EDMONTON WATERWORKS MONTHLY REPORT

July 2025

PROVIDING MORE

TABLE OF CONTENTS

1.0 OPERATIONS AND MAINTENANCE

1.1 HIGHLIGHTS

1.1.1 Operations, Rossdale & E.L. Smith Plants
1.1.2 Edmonton Incident Report Summary
1.1.3 Alberta Environmental Protection Operator Licenses

1.2 OPERATIONS SUMMARY

1.2.1 Raw Water Intake Report
1.2.2 Treated Water Production Report
1.2.3 Raw Water Quality – North Saskatchewan River Report
1.2.4 Treated Water Quality Entering the Distribution System Report
1.2.5 Rossdale Filters1 – 9 Particle Counts Report
1.2.6 E.L. Smith Filters 1 – 9 Particle Counts Report
1.2.7 E.L. Smith Filters 10 – 18 Particle Counts Report
1.2.8 Rossdale Filters 1 – 9 Turbidity Report
1.2.9 E.L. Smith Filters 1 – 9 Turbidity Report
1.2.10 E.L. Smith Filters 10 – 18 Turbidity Report
1.2.11 Combined Filter Effluent Water Quality Report
1.2.12 Rossdale UV Disinfection – Filters 1 – 3 Report
1.2.13 Rossdale UV Disinfection – Filters 4 – 6 Report
1.2.14 Rossdale UV Disinfection – Filters 7 – 9 Report
1.2.15 E.L. Smith UV Disinfection – UV Reactors 1 – 4 Report
1.2.16 Log Removal Report
1.2.17 Liquid Alum Chemical Consumption Report
1.2.18 Primary Polymer (Magnafloc LT 27AG) Chemical Consumption Report
1.2.19 Carbon Chemical Consumption Report
1.2.20 Sodium Hypochlorite Chemical Consumption Report
1.2.21 Filter Polymer (Magnafloc LT 7981) Chemical Consumption Report
1.2.22 Aqua Ammonia Chemical Consumption Report
1.2.22-1 LAS Ammonia Chemical Consumption Report
1.2.23 Caustic Soda Chemical Consumption Report
1.2.24 Fluoride Chemical Consumption Report
1.2.25 Sodium Bisulfite (SBS) Chemical Consumption Report
1.2.26 Rossdale Waste Stream Data Report
1.2.27 E.L. Smith Waste Stream Data Report
1.2.28 Demand/Production Statistics (Estimated HLP Flow)
1.2.29 Reservoir Chlorine Residual (mg/L) Part 1
1.2.30 Reservoir Chlorine Residual (mg/L) Part 2
1.2.31 Orthophosphate (Phosphoric Acid) Chemical Consumption Report
1.2.32 Summary of Mainbreaks Report

2.0 WATER QUALITY

2.1 HIGHLIGHTS

2.1.1 Summary of Major Chemical, Microbiological and Physical Parameters
2.1.2 Explanation of Notations Used
2.1.3 Notes on Water Quality

2.2 SUMMARY OF ANALYSES PERFORMED

2.2.1 Bacteriological Data: Water Treatment Plants
2.2.2 Bacteriological Data: Distribution System
2.2.3 Protozoa Data
2.2.4 Treated Water Entering the Distribution System
2.2.5 Treated Water Entering the Plant Reservoir
2.2.6 Routine Distribution System
2.2.7 Water Quality Complaint Investigations
2.2.8 Castledowns Reservoir
2.2.9 Clareview Reservoir
2.2.10 Discovery Park Reservoir
2.2.11 Kaskitayo Reservoir
2.2.12 Londonderry Reservoir
2.2.13 Millwoods Reservoir
2.2.14 North Jasper Place Reservoir
2.2.15 Ormsby Reservoir
2.2.16 Papaschase 1 Reservoir
2.2.17 Papaschase 2 Reservoir
2.2.18 Rosslyn 1 Reservoir
2.2.19 Rosslyn 2 Reservoir
2.2.20 Thorncliff Reservoir
2.2.21 Raw River Water

1.1.1 Operations – Rossdale and E.L. Smith Plants

Plant Bypasses

The number of bypasses shown on Table 1.2.26 “Rossdale Waste Stream Data” and Table 1.2.27 “E.L. Smith Waste Stream Data” include both planned and unplanned bypasses. A planned bypass is any bypass that is planned for a minimum of one day ahead of the actual bypass. All other bypasses are considered unplanned.

In July, Rossdale Plant had 1 unplanned bypass and 1 planned shutdown.

Date	Type	Bypass Description
July 25	Unplanned	4.1-hour bypass due to power failure
July 25	Unplanned	0.67-hour shutdown due to power failure

In July, E.L. Smith Plant had 1 planned shutdown and no bypasses.

Date	Type	Bypass Description
July 10	Planned	4-hour shutdown due to maintenance work

Clarifier Blowdown Volume

- The clarifier blowdown volume shown on Table 1.2.26 and Table 1.2.27 include estimated plant leakage.

Dechlorination Highlights

- During the month of July, there were zero instances of chlorinated waste released at the outfall structure at Rossdale Water Treatment Plant.
- During the month of July, there were zero instances of chlorinated waste released at the outfall structure at E.L. Smith Water Treatment Plant.
- On July 2nd, due to an operational issue, a small amount of filter flow was sent to reservoir without UV treatment. Flow from Filter 7 was minimal at the time, in the order of 0.03 ML over 2 minutes.

Chemical Dosing Highlights

In July, Rossdale and E.L. Smith Water Treatment Plants did not exceed the Maximum Use in the Standard 60, published by the National Sanitation Foundation and the American National Sanitation Standards Institute (NSF/ANSI) for Alum or Caustic Soda.

Chemicals Used for the Month

CHEMICAL NAME	MANUFACTURER
Aluminum Sulfate 48.5%	Chemtrade
Aqua Ammonia 19%	Univar
Caustic Soda 50%	Chemtrade
Hydrofluorosilicic Acid 25%	Nutrien
Magnafloc LT27AG / Praestol DW27AG	Solenis
Magnafloc LT-7995	Solenis
Phosphoric Acid 75%	Innophos
Sodium Hypochlorite 12%	Univar
Liquid Ammonium Sulphate 41%	Umicore Canada Inc
Salt	Windsor
Sodium Bisulphite 38%	Chemtrade

ENV-1.1.2 EDMONTON INCIDENT REPORT SUMMARY – July 2025

EPCOR Incident Number	Description	Date of Incident	AEPA Reference Number
ENV-20250706-595674-v1	About 82 m^3 of potable chlorinated water at +/-1.5ppm was released to the surface due to a suspected leak within the water distribution system buried underground. The water drained to the nearby catch basin. Dechlorination pucks were placed in the path of water and the water entry point into the drainage infrastructure to dechlorinate the water. The leak was isolated until the repair was completed.	July 5, 2025	442624
ENV-20250715-795625	EPCOR employee conducted post-construction water quality sampling at customer's property for commissioning of a recent lead water service renewal July 10, 2025. Sample was sent to EPCOR lab for processing. On July 12, the sample returned positive result for total Coliform. Customer and AEPA were immediately notified and EPCOR field crew dispatched to flush and resample July 12. Reference number 442904 was issued. Resampling was conducted upstream, downstream, and at original sampling point, and samples were sent to EPCOR lab for immediate processing. Lab results were good and met all water quality parameters.	July 12, 2025	442904
ENV-20250716-654848-v1	About 75 m^3 of potable chlorinated water at +/-1.5ppm was released to the surface due to a suspected leak within the water distribution system buried underground. The water drained to the nearby catch basin. Dechlorination pucks were placed in the path of water and the water entry point into the drainage infrastructure to dechlorinate the water. The leak was isolated until the repair was completed.	July 16, 2025	443045
ENV-20250717-491854-v1	About 27 m^3 of potable chlorinated water at +/-1.5ppm was released to the surface due to a suspected leak within the water distribution system buried underground. The water drained to the nearby catch basin. Dechlorination pucks were placed in the path of water and the water entry point into the drainage infrastructure to dechlorinate the water. The leak was isolated until the repair was completed.	July 17, 2025	443087

ENV-1.1.2 EDMONTON INCIDENT REPORT SUMMARY – July 2025

ENV-20250724-470713-v1	About 267 m^3 of potable chlorinated water at +/-1.5ppm was released to the surface due to a suspected leak within the water distribution system buried underground. The water drained to the nearby catch basin. Dechlorination pucks were placed in the path of water and the water entry point into the drainage infrastructure to dechlorinate the water. The leak was isolated until the repair was completed.	July 24, 2025	443374

1.1.3 Alberta Environment Operator Certifications

Operator Contact Number: EPCOR Water Services Dispatch (24 hr) (780) 412-4500

ROSSDALE WATER TREATMENT PLANT (LEVEL IV)	
Director, Edmonton Water Treatment Plants	
Senior Manager, Operations	**WT II**
Manager, Operations	**WT III, WWT III**
Title	Alberta Environment Certification Level
Operations Engineer in Training	
Manager, Transmission Operations & Training	WT III
Operator Foreman	WT IV
HEI Foreman	WT IV
Operator Foreman	WT IV
Operator Foreman	WT IV
Operator Foreman	WT IV
Operator Foreman	WT IV
Transmission Foreman	WT III
Training Foreman	WT III
Lead Operator	WT II
Transmisison Operator	WT III
Water Operator	WT II
Lead Operator	WT II
Water Operator	WT III
Water Operator	WT III
Operations Trainer	WT III
Day Foreman	WT IV
Lead Operator	WT II
Operator Foreman	WT III
Water Operator	WT III
Water Operator	WT III
Water Operator	WT III
Lead Operator	WT III
Water Operator	WT III, WD II
Water Operator	WT III, WWT III
Water Operator	WT II
Water Operator	WT II, WD II, WWT II, WWC II
Water Operator	WT II, WD I
Water Operator	WT II, WD II, WWT I, WWC II
Water Operator	WT I, WD I, WWT I, WWC I
Water Operator	Non-certified

1.1.3 Alberta Environment Operator Certifications

Operator Contact Number: EPCOR Water Services Dispatch (24 hr) (780) 412-4500

E.L. SMITH TREATMENT PLANT (LEVEL IV)	
Director, Edmonton Water Treatment Plants	
Senior Manager, Operations	**WT II**
Manager, Operations	
Title	Alberta Environment Certification Level
Operations Engineer	
Operations Engineer	WWC I
Day Foreman	WT IV
HEI Foreman	WT IV
Training Foreman	WT IV
Operator Foreman	WT IV
Operator Foreman	WT IV
Operator Foreman	WT III
Operator Foreman	WT IV
Operator Foreman	WT IV
Lead Operator	WT IV
Lead Operator	WT IV
Lead Operator	WT II
Lead Operator	WT III
Lead Operator	WT III
Lead Operator	WT II, WD II, WWT I, WWC I
Water Operator	WT III
Water Operator	WT III, WWT II,
Water Operator	WT III
Water Operator	WT III, WWT III
Water Operator	WT III
Water Operator	WT II, WD I, WWT II, WWC I

1.1.3 Alberta Environment Operator Certifications

Operator Contact Number: EPCOR Water Services Dispatch (24 hr) (780) 412-4500

DISTRIBUTION SYSTEM (LEVEL IV FACILITY)

