02	0.03	0.02

Notes:

**UV Treatment:**

	<b>Average Flow</b>	<b>Avg Validated Dose</b>	<b>UV Availability</b>
<b>Date</b>	<b>(L/s)</b>	<b>(mj/cm2)</b>	<b>(%)</b>
2026-02-01	98.73	21.15	99.93
2026-02-02	98.41	21.40	99.93
2026-02-03	99.51	21.48	99.93
2026-02-04	101.22	21.10	99.93
2026-02-05	99.55	21.52	99.93
2026-02-06	99.49	21.50	99.93
2026-02-07	100.11	21.15	99.93
2026-02-08	99.32	21.70	99.93
2026-02-09	101.12	21.20	99.93
2026-02-10	98.94	20.98	99.61
2026-02-11	97.94	21.80	93.93
2026-02-12	99.10	21.20	99.93
2026-02-13	68.59	26.88	99.93
2026-02-14	98.94	20.60	99.93
2026-02-15	97.75	21.58	99.93
2026-02-16	99.29	21.02	99.93
2026-02-17	94.85	22.02	99.93
2026-02-18	95.71	21.85	99.93
2026-02-19	101.20	22.06	99.93
2026-02-20	78.62	21.50	99.93
2026-02-21	81.18	20.48	99.93
2026-02-22	82.00	22.02	99.93
2026-02-23	76.75	25.80	99.93
2026-02-24	99.69	22.95	99.93
2026-02-25	73.67	27.22	99.93
2026-02-26	87.28	24.32	99.93
2026-02-27	99.53	22.72	99.93
2026-02-28	99.79	22.42	99.93

**Notes:**

**UV Transmittance %:**

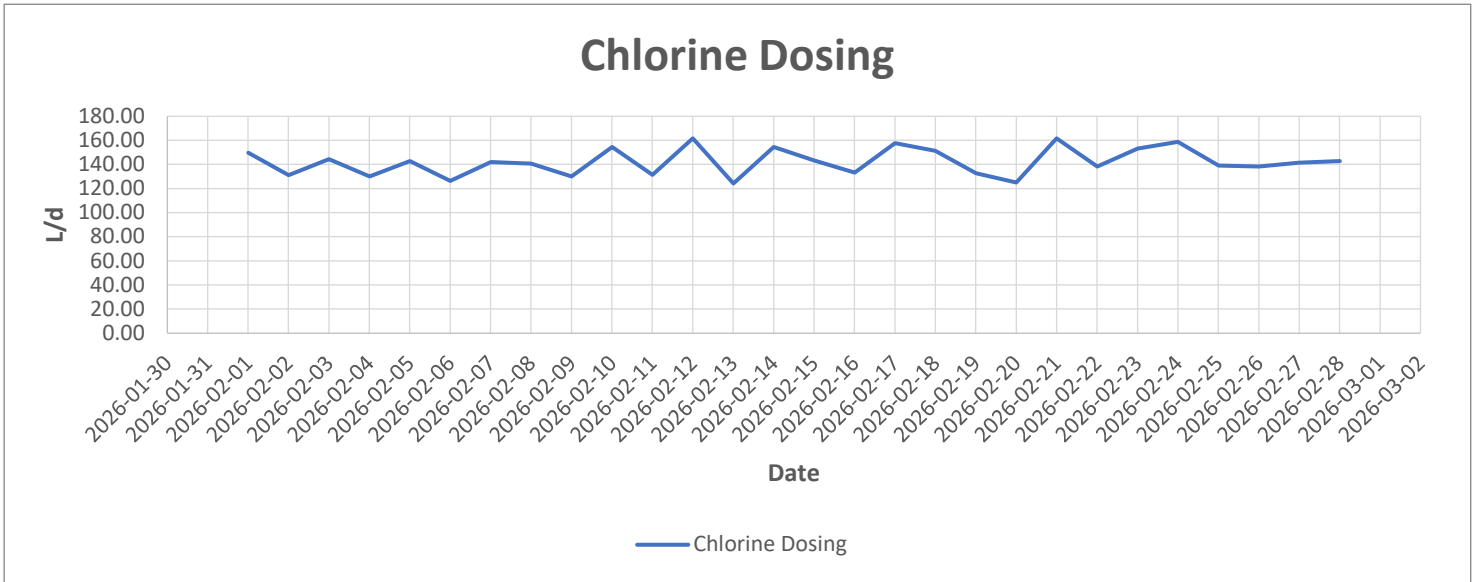
Date	Min	Max	Average
2026-02-01	90.90	91.30	91.06
2026-02-02	90.50	91.20	90.90
2026-02-03	90.90	91.20	91.11
2026-02-04	90.70	91.20	91.03
2026-02-05	90.90	91.30	91.13
2026-02-06	90.80	91.20	91.05
2026-02-07	90.80	91.10	90.95
2026-02-08	90.70	91.10	90.95
2026-02-09	90.60	91.00	90.84
2026-02-10	90.60	91.50	90.87
2026-02-11	90.60	91.00	90.83
2026-02-12	90.60	90.90	90.76
2026-02-13	90.50	90.90	90.70
2026-02-14	90.50	91.00	90.80
2026-02-15	90.60	90.90	90.78
2026-02-16	90.30	90.90	90.67
2026-02-17	90.60	90.90	90.79
2026-02-18	90.50	90.90	90.69
2026-02-19	89.50	90.50	90.02
2026-02-20	89.00	89.50	89.24
2026-02-21	89.00	89.90	89.33
2026-02-22	89.90	91.10	90.43
2026-02-23	90.90	91.70	91.27
2026-02-24	91.20	91.80	91.65
2026-02-25	91.20	91.50	91.31
2026-02-26	90.40	91.60	91.24
2026-02-27	91.20	91.90	91.57
2026-02-28	91.30	91.70	91.58