WATER DISTRIBUTION (WD) - NETWORK MAINTENANCE

Senior Manager, Maintenance and Construction

Manager, Distribution Maintenance

Manager, Dist. Maint Schedule

Title	Alberta Environment Certification Level
Water Network Operator	WD IV WWC I
Water Network Operator	WD IV
Foreman III	WD III
Foreman III	WD III
Foreman III	WD III
Foreman III	WD III
Foreman III	WD II
Foreman I	WD III WWC I
Foreman I	WD III
Foreman I	WD IV
Foreman I	WD II
Foreman I	WD II
Foreman I	WD II
Foreman I	WD II
Foreman I	WD II
Foreman I	WD II
Foreman I	WD III
Foreman I	WD II
Foreman I	WD II
Foreman I	WD II
Foreman I	WD II
Equipment Operator III	WD II
Equipment Operator III	WD I
Equipment Operator III	WD II
Equipment Operator III	WD I
Equipment Operator III	WD II
Equipment Operator III	WD I
Equipment Operator III	WD I
Equipment Operator III	WD II
Equipment Operator III	WD II
Equipment Operator III	WD II
Equipment Operator III	WD II
Equipment Operator III	WD I
Equipment Operator III	WD II
Equipment Operator III	WD II
Labourer II	WD II
Labourer II	WD I
Labourer II	WD I
Labourer II	WD I
Labourer III	WD III
Labourer II	WD I
Labourer III	WD I
Labourer II	WD I

Labourer II	WD I

1.1.3 Alberta Environment Operator Certifications

Operator Contact Number: EPCOR Water Services Dispatch (24 hr) (780) 412-4500

DISTRIBUTION SYSTEM (LEVEL IV FACILITY)
WATER DISTRIBUTION (WD) - NETWORK MAINTENANCE

Senior Manager, Maintenance and Construction
Manager, Maintenance and Construction
Manager, Dist. Maint Scheduling

Title	Alberta Environment Certification Level
Truck Driver III	WD I
Labourer II	WD I
Labourer II	WD I
Labourer II	WD I WWC I
Labourer II	WD I WWC I WT I WWT I
Truck Driver III	WD II
Labourer II	WD II
Truck Driver III	WD II
Truck Driver III	WD II
Truck Driver III	WD I
Truck Driver III	WD I
Welder	WD II
Maintenance Repairman I	WD II
Maintenance Repairman I	WD I
Maintenance Repairman I	WD I
Labourer II	WD I
Foreman I	WD I
Water Sys Tech Support Specialist	WD IV

1.1.3 Alberta Environment Operator Certifications

Operator Contact Number: EPCOR Water Services Dispatch (24 hr) (780) 412-4500

DISTRIBUTION SYSTEM (LEVEL IV FACILITY)
WATER DISTRIBUTION (WD) - FIELD OPERATIONS

Senior Manager, Distribution Operations	
Manager, Field Operations	
Manager, Metering and Preventative Maintenance	**WD I**
Manager, Water Trouble	**WD III**
Title	Alberta Environment Certification Level
Foreman III	WD IV
Foreman III	WD IV
Foreman I	WD II
Foreman I	WD II
Labourer III	WD II
Labourer III	WD I
Labourer III	WD I
Labourer III	WD II
Labourer III	WD I
Foreman I	WD I
Labourer III	WD III
Labourer II	WD I
Labourer II	WD II
Labourer II	WD I
Foreman I	WD II
Labourer II	WD I
Labourer III	WD II
Labourer II	WD II
Labourer II	WD I
Labourer III	WD I
Labourer II	WD II WWC I
Foreman III	WD III
Water Systems Serviceman	WD II
Water Systems Serviceman	WD II
Water Systems Serviceman	WD II
Water Systems Serviceman	WD II
Water Systems Serviceman	WD II
Water Systems Serviceman	WD III
Water Systems Serviceman	WD II
Water Systems Serviceman	WD III
Water Systems Serviceman	WD II
Water Systems Serviceman	WD II
Water Systems Serviceman	WD II
Water Systems Serviceman	WD II
Water Systems Serviceman	WD II

1.1.3 Alberta Environment Operator Certifications

Operator Contact Number: EPCOR Water Services Dispatch (24 hr) (780) 412-4500

DISTRIBUTION SYSTEM (LEVEL IV FACILITY)

WATER DISTRIBUTION (WD) - CUSTOMER SERVICE

Senior Manager, Customer Service

Manager, Dispatch

Manager, Inspections and Customer Service

Title	Alberta Environment Certification Level
Team Lead, Dispatch	
Dispatcher Coordinator	WD I
Dispatcher Coordinator	WD I WWC I WT I WWT I
Inspector – Water Metering	WD II
Inspector – Water Metering	WD I
Manager, Cross Connections	WD II
Inspector – Cross Connections	WD I

1.1.3 Alberta Environment Operator Certifications

Operator Contact Number: EPCOR Water Services Dispatch (24 hr) (780) 412-4500

DISTRIBUTION SYSTEM (LEVEL IV FACILITY)

WATER METERING (WD)

Manager, Metering Operations	**WD I**
Title	Alberta Environment Certification Level
Foreman III	WD II
Meter Installer I	WD I
Meter Installer II	WD III
Meter Installer I	WD I WWC I
Meter Installer I	WD III
Meter Installer I	WD II
Meter Mechanic II	WD II
Meter Installer II	WD I
Meter Installer I	WD I
Meter Installer I	WD I

1.2.1 Raw Water Intake (ML)

July 2025

Day	Rossdale			E.L. Smith	Plants Combined Total
	Plant 1	Plant 2	Plant Total	Plant Total	
1	80	120	200	300	500
2	80	120	200	307	507
3	90	123	213	323	536
4	93	123	216	302	518
5	73	109	182	301	483
6	60	98	158	275	433
7	63	97	160	279	439
8	80	121	201	320	521
9	91	124	214	324	538
10	91	121	211	273	484
11	80	110	190	300	490
12	83	108	191	301	492
13	90	98	188	281	468
14	101	90	191	286	477
15	110	90	200	301	501
16	118	56	174	306	480
17	132	4.8	137	324	461
18	127	73	200	331	531
19	96	108	204	319	523
20	63	103	165	267	433
21	59	101	160	261	421
22	59	108	167	269	436
23	71	116	187	293	480
24	73	113	186	293	479
25	66	101	167	294	461
26	71	111	181	287	469
27	55	90	145	267	413
28	56	96	153	260	413
29	60	109	169	272	440
30	77	121	199	305	504
31	99	129	228	340	568
Monthly Total	2,547	3,190	5,737	9,161	14,898
Monthly Min	55	4.8	137	260	
Monthly Max	132	129	228	340	
Monthly Avg	82	103	185	296	481

NOTES: ' -- ' indicates plant offline

1.2.2 Treated Water Production (ML)

July 2025

Day	Rossdale (Plant 1 & Plant 2)			E.L. Smith			Plants Combined	Reservoir Levels (%)
	Flow Meters			Flow Meters			Flow Meters (Both Plants)	
	Min	Max	Total	Min	Max	Total		
1	104	208	182	255	302	275	456	69.6
2	89	212	179	234	297	279	458	70.5
3	151	213	198	112	350	293	491	65.6
4	157	214	199	206	325	274	473	73.5
5	108	211	166	262	303	277	443	77.6
6	74	195	143	240	291	255	398	79.0
7	58	208	147	144	292	254	401	76.4
8	133	213	186	260	338	290	476	75.8
9	150	214	201	171	348	293	494	74.4
10	144	211	198	87	300	223	420	83.4
11	114	209	177	246	302	279	456	75.6
12	102	209	178	205	329	268	446	71.3
13	137	256	177	206	329	254	431	75.1
14	80	212	184	209	302	256	440	72.5
15	147	266	194	180	331	271	465	74.1
16	118	266	165	206	305	279	444	71.5
17	97	202	123	284	304	285	408	64.8
18	119	295	174	286	354	298	472	53.5
19	86	263	190	263	345	290	480	60.3
20	73	209	156	204	294	238	394	74.6
21	50	203	145	203	297	239	384	72.6
22	72	209	154	184	297	241	395	70.8
23	84	211	176	154	298	268	443	66.8
24	116	211	174	208	297	257	432	72.5
25	37	209	139	208	303	268	407	62.9
26	70	209	170	237	300	267	437	72.4
27	81	209	133	205	284	245	378	79.7
28	59	206	141	203	296	238	379	74.8
29	88	212	159	209	302	251	410	67.6
30	86	268	188	97	347	279	467	61.5
31	11	300	220	255	346	313	533	65.1
Monthly Tota			5,314			8,298	13,612	
Monthly Min	11			87				
Monthly Max		300			354			
Monthly Avg			171			268	439	

NOTES: ' -- ' indicates plant offline
- Estimated flows are based on UV effluent flow meters to address inaccuracy of highlift flow meters.
- Reservoir levels (%) recorded daily at 7 AM

1.2.3 Raw Water Quality - North Saskatchewan River

July 2025

Day	Rossdale										E.L. Smith									
	Turbidity (NTU)			pH			Colour (TCU)				Turbidity (NTU)			pH			Colour (TCU)			
	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg		Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	
1	30	50	40	8.3	8.4	8.3	13.3	15.2	14.3		26	40	29	8.4	8.4	8.4	14.8	16.5	15.5	
2	28	34	30	8.4	8.4	8.4	13.3	14.3	13.7		22	30	27	8.4	8.4	8.4	14.1	14.8	14.4	
3	19	28	24	8.4	8.5	8.5	12.0	13.8	13.0		16	22	19	8.4	8.5	8.5	12.4	14.2	12.8	
4	12	19	15	8.5	8.6	8.5	10.3	12.0	11.7		1.8	16	8.7	8.4	8.5	8.5	10.8	12.5	11.7	
5	9.5	13	11	8.4	8.6	8.5	10.2	10.8	10.3		8.5	11	9.8	8.5	8.5	8.5	9.9	11.2	10.6	
6	9.2	9.8	9.6	8.5	8.6	8.5	9.1	10.2	9.6		7.3	9.5	8.1	8.5	8.6	8.5	8.8	10.0	9.4	
7	9.1	15	13	8.5	8.6	8.5	7.5	9.3	8.6		6.4	8.1	6.9	8.5	8.6	8.6	8.3	9.0	8.8	
8	7.4	9.1	8.5	8.5	8.6	8.6	7.5	8.6	8.0		6.4	23	12	8.5	8.5	8.5	8.1	9.0	8.2	
9	7.9	28	19	8.5	8.6	8.5	8.0	11.3	9.7		13	24	19	8.4	8.5	8.5	9.0	12.1	11.2	
10	9.5	18	12	8.5	8.5	8.5	10.6	11.2	10.9		7.8	17	12	8.5	8.5	8.5	11.0	12.8	11.7	
11	6.6	9.9	7.9	8.5	8.6	8.5	10.6	11.3	11.1		6.3	8.1	7.6	8.5	8.5	8.5	11.2	12.8	11.6	
12	6.5	7.5	7.0	8.5	8.6	8.5	9.7	11.0	10.7		5.9	7.0	6.4	8.5	8.5	8.5	10.2	11.7	11.0	
13	6.5	7.6	7.1	8.5	8.6	8.5	9.7	10.2	9.8		5.9	7.5	7.0	8.5	8.5	8.5	9.5	10.8	10.2	
14	7.0	7.6	7.5	8.3	8.5	8.5	9.4	10.9	10.5		6.3	10	8.6	8.4	8.5	8.5	9.9	11.1	10.3	
15	7.0	12	10	8.3	8.3	8.3	9.2	9.6	9.4		8.2	11	9.2	8.4	8.5	8.4	10.0	10.7	10.4	
16	8.7	12	11	8.2	8.5	8.3	9.5	10.3	9.8		8.2	11	9.5	8.4	8.4	8.4	9.2	11.2	10.2	
17	12	36	28	8.3	8.5	8.4	10.0	12.5	10.8		11	34	26	8.3	8.4	8.3	10.3	13.8	12.0	
18	18	29	23	8.1	8.4	8.3	12.5	14.2	13.4		15	19	16	8.3	8.4	8.4	13.8	17.4	15.9	
19	13	20	16	8.1	8.4	8.1	13.5	16.8	15.0		9.1	16	13	8.4	8.4	8.4	15.9	18.4	17.1	
20	8.8	14	11	8.4	8.4	8.4	15.2	16.3	15.8		8.1	13	9.4	8.4	8.5	8.5	15.8	16.8	16.3	
21	8.8	15	12	8.4	8.5	8.4	15.6	16.6	16.2		8.1	14	11	8.4	8.5	8.5	16.4	17.9	17.4	
22	8.8	15	12	8.4	8.5	8.5	16.4	17.5	16.8		8.4	34	12	8.4	8.5	8.5	17.3	17.9	17.6	
23	10	13	13	8.4	8.5	8.4	16.3	19.0	16.7		12	15	13	8.4	8.5	8.4	17.1	21.0	18.8	
24	13	24	19	8.3	8.4	8.4	19.0	30.4	24.6		14	32	21	8.3	8.4	8.3	21.0	35.5	28.9	
25	23	75	55	8.2	8.3	8.3	30.4	38.5	35.4		32	70	50	8.2	8.3	8.2	35.5	40.8	38.5	
26	34	55	39	8.2	8.3	8.2	29.6	38.1	35.0		27	37	34	8.2	8.3	8.3	31.8	40.7	36.4	
27	35	45	40	8.2	8.3	8.2	21.8	29.9	26.6		29	39	34	8.3	8.3	8.3	24.2	33.8	26.8	
28	25	45	37	8.2	8.4	8.2	20.9	30.0	21.7		17	35	24	8.3	8.4	8.3	22.1	24.2	22.4	
29	21	35	29	8.3	8.4	8.3	20.7	22.3	21.9		17	29	26	8.3	8.4	8.4	21.0	24.1	22.7	
30	28	37	34	8.3	8.3	8.3	18.1	20.7	19.5		24	39	29	8.3	8.3	8.3	19.1	21.0	19.8	
31	24	32	30	8.3	8.4	8.3	16.2	18.1	17.5		21	31	24	8.3	8.4	8.3	16.9	19.1	18.1	
Monthly Min/Max/Avg	6.5	75	20	8.1	8.6	8.4	7.5	38.5	15.4		1.8	70	17	8.2	8.6	8.4	8.1	40.8	16.3	

NOTES: ' -- ' indicates plant offline

1.2.4 Treated Water Quality Entering the Distribution System

July 2025

Day	Rossdale														E.L. Smith													
	Turbidity (NTU)			Chloramine Residual (mg/L)			pH			Fluoride Residual (mg/L)			Total Hardness (mg/L as $CaCO_3$)	Colour (TCU)	Turbidity (NTU)			Chloramine Residual (mg/L)			pH			Fluoride Residual (mg/L)			Total Hardness (mg/L as $CaCO_3$)	Colour (TCU)
	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Total	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Total	Avg
1	0.07	0.08	0.08	1.96	2.11	2.06	7.8	7.9	7.8	0.75	0.79	0.78	174	0.7	0.06	0.06	0.06	1.98	2.03	1.99	8.0	8.0	8.0	0.62	0.63	0.63	175	1.2
2	0.07	0.08	0.07	2.01	2.16	2.08	7.8	7.9	7.8	0.74	0.76	0.75	171	0.4	0.06	0.06	0.06	1.98	2.03	1.99	8.0	8.0	8.0	0.62	0.63	0.63	171	1.2
3	0.07	0.08	0.07	2.06	2.16	2.11	7.8	7.9	7.9	0.75	0.76	0.75	172	0.7	0.06	0.06	0.06	1.96	2.02	1.99	7.6	8.0	7.9	0.62	0.63	0.63	174	1.3
4	0.07	0.08	0.07	2.11	2.22	2.16	7.8	7.9	7.8	0.75	0.75	0.75	170	0.5	0.06	0.06	0.06	1.98	2.03	1.99	7.6	7.6	7.6	0.61	0.63	0.62	172	1.1
5	0.07	0.08	0.07	2.11	2.21	2.16	7.8	7.9	7.8	0.73	0.75	0.74	174	0.5	0.06	0.06	0.06	1.98	2.05	2.01	7.6	7.7	7.6	0.60	0.62	0.62	174	1.1
6	0.06	0.08	0.08	2.06	2.21	2.13	7.8	7.9	7.9	0.74	0.75	0.75	175	0.6	0.06	0.06	0.06	1.98	2.03	2.01	7.6	7.7	7.6	0.61	0.62	0.62	175	1.2
7	0.06	0.08	0.08	2.06	2.21	2.14	7.8	7.9	7.8	0.74	0.75	0.75	170	0.6	0.06	0.06	0.06	1.98	2.04	2.01	7.6	7.7	7.7	0.61	0.63	0.61	174	0.9
8	0.07	0.09	0.08	2.06	2.26	2.18	7.8	7.9	7.9	0.75	0.77	0.77	171	0.6	0.06	0.06	0.06	1.93	2.02	1.97	7.6	7.7	7.6	0.62	0.63	0.62	171	1.0
9	0.04	0.07	0.06	2.06	2.16	2.13	7.8	7.8	7.8	0.76	0.78	0.77	173	0.7	0.06	0.07	0.07	1.93	1.98	1.96	7.6	7.7	7.6	0.60	0.63	0.62	178	1.0
10	0.03	0.07	0.06	2.01	2.22	2.09	7.8	7.9	7.8	0.76	0.76	0.76	173	0.6	0.06	0.07	0.07	1.86	1.98	1.92	7.6	7.7	7.6	0.60	0.61	0.61	173	1.1
11	0.04	0.08	0.07	2.06	2.16	2.11	7.9	7.9	7.9	0.76	0.76	0.76	171	0.4	0.06	0.06	0.06	1.93	1.98	1.96	7.6	7.7	7.7	0.60	0.60	0.60	172	1.1
12	0.04	0.09	0.06	2.06	2.16	2.10	7.8	7.9	7.8	0.76	0.76	0.76	174	0.5	0.06	0.06	0.06	1.93	1.98	1.96	7.6	7.7	7.6	0.60	0.61	0.60	174	1.2
13	0.04	0.10	0.05	2.01	2.11	2.09	7.8	7.8	7.8	0.76	0.77	0.77	173	0.2	0.06	0.06	0.06	1.90	1.96	1.93	7.6	7.7	7.6	0.60	0.61	0.60	177	1.2
14	0.04	0.08	0.05	2.01	2.16	2.09	7.8	7.8	7.8	0.76	0.77	0.77	174	0.7	0.06	0.07	0.06	1.92	1.99	1.94	7.6	7.7	7.7	0.60	0.60	0.60	173	1.3
15	0.07	0.06	0.07	2.06	2.21	2.14	7.8	7.8	7.8	0.77	0.78	0.77	173	0.7	0.06	0.07	0.07	1.98	2.08	2.02	7.7	7.7	7.7	0.60	0.60	0.60	173	0.8
16	0.08	0.10	0.09	2.06	2.26	2.12	7.8	7.8	7.8	0.76	0.77	0.77	169	0.8	0.06	0.07	0.06	1.94	2.07	1.99	7.7	7.7	7.7	0.60	0.60	0.60	173	0.5
17	0.08	0.11	0.09	2.06	2.22	2.15	7.8	7.9	7.8	0.74	0.76	0.76	173	0.6	0.07	0.07	0.07	1.93	2.00	1.97	7.7	7.7	7.7	0.59	0.60	0.60	169	0.9
18	0.08	0.11	0.10	2.11	2.26	2.18	7.8	7.8	7.8	0.74	0.76	0.74	174	0.5	0.06	0.07	0.06	1.94	2.00	1.98	7.7	7.7	7.7	0.58	0.60	0.59	176	1.6
19	0.07	0.10	0.08	2.11	2.21	2.16	7.8	7.9	7.8	0.75	0.77	0.76	180	0.8	0.06	0.06	0.06	1.94	2.02	1.98	7.7	7.7	7.7	0.58	0.59	0.59	182	1.6
20	0.07	0.10	0.08	2.11	2.21	2.16	7.8	7.9	7.8	0.73	0.76	0.74	173	0.9	0.06	0.06	0.06	1.95	2.02	1.99	7.7	7.7	7.7	0.58	0.58	0.58	174	1.2
21	0.07	0.10	0.08	2.11	2.21	2.18	7.8	7.9	7.8	0.73	0.74	0.74	176	0.8	0.06	0.06	0.06	1.93	1.99	1.96	7.7	7.7	7.7	0.58	0.58	0.58	178	1.3
22	0.07	0.10	0.08	2.16	2.28	2.23	7.8	7.8	7.8	0.73	0.74	0.73	177	0.8	0.06	0.06	0.06	1.93	2.00	1.96	7.7	7.7	7.7	0.58	0.58	0.58	178	1.4
23	0.06	0.09	0.08	2.21	2.32	2.27	7.7	7.8	7.8	0.69	0.74	0.71	174	0.9	0.06	0.06	0.06	1.98	2.04	2.00	7.7	7.7	7.7	0.57	0.58	0.58	172	1.4
24	0.06	0.08	0.07	2.16	2.28	2.26	7.7	7.8	7.8	0.69	0.70	0.70	170	0.9	0.06	0.06	0.06	1.98	2.06	2.00	7.6	7.7	7.7	0.58	0.59	0.59	169	1.3
25	0.06	0.08	0.07	2.11	2.28	2.21	7.8	7.8	7.8	0.67	0.69	0.68	165	1.0	0.05	0.06	0.06	1.98	2.04	2.01	7.7	7.7	7.7	0.58	0.59	0.58	164	1.0
26	0.06	0.08	0.07	2.06	2.23	2.12	7.7	7.8	7.8	0.65	0.69	0.67	162	0.9	0.05	0.06	0.06	1.98	2.03	1.99	7.7	7.7	7.7	0.58	0.58	0.58	162	1.3
27	0.06	0.08	0.08	2.06	2.16	2.09	7.8	7.9	7.8	0.69	0.71	0.70	162	0.8	0.06	0.06	0.06	1.98	2.03	1.99	7.7	7.8	7.7	0.58	0.60	0.59	165	1.3
28	0.08	0.09	0.08	2.06	2.21	2.11	7.8	7.9	7.9	0.69	0.72	0.70	163	0.6	0.06	0.06	0.06	1.97	2.03	1.99	7.8	7.8	7.8	0.60	0.60	0.60	166	1.1
29	0.08	0.09	0.08	2.06	2.21	2.13	7.7	7.8	7.8	0.72	0.74	0.73	169	0.7	0.06	0.06	0.06	1.99	2.07	2.02	7.8	7.8	7.8	0.60	0.61	0.61	170	1.3
30	0.04	0.05	0.04	2.01	2.16	2.09	7.8	7.9	7.8	0.74	0.76	0.75	169	0.7	0.06	0.06	0.06	2.02	2.08	2.03	7.8	7.8	7.8	0.61	0.63	0.62	168	1.4
31	0.07	0.08	0.08	2.01	2.16	2.12	7.8	7.9	7.8	0.73	0.76	0.74	169	0.6	0.06	0.06	0.06	2.01	2.08	2.04	7.7	7.8	7.8	0.62	0.63	0.63	169	1.3
Monthly Min/Max/ Avg	0.03	0.11	0.07	1.96	2.32	2.14	7.7	7.9	7.8	0.65	0.79	0.74	171	0.7	0.05	0.07	0.06	1.86	2.08	1.98	7.6	8.0	7.7	0.57	0.63	0.60	172	1.2