**Notes:**

# Chemical Demand:

## Chlorine Used:

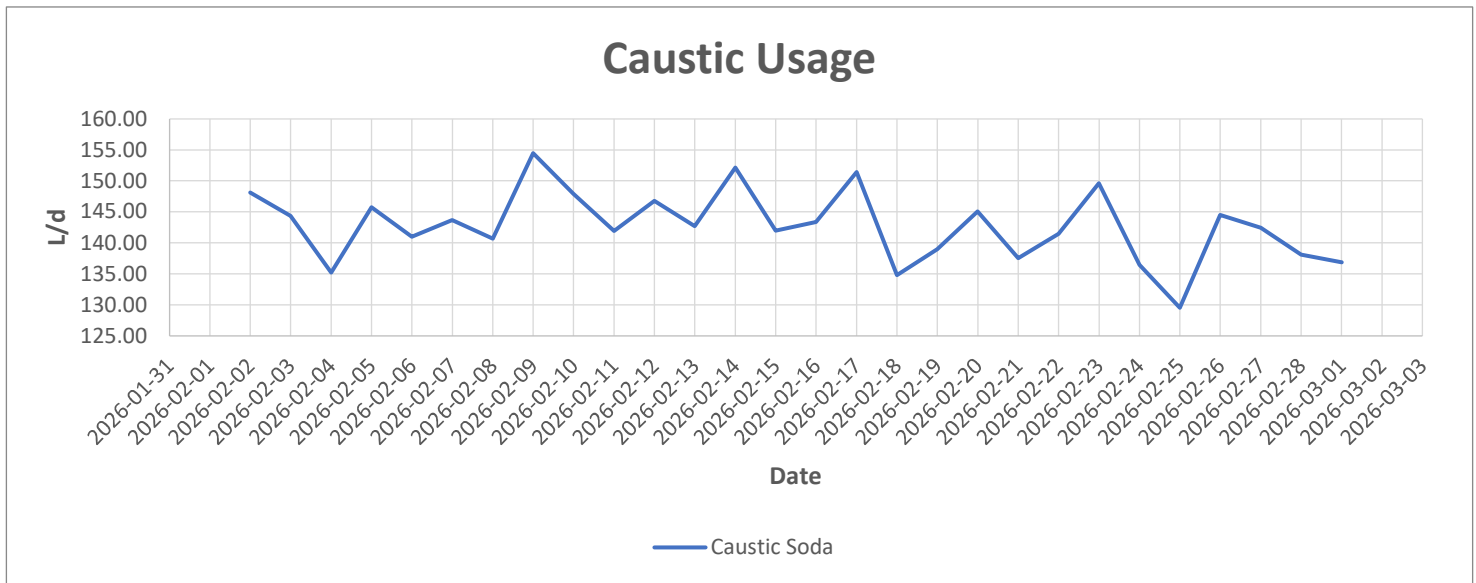
Total for Month  
3979.19 L



### Notes:

## Caustic Soda Used:

Total for Month  
3996.44 Litres

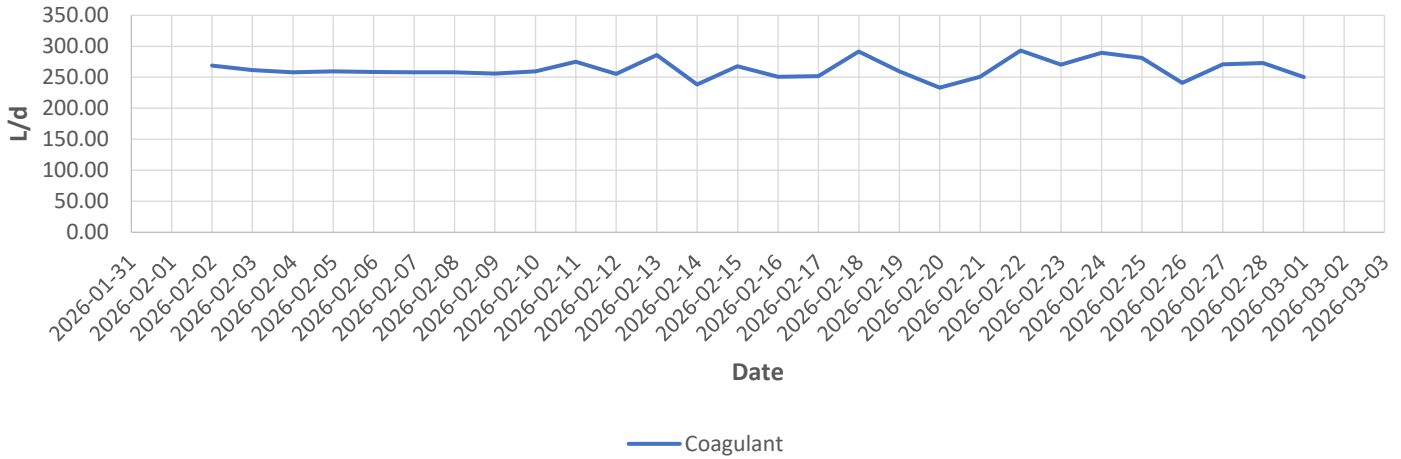


### Notes:

**Coagulant Used:**

**Total for Month**  
7366.83 Litres

### Coagulant Usage



**Notes:**

**DAF & Residual DAF Neat Polymer**

**Total for Month**  
95.79 L

**Centrifuge Neat Polymer**

**Total for Month**  
272.21 L

**Chlorine Dose**

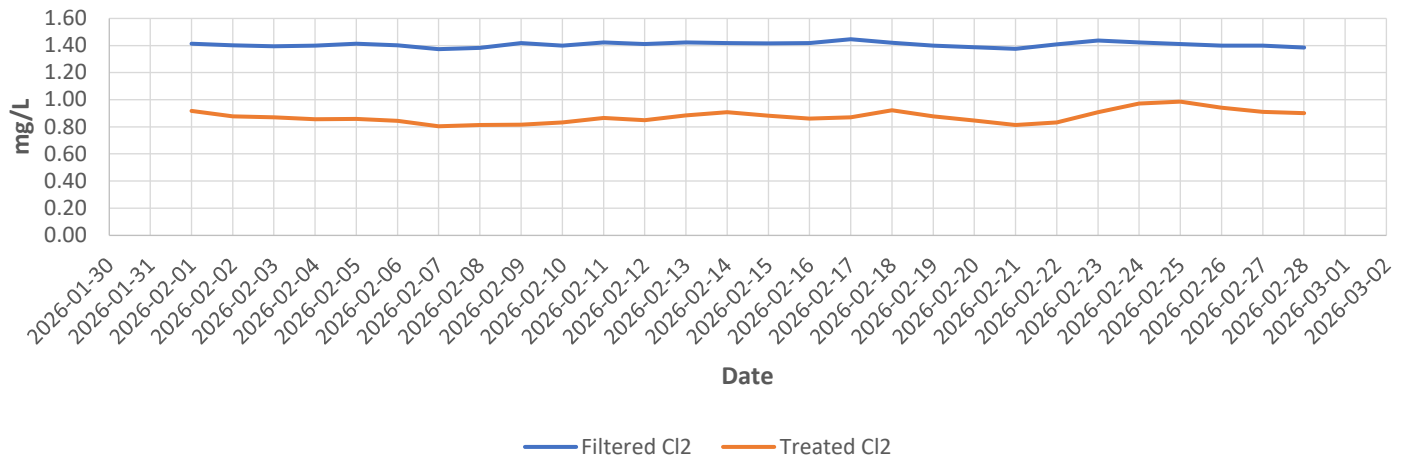
Filtered Water Residual Cl<sub>2</sub> Average (mg/L):

1.41 mg/L

Treated Water (Distributed) Cl<sub>2</sub> Average (mg/L):

0.88 mg/L

### Average Residual Cl<sub>2</sub> Content

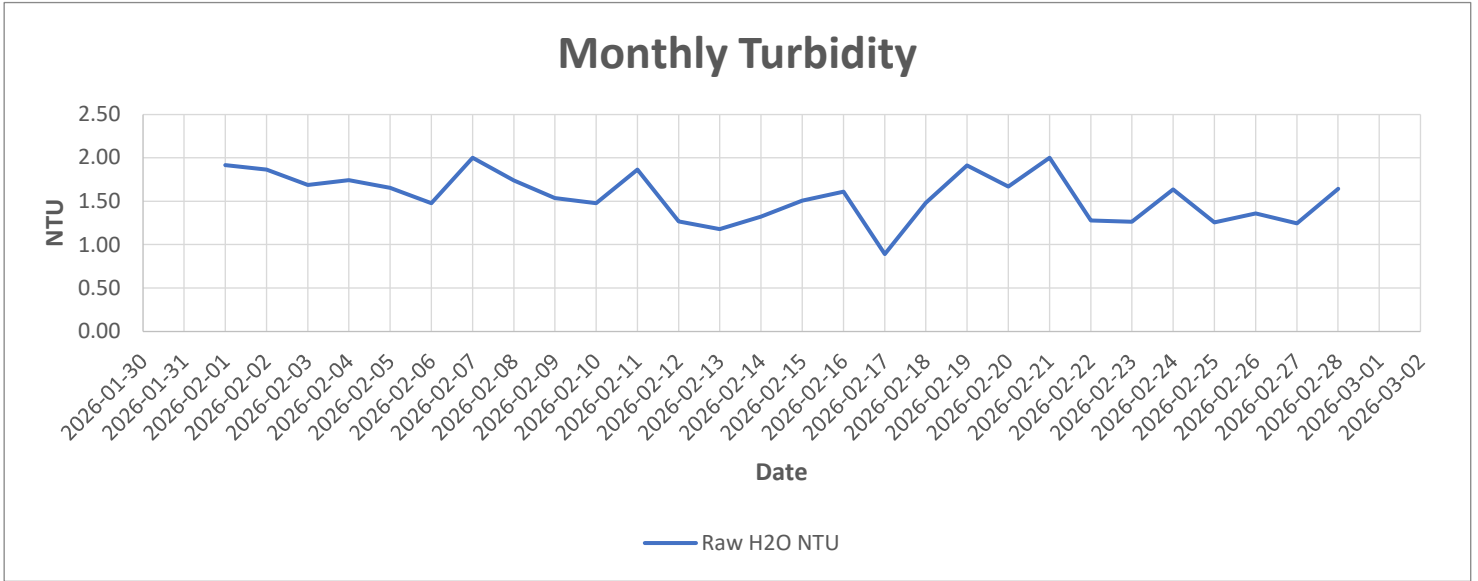


# Water Quality Analytics:

## Turbidity

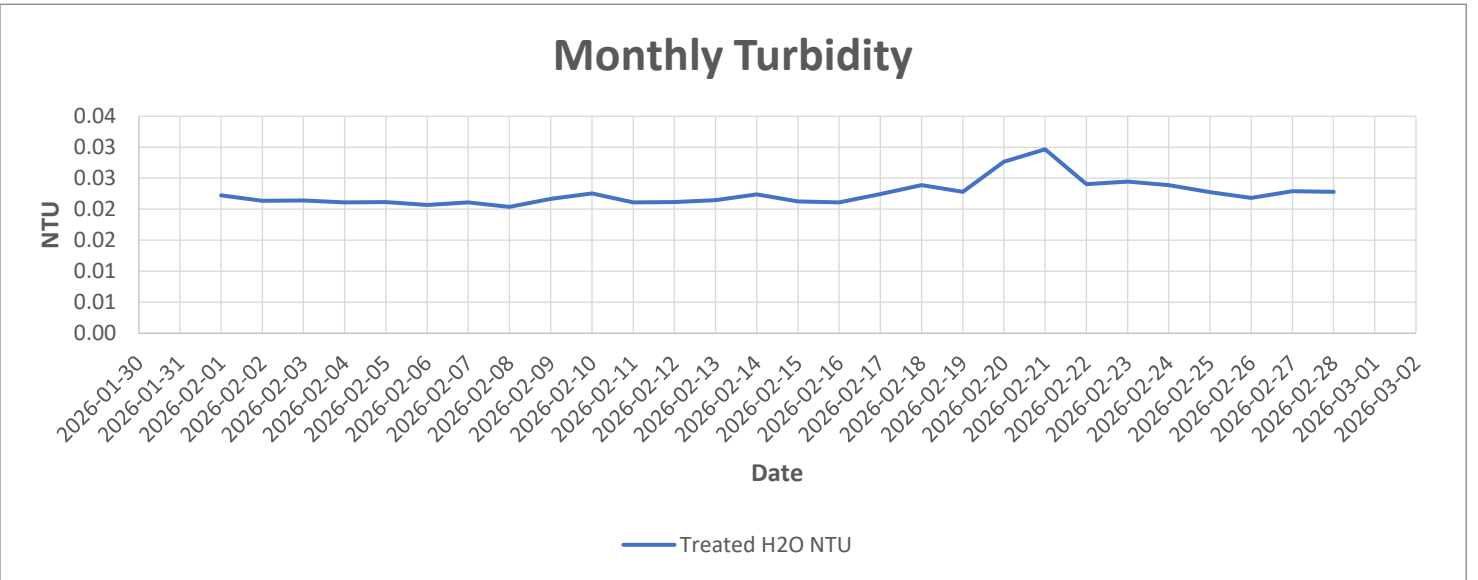
Raw Water Monthly Average:

1.55 NTU



Treated Water Monthly Average:

0.02 NTU



Notes:

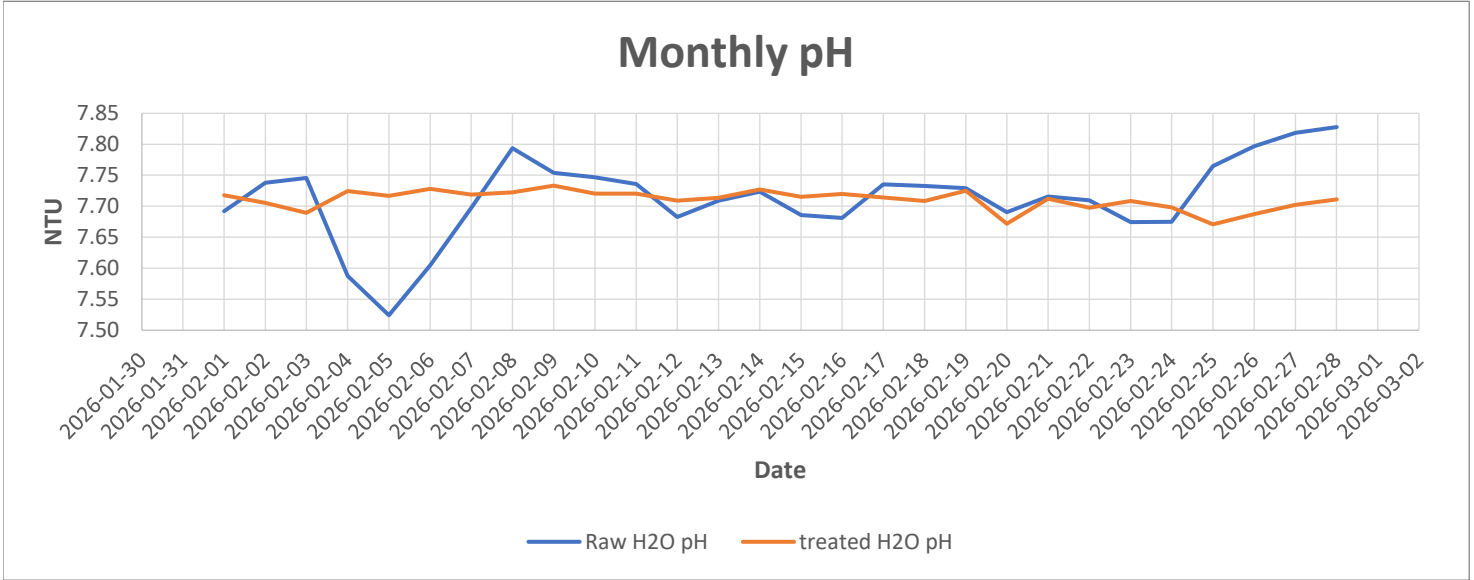
**pH**

Raw Water Monthly Average:

7.71 pH

Treated Water Monthly Average:

7.71 pH



**Notes:**

## **Powers Creek WTP Operational Highlights:**

### **Ongoing Hypochlorite Project by Contrator (AECOM), all month (working on deficiencies)**

Feb 2nd - swapped motor on a caustic pump #623  
Feb 3rd - BC HYDRO swapped out electrical meter at plant  
Feb 3rd - Contractor (TriStar Environmental) removed "foam" from PAC tanks  
Feb 3rd - new NTU analyzer installed on treated water  
Feb 4th - changed oils on residual DAF floc mixers  
Feb 5th - inspected clear water reservoir with ROV - all good  
Feb 9th - recalibrated caustic pumps  
Feb 10th - inspected filtered water tank with ROV - all good  
Feb 12th - flushed & calibrated PAC pumps  
Feb 13th - cleaned & calibrated treated water NTU  
Feb 13th - cleaned all NTU analyzers  
Feb 13th - flushed streaming current  
Feb 18th - cleaned all pH's  
Feb 24th - cleaned & rinsed CTF poly make down system  
Feb 24th & 25th - swapped out residual DAF saturator  
Feb 26th - flushed streaming current

## **Power Creek Watershed Operational Highlights:**

Site checks were completed weekly on all reservoirs (Tadpole, Dobbin, Horseshoe, Powers Creek Diversion, Paynter, Jackpine & Lambly)

Lambly headgate opened to 1100 usgpm, 6.0 ML/Day

## **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

February 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 February.
- February 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*.
- February 9, 2026 - A calibration adjustment was completed at the Glenrosa Reservoir for both analyzers: the online FCR reading was decreased by 0.33 mg/L, and the pH analyzer was adjusted upward by 0.10.
- February 10, 2026 - A calibration adjustment was performed on the Lateral One online FCR analyzer, resulting in an increase of 0.16 mg/L.
- February 10, 2026 - Following a review of trending data, the PCWTP team identified that the variations in free chlorine observed at Lateral One and the Glenrosa Pump Station were likely related to the operation of the post-reservoir dosing pumps. These pumps were subsequently taken offline, as their operation was unnecessary at the time. Improvements were also made to the pH control dosing system, which may have been influencing the FCR analyzer readings at these locations. Monitoring continued, with ongoing communication between the Treatment Plant and Distribution Operations teams.
- February 11, 2026 - The Lateral One Pump Station online FCR analyzer displayed a low reading of 0.05 mg/L, while a handheld analyzer measured 0.64 mg/L.
- An Electrical & Instrumentation Tech attended the site and confirmed a failure of the pH sensor's temperature element. Because the FCR analyzer relies on pH compensation, the failure contributed to the inaccurate FCR readings. The pH sensor was replaced and, after verification, the online FCR analyzer was corrected.

## Operational System Improvements/Events

- February 2, 2026 – 3303 McMahan Rd water service line repair completed by City staff, serviced property was only home that experienced a water disruption. Positive pressure maintained through out repair.
- February 3, 2026 – Smith Creek Reservoir pressure to current transmitters were flushed and cleaned.
- February 4, 2026 – 3451 McNamara Rd water service line repair completed by City staff, serviced property was only home that experienced a water disruption. Positive pressure maintained through out repair.
- February 9, 2026 – Glenrosa Reservoir safety shower and eyewash station mixing valve was replaced.
- February 19, 2026 – 29238 Sandberg Rd curb stop repair and replacement completed by City staff.

# WQ Field and SCADA Data

Sampling Location Table:

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

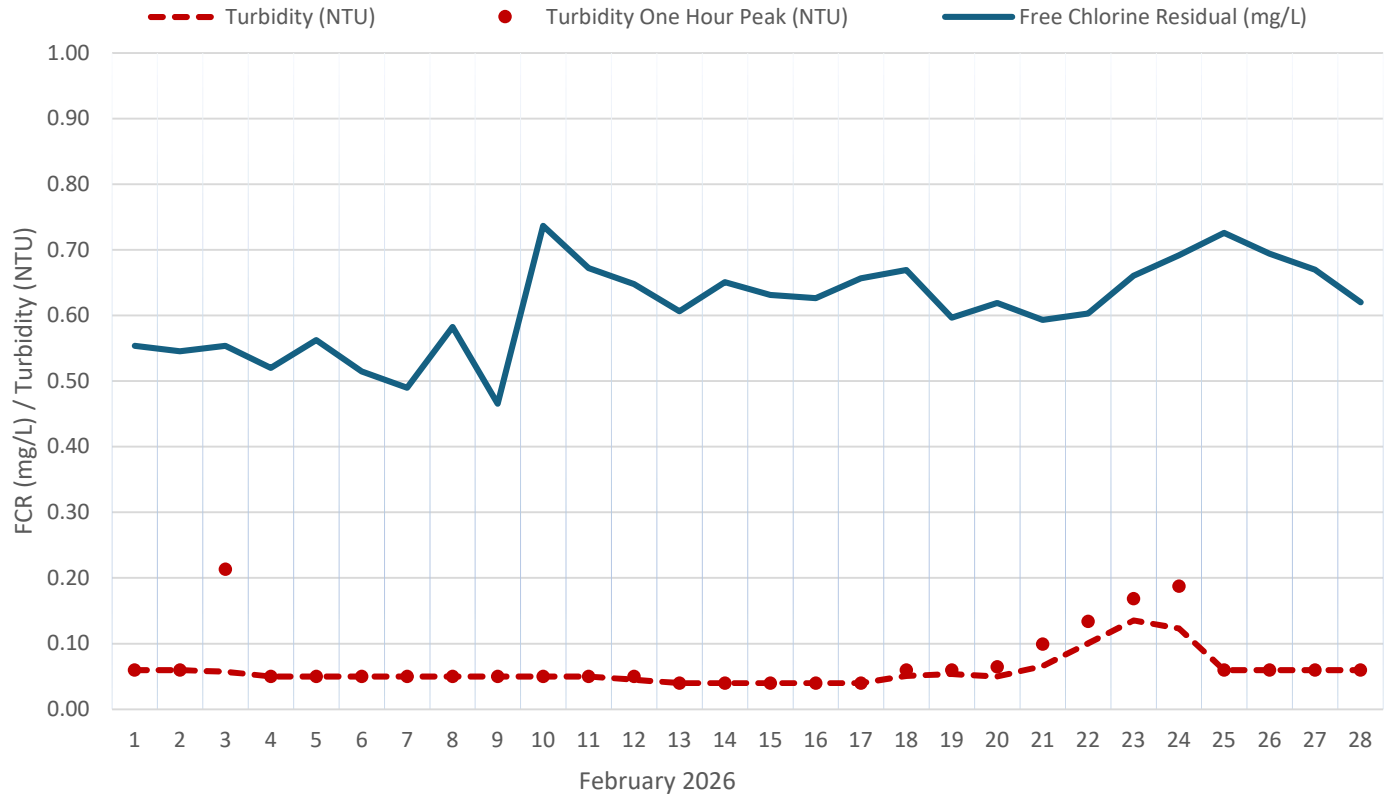
- **PS** = Pump Station
- **SS** = Sample Station
- **Res** = Reservoir
- **WQS** = Water Quality Station

**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 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)
<b>February 2026</b>							
1	7.27	0.06	0.06	4.50	0.33	0.65	0.55
2	7.24	0.06	0.06	4.83	0.29	1.04	0.55
3	7.23	0.06	0.21	4.93	0.28	2.12	0.55
4	7.22	0.05	0.05	5.05	0.39	0.60	0.52
5	7.23	0.05	0.05	5.29	0.41	1.11	0.56
6	7.23	0.05	0.05	5.45	0.41	1.34	0.51
7	7.28	0.05	0.05	5.59	0.19	1.42	0.49
8	7.28	0.05	0.05	5.45	0.32	1.78	0.58
9	7.27	0.05	0.05	5.40	0.01	0.89	0.47
10	7.34	0.05	0.05	5.68	0.08	2.20	0.74
11	7.71	0.05	0.05	6.68	0.00	0.97	0.67
12	7.76	0.05	0.05	5.36	0.43	0.72	0.65
13	7.75	0.04	0.04	5.10	0.23	0.72	0.61
14	7.70	0.04	0.04	5.27	0.46	0.74	0.65
15	7.75	0.04	0.04	5.67	0.02	0.74	0.63
16	7.70	0.04	0.04	5.34	0.41	0.74	0.63
17	7.69	0.04	0.04	4.98	0.42	0.75	0.66
18	7.68	0.05	0.06	4.38	0.51	0.79	0.67
19	7.74	0.05	0.06	4.08	0.00	0.74	0.60
20	7.62	0.05	0.06	3.51	0.42	0.72	0.62
21	7.66	0.07	0.10	3.24	0.37	0.66	0.59
22	7.64	0.10	0.13	3.14	0.46	0.71	0.60
23	7.60	0.14	0.17	3.07	0.49	0.79	0.66
24	7.68	0.12	0.19	3.65	0.32	0.82	0.69
25	7.57	0.06	0.06	3.55	0.59	0.81	0.73
26	7.54	0.06	0.06	3.75	0.57	0.79	0.69
27	7.53	0.06	0.06	4.14	0.58	0.74	0.67
28	7.56	0.06	0.06	4.50	0.44	0.72	0.62
<b>Average</b>	7.52	0.06		4.70	0.34	0.96	0.61
<b>Min</b>	7.22	0.04		3.07	0.00	0.60	0.47
<b>Max</b>	7.76	0.14	0.21	6.68	0.59	2.20	0.74