NOTES: ' -- ' indicates plant offline

1.2.5 Rossdale Filters 1 - 9 Particle Counts (no./mL >2um)

July 2025

Filter	1			2			3			4			5			6			7			8			9		
Day	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg
1	1	13	3	2	12	4	1	4	2	2	11	5	5	15	7	2	4	3	2	6	4	3	8	5	2	7	4
2	4	9	6	2	5	3	5	14	7	3	9	5	5	11	8	5	23	8	2	10	4	3	7	5	3	16	4
3	2	8	5	2	16	5	2	8	5	2	10	4	3	11	6	3	10	6	4	13	7	3	25	6	4	15	7
4	1	5	3	2	5	4	1	5	3	3	9	5	3	26	7	2	15	4	4	9	6	3	10	7	3	7	5
5	4	15	7	1	5	3	1	3	2	3	11	5	6	11	8	3	15	6	--	--	--	3	8	5	3	6	4
6	3	9	6	1	3	2	4	11	6	4	12	6	5	10	7	5	11	7	--	--	--	2	7	5	7	16	9
7	3	10	6	7	13	9	4	10	7	--	--	--	5	11	8	5	11	8	--	--	--	9	27	13	7	14	10
8	1	21	4	3	10	5	1	7	3	4	17	7	7	15	10	2	8	4	--	--	--	4	13	7	3	10	6
9	4	9	6	2	5	3	1	13	5	3	10	5	6	11	8	6	26	8	--	--	--	3	7	5	2	5	4
10	2	7	4	1	4	2	2	25	4	1	20	3	3	9	5	2	12	4	--	--	--	2	15	6	3	15	5
11	2	7	3	2	14	5	1	5	3	2	4	3	2	7	4	2	5	3	4	10	6	3	9	5	3	7	5
12	3	15	5	1	5	3	1	14	2	3	11	5	6	18	8	2	4	3	3	8	5	2	7	4	2	6	3
13	2	7	4	1	2	1	5	12	7	2	7	4	4	10	6	5	27	7	2	5	3	1	4	3	1	14	6
14	1	5	3	--	--	--	2	9	5	1	4	3	2	7	4	2	7	4	5	15	7	4	16	6	2	8	4
15	1	4	2	3	15	5	2	25	5	2	11	6	--	--	--	1	5	3	3	9	5	2	8	5	2	6	3
16	--	--	--	1	6	3	1	38	2	2	8	4	3	16	6	1	17	5	1	6	3	1	6	3	1	4	2
17	1	9	3	1	3	1	1	2	1	1	8	2	1	6	3	1	5	3	1	6	3	--	--	--	--	--	--
18	1	3	2	1	8	2	1	15	2	1	10	2	1	3	2	1	3	1	1	4	2	1	17	3	1	9	3
19	1	3	1	1	3	2	1	3	2	1	8	3	3	16	5	1	2	1	1	3	2	1	4	2	1	3	2
20	--	--	--	1	3	1	1	24	1	1	6	2	2	11	4	1	33	7	1	20	3	1	4	2	1	4	2
21	2	15	3	1	8	3	--	--	--	1	5	2	2	18	4	2	7	4	2	12	5	1	4	1	3	10	5
22	1	5	3	1	4	3	3	10	5	--	--	--	2	18	6	1	4	2	2	5	3	2	19	4	2	6	3
23	2	6	4	1	3	1	1	5	3	2	8	4	2	8	4	--	--	--	1	4	2	1	6	2	1	5	2
24	1	5	3	1	2	1	1	3	1	1	7	2	1	6	2	1	12	4	8	11	9	1	3	1	1	13	2
25	1	2	1	1	3	1	1	5	2	1	11	2	1	20	3	1	3	1	1	11	2	1	19	2	1	5	2
26	1	10	1	1	1	1	1	8	1	1	3	1	1	2	1	1	1	1	1	2	1	1	5	1	1	2	1
27	1	2	1	--	--	--	1	2	1	1	2	1	1	2	1	1	14	2	1	2	1	1	1	1	1	1	1
28	1	2	1	1	27	1	1	1	1	--	--	--	1	1	1	1	2	1	1	1	1	1	7	1	1	8	1
29	1	1	1	1	6	1	1	1	1	1	6	1	--	--	--	1	1	1	1	7	2	1	2	1	1	2	1
30	1	8	1	1	1	1	1	11	2	1	2	1	1	10	2	1	10	2	1	2	1	1	1	1	1	1	1
31	1	2	1	1	10	1	1	2	1	1	2	1	1	2	1	1	2	1	1	1	1	1	1	1	1	9	1
Monthly Min/Max/Avg	1	21	3	1	27	3	1	38	3	1	20	3	1	26	5	1	33	4	1	20	4	1	27	4	1	16	4

NOTE: ' -- ' indicates filter offline

1.2.6 E.L. Smith Filters 1 - 9 Particle Counts (no./mL >2um)

July 2025

Filter	1			2			3			4			5			6			7			8			9		
Day	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg
1	3	19	8	1	16	4	1	10	2	1	18	4	1	7	2	3	19	6	2	32	4	1	24	4	2	9	3
2	1	7	2	1	13	1	2	16	7	1	9	4	1	17	8	1	20	2	4	24	9	2	14	6	1	28	9
3	3	23	8	1	16	3	1	21	3	1	23	7	1	21	3	2	21	7	1	33	11	1	27	10	2	31	7
4	1	5	2	1	23	5	2	13	6	1	19	4	2	18	7	1	27	8	4	16	8	3	11	6	2	14	6
5	5	34	10	2	13	6	1	20	4	3	15	8	1	21	8	2	11	5	4	36	18	8	31	14	2	28	11
6	1	9	4	1	9	2	3	15	8	1	8	3	3	13	6	2	31	11	7	20	12	4	13	7	3	13	7
7	1	38	15	6	23	11	1	14	4	6	23	11	2	18	5	3	16	7	5	31	13	3	27	12	3	24	13
8	6	16	10	2	10	5	8	18	12	3	9	6	5	16	9	2	24	12	6	18	11	4	15	8	3	12	6
9	2	31	9	1	20	10	1	10	5	3	26	9	1	21	6	2	17	6	4	39	14	3	25	9	3	26	12
10	3	26	9	1	17	8	4	15	7	1	17	8	3	8	5	3	11	6	3	30	13	3	10	6	1	21	10
11	3	27	8	1	10	4	1	16	6	1	9	4	4	14	7	2	19	9	3	13	7	7	20	13	3	10	5
12	1	26	8	1	20	7	2	11	5	1	26	5	1	18	5	1	7	3	3	31	9	2	25	6	2	26	8
13	3	14	7	2	11	5	2	5	3	3	10	6	2	11	6	4	19	9	2	30	11	4	19	8	2	6	4
14	1	33	10	1	24	9	4	15	9	2	16	9	1	21	4	2	22	7	3	34	9	2	27	12	3	22	8
15	4	14	8	2	24	5	2	23	4	2	20	4	3	12	7	2	12	6	4	19	9	3	14	6	2	31	11
16	1	31	9	1	21	8	2	13	6	3	16	7	1	22	5	2	19	10	3	39	14	5	26	13	2	10	5
17	1	29	6	1	25	4	1	30	5	1	18	5	1	10	4	1	17	5	1	24	6	1	20	5	1	27	6
18	1	26	6	1	15	4	1	15	2	1	6	2	1	14	4	1	18	3	1	22	3	1	16	3	1	25	4
19	1	21	4	1	14	4	1	18	2	1	16	3	1	13	3	1	6	2	1	9	4	1	7	3	1	26	3
20	1	3	1	1	10	2	1	8	3	1	10	3	1	10	2	1	24	3	1	18	4	1	16	4	1	12	1
21	1	11	4	1	7	2	1	10	2	1	4	1	1	5	2	1	24	3	1	17	4	1	3	1	1	8	2
22	1	30	2	1	16	3	1	8	3	1	9	4	1	18	5	1	4	2	2	6	3	1	15	3	1	17	4
23	1	7	3	1	19	2	1	15	4	1	12	3	1	4	2	1	24	5	1	24	5	1	17	4	1	17	3
24	1	18	3	1	17	3	1	13	2	1	7	2	1	15	3	1	24	4	1	23	3	1	12	2	1	8	2
25	1	3	1	1	16	2	1	30	2	1	9	3	1	30	3	1	2	1	1	18	3	1	2	1	1	12	1
26	1	12	2	1	15	2	1	8	1	1	2	1	1	3	1	1	19	3	1	2	1	1	11	2	1	1	1
27	1	3	1	1	14	1	1	19	2	1	10	3	1	6	1	2	23	5	1	23	4	1	4	2	1	10	3
28	1	12	1	1	12	4	1	4	1	1	2	1	1	10	2	1	3	1	1	14	5	3	26	6	1	17	3
29	1	9	3	1	21	1	1	14	4	1	14	3	1	4	1	1	24	4	1	3	2	1	4	2	1	11	2
30	1	20	3	1	19	5	1	23	1	1	5	2	2	12	5	1	16	2	2	26	5	1	21	6	1	25	3
31	1	8	3	1	7	2	1	23	5	1	13	5	1	16	3	1	9	3	1	29	5	1	7	2	1	6	3
Monthly Min/Max/Avg	1	38	5	1	25	4	1	30	4	1	26	4	1	30	4	1	31	5	1	39	7	1	31	6	1	31	5

NOTES: ' -- ' indicates filter offline

1.2.7 E.L. Smith Filters 10 - 18 Particle Counts (no./mL >2um)

July 2025

Filter	10			11			12			13			14			15			16			17			18		
Day	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg
1	1	4	2	3	23	5	1	30	9	3	19	6	1	23	7	2	10	4	2	16	5	1	25	10	1	6	3
2	3	22	8	1	25	8	1	8	3	1	31	6	2	11	5	1	17	8	1	43	6	1	9	3	1	37	7
3	1	27	5	1	9	4	3	27	8	3	14	7	1	22	10	1	9	4	1	10	5	1	24	10	1	12	3
4	4	16	8	7	26	13	4	28	13	2	37	9	2	9	5	6	18	11	1	20	9	2	27	8	5	21	9
5	2	25	8	4	16	8	4	11	6	5	16	9	7	24	13	3	9	6	3	9	5	6	18	10	3	29	6
6	5	16	9	3	23	9	6	32	12	4	26	10	4	11	7	8	21	12	8	21	12	3	8	6	5	20	10
7	2	16	5	4	16	9	3	9	6	5	16	10	7	23	14	3	11	7	3	12	7	6	35	14	3	9	6
8	7	24	12	2	27	10	5	26	11	3	32	8	4	12	7	2	22	11	1	22	8	3	28	6	3	21	11
9	2	16	5	2	16	6	4	31	11	3	22	10	4	32	12	1	14	7	2	15	7	3	27	12	2	12	5
10	2	20	6	4	19	8	2	28	3	1	16	9	2	21	10	1	12	7	1	13	8	1	35	10	4	14	7
11	2	25	10	2	24	8	5	22	10	3	9	5	3	10	6	2	7	4	2	17	6	3	10	6	4	21	8
12	2	9	4	2	23	7	3	26	10	2	17	8	1	18	8	3	29	7	2	12	5	4	17	9	2	7	4
13	4	18	9	2	10	4	2	28	7	1	8	4	2	13	4	2	17	7	1	16	7	1	27	7	4	26	7
14	1	28	3	5	20	11	2	14	6	1	36	13	5	29	10	2	10	5	1	7	3	2	13	6	1	6	3
15	4	20	9	1	29	7	3	33	9	3	12	6	3	23	9	1	21	10	4	15	9	1	26	9	4	16	8
16	2	22	5	2	13	6	2	27	8	5	40	10	3	21	7	2	8	5	2	6	4	2	10	6	2	20	5
17	1	13	5	1	21	6	1	24	5	1	14	4	2	18	5	1	27	5	1	13	4	1	18	6	1	10	4
18	1	17	4	1	15	4	1	27	3	1	8	3	1	17	4	1	11	4	1	10	3	1	17	3	1	18	3
19	1	20	3	1	12	2	1	19	2	1	37	4	1	4	2	1	7	2	1	9	2	1	4	2	1	8	2
20	1	13	2	1	3	1	1	4	2	1	12	3	1	11	2	1	4	2	1	3	1	1	9	3	1	3	1
21	1	4	1	1	12	3	1	16	2	1	3	1	1	12	4	1	12	2	1	13	3	1	11	2	1	9	3
22	1	16	5	1	14	2	1	18	3	1	13	6	1	4	2	1	13	3	1	12	1	1	7	3	1	13	2
23	1	18	2	1	5	2	1	20	4	1	13	3	1	12	4	1	9	2	1	8	2	1	15	5	1	4	2
24	1	4	2	1	18	2	1	24	2	1	5	2	1	10	2	1	24	2	1	14	1	1	11	2	1	11	2
25	1	11	1	1	12	1	1	24	1	1	18	1	1	1	1	1	9	1	1	8	1	1	2	1	1	4	1
26	1	13	1	1	1	1	1	1	1	1	1	1	1	5	1	1	2	1	1	1	1	1	9	2	1	4	1
27	1	14	1	1	10	3	1	1	1	1	11	3	1	14	2	1	9	3	1	1	1	1	3	1	1	12	2
28	1	21	4	1	23	3	1	18	3	1	13	2	1	6	3	1	3	2	--	--	--	2	15	5	1	4	2
29	1	2	1	1	5	2	1	21	3	1	10	3	4	11	6	1	10	3	2	37	4	1	3	1	1	10	3
30	2	17	4	1	21	5	1	5	2	1	17	3	1	6	3	1	3	1	1	10	2	3	12	6	1	4	2
31	1	16	2	1	5	2	1	31	3	1	7	3	1	15	4	2	10	4	1	36	5	1	5	2	1	12	4
Monthly Min/Max/Avg	1	28	5	1	29	5	1	33	6	1	40	6	1	32	6	1	29	5	1	43	5	1	35	6	1	37	4

NOTES: ' -- ' indicates filter offline

1.2.8 Rossdale Filters 1 - 9 Turbidity (NTU)

July 2025

Filter	1			2			3			4			5			6			7			8			9		
Day	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg
1	0.02	0.05	0.02	0.02	0.04	0.02	0.01	0.01	0.01	0.01	0.04	0.01	0.02	0.04	0.03	0.01	0.03	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
2	0.02	0.04	0.02	0.02	0.04	0.02	0.02	0.04	0.02	0.01	0.03	0.01	0.02	0.04	0.02	0.01	0.05	0.02	0.02	0.04	0.02	0.02	0.02	0.02	0.02	0.05	0.02
3	0.02	0.03	0.02	0.02	0.05	0.03	0.01	0.02	0.01	0.00	0.03	0.01	0.02	0.04	0.02	0.01	0.01	0.01	0.02	0.03	0.03	0.01	0.05	0.04	0.02	0.05	0.02
4	0.01	0.03	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.05	0.02	0.02	0.05	0.03	0.01	0.01	0.01	0.02	0.04	0.03	0.01	0.03	0.02	0.02	0.02	0.02
5	0.02	0.04	0.02	0.02	0.02	0.02	0.01	0.02	0.01	0.01	0.02	0.01	0.02	0.02	0.02	0.01	0.04	0.02	--	--	--	0.01	0.02	0.02	0.01	0.02	0.02
6	0.02	0.03	0.02	0.02	0.04	0.02	0.01	0.03	0.02	0.01	0.02	0.02	0.02	0.03	0.02	0.01	0.02	0.01	--	--	--	0.01	0.02	0.02	0.03	0.06	0.03
7	0.02	0.06	0.02	0.03	0.04	0.03	0.01	0.02	0.01	--	--	--	0.02	0.03	0.02	0.01	0.02	0.01	--	--	--	0.02	0.05	0.03	0.02	0.03	0.02
8	0.02	0.05	0.02	0.02	0.03	0.02	0.01	0.02	0.01	0.01	0.03	0.01	0.02	0.05	0.03	0.01	0.03	0.01	--	--	--	0.02	0.02	0.02	0.01	0.02	0.02
9	0.02	0.04	0.02	0.02	0.02	0.02	0.01	0.04	0.02	0.01	0.02	0.01	0.02	0.03	0.02	0.02	0.05	0.02	--	--	--	0.01	0.02	0.02	0.01	0.02	0.02
10	0.02	0.04	0.02	0.02	0.04	0.02	0.01	0.02	0.01	0.01	0.02	0.01	0.02	0.03	0.02	0.01	0.02	0.02	--	--	--	0.01	0.04	0.02	0.02	0.05	0.03
11	0.02	0.03	0.02	0.02	0.05	0.03	0.01	0.02	0.01	0.01	0.02	0.01	0.02	0.04	0.02	0.01	0.01	0.01	0.02	0.05	0.03	0.02	0.02	0.02	0.01	0.02	0.02
12	0.02	0.04	0.03	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.03	0.02	0.02	0.04	0.03	0.01	0.03	0.01	0.02	0.02	0.02	0.01	0.02	0.02	0.02	0.02	0.02
13	0.02	0.03	0.02	0.02	0.04	0.02	0.03	0.03	0.03	0.01	0.02	0.01	0.02	0.03	0.02	0.02	0.05	0.02	0.02	0.02	0.02	0.01	0.02	0.02	0.01	0.04	0.03
14	0.02	0.03	0.02	--	--	--	0.02	0.03	0.02	0.01	0.02	0.01	0.02	0.04	0.02	0.01	0.02	0.01	0.03	0.05	0.04	0.02	0.05	0.03	0.02	0.02	0.02
15	0.02	0.03	0.02	0.03	0.04	0.03	0.01	0.03	0.01	0.01	0.04	0.02	--	--	--	0.01	0.02	0.01	0.02	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02
16	--	--	--	0.02	0.03	0.02	0.01	0.01	0.01	0.01	0.03	0.01	0.02	0.06	0.03	0.01	0.06	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
17	0.02	0.05	0.03	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.03	0.01	0.02	0.04	0.02	0.01	0.02	0.02	0.03	0.04	0.03	--	--	--	--	--	--
18	0.02	0.03	0.02	0.03	0.04	0.03	0.02	0.03	0.02	0.01	0.05	0.01	0.02	0.03	0.02	0.01	0.02	0.01	0.02	0.03	0.02	0.02	0.04	0.03	0.02	0.04	0.03
19	0.02	0.03	0.02	0.02	0.03	0.03	0.01	0.02	0.01	0.01	0.03	0.02	0.03	0.05	0.03	0.01	0.03	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
20	--	--	--	0.02	0.02	0.02	0.01	0.02	0.01	0.01	0.03	0.01	0.02	0.03	0.02	0.02	0.08	0.02	0.02	0.05	0.03	0.01	0.02	0.02	0.02	0.03	0.02
21	0.02	0.04	0.02	0.02	0.05	0.03	--	--	--	0.01	0.02	0.01	0.02	0.03	0.02	0.01	0.05	0.01	0.02	0.04	0.02	0.01	0.02	0.01	0.02	0.05	0.03
22	0.02	0.04	0.02	0.02	0.03	0.02	0.02	0.04	0.03	--	--	--	0.02	0.04	0.03	0.01	0.02	0.01	0.02	0.02	0.02	0.02	0.05	0.02	0.02	0.02	0.02
23	0.02	0.04	0.03	0.02	0.04	0.02	0.01	0.02	0.01	0.01	0.05	0.02	0.02	0.03	0.02	--	--	--	0.02	0.03	0.02	0.02	0.02	0.02	0.01	0.02	0.02
24	0.02	0.04	0.02	0.02	0.04	0.02	0.01	0.02	0.01	0.01	0.02	0.01	0.02	0.04	0.02	0.01	0.04	0.02	0.05	0.05	0.05	0.01	0.02	0.02	0.02	0.04	0.02
25	0.02	0.02	0.02	0.02	0.04	0.03	0.01	0.03	0.02	0.01	0.04	0.02	0.02	0.05	0.03	0.01	0.02	0.01	0.02	0.03	0.03	0.02	0.04	0.03	0.02	0.04	0.02
26	0.02	0.04	0.02	0.02	0.04	0.02	0.01	0.04	0.01	0.01	0.02	0.01	0.02	0.02	0.02	0.01	0.03	0.01	0.02	0.03	0.02	0.02	0.02	0.02	0.01	0.02	0.02
27	0.02	0.03	0.02	--	--	--	0.01	0.03	0.02	0.01	0.02	0.01	0.02	0.03	0.02	0.02	0.04	0.02	0.02	0.02	0.02	0.01	0.02	0.02	0.01	0.01	0.01
28	0.02	0.04	0.02	0.02	0.04	0.03	0.01	0.02	0.01	--	--	--	0.02	0.04	0.02	0.01	0.02	0.02	0.02	0.04	0.02	0.02	0.03	0.02	0.02	0.04	0.02
29	0.02	0.03	0.02	0.02	0.02	0.02	0.01	0.02	0.01	0.01	0.03	0.01	--	--	--	0.01	0.02	0.01	0.02	0.04	0.03	0.02	0.02	0.02	0.02	0.03	0.02
30	0.02	0.04	0.02	0.02	0.03	0.02	0.01	0.04	0.02	0.01	0.02	0.01	0.02	0.04	0.03	0.01	0.04	0.02	0.02	0.02	0.02	0.01	0.03	0.02	0.01	0.02	0.02
31	0.02	0.03	0.02	0.02	0.04	0.03	0.01	0.01	0.01	0.01	0.02	0.01	0.02	0.02	0.02	0.01	0.02	0.01	0.02	0.02	0.02	0.01	0.02	0.02	0.02	0.04	0.02
Monthly Min/Max/Avg	0.01	0.06	0.02	0.02	0.05	0.02	0.01	0.04	0.01	0.00	0.05	0.01	0.02	0.06	0.02	0.01	0.08	0.02	0.02	0.05	0.03	0.01	0.05	0.02	0.01	0.06	0.02