### Lateral One Online Data



### Lateral One PS Water Quality

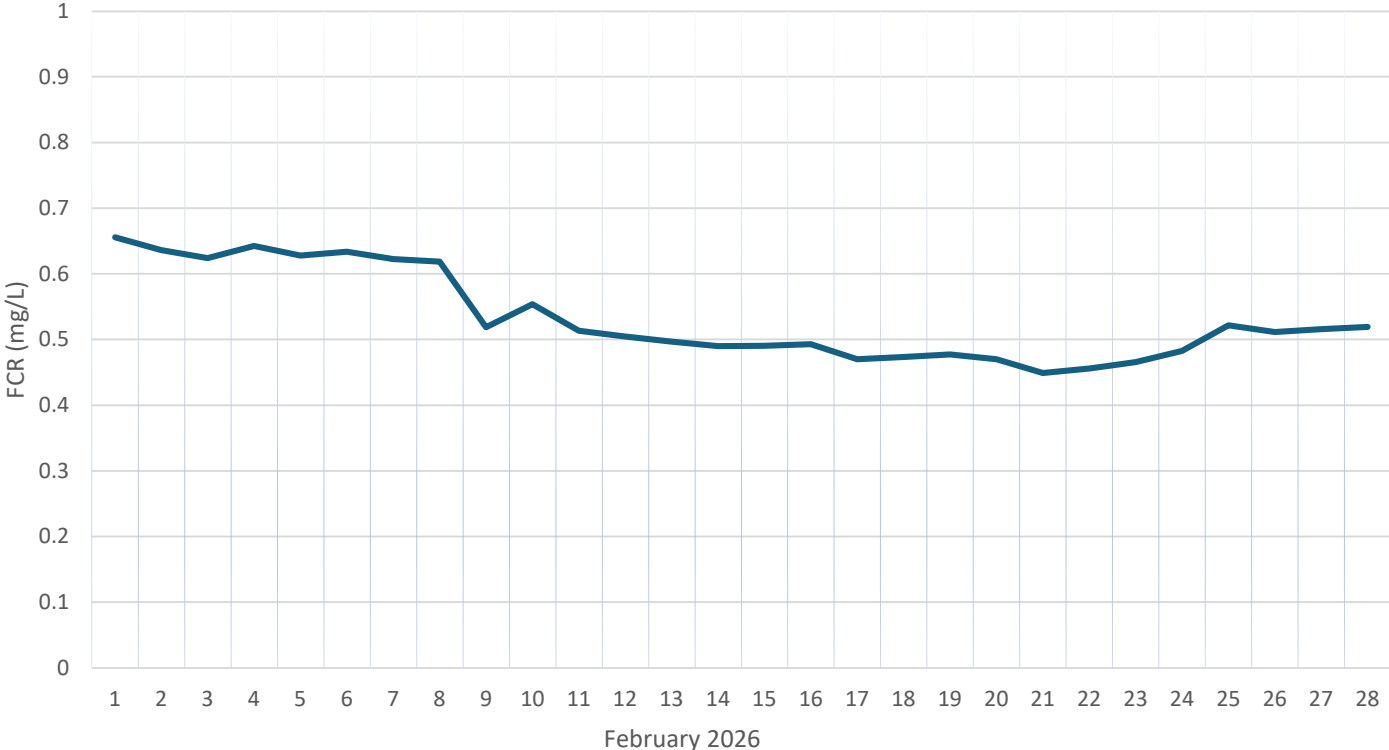
Date	Turbidity		Temp	FCR		pH
	Grab (NTU)	Online (NTU)	Grab (°C)	Grab (mg/L)	Online (mg/L)	
03-Feb-26	0.15	0.07	6.2	0.61	0.66	7.23
10-Feb-26	0.17	0.06	5.9	0.77	0.46	7.60
17-Feb-26	0.16	0.06	3.8	0.79	0.68	7.83
23-Feb-26	0.10	0.09	2.8	0.87	0.76	7.68
# of Samples	4	4	4	4	4	4
Average	0.15	0.07	4.68	0.76	0.64	7.59
Range	0.10-0.17	0.06-0.09	2.8-6.2	0.61-0.87	0.46-0.76	7.23-7.83

## 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)
<b>February 2026</b>							
1	1.84	4.35	7.65	3.03	0.53	0.91	0.66
2	1.68	4.36	7.63	3.19	0.53	0.88	0.64
3	1.69	4.36	7.62	3.35	0.52	0.86	0.62
4	1.74	4.16	7.66	3.54	0.52	3.11	0.64
5	1.73	4.12	7.66	3.72	0.52	1.51	0.63
6	1.72	4.15	7.67	3.88	0.52	3.22	0.63
7	1.73	4.13	7.69	3.98	0.50	1.83	0.62
8	1.80	4.13	7.67	4.04	0.50	2.27	0.62
9	1.73	4.11	7.67	4.08	0.17	1.31	0.52
10	1.66	4.50	7.61	4.06	0.43	2.06	0.55
11	1.64	4.42	7.60	4.04	0.33	0.87	0.51
12	1.78	4.40	7.59	4.05	0.41	0.83	0.50
13	1.71	4.52	7.61	4.00	0.40	0.84	0.50
14	1.66	4.40	7.60	4.06	0.39	0.84	0.49
15	1.76	4.44	7.60	4.12	0.39	0.82	0.49
16	1.88	4.47	7.60	4.10	0.38	0.84	0.49
17	1.67	5.05	7.58	4.00	0.38	0.81	0.47
18	1.61	5.06	7.60	3.90	0.38	0.87	0.47
19	1.80	5.06	7.62	3.70	0.39	1.05	0.48
20	1.78	5.03	7.60	3.36	0.38	0.80	0.47
21	1.65	5.05	7.61	3.15	0.37	0.76	0.45
22	1.86	5.04	7.59	3.00	0.37	0.75	0.46
23	1.80	5.03	7.58	3.01	0.37	0.84	0.47
24	1.68	5.03	7.57	3.04	0.37	1.53	0.48
25	1.84	4.35	7.56	3.00	0.38	0.93	0.52
26	1.66	4.36	7.56	3.09	0.40	0.88	0.51
27	1.68	5.01	7.57	3.23	0.41	0.84	0.52
28	1.68	4.36	7.58	3.36	0.38	0.89	0.52
<b>Total</b>	47						
<b>Average</b>	1.73	4.55	7.61	3.61	0.42	1.21	0.53
<b>Min</b>	1.61	4.11	7.56	3.00	0.17	0.75	0.45
<b>Max</b>	1.88	5.06	7.69	4.12	0.53	3.22	0.66

# Glenrosa Reservoir Online Data

Free Chlorine Residual (mg/L)

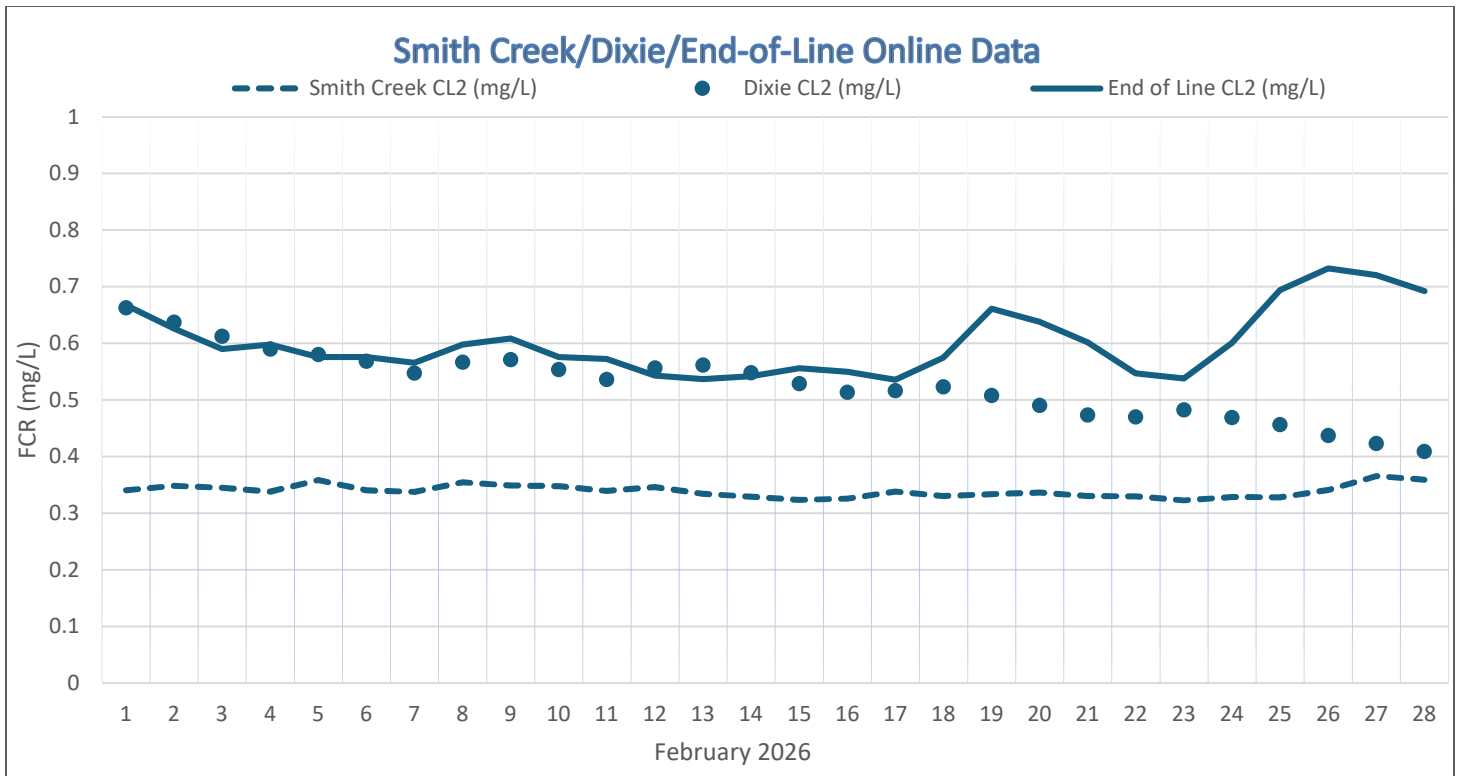


# Smith Creek PS, Dixie Reservoir & End-of-Line WQS

Date	Smith Creek Reservoir FCR		
	Min (mg/L)	Max (mg/L)	Avg (mg/L)
<b>February 2026</b>			
1	0.34	0.35	0.34
2	0.34	0.35	0.35
3	0.34	0.35	0.35
4	0.34	0.35	0.34
5	0.34	0.40	0.36
6	0.34	0.35	0.34
7	0.34	0.35	0.34
8	0.34	0.40	0.35
9	0.34	0.35	0.35
10	0.34	0.35	0.35
11	0.33	0.35	0.34
12	0.33	0.39	0.35
13	0.33	0.33	0.33
14	0.32	0.34	0.33
15	0.32	0.34	0.32
16	0.33	0.33	0.33
17	0.33	0.37	0.34
18	0.32	0.34	0.33
19	0.33	0.34	0.33
20	0.33	0.34	0.34
21	0.32	0.34	0.33
22	0.32	0.37	0.33
23	0.32	0.33	0.32
24	0.33	0.34	0.33
25	0.32	0.34	0.33
26	0.34	0.35	0.34
27	0.34	0.42	0.37
28	0.36	0.37	0.36
<b>Average</b>	0.33	0.35	0.34
<b>Min</b>	0.32	0.33	0.32
<b>Max</b>	0.36	0.42	0.37

Dixie Reservoir FCR			
Min (mg/L)	Max (mg/L)	Avg (mg/L)	
0.65	0.70	0.66	
0.62	0.67	0.64	
0.59	0.64	0.61	
0.58	0.61	0.59	
0.56	0.59	0.58	
0.55	0.59	0.57	
0.54	0.57	0.55	
0.52	0.59	0.57	
0.55	0.59	0.57	
0.54	0.58	0.55	
0.51	0.57	0.54	
0.51	0.59	0.56	
0.54	0.59	0.56	
0.52	0.58	0.55	
0.51	0.55	0.53	
0.51	0.53	0.51	
0.48	0.55	0.52	
0.51	0.55	0.52	
0.48	0.53	0.51	
0.47	0.51	0.49	
0.47	0.51	0.47	
0.45	0.50	0.47	
0.47	0.51	0.48	
0.45	0.50	0.47	
0.44	0.48	0.46	
0.41	0.46	0.44	
0.40	0.44	0.42	
0.40	0.44	0.41	
<b>Average</b>	0.51	0.55	0.53
<b>Min</b>	0.40	0.44	0.41
<b>Max</b>	0.65	0.70	0.66

End-of-The-Line FCR			
Min (mg/L)	Max (mg/L)	Avg (mg/L)	
0.64	0.69	0.67	
0.60	0.65	0.63	
0.57	0.62	0.59	
0.56	0.67	0.60	
0.54	0.67	0.58	
0.55	0.66	0.58	
0.54	0.68	0.57	
0.56	0.65	0.60	
0.56	0.70	0.61	
0.53	0.64	0.58	
0.53	0.66	0.57	
0.53	0.56	0.54	
0.53	0.55	0.54	
0.53	0.56	0.54	
0.54	0.58	0.56	
0.52	0.56	0.55	
0.52	0.57	0.54	
0.53	0.64	0.57	
0.64	0.68	0.66	
0.62	0.65	0.64	
0.56	0.62	0.60	
0.52	0.56	0.55	
0.52	0.57	0.54	
0.57	0.64	0.60	
0.64	0.72	0.69	
0.70	0.76	0.73	
0.69	0.74	0.72	
0.67	0.71	0.69	
<b>Average</b>	0.57	0.64	0.60
<b>Min</b>	0.52	0.55	0.54
<b>Max</b>	0.70	0.76	0.73



End-of-Line WQS Water Quality					
Date	Turbidity	Temp	FCR		pH
	Grab (NTU)	Grab (°C)	Grab (mg/L)	Online (mg/L)	
03-Feb-26	0.13	6.4	0.72	0.59	7.45
10-Feb-26	0.11	7.1	0.77	0.55	7.50
17-Feb-26	0.08	7.9	0.57	0.53	7.69
23-Feb-26	0.10	6.4	0.62	0.60	7.54
# of Samples	4	4	4	4	4
Average	0.11	6.95	0.67	0.57	7.55
Range	0.08-0.13	6.4-7.9	0.57-0.77	0.53-0.60	7.45-7.69

# WQ Field Data

## Mclver SS

Mclver SS Water Quality				
Date	Turbidity	Temp	FCR	pH
	Grab (NTU)	Grab (°C)	Grab (mg/L)	
03-Feb-26	0.11	4.7	0.58	7.50
10-Feb-26	0.12	5.2	0.49	7.42
17-Feb-26	0.09	6.8	0.44	7.89
23-Feb-26	0.09	4.7	0.54	7.54
# of Samples	4	4	4	4
Average	0.10	5.6	0.51	7.59
Range	0.09-0.12	4.7-6.8	0.44-0.58	7.42-7.89

## Bulk Water Station (Stn)

Bulk Water Station Water Quality				
Date	Turbidity	Temp	FCR	pH
	Grab (NTU)	Grab (°C)	Grab (mg/L)	
03-Feb-26	0.23	7.4	0.49	7.43
10-Feb-26	0.07	7.6	0.48	7.39
17-Feb-26	0.11	7.3	0.58	7.95
23-Feb-26	0.13	5.7	0.78	7.77
# of Samples	4	4	4	4
Average	0.14	7.0	0.58	7.64
Range	0.07-0.23	5.7-7.6	0.48-0.78	7.39-7.95

# Disinfection Byproducts

## Power's Creek Water Service Area - THM Results (mg/L) MAC=0.10mg/L

Date	Lateral One PS	End-of-Line	Mclver SS	Bulk Water Stn
27-May-25	0.0267	0.0412	0.0450	
19-Aug-25	0.0376	0.0365	0.0318	0.0574
25-Nov-25	0.0400	0.0475	0.0420	0.0541
9-Dec-25	0.0227	0.0293	0.0308	0.0307
17-Feb-26	0.0344	0.0483	0.0516	0.0450
Average	0.0323	0.0406	0.0402	0.0468

## Power's Creek Water Service Area - HAA5 Results (mg/L) MAC=0.08mg/L

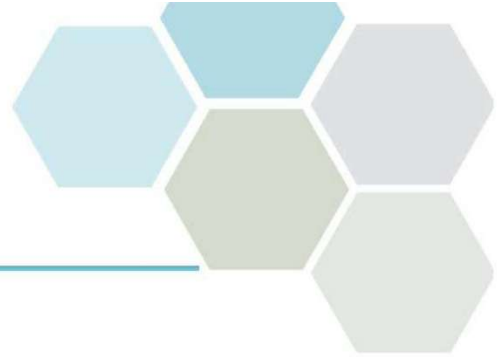
Date	Lateral One PS	End-of-Line	Mclver SS	Bulk Water Stn
27-May-25	0.0218	0.0308	0.0383	
19-Aug-25	0.0205	0.0312	0.0318	0.0277
25-Nov-25	0.0280	0.0359	0.0325	0.0376
9-Dec-25	0.0221	0.0342	0.0341	0.0349
17-Feb-26	0.0184	0.0248	0.0310	0.0268
Average	0.0222	0.0314	0.0335	0.0318

# Manganese

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

Location	27-May-25	19-Aug-25	25-Nov-25	17-Feb-26	Average	Range
Lateral One	0.00284	0.00421	0.00500	0.00343	0.00387	0.00284-0.00500
Mclver	0.00901	0.00174	0.00294	0.00214	0.00396	0.00174-0.00901
End-of-Line	0.00714	0.00158	0.00163	0.00086	0.00280	0.00086-0.00733
Bulk Water Station		0.00569	0.00191	0.00225	0.00328	0.00191-0.00569

# Appendix A – Quarterly Certificate of Analysis



## CERTIFICATE OF ANALYSIS

<b>REPORTED TO</b>	West Kelowna, City of 3731 Old Okanagan Hwy West Kelowna, BC V4T 0G7	<b>WORK ORDER</b>	26B1861
<b>ATTENTION</b>	Dan Ricciuti	<b>RECEIVED / TEMP REPORTED</b>	2026-02-17 13:28 / 12.8°C
<b>PO NUMBER</b>	800133	<b>REPORTED</b>	2026-02-26 13:27
<b>PROJECT</b>	Powers Creek Water Service Area - General	<b>COC NUMBER</b>	No Number
<b>PROJECT INFO</b>			

### Introduction:

CARO Analytical Services is a testing laboratory full of smart, engaged scientists driven to make the world a safer and healthier place. Through our clients' projects we become an essential element for a better world. We employ methods conducted in accordance with recognized professional standards using accepted testing methodologies and quality control efforts. CARO is accredited by the Canadian Association for Laboratories Accreditation (CALA) to ISO/IEC 17025:2017 for specific tests listed in the scope of accreditation approved by CALA.

#### Big Picture Sidekicks



You know that the sample you collected after snowshoeing to site, digging 5 meters, and racing to get it on a plane so you can submit it to the lab for time sensitive results needed to make important and expensive decisions (whew) is VERY important. We know that too.

#### We've Got Chemistry



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If you have any questions or concerns, please contact me at [hhannaoui@caro.ca](mailto:hhannaoui@caro.ca)

### Authorized By:

Hanane El Hannaoui  
Junior Account Manager

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## TEST RESULTS

REPORTED TO PROJECT West Kelowna, City of  
Powers Creek Water Service Area - General