NOTES: ' -- ' indicates filter offline

1.2.9 E.L. Smith Filters 1 - 9 Turbidity (NTU)

July 2025

Filter	1			2			3			4			5			6			7			8			9		
Day	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg
1	0.01	0.07	0.02	0.02	0.04	0.02	0.00	0.01	0.00	0.03	0.05	0.03	0.00	0.02	0.00	0.03	0.07	0.03	0.01	0.04	0.00	0.01	0.05	0.02	0.01	0.02	0.00
2	0.01	0.03	0.01	0.02	0.07	0.02	0.00	0.04	0.01	0.02	0.06	0.03	0.00	0.03	0.01	0.03	0.07	0.03	0.00	0.03	0.01	0.00	0.04	0.02	0.01	0.04	0.01
3	0.01	0.05	0.02	0.02	0.03	0.03	0.00	0.04	0.01	0.03	0.06	0.03	0.00	0.04	0.01	0.03	0.06	0.03	0.01	0.04	0.01	0.02	0.05	0.02	0.01	0.04	0.01
4	0.01	0.03	0.01	0.02	0.07	0.03	0.00	0.01	0.01	0.03	0.05	0.03	0.00	0.02	0.01	0.03	0.06	0.03	0.01	0.01	0.00	0.01	0.06	0.02	0.01	0.01	0.00
5	0.01	0.06	0.02	0.02	0.04	0.02	0.00	0.04	0.01	0.02	0.03	0.03	0.00	0.03	0.01	0.03	0.03	0.03	0.00	0.04	0.02	0.02	0.05	0.03	0.01	0.04	0.01
6	0.01	0.01	0.01	0.02	0.02	0.02	0.00	0.01	0.01	0.02	0.03	0.02	0.00	0.01	0.00	0.03	0.08	0.04	0.00	0.01	0.00	0.01	0.04	0.02	0.01	0.00	0.00
7	0.01	0.05	0.02	0.02	0.07	0.03	0.00	0.00	0.00	0.03	0.06	0.03	0.00	0.04	0.01	0.03	0.03	0.03	0.01	0.04	0.01	0.01	0.06	0.03	0.01	0.04	0.01
8	0.01	0.03	0.02	0.02	0.03	0.02	0.01	0.04	0.01	0.02	0.04	0.03	0.01	0.01	0.01	0.03	0.07	0.04	0.00	0.03	0.01	0.02	0.02	0.02	0.01	0.05	0.00
9	0.01	0.07	0.02	0.02	0.08	0.03	0.00	0.02	0.01	0.02	0.07	0.03	0.00	0.06	0.01	0.03	0.07	0.04	0.00	0.06	0.01	0.02	0.08	0.03	0.00	0.05	0.01
10	0.02	0.07	0.02	0.02	0.07	0.03	0.01	0.06	0.01	0.02	0.07	0.03	0.00	0.01	0.01	0.03	0.05	0.03	0.00	0.05	0.02	0.02	0.03	0.02	0.01	0.04	0.01
11	0.01	0.03	0.02	0.02	0.03	0.02	0.00	0.05	0.01	0.02	0.03	0.03	0.01	0.04	0.01	0.03	0.07	0.04	0.00	0.01	0.00	0.02	0.07	0.03	0.01	0.04	0.00
12	0.01	0.06	0.02	0.02	0.08	0.03	0.00	0.01	0.01	0.02	0.07	0.03	0.00	0.05	0.01	0.03	0.03	0.03	0.00	0.04	0.01	0.02	0.06	0.02	0.01	0.04	0.01
13	0.01	0.07	0.02	0.02	0.03	0.02	0.00	0.00	0.00	0.02	0.03	0.03	0.00	0.01	0.01	0.03	0.07	0.04	0.00	0.06	0.01	0.02	0.05	0.03	0.01	0.00	0.00
14	0.01	0.07	0.02	0.02	0.07	0.03	0.01	0.05	0.01	0.02	0.07	0.03	0.00	0.05	0.01	0.03	0.07	0.04	0.00	0.06	0.01	0.02	0.08	0.03	0.00	0.05	0.01
15	0.02	0.03	0.02	0.02	0.03	0.03	0.01	0.06	0.01	0.02	0.04	0.03	0.01	0.02	0.01	0.03	0.04	0.03	0.00	0.02	0.01	0.01	0.03	0.02	0.00	0.06	0.02
16	0.01	0.07	0.02	0.02	0.07	0.03	0.01	0.03	0.01	0.02	0.07	0.03	0.00	0.06	0.01	0.03	0.07	0.04	0.00	0.06	0.02	0.02	0.07	0.03	0.01	0.06	0.01
17	0.01	0.07	0.02	0.02	0.07	0.03	0.01	0.07	0.01	0.02	0.07	0.03	0.00	0.07	0.01	0.03	0.07	0.04	0.01	0.04	0.01	0.02	0.06	0.03	0.01	0.06	0.01
18	0.01	0.05	0.02	0.02	0.05	0.03	0.00	0.05	0.01	0.02	0.03	0.03	0.00	0.05	0.01	0.03	0.07	0.04	0.01	0.04	0.00	0.01	0.05	0.02	0.01	0.04	0.01
19	0.01	0.05	0.02	0.02	0.07	0.03	0.00	0.01	0.01	0.02	0.07	0.03	0.00	0.04	0.01	0.03	0.05	0.03	0.01	0.03	0.01	0.01	0.05	0.02	0.01	0.03	0.00
20	0.01	0.02	0.01	0.02	0.05	0.02	0.00	0.03	0.01	0.02	0.05	0.03	0.00	0.03	0.01	0.03	0.07	0.03	0.01	0.03	0.01	0.01	0.05	0.02	0.01	0.03	0.00
21	0.01	0.04	0.02	0.02	0.03	0.02	0.00	0.03	0.00	0.02	0.03	0.02	0.00	0.01	0.00	0.03	0.07	0.03	0.01	0.03	0.01	0.01	0.02	0.02	0.01	0.02	0.00
22	0.01	0.05	0.02	0.02	0.07	0.03	0.00	0.01	0.00	0.02	0.05	0.03	0.00	0.04	0.01	0.03	0.05	0.03	0.01	0.01	0.00	0.01	0.05	0.02	0.01	0.04	0.01
23	0.01	0.02	0.02	0.02	0.02	0.02	0.00	0.04	0.01	0.02	0.05	0.03	0.00	0.00	0.00	0.03	0.07	0.03	0.01	0.04	0.00	0.02	0.05	0.02	0.01	0.03	0.00
24	0.01	0.08	0.02	0.02	0.07	0.02	0.00	0.03	0.01	0.02	0.03	0.03	0.00	0.04	0.01	0.03	0.06	0.03	0.01	0.03	0.00	0.02	0.04	0.02	0.01	0.03	0.00
25	0.01	0.01	0.01	0.02	0.05	0.02	0.00	0.05	0.00	0.02	0.05	0.03	0.00	0.03	0.01	0.03	0.05	0.03	0.01	0.02	0.00	0.02	0.03	0.02	0.01	0.02	0.00
26	0.01	0.03	0.01	0.02	0.02	0.02	0.00	0.00	0.00	0.02	0.02	0.02	0.00	0.01	0.00	0.03	0.06	0.03	0.01	0.01	0.01	0.01	0.04	0.02	0.01	0.01	0.01
27	0.01	0.01	0.01	0.02	0.02	0.02	0.01	0.03	0.01	0.03	0.05	0.03	0.00	0.00	0.00	0.03	0.07	0.04	0.01	0.04	0.01	0.02	0.03	0.02	0.00	0.03	0.00
28	0.01	0.04	0.02	0.02	0.05	0.03	0.00	0.01	0.00	0.02	0.03	0.03	0.00	0.03	0.01	0.03	0.03	0.03	0.00	0.03	0.01	0.02	0.06	0.03	0.01	0.04	0.01
29	0.01	0.03	0.02	0.02	0.03	0.02	0.01	0.04	0.01	0.03	0.06	0.03	0.00	0.02	0.00	0.03	0.07	0.04	0.01	0.00	0.01	0.02	0.02	0.02	0.01	0.01	0.00
30	0.01	0.06	0.02	0.02	0.07	0.03	0.00	0.02	0.01	0.02	0.03	0.03	0.00	0.05	0.01	0.03	0.07	0.03	0.01	0.05	0.01	0.02	0.06	0.03	0.01	0.05	0.01
31	0.01	0.03	0.01	0.02	0.03	0.02	0.00	0.05	0.01	0.03	0.06	0.03	0.00	0.04	0.01	0.03	0.04	0.03	0.01	0.04	0.01	0.02	0.04	0.02	0.01	0.03	0.00
Monthly Min/Max/Avg	0.01	0.08	0.02	0.02	0.08	0.03	0.00	0.07	0.01	0.02	0.07	0.03	0.00	0.07	0.01	0.03	0.08	0.03	0.01	0.06	0.01	0.01	0.08	0.02	0.01	0.06	0.01

NOTES: ' -- ' indicates filter offline

1.2.10 E.L. Smith Filters 10 - 18 Turbidity (NTU)

July 2025

Filter	10			11			12			13			14			15			16			17			18		
Day	**Min**	**Max**	**Avg**	**Min**	**Max**	**Avg**	**Min**	**Max**	**Avg**	**Min**	**Max**	**Avg**	**Min**	**Max**	**Avg**	**Min**	**Max**	**Avg**	**Min**	**Max**	**Avg**	**Min**	**Max**	**Avg**	**Min**	**Max**	**Avg**
1	0.02	0.03	0.02	0.01	0.04	0.00	0.00	0.04	0.01	0.03	0.07	0.03	0.04	0.07	0.04	0.04	0.05	0.05	0.04	0.07	0.04	0.04	0.07	0.05	0.02	0.03	0.03
2	0.02	0.06	0.03	0.01	0.03	0.00	0.00	0.01	0.01	0.03	0.07	0.03	0.03	0.04	0.04	0.04	0.08	0.05	0.04	0.08	0.05	0.04	0.05	0.04	0.02	0.06	0.03
3	0.02	0.07	0.02	0.01	0.02	0.01	0.00	0.05	0.01	0.03	0.04	0.03	0.03	0.08	0.05	0.04	0.05	0.05	0.04	0.05	0.04	0.04	0.08	0.05	0.03	0.03	0.03
4	0.02	0.04	0.03	0.01	0.04	0.01	0.00	0.05	0.02	0.03	0.07	0.04	0.04	0.04	0.04	0.05	0.08	0.05	0.04	0.07	0.05	0.04	0.08	0.05	0.03	0.07	0.03
5	0.02	0.06	0.03	0.01	0.01	0.00	0.00	0.01	0.01	0.03	0.04	0.03	0.04	0.07	0.05	0.04	0.05	0.05	0.04	0.04	0.04	0.04	0.05	0.05	0.03	0.07	0.03
6	0.02	0.03	0.02	0.01	0.03	0.01	0.01	0.05	0.01	0.03	0.07	0.04	0.04	0.04	0.04	0.05	0.08	0.06	0.04	0.08	0.05	0.04	0.04	0.04	0.03	0.05	0.03
7	0.02	0.02	0.02	0.01	0.07	0.00	0.00	0.02	0.00	0.03	0.04	0.03	0.04	0.08	0.05	0.04	0.05	0.05	0.04	0.04	0.04	0.04	0.08	0.05	0.03	0.03	0.03
8	0.02	0.06	0.03	0.01	0.07	0.01	0.01	0.05	0.01	0.03	0.08	0.04	0.03	0.04	0.03	0.04	0.08	0.06	0.04	0.08	0.05	0.04	0.08	0.04	0.03	0.07	0.04
9	0.02	0.08	0.03	0.01	0.01	0.00	0.01	0.06	0.02	0.03	0.05	0.04	0.04	0.08	0.05	0.05	0.06	0.05	0.04	0.05	0.05	0.04	0.08	0.05	0.03	0.03	0.03
10	0.02	0.05	0.03	0.01	0.04	0.01	0.00	0.02	0.01	0.03	0.07	0.04	0.03	0.07	0.04	0.05	0.08	0.06	0.04	0.08	0.05	0.04	0.08	0.05	0.03	0.07	0.04
11	0.02	0.06	0.03	0.01	0.04	0.01	0.01	0.05	0.01	0.03	0.04	0.03	0.04	0.04	0.04	0.05	0.05	0.05	0.04	0.08	0.05	0.04	0.05	0.04	0.03	0.07	0.03
12	0.02	0.03	0.02	0.01	0.05	0.01	0.01	0.05	0.02	0.03	0.07	0.04	0.04	0.08	0.05	0.05	0.08	0.05	0.04	0.05	0.04	0.04	0.08	0.05	0.03	0.03	0.03
13	0.02	0.08	0.03	0.01	0.01	0.00	0.00	0.06	0.02	0.03	0.03	0.03	0.03	0.04	0.04	0.05	0.08	0.06	0.04	0.08	0.05	0.04	0.08	0.05	0.03	0.07	0.04
14	0.02	0.08	0.02	0.01	0.05	0.01	0.01	0.03	0.01	0.03	0.08	0.05	0.04	0.08	0.05	0.05	0.06	0.05	0.04	0.05	0.04	0.04	0.05	0.05	0.03	0.03	0.03
15	0.02	0.07	0.04	0.01	0.06	0.01	0.01	0.07	0.02	0.03	0.04	0.04	0.04	0.08	0.05	0.05	0.08	0.06	0.05	0.08	0.06	0.04	0.08	0.05	0.03	0.07	0.04
16	0.02	0.08	0.03	0.01	0.02	0.00	0.01	0.06	0.02	0.03	0.08	0.04	0.04	0.05	0.04	0.05	0.06	0.05	0.04	0.05	0.04	0.04	0.05	0.05	0.03	0.07	0.04
17	0.02	0.05	0.03	0.01	0.05	0.01	0.01	0.05	0.01	0.03	0.07	0.04	0.04	0.07	0.05	0.05	0.08	0.06	0.04	0.08	0.05	0.04	0.08	0.05	0.03	0.04	0.03
18	0.02	0.06	0.03	0.01	0.04	0.00	0.01	0.05	0.01	0.03	0.04	0.03	0.04	0.07	0.04	0.05	0.08	0.05	0.04	0.07	0.05	0.04	0.07	0.04	0.03	0.07	0.03
19	0.02	0.05	0.03	0.01	0.03	0.00	0.00	0.03	0.01	0.03	0.07	0.03	0.03	0.04	0.04	0.04	0.07	0.05	0.04	0.07	0.04	0.04	0.04	0.04	0.03	0.05	0.03
20	0.02	0.08	0.03	0.01	0.01	0.01	0.00	0.02	0.01	0.03	0.06	0.03	0.03	0.07	0.04	0.04	0.05	0.05	0.04	0.04	0.04	0.04	0.07	0.04	0.02	0.03	0.03
21	0.02	0.02	0.02	0.01	0.02	0.00	0.00	0.04	0.01	0.03	0.03	0.03	0.03	0.07	0.04	0.04	0.07	0.05	0.04	0.07	0.04	0.04	0.07	0.04	0.03	0.05	0.03
22	0.02	0.05	0.03	0.01	0.03	0.00	0.00	0.04	0.01	0.03	0.06	0.04	0.03	0.04	0.04	0.04	0.08	0.05	0.04	0.07	0.04	0.04	0.05	0.04	0.03	0.06	0.03
23	0.02	0.05	0.02	0.01	0.01	0.01	0.00	0.04	0.01	0.03	0.06	0.03	0.03	0.07	0.04	0.04	0.07	0.05	0.04	0.06	0.04	0.04	0.07	0.04	0.03	0.03	0.03
24	0.02	0.02	0.02	0.01	0.03	0.00	0.00	0.03	0.01	0.03	0.03	0.03	0.03	0.06	0.04	0.04	0.07	0.05	0.04	0.07	0.04	0.04	0.07	0.04	0.02	0.06	0.03
25	0.02	0.05	0.02	0.01	0.02	0.00	0.00	0.04	0.01	0.03	0.05	0.03	0.03	0.03	0.03	0.04	0.07	0.05	0.04	0.06	0.04	0.04	0.04	0.04	0.02	0.04	0.02
26	0.02	0.05	0.02	0.01	0.01	0.01	0.00	0.04	0.00	0.03	0.03	0.03	0.04	0.05	0.04	0.04	0.05	0.04	0.04	0.04	0.04	0.04	0.06	0.04	0.03	0.04	0.03
27	0.02	0.02	0.02	0.01	0.02	0.00	0.00	0.00	0.00	0.03	0.06	0.03	0.03	0.07	0.04	0.04	0.07	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.06	0.03
28	0.02	0.06	0.03	0.01	0.04	0.01	0.01	0.04	0.01	0.03	0.07	0.03	0.04	0.04	0.04	0.05	0.05	0.05	--	--	--	0.04	0.08	0.05	0.03	0.03	0.03
29	0.02	0.02	0.02	0.01	0.02	0.01	0.01	0.05	0.01	0.03	0.05	0.03	0.05	0.07	0.05	0.05	0.08	0.05	0.04	0.07	0.05	0.04	0.04	0.04	0.03	0.06	0.03
30	0.02	0.07	0.03	0.01	0.04	0.01	0.00	0.02	0.01	0.03	0.07	0.03	0.03	0.05	0.04	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.08	0.05	0.03	0.03	0.03
31	0.02	0.06	0.02	0.01	0.01	0.01	0.00	0.05	0.01	0.03	0.03	0.03	0.03	0.07	0.04	0.05	0.08	0.05	0.04	0.07	0.05	0.04	0.04	0.04	0.03	0.06	0.03
Monthly Min/Max/Avg	0.02	0.08	0.02	0.01	0.07	0.00	0.00	0.07	0.01	0.03	0.08	0.03	0.03	0.08	0.04	0.04	0.08	0.05	0.04	0.08	0.04	0.04	0.08	0.05	0.02	0.07	0.03

NOTES: ' -- ' indicates filter offline

1.2.11 Combined Filter Effluent Water Quality

July 2025

Day	Rossdale						E.L. Smith					
	Particle Counts (no./mL,>2um)			Turbidity (NTU)			Particle Counts (no./mL,>2um)			Turbidity (NTU)		
	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg
1	3	5	4	0.03	0.08	0.03	4	7	5	0.02	0.03	0.02
2	4	8	5	0.03	0.08	0.03	5	7	6	0.02	0.03	0.02
3	4	8	6	0.03	0.06	0.03	4	9	6	0.02	0.03	0.02
4	4	7	5	0.03	0.09	0.03	6	9	7	0.02	0.03	0.02
5	4	8	5	0.03	0.05	0.03	7	10	8	0.02	0.03	0.03
6	5	8	6	0.03	0.06	0.03	7	11	8	0.02	0.03	0.02
7	6	10	8	0.03	0.05	0.03	7	11	9	0.02	0.03	0.03
8	4	9	6	0.03	0.07	0.03	8	11	9	0.02	0.03	0.02
9	4	7	5	0.03	0.07	0.03	5	12	9	0.02	0.03	0.03
10	3	8	4	0.03	0.08	0.03	1	12	7	0.02	0.05	0.03
11	3	6	4	0.03	0.04	0.03	5	9	7	0.02	0.03	0.02
12	3	6	4	0.03	0.08	0.03	5	9	7	0.02	0.03	0.03
13	3	7	4	0.03	0.06	0.03	5	9	7	0.02	0.03	0.03
14	3	6	4	0.03	0.07	0.03	5	10	7	0.02	0.03	0.03
15	3	7	4	0.03	0.06	0.04	6	10	8	0.02	0.03	0.03
16	2	9	3	0.03	0.08	0.03	5	12	7	0.03	0.03	0.03
17	1	5	2	0.03	0.04	0.04	3	8	5	0.02	0.03	0.03
18	1	4	2	0.03	0.09	0.04	2	6	3	0.02	0.03	0.02
19	1	4	2	0.03	0.08	0.03	1	5	3	0.02	0.03	0.02
20	1	7	2	0.03	0.07	0.03	2	4	2	0.02	0.03	0.02
21	2	5	3	0.05	0.07	0.06	2	4	2	0.01	0.02	0.02
22	2	5	3	0.03	0.09	0.03	2	5	3	0.02	0.03	0.02
23	2	5	3	0.03	0.08	0.03	2	5	3	0.02	0.02	0.02
24	1	4	2	0.03	0.05	0.03	1	4	2	0.02	0.02	0.02
25	1	15	2	0.03	0.06	0.05	1	3	1	0.02	0.02	0.02
26	1	2	1	0.03	0.06	0.03	1	3	1	0.02	0.02	0.02
27	1	3	1	0.03	0.06	0.03	1	3	2	0.02	0.03	0.02
28	1	5	1	0.03	0.07	0.03	2	5	3	0.02	0.03	0.02
29	1	2	1	0.03	0.05	0.03	2	5	2	0.02	0.03	0.02
30	1	2	1	0.03	0.07	0.03	2	5	3	0.02	0.03	0.02
31	1	2	1	0.03	0.05	0.03	3	5	3	0.02	0.03	0.02
Monthly Min/Max/Avg	1	15	3	0.03	0.09	0.03	1	12	5	0.01	0.05	0.02

NOTES: ' -- ' indicates plant offline

1.2.12 Rossdale UV Disinfection - Filters 1 - 3

July 2025

Filter	1						2						3						Transmittance (%)		
Day	Dosage (mJ/cm²)			Flow (MLD)			Dosage (mJ/cm²)			Flow (MLD)			Dosage (mJ/cm²)			Flow (MLD)					
	Min	Max	Avg	Min	Max	Total	Min	Max	Avg	Min	Max	Total	Min	Max	Avg	Min	Max	Total	Min	Max	Avg
1	34.8	36.9	35.5	21.6	25.8	6.3	34.8	36.1	35.5	26.9	29.8	28.4	34.8	35.8	35.5	22.4	25.3	23.2	91.0	92.0	91.6
2	34.8	36.1	35.5	24.5	29.3	26.5	34.8	49.0	35.5	14.4	27.6	26.4	34.9	36.1	35.5	27.6	28.7	10.0	91.1	92.0	91.5
3	34.7	37.1	35.5	24.9	34.2	28.0	34.5	36.5	35.6	21.9	33.0	20.7	34.9	36.1	35.5	24.1	35.0	28.0	91.5	92.7	91.8
4	34.8	44.5	35.5	14.6	25.9	20.5	34.0	36.4	35.6	24.7	29.0	26.9	34.9	36.1	35.5	24.0	28.1	25.5	92.7	92.9	92.8
5	34.7	36.0	35.5	25.0	32.9	20.2	35.2	36.7	35.7	22.3	28.7	25.5	34.8	36.1	35.5	25.3	27.8	10.2	92.7	93.2	93.1
6	34.9	36.8	35.5	22.5	27.9	25.1	36.0	38.8	36.9	16.0	22.9	4.2	34.8	36.1	35.5	22.8	28.3	21.4	92.2	93.8	92.8
7	34.7	36.1	35.5	25.0	29.3	27.4	35.0	39.1	35.8	20.5	30.0	7.1	34.8	36.0	35.5	25.8	30.0	27.5	92.7	94.7	93.2
8	34.9	36.0	35.6	23.0	30.3	15.7	35.3	36.4	35.7	25.4	30.5	26.9	34.7	36.1	35.5	24.7	29.3	27.1	92.7	94.7	93.7
9	34.7	36.1	35.5	28.3	33.0	30.4	34.8	36.3	35.6	25.8	30.5	28.1	34.7	35.9	35.5	23.3	29.4	21.6	92.3	94.4	93.6
10	34.6	36.1	35.5	26.5	33.0	29.3	34.9	35.9	35.6	24.5	30.2	16.4	34.0	36.1	35.5	27.2	31.2	28.9	92.1	93.6	92.8
11	34.7	35.8	35.6	23.5	27.3	13.1	34.6	36.0	35.5	25.4	30.4	24.9	34.8	36.2	35.5	24.4	27.8	25.7	91.5	93.0	92.2
12	35.0	36.4	35.6	24.7	26.3	11.8	34.8	36.0	35.5	26.4	32.5	28.9	34.8	54.5	35.5	34.8	27.1	10.6	92.4	93.7	93.0
13	33.9	36.1	35.5	24.8	31.3	28.3	35.1	36.2	35.7	22.0	26.8	24.3	35.1	35.9	35.5	23.1	27.5	1.4	91.5	93.2	92.6
14	34.6	36.0	35.5	24.0	28.5	26.4	--	--	--	--	--	--	34.8	36.2	35.5	27.4	33.0	29.9	91.5	93.3	93.1
15	34.8	38.5	35.5	15.6	24.3	12.3	34.9	36.2	35.5	22.8	32.8	27.5	34.7	36.2	35.5	24.7	29.0	27.0	92.3	92.7	92.3
16	--	--	--	--	--	--	34.8	36.2	35.6	25.3	31.2	29.0	34.5	36.3	35.5	20.8	24.9	23.0	91.8	93.2	92.6
17	34.7	36.2	35.5	21.4	30.1	25.2	35.3	35.8	37.3	24.1	25.5	14.7	34.9	36.7	35.5	18.5	20.9	0.6	91.4	93.2	92.2
18	34.7	36.0	35.5	22.9	27.8	26.1	35.0	36.2	35.6	21.1	30.7	12.9	34.9	36.1	35.5	20.7	28.8	18.4	91.5	92.0	91.7
19	34.8	38.6	35.5	14.8	24.2	17.5	34.9	36.2	35.5	22.1	29.5	26.1	34.7	36.0	35.5	20.6	27.2	24.4	90.6	91.9	91.3
20	--	--	--	--	--	--	34.9	36.3	35.6	23.6	25.8	24.4	34.8	45.3	35.5	13.2	24.8	15.4	91.8	92.3	92.0
21	35.0	36.2	35.6	23.8	26.4	21.1	34.9	36.1	35.6	22.9	26.2	15.4	--	--	--	--	--	--	91.7	92.4	91.9
22	34.9	36.1	35.4	26.0	28.9	21.7	34.9	36.0	35.5	24.7	29.8	26.6	35.1	36.0	35.5	23.0	23.8	4.6	90.2	92.4	91.2
23	35.0	36.2	35.5	21.0	30.0	11.6	34.8	36.1	35.5	26.1	29.9	27.8	34.8	36.1	35.5	22.8	27.7	25.5	90.2	92.8	91.7
24	34.7	36.1	35.5	27.1	32.4	29.6	35.2	37.2	35.6	22.1	26.4	0.8	34.9	36.1	35.5	24.1	29.2	27.0	90.7	91.3	91.1
25	35.2	35.9	34.6	30.1	30.3	1.9	35.3	36.7	35.4	22.3	31.1	21.7	35.2	38.5	35.3	21.0	33.9	23.3	90.0	91.3	90.8
26	35.1	36.2	35.5	20.9	26.2	20.8	34.9	38.0	35.5	19.5	25.0	16.3	34.9	35.6	35.6	21.8	24.0	11.0	89.7	91.7	90.6
27	34.5	36.2	35.5	23.4	28.4	27.2	--	--	--	--	--	--	34.9	38.0	35.5	21.0	28.3	25.8	90.6	91.5	91.2
28	34.8	36.1	35.5	24.7	27.2	26.5	34.7	36.2	35.6	20.9	26.3	14.9	34.9	37.0	35.5	24.4	27.5	25.8	90.6	91.9	91.5
29	34.7	37.7	35.5	20.1	27.0	5.1	34.8	36.1	35.5	24.4	28.8	26.5	34.8	38.5	35.5	23.2	26.9	14.8	90.3	91.9	91.0
30	34.7	36.1	35.5	21.8	31.2	25.5	34.9	36.0	35.5	25.4	29.1	27.2	34.8	36.0	35.5	20.8	23.4	4.5	91.5	91.9	91.7
31	34.8	36.3	35.5	26.9	29.7	27.7	34.9	35.9	35.6	24.0	31.3	12.1	34.8	36.1	35.5	21.2	30.9	27.5	91.2	92.3	91.7
Monthly Total						608.4						612.6						589.8			
Monthly Min/Max/ Avg	33.9	44.5	35.5	14.6	34.2		34.0	49.0	35.7	14.4	33.0		34.0	54.5	35.5	13.2	35.0		89.7	94.7	92.1