WORK ORDER REPORTED 26B1861  
2026-02-26 13:27

Analyte	Result	Guideline	RL Units	Analyzed	Qualifier
<b>LATERAL ONE PS (26B1861-01)   Matrix: Drinking Water   Sampled: 2026-02-17 11:40</b>					
<b>Calculated Parameters</b>					
Total Trihalomethanes	0.0344	MAC = 0.1	0.00400 mg/L	N/A	
Hardness, Total (as CaCO3)	48.7	None Required	0.500 mg/L	N/A	
Langelier Index	-0.8	N/A	-5.0	2026-02-24	CT9
Nitrogen, Organic	0.0540	N/A	0.0500 mg/L	N/A	
<b>Field Parameters</b>					
Chlorine, Free	0.79	N/A	0.02 mg/L	2026-02-17	
pH	7.8	7.0-10.5	0.1 pH units	2026-02-17	
Turbidity	0.16	OG < 1	0.10 NTU	2026-02-17	
<b>General Parameters</b>					
Alkalinity, Total (as CaCO3)	50.2	N/A	1.0 mg/L	2026-02-18	
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	N/A	1.0 mg/L	2026-02-18	
Alkalinity, Bicarbonate (as CaCO3)	50.2	N/A	1.0 mg/L	2026-02-18	
Alkalinity, Carbonate (as CaCO3)	< 1.0	N/A	1.0 mg/L	2026-02-18	
Alkalinity, Hydroxide (as CaCO3)	< 1.0	N/A	1.0 mg/L	2026-02-18	
Ammonia, Total (as N)	< 0.050	None Required	0.050 mg/L	2026-02-21	
Carbon, Total Organic	3.46	N/A	0.50 mg/L	2026-02-19	
Nitrogen, Total Kjeldahl	0.054	N/A	0.050 mg/L	2026-02-20	
Solids, Total Dissolved	75	AO ≤ 500	15 mg/L	2026-02-23	
Temperature, at pH	22.0	N/A	°C	2026-02-18	HT2
<b>Haloacetic Acids</b>					
Monochloroacetic Acid	< 0.0030	N/A	0.0020 mg/L	2026-02-26	RA3
Monobromoacetic Acid	< 0.0020	N/A	0.0020 mg/L	2026-02-26	
Dichloroacetic Acid	0.0088	N/A	0.0020 mg/L	2026-02-26	
Trichloroacetic Acid	0.0095	N/A	0.0020 mg/L	2026-02-26	
Dibromoacetic Acid	< 0.0020	N/A	0.0020 mg/L	2026-02-26	
Total Haloacetic Acids (HAA5)	0.0184	MAC = 0.08	0.00300 mg/L	N/A	
Surrogate: 2-Bromopropionic Acid	117		70-130 %	2026-02-26	
<b>Microbiological Parameters</b>					
Coliforms, Total	< 1	MAC = 0	1 CFU/100 mL	2026-02-18	
E. coli	< 1	MAC = 0	1 CFU/100 mL	2026-02-18	
<b>Total Metals</b>					
Aluminum, total	0.0180	OG < 0.1	0.0050 mg/L	2026-02-19	
Antimony, total	< 0.00020	MAC = 0.006	0.00020 mg/L	2026-02-19	
Arsenic, total	< 0.00050	MAC = 0.01	0.00050 mg/L	2026-02-19	
Barium, total	0.0106	MAC = 2	0.0050 mg/L	2026-02-19	
Beryllium, total	< 0.00010	N/A	0.00010 mg/L	2026-02-19	
Bismuth, total	< 0.00010	N/A	0.00010 mg/L	2026-02-19	
Boron, total	< 0.0500	MAC = 5	0.0500 mg/L	2026-02-19	
Cadmium, total	< 0.000010	MAC = 0.007	0.000010 mg/L	2026-02-19	
Calcium, total	15.2	None Required	0.20 mg/L	2026-02-19	



## TEST RESULTS

REPORTED TO PROJECT West Kelowna, City of Powers Creek Water Service Area - General

WORK ORDER REPORTED 26B1861 2026-02-26 13:27

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
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**LATERAL ONE PS (26B1861-01) | Matrix: Drinking Water | Sampled: 2026-02-17 11:40, Continued**

**Total Metals, Continued**

Chromium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2026-02-19	
Cobalt, total	< 0.00010	N/A	0.00010	mg/L	2026-02-19	
Copper, total	<b>0.00046</b>	MAC = 2	0.00040	mg/L	2026-02-19	
Iron, total	< 0.010	AO ≤ 0.1	0.010	mg/L	2026-02-19	
Lead, total	< 0.00020	MAC = 0.005	0.00020	mg/L	2026-02-19	
Lithium, total	<b>0.00097</b>	N/A	0.00010	mg/L	2026-02-19	
Magnesium, total	<b>2.60</b>	None Required	0.010	mg/L	2026-02-19	
Manganese, total	<b>0.00343</b>	MAC = 0.12	0.00020	mg/L	2026-02-19	
Molybdenum, total	<b>0.00080</b>	N/A	0.00010	mg/L	2026-02-19	
Nickel, total	< 0.00040	N/A	0.00040	mg/L	2026-02-19	
Phosphorus, total	< 0.050	N/A	0.050	mg/L	2026-02-19	
Potassium, total	<b>0.97</b>	N/A	0.10	mg/L	2026-02-19	
Selenium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2026-02-19	
Silicon, total	<b>8.2</b>	N/A	1.0	mg/L	2026-02-19	
Silver, total	< 0.000050	None Required	0.000050	mg/L	2026-02-19	
Sodium, total	<b>9.30</b>	AO ≤ 200	0.10	mg/L	2026-02-19	
Strontium, total	<b>0.0531</b>	MAC = 7	0.0010	mg/L	2026-02-19	
Sulfur, total	< 3.0	N/A	3.0	mg/L	2026-02-19	
Tellurium, total	< 0.00050	N/A	0.00050	mg/L	2026-02-19	
Thallium, total	< 0.000020	N/A	0.000020	mg/L	2026-02-19	
Thorium, total	< 0.00010	N/A	0.00010	mg/L	2026-02-19	
Tin, total	< 0.00020	N/A	0.00020	mg/L	2026-02-19	
Titanium, total	< 0.0050	N/A	0.0050	mg/L	2026-02-19	
Tungsten, total	< 0.0010	N/A	0.0010	mg/L	2026-02-19	
Uranium, total	< 0.000020	MAC = 0.02	0.000020	mg/L	2026-02-19	
Vanadium, total	< 0.0050	N/A	0.0050	mg/L	2026-02-19	
Zinc, total	< 0.0040	AO ≤ 5	0.0040	mg/L	2026-02-19	
Zirconium, total	< 0.00010	N/A	0.00010	mg/L	2026-02-19	

**Volatile Organic Compounds (VOC)**

Bromodichloromethane	<b>0.0014</b>	N/A	0.0010	mg/L	2026-02-23	
Bromoform	< 0.0010	N/A	0.0010	mg/L	2026-02-23	
Chloroform	<b>0.0330</b>	N/A	0.0010	mg/L	2026-02-23	
Dibromochloromethane	< 0.0010	N/A	0.0010	mg/L	2026-02-23	
Surrogate: Toluene-d8	98		70-130	%	2026-02-23	
Surrogate: 4-Bromofluorobenzene	87		70-130	%	2026-02-23	

**MCIVER SS (26B1861-02) | Matrix: Drinking Water | Sampled: 2026-02-17 11:15**

**Calculated Parameters**

Total Trihalomethanes	<b>0.0516</b>	MAC = 0.1	0.00400	mg/L	N/A	
Hardness, Total (as CaCO3)	<b>46.6</b>	None Required	0.500	mg/L	N/A	
Langelier Index	<b>-0.8</b>	N/A	-5.0		2026-02-24	CT9



## TEST RESULTS

**REPORTED TO PROJECT** West Kelowna, City of  
Powers Creek Water Service Area - General

**WORK ORDER REPORTED** 26B1861  
2026-02-26 13:27

Analyte	Result	Guideline	RL Units	Analyzed	Qualifier
<b>MCIVER SS (26B1861-02)   Matrix: Drinking Water   Sampled: 2026-02-17 11:15, Continued</b>					
<b>Field Parameters</b>					
Chlorine, Free	0.44	N/A	0.02 mg/L	2026-02-17	
pH	7.9	7.0-10.5	0.1 pH units	2026-02-17	
Turbidity	< 0.10	OG < 1	0.10 NTU	2026-02-17	
<b>General Parameters</b>					
Alkalinity, Total (as CaCO3)	51.2	N/A	1.0 mg/L	2026-02-18	
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	N/A	1.0 mg/L	2026-02-18	
Alkalinity, Bicarbonate (as CaCO3)	51.2	N/A	1.0 mg/L	2026-02-18	
Alkalinity, Carbonate (as CaCO3)	< 1.0	N/A	1.0 mg/L	2026-02-18	
Alkalinity, Hydroxide (as CaCO3)	< 1.0	N/A	1.0 mg/L	2026-02-18	
Carbon, Total Organic	3.80	N/A	0.50 mg/L	2026-02-19	
Solids, Total Dissolved	75	AO ≤ 500	15 mg/L	2026-02-23	
Temperature, at pH	21.8	N/A	°C	2026-02-18	HT2
<b>Haloacetic Acids</b>					
Monochloroacetic Acid	< 0.0030	N/A	0.0020 mg/L	2026-02-26	RA3
Monobromoacetic Acid	< 0.0020	N/A	0.0020 mg/L	2026-02-26	
Dichloroacetic Acid	0.0140	N/A	0.0020 mg/L	2026-02-26	
Trichloroacetic Acid	0.0169	N/A	0.0020 mg/L	2026-02-26	
Dibromoacetic Acid	< 0.0020	N/A	0.0020 mg/L	2026-02-26	
Total Haloacetic Acids (HAA5)	0.0310	MAC = 0.08	0.00300 mg/L	N/A	
Surrogate: 2-Bromopropionic Acid	126		70-130 %	2026-02-26	
<b>Microbiological Parameters</b>					
Coliforms, Total	< 1	MAC = 0	1 CFU/100 mL	2026-02-18	
E. coli	< 1	MAC = 0	1 CFU/100 mL	2026-02-18	
<b>Total Metals</b>					
Aluminum, total	0.0163	OG < 0.1	0.0050 mg/L	2026-02-19	
Antimony, total	< 0.00020	MAC = 0.006	0.00020 mg/L	2026-02-19	
Arsenic, total	< 0.00050	MAC = 0.01	0.00050 mg/L	2026-02-19	
Barium, total	0.0105	MAC = 2	0.0050 mg/L	2026-02-19	
Beryllium, total	< 0.00010	N/A	0.00010 mg/L	2026-02-19	
Bismuth, total	< 0.00010	N/A	0.00010 mg/L	2026-02-19	
Boron, total	< 0.0500	MAC = 5	0.0500 mg/L	2026-02-19	
Cadmium, total	< 0.000010	MAC = 0.007	0.000010 mg/L	2026-02-19	
Calcium, total	14.6	None Required	0.20 mg/L	2026-02-19	
Chromium, total	< 0.00050	MAC = 0.05	0.00050 mg/L	2026-02-19	
Cobalt, total	< 0.00010	N/A	0.00010 mg/L	2026-02-19	
Copper, total	0.00109	MAC = 2	0.00040 mg/L	2026-02-19	
Iron, total	< 0.010	AO ≤ 0.1	0.010 mg/L	2026-02-19	
Lead, total	< 0.00020	MAC = 0.005	0.00020 mg/L	2026-02-19	
Lithium, total	0.00096	N/A	0.00010 mg/L	2026-02-19	
Magnesium, total	2.46	None Required	0.010 mg/L	2026-02-19	



## TEST RESULTS

REPORTED TO PROJECT West Kelowna, City of Powers Creek Water Service Area - General

WORK ORDER REPORTED 26B1861 2026-02-26 13:27

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
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**MCIVER SS (26B1861-02) | Matrix: Drinking Water | Sampled: 2026-02-17 11:15, Continued**

**Total Metals, Continued**

Manganese, total	0.00214	MAC = 0.12	0.00020	mg/L	2026-02-19	
Molybdenum, total	0.00076	N/A	0.00010	mg/L	2026-02-19	
Nickel, total	< 0.00040	N/A	0.00040	mg/L	2026-02-19	
Phosphorus, total	< 0.050	N/A	0.050	mg/L	2026-02-19	
Potassium, total	0.97	N/A	0.10	mg/L	2026-02-19	
Selenium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2026-02-19	
Silicon, total	7.9	N/A	1.0	mg/L	2026-02-19	
Silver, total	< 0.000050	None Required	0.000050	mg/L	2026-02-19	
Sodium, total	9.61	AO ≤ 200	0.10	mg/L	2026-02-19	
Strontium, total	0.0512	MAC = 7	0.0010	mg/L	2026-02-19	
Sulfur, total	< 3.0	N/A	3.0	mg/L	2026-02-19	
Tellurium, total	< 0.00050	N/A	0.00050	mg/L	2026-02-19	
Thallium, total	< 0.000020	N/A	0.000020	mg/L	2026-02-19	
Thorium, total	< 0.00010	N/A	0.00010	mg/L	2026-02-19	
Tin, total	< 0.00020	N/A	0.00020	mg/L	2026-02-19	
Titanium, total	< 0.0050	N/A	0.0050	mg/L	2026-02-19	
Tungsten, total	< 0.0010	N/A	0.0010	mg/L	2026-02-19	
Uranium, total	< 0.000020	MAC = 0.02	0.000020	mg/L	2026-02-19	
Vanadium, total	< 0.0050	N/A	0.0050	mg/L	2026-02-19	
Zinc, total	< 0.0040	AO ≤ 5	0.0040	mg/L	2026-02-19	
Zirconium, total	< 0.00010	N/A	0.00010	mg/L	2026-02-19	

**Volatile Organic Compounds (VOC)**

Bromodichloromethane	0.0023	N/A	0.0010	mg/L	2026-02-23	
Bromoform	< 0.0010	N/A	0.0010	mg/L	2026-02-23	
Chloroform	0.0493	N/A	0.0010	mg/L	2026-02-23	
Dibromochloromethane	< 0.0010	N/A	0.0010	mg/L	2026-02-23	
Surrogate: Toluene-d8	97		70-130	%	2026-02-23	
Surrogate: 4-Bromofluorobenzene	89		70-130	%	2026-02-23	

**END OF LINE WQS (26B1861-03) | Matrix: Drinking Water | Sampled: 2026-02-17 10:50**

**Calculated Parameters**

Total Trihalomethanes	0.0483	MAC = 0.1	0.00400	mg/L	N/A	
Hardness, Total (as CaCO3)	48.3	None Required	0.500	mg/L	N/A	
Langelier Index	-0.9	N/A	-5.0		2026-02-24	CT9

**Field Parameters**

Chlorine, Free	0.57	N/A	0.02	mg/L	2026-02-17	
pH	7.7	7.0-10.5	0.1	pH units	2026-02-17	
Turbidity	< 0.10	OG < 1	0.10	NTU	2026-02-17	

**General Parameters**

Alkalinity, Total (as CaCO3)	53.7	N/A	1.0	mg/L	2026-02-18	
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## TEST RESULTS

**REPORTED TO PROJECT** West Kelowna, City of  
Powers Creek Water Service Area - General

**WORK ORDER REPORTED** 26B1861  
2026-02-26 13:27

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
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**END OF LINE WQS (26B1861-03) | Matrix: Drinking Water | Sampled: 2026-02-17 10:50, Continued**

**General Parameters, Continued**

Alkalinity, Phenolphthalein (as CaCO <sub>3</sub> )	< 1.0	N/A	1.0	mg/L	2026-02-18	
Alkalinity, Bicarbonate (as CaCO <sub>3</sub> )	53.7	N/A	1.0	mg/L	2026-02-18	
Alkalinity, Carbonate (as CaCO <sub>3</sub> )	< 1.0	N/A	1.0	mg/L	2026-02-18	
Alkalinity, Hydroxide (as CaCO <sub>3</sub> )	< 1.0	N/A	1.0	mg/L	2026-02-18	
Carbon, Total Organic	3.37	N/A	0.50	mg/L	2026-02-19	
Solids, Total Dissolved	78	AO ≤ 500	15	mg/L	2026-02-23	
Temperature, at pH	21.7	N/A		°C	2026-02-18	HT2

**Haloacetic Acids**

Monochloroacetic Acid	< 0.0030	N/A	0.0020	mg/L	2026-02-26	RA3
Monobromoacetic Acid	< 0.0020	N/A	0.0020	mg/L	2026-02-26	
Dichloroacetic Acid	0.0111	N/A	0.0020	mg/L	2026-02-26	
Trichloroacetic Acid	0.0138	N/A	0.0020	mg/L	2026-02-26	
Dibromoacetic Acid	< 0.0020	N/A	0.0020	mg/L	2026-02-26	
Total Haloacetic Acids (HAA5)	0.0248	MAC = 0.08	0.00300	mg/L	N/A	
Surrogate: 2-Bromopropionic Acid	117		70-130	%	2026-02-26	

**Microbiological Parameters**

Coliforms, Total	< 1	MAC = 0	1	CFU/100 mL	2026-02-18	
E. coli	< 1	MAC = 0	1	CFU/100 mL	2026-02-18	

**Total Metals**

Aluminum, total	0.0155	OG < 0.1	0.0050	mg/L	2026-02-19	
Antimony, total	< 0.00020	MAC = 0.006	0.00020	mg/L	2026-02-19	
Arsenic, total	< 0.00050	MAC = 0.01	0.00050	mg/L	2026-02-19	
Barium, total	0.0102	MAC = 2	0.0050	mg/L	2026-02-19	
Beryllium, total	< 0.00010	N/A	0.00010	mg/L	2026-02-19	
Bismuth, total	< 0.00010	N/A	0.00010	mg/L	2026-02-19	
Boron, total	< 0.0500	MAC = 5	0.0500	mg/L	2026-02-19	
Cadmium, total	< 0.000010	MAC = 0.007	0.000010	mg/L	2026-02-19	
Calcium, total	15.3	None Required	0.20	mg/L	2026-02-19	
Chromium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2026-02-19	
Cobalt, total	< 0.00010	N/A	0.00010	mg/L	2026-02-19	
Copper, total	0.00287	MAC = 2	0.00040	mg/L	2026-02-19	
Iron, total	< 0.010	AO ≤ 0.1	0.010	mg/L	2026-02-19	
Lead, total	0.00044	MAC = 0.005	0.00020	mg/L	2026-02-19	
Lithium, total	0.00096	N/A	0.00010	mg/L	2026-02-19	
Magnesium, total	2.45	None Required	0.010	mg/L	2026-02-19	
Manganese, total	0.00086	MAC = 0.12	0.00020	mg/L	2026-02-19	
Molybdenum, total	0.00080	N/A	0.00010	mg/L	2026-02-19	
Nickel, total	< 0.00040	N/A	0.00040	mg/L	2026-02-19	
Phosphorus, total	< 0.050	N/A	0.050	mg/L	2026-02-19	
Potassium, total	0.98	N/A	0.10	mg/L	2026-02-19	
Selenium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2026-02-19	



## TEST RESULTS

**REPORTED TO PROJECT** West Kelowna, City of  
Powers Creek Water Service Area - General

**WORK ORDER REPORTED** 26B1861  
2026-02-26 13:27

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
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**END OF LINE WQS (26B1861-03) | Matrix: Drinking Water | Sampled: 2026-02-17 10:50, Continued**

**Total Metals, Continued**

Silicon, total	8.1	N/A	1.0	mg/L	2026-02-19	
Silver, total	< 0.000050	None Required	0.000050	mg/L	2026-02-19	
Sodium, total	9.69	AO ≤ 200	0.10	mg/L	2026-02-19	
Strontium, total	0.0533	MAC = 7	0.0010	mg/L	2026-02-19	
Sulfur, total	< 3.0	N/A	3.0	mg/L	2026-02-19	
Tellurium, total	< 0.00050	N/A	0.00050	mg/L	2026-02-19	
Thallium, total	< 0.000020	N/A	0.000020	mg/L	2026-02-19	
Thorium, total	< 0.00010	N/A	0.00010	mg/L	2026-02-19	
Tin, total	< 0.00020	N/A	0.00020	mg/L	2026-02-19	
Titanium, total	< 0.0050	N/A	0.0050	mg/L	2026-02-19	
Tungsten, total	< 0.0010	N/A	0.0010	mg/L	2026-02-19	
Uranium, total	< 0.000020	MAC = 0.02	0.000020	mg/L	2026-02-19	
Vanadium, total	< 0.0050	N/A	0.0050	mg/L	2026-02-19	
Zinc, total	< 0.0040	AO ≤ 5	0.0040	mg/L	2026-02-19	
Zirconium, total	< 0.00010	N/A	0.00010	mg/L	2026-02-19	

**Volatile Organic Compounds (VOC)**

Bromodichloromethane	0.0019	N/A	0.0010	mg/L	2026-02-23	
Bromoform	< 0.0010	N/A	0.0010	mg/L	2026-02-23	
Chloroform	0.0464	N/A	0.0010	mg/L	2026-02-23	
Dibromochloromethane	< 0.0010	N/A	0.0010	mg/L	2026-02-23	
Surrogate: Toluene-d8	89		70-130	%	2026-02-23	
Surrogate: 4-Bromofluorobenzene	84		70-130	%	2026-02-23	

**BULK WATER STN (26B1861-04) | Matrix: Drinking Water | Sampled: 2026-02-17 12:25**

**Calculated Parameters**

Total Trihalomethanes	0.0450	MAC = 0.1	0.00400	mg/L	N/A	
Hardness, Total (as CaCO3)	47.0	None Required	0.500	mg/L	N/A	
Langelier Index	-0.7	N/A	-5.0		2026-02-24	CT9

**Field Parameters**

Chlorine, Free	0.58	N/A	0.02	mg/L	2026-02-17	
pH	8.0	7.0-10.5	0.1	pH units	2026-02-17	
Turbidity	0.11	OG < 1	0.10	NTU	2026-02-17	

**General Parameters**

Alkalinity, Total (as CaCO3)	49.5	N/A	1.0	mg/L	2026-02-18	
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	N/A	1.0	mg/L	2026-02-18	
Alkalinity, Bicarbonate (as CaCO3)	49.5	N/A	1.0	mg/L	2026-02-18	
Alkalinity, Carbonate (as CaCO3)	< 1.0	N/A	1.0	mg/L	2026-02-18	
Alkalinity, Hydroxide (as CaCO3)	< 1.0	N/A	1.0	mg/L	2026-02-18	
Carbon, Total Organic	3.67	N/A	0.50	mg/L	2026-02-19	
Solids, Total Dissolved	84	AO ≤ 500	15	mg/L	2026-02-23	



## TEST RESULTS

**REPORTED TO PROJECT** West Kelowna, City of  
Powers Creek Water Service Area - General

**WORK ORDER REPORTED** 26B1861  
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Analyte	Result	Guideline	RL Units	Analyzed	Qualifier
<b>BULK WATER STN (26B1861-04)   Matrix: Drinking Water   Sampled: 2026-02-17 12:25, Continued</b>					
<i>General Parameters, Continued</i>					
Temperature, at pH	21.7	N/A	°C	2026-02-18	HT2
<i>Haloacetic Acids</i>					
Monochloroacetic Acid	< 0.0030	N/A	0.0020 mg/L	2026-02-26	RA3
Monobromoacetic Acid	< 0.0020	N/A	0.0020 mg/L	2026-02-26	
Dichloroacetic Acid	0.0118	N/A	0.0020 mg/L	2026-02-26	
Trichloroacetic Acid	0.0151	N/A	0.0020 mg/L	2026-02-26	
Dibromoacetic Acid	< 0.0020	N/A	0.0020 mg/L	2026-02-26	
Total Haloacetic Acids (HAA5)	0.0268	MAC = 0.08	0.00300 mg/L	N/A	
<i>Microbiological Parameters</i>					
Coliforms, Total	< 1	MAC = 0	1 CFU/100 mL	2026-02-18	
E. coli	< 1	MAC = 0	1 CFU/100 mL	2026-02-18	
<i>Total Metals</i>					
Aluminum, total	0.0153	OG < 0.1	0.0050 mg/L	2026-02-19	
Antimony, total	< 0.00020	MAC = 0.006	0.00020 mg/L	2026-02-19	
Arsenic, total	< 0.00050	MAC = 0.01	0.00050 mg/L	2026-02-19	
Barium, total	0.0104	MAC = 2	0.0050 mg/L	2026-02-19	
Beryllium, total	< 0.00010	N/A	0.00010 mg/L	2026-02-19	
Bismuth, total	< 0.00010	N/A	0.00010 mg/L	2026-02-19	
Boron, total	< 0.0500	MAC = 5	0.0500 mg/L	2026-02-19	
Cadmium, total	< 0.000010	MAC = 0.007	0.000010 mg/L	2026-02-19	
Calcium, total	14.6	None Required	0.20 mg/L	2026-02-19	
Chromium, total	< 0.00050	MAC = 0.05	0.00050 mg/L	2026-02-19	
Cobalt, total	< 0.00010	N/A	0.00010 mg/L	2026-02-19	
Copper, total	0.00046	MAC = 2	0.00040 mg/L	2026-02-19	
Iron, total	< 0.010	AO ≤ 0.1	0.010 mg/L	2026-02-19	
Lead, total	0.00023	MAC = 0.005	0.00020 mg/L	2026-02-19	
Lithium, total	0.00094	N/A	0.00010 mg/L	2026-02-19	
Magnesium, total	2.51	None Required	0.010 mg/L	2026-02-19	
Manganese, total	0.00225	MAC = 0.12	0.00020 mg/L	2026-02-19	
Molybdenum, total	0.00079	N/A	0.00010 mg/L	2026-02-19	
Nickel, total	0.00046	N/A	0.00040 mg/L	2026-02-19	
Phosphorus, total	< 0.050	N/A	0.050 mg/L	2026-02-19	
Potassium, total	0.94	N/A	0.10 mg/L	2026-02-19	
Selenium, total	< 0.00050	MAC = 0.05	0.00050 mg/L	2026-02-19	
Silicon, total	7.9	N/A	1.0 mg/L	2026-02-19	
Silver, total	< 0.000050	None Required	0.000050 mg/L	2026-02-19	
Sodium, total	9.29	AO ≤ 200	0.10 mg/L	2026-02-19	
Strontium, total	0.0519	MAC = 7	0.0010 mg/L	2026-02-19	
Sulfur, total	< 3.0	N/A	3.0 mg/L	2026-02-19	
Tellurium, total	< 0.00050	N/A	0.00050 mg/L	2026-02-19	
Thallium, total	< 0.000020	N/A	0.000020 mg/L	2026-02-19	



## TEST RESULTS

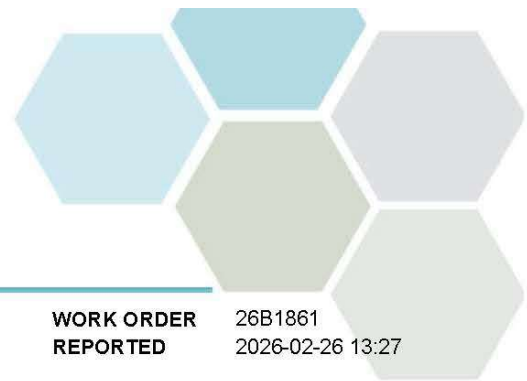
**REPORTED TO PROJECT** West Kelowna, City of  
Powers Creek Water Service Area - General

**WORK ORDER REPORTED** 26B1861  
2026-02-26 13:27

Analyte	Result	Guideline	RL Units	Analyzed	Qualifier
<b>BULK WATER STN (26B1861-04)   Matrix: Drinking Water   Sampled: 2026-02-17 12:25, Continued</b>					
<i>Total Metals, Continued</i>					
Thorium, total	< 0.00010	N/A	0.00010 mg/L	2026-02-19	
Tin, total	< 0.00020	N/A	0.00020 mg/L	2026-02-19	
Titanium, total	< 0.0050	N/A	0.0050 mg/L	2026-02-19	
Tungsten, total	< 0.0010	N/A	0.0010 mg/L	2026-02-19	
Uranium, total	< 0.000020	MAC = 0.02	0.000020 mg/L	2026-02-19	
Vanadium, total	< 0.0050	N/A	0.0050 mg/L	2026-02-19	
Zinc, total	< 0.0040	AO ≤ 5	0.0040 mg/L	2026-02-19	
Zirconium, total	< 0.00010	N/A	0.00010 mg/L	2026-02-19	
<i>Volatile Organic Compounds (VOC)</i>					
Bromodichloromethane	<b>0.0018</b>	N/A	0.0010 mg/L	2026-02-24	
Bromoform	< 0.0010	N/A	0.0010 mg/L	2026-02-24	
Chloroform	<b>0.0432</b>	N/A	0.0010 mg/L	2026-02-24	
Dibromochloromethane	< 0.0010	N/A	0.0010 mg/L	2026-02-24	
Surrogate: Toluene-d8	101		70-130 %	2026-02-24	
Surrogate: 4-Bromofluorobenzene	91		70-130 %	2026-02-24	

**Sample Qualifiers:**

CT9 Results were based on lab temperature.  
 HT2 The 15 minute recommended holding time (from sampling to analysis) has been exceeded - field analysis is recommended.  
 RA3 The Reporting Limit has been raised due to comparable level detected in the blank(s).



## APPENDIX 1: SUPPORTING INFORMATION

**REPORTED TO PROJECT** West Kelowna, City of  
Powers Creek Water Service Area - General

**WORK ORDER REPORTED** 26B1861  
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Analysis Description	Method Ref.	Technique	Accredited	Location
Alkalinity in Water	SM 2320 B* (2021)	Titration with H2SO4	✓	Kelowna
Ammonia, Total in Water	SM 4500-NH3 G* (2021)	Automated Colorimetry (Phenate)	✓	Kelowna
Carbon, Total Organic in Water	SM 5310 B (2022)	Combustion, Infrared CO2 Detection	✓	Kelowna
Coliforms, Total in Water	SM 9222* (2015)	Membrane Filtration / Chromocult Agar	✓	Kelowna
E. coli in Water	SM 9222* (2015)	Membrane Filtration / Chromocult Agar	✓	Kelowna
Haloacetic Acids in Water	EPA 552.3*	Liquid-Liquid Microextraction, Derivatization and GC-ECD	✓	Richmond
Hardness in Water	SM 2340 B* (2021)	Calculation: 2.497 [total Ca] + 4.118 [total Mg] (Est)	✓	N/A
Langelier Index in Water	SM 2330 B (2021)	Calculation		N/A
Nitrogen, Total Kjeldahl in Water	SM 4500-Norg D* (2021)	Block Digestion and Flow Injection Analysis	✓	Kelowna
Solids, Total Dissolved in Water	Solids in Water, Filtered / SM 2540 C* (2020)	Solids in Water, Filtered / Gravimetry (Dried at 103-105C)	✓	Kelowna
Total Metals in Water	EPA 200.2 / EPA 6020B	HNO3+HCl Hot Block Digestion / Inductively Coupled Plasma-Mass Spectroscopy (ICP-MS)	✓	Richmond
Trihalomethanes in Water	EPA 5030B / EPA 8260D	Purge&Trap / GC-MSD (SIM)	✓	Richmond

*Note: An asterisk in the Method Reference indicates that the method has been modified from the reference method*

### Glossary of Terms:

RL	Reporting Limit (default)
<	Less than the specified Reporting Limit (RL) - the actual RL may be higher than the default RL due to various factors
°C	Degrees Celcius
AO	Aesthetic Objective
CFU/100 mL	Colony Forming Units per 100 millilitres
MAC	Maximum Acceptable Concentration (health based)
mg/L	Milligrams per litre
NTU	Nephelometric Turbidity Units
OG	Operational Guideline (treated water)
pH units	pH < 7 = acidic, pH > 7 = basic
EPA	United States Environmental Protection Agency Test Methods
SM	Standard Methods for the Examination of Water and Wastewater, American Public Health Association



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**REPORTED TO** West Kelowna, City of  
**PROJECT** Powers Creek Water Service Area - General

**WORK ORDER** 26B1861  
**REPORTED** 2026-02-26 13:27

**General Comments:**

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Results in **Bold** indicate values that are above CARO's method reporting limits. Results in **red** indicate values above the regulatory limits where these have been included. Any Bold and/or highlighted results do not take into account method uncertainty. If you would like method uncertainty or regulatory limits to be included on your report, please contact your Account Manager: [hhannaoui@caro.ca](mailto:hhannaoui@caro.ca)

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