NOTES: - Each filter has a UV reactor
- Transmittance (%) is a grab sample of the filter effluent prior to the UV reactor of a random online filter
' -- ' indicates filter and UV reactor offline

1.2.13 Rossdale UV Disinfection - Filters 4 - 6

July 2025

Filter	4						5						6						Transmittance (%)		
Day	Dosage (mJ/cm²)			Flow (MLD)			Dosage (mJ/cm²)			Flow (MLD)			Dosage (mJ/cm²)			Flow (MLD)					
	Min	Max	Avg	Min	Max	Total	Min	Max	Avg	Min	Max	Total	Min	Max	Avg	Min	Max	Total	Min	Max	Avg
1	34.1	36.7	35.6	22.5	27.4	22.3	34.6	36.0	35.5	23.5	24.8	8.4	35.2	35.9	35.6	24.9	27.8	17.3	91.0	92.0	91.6
2	34.7	36.7	35.7	23.9	26.6	25.5	34.8	36.2	35.5	23.8	27.8	26.4	35.2	36.0	35.6	26.1	27.4	16.4	91.1	92.0	91.5
3	34.8	36.8	35.6	22.0	31.4	24.8	34.8	36.3	35.5	23.1	31.3	26.1	35.2	36.2	35.6	25.3	38.2	29.9	91.5	92.7	91.8
4	34.0	37.5	35.6	18.4	23.6	9.8	34.8	38.4	35.5	14.0	24.8	21.1	35.1	36.1	35.6	26.8	30.8	28.2	92.7	92.9	92.8
5	34.8	37.0	35.7	21.8	30.0	24.6	34.7	36.3	35.5	23.1	29.9	25.7	35.3	38.9	35.6	12.2	30.3	14.2	92.7	93.2	93.1
6	34.9	48.0	35.7	13.5	24.6	19.5	34.6	36.2	35.5	22.6	25.8	24.5	34.6	36.1	35.6	21.5	31.0	26.4	92.2	93.8	92.8
7	--	--	--	--	--	--	34.9	36.2	35.5	23.0	26.5	18.3	35.2	36.0	35.6	28.5	31.9	30.2	92.7	94.7	93.2
8	34.8	36.8	35.7	23.1	28.0	25.7	34.5	37.3	35.7	19.7	25.1	12.1	35.1	36.0	35.6	26.0	31.4	26.4	92.7	94.7	93.7
9	34.8	36.9	35.7	25.0	29.4	27.0	34.8	36.4	35.5	24.2	30.5	27.8	35.2	36.0	35.6	25.9	32.7	25.6	92.3	94.4	93.6
10	34.5	36.8	35.7	22.1	29.2	25.9	34.6	36.2	35.5	24.4	30.3	27.5	35.2	36.2	35.6	26.1	34.0	30.5	92.1	93.6	92.8
11	34.9	36.8	35.7	21.1	23.0	4.4	34.3	36.1	35.5	22.6	25.4	10.3	35.2	36.0	35.6	26.1	30.9	27.4	91.5	93.0	92.2
12	34.8	39.2	36.5	18.2	28.0	22.2	34.4	36.5	35.5	20.2	31.8	16.3	35.2	37.1	35.6	22.1	30.7	1.8	92.4	93.7	93.0
13	34.7	36.8	35.7	23.6	29.2	27.0	34.1	36.2	35.5	25.9	30.0	27.7	35.0	35.9	35.6	21.1	36.4	27.6	91.5	93.2	92.6
14	34.6	36.9	35.7	21.6	25.5	23.8	34.9	36.8	35.5	22.3	27.4	14.8	35.2	36.0	35.6	29.6	34.6	32.0	91.5	93.3	93.1
15	34.7	38.0	35.7	16.8	31.8	14.4	--	--	--	--	--	--	35.2	36.1	35.6	24.4	29.8	27.6	92.3	92.7	92.3
16	34.9	36.9	35.6	25.0	28.4	27.3	34.3	36.1	35.5	20.0	28.6	22.4	35.2	35.5	35.6	22.0	32.7	16.1	91.8	93.2	92.6
17	34.9	40.2	36.4	17.5	25.8	21.5	35.0	36.6	35.6	21.1	27.5	24.6	35.2	38.1	35.6	24.7	33.5	28.6	91.4	93.2	92.2
18	34.9	48.2	35.7	13.6	23.9	5.9	34.8	36.3	35.5	18.0	25.0	22.0	35.2	36.2	35.6	23.2	29.2	26.3	91.5	92.0	91.7
19	34.9	36.7	35.6	22.2	27.4	25.3	34.7	36.1	35.5	19.8	20.4	7.0	35.2	37.3	35.6	19.1	23.7	13.4	90.6	91.9	91.3
20	34.8	36.9	35.7	23.1	26.3	25.0	34.6	36.4	35.5	19.9	28.1	25.6	35.2	36.0	35.4	21.3	26.9	9.7	91.8	92.3	92.0
21	34.6	36.9	35.7	20.9	24.0	13.2	34.7	36.2	35.5	23.2	26.5	25.0	35.2	36.0	35.6	24.9	26.8	25.9	91.7	92.4	91.9
22	--	--	--	--	--	--	34.9	35.9	35.6	19.6	24.6	10.9	35.0	41.2	35.6	14.8	29.0	17.6	90.2	92.4	91.2
23	34.9	36.6	35.6	18.0	27.3	12.8	34.9	36.2	35.5	23.6	29.4	26.7	--	--	--	--	--	--	90.2	92.8	91.7
24	34.7	36.1	35.5	25.2	30.8	28.0	34.6	36.2	35.5	24.3	28.0	26.0	34.7	36.3	35.6	21.4	32.4	29.5	90.7	91.3	91.1
25	35.4	36.8	35.5	20.1	29.0	15.6	35.3	36.2	35.4	20.1	29.1	14.6	35.2	36.0	35.5	25.6	35.0	25.3	90.0	91.3	90.8
26	34.9	36.6	35.6	20.8	27.6	24.1	34.6	36.1	35.5	23.2	25.0	24.2	35.2	38.4	35.6	17.9	27.7	5.5	89.7	91.7	90.6
27	34.8	36.5	35.5	23.8	25.8	6.8	34.7	36.1	35.5	22.9	29.3	26.0	34.6	36.5	35.6	21.6	32.7	16.0	90.6	91.5	91.2
28	--	--	--	--	--	--	35.0	36.0	35.6	20.8	25.1	4.5	35.2	35.9	35.6	25.6	28.7	27.6	90.6	91.9	91.5
29	34.8	36.2	35.5	23.1	27.7	22.2	--	--	--	--	--	--	35.2	35.9	35.6	25.9	31.6	28.4	90.3	91.9	91.0
30	34.8	36.5	35.6	26.2	31.2	28.4	34.4	36.7	35.6	19.8	27.6	15.3	35.2	36.0	35.6	24.3	31.6	10.8	91.5	91.9	91.7
31	34.8	36.9	35.7	23.6	28.1	26.8	34.8	36.1	35.5	25.5	28.4	26.8	35.2	35.9	35.6	25.5	31.4	28.7	91.2	92.3	91.7
Monthly Total						579.6						588.4						670.8			
Monthly Min/Max/ Avg	34.0	48.2	35.7	13.5	31.8		34.1	38.4	35.5	14.0	31.8		34.6	41.2	35.6	12.2	38.2		89.7	94.7	92.1

NOTES: - Each filter has a UV reactor
- Transmittance (%) is a grab sample of the filter effluent prior to the UV reactor of a random online filter
' -- ' indicates filter and UV reactor offline

1.2.14 Rossdale UV Disinfection - Filters 7 - 9

July 2025

Filter	7						8						9						Transmittance (%)		
Day	Dosage (mJ/cm²)			Flow (MLD)			Dosage (mJ/cm²)			Flow (MLD)			Dosage (mJ/cm²)			Flow (MLD)					
	Min	Max	Avg	Min	Max	Total	Min	Max	Avg	Min	Max	Total	Min	Max	Avg	Min	Max	Total	Min	Max	Avg
1	34.4	36.5	35.5	22.3	24.0	23.0	34.8	36.0	35.6	25.0	31.1	29.2	33.7	36.4	35.4	25.7	31.5	29.9	91.0	92.0	91.6
2	0.0	70.7	35.5	0.0	28.1	8.7	35.1	36.1	35.6	26.6	30.2	29.0	34.8	36.3	35.5	27.1	29.7	15.9	91.1	92.0	91.5
3	34.9	36.0	35.6	20.5	26.4	9.9	35.1	52.2	35.6	20.6	27.1	6.4	34.6	36.2	35.5	24.0	35.0	28.6	91.5	92.7	91.8
4	34.5	36.0	35.5	24.6	25.7	15.8	34.9	36.1	35.6	25.8	31.9	29.5	34.9	36.1	35.6	27.4	33.5	29.1	92.7	92.9	92.8
5	--	--	--	--	--	--	35.0	36.1	35.6	26.5	30.7	29.1	34.8	37.9	35.6	17.6	33.3	22.6	92.7	93.2	93.1
6	--	--	--	--	--	--	35.1	39.1	35.6	17.1	27.7	18.7	34.2	36.1	35.5	21.7	32.3	8.5	92.2	93.8	92.8
7	--	--	--	--	--	--	35.0	36.0	35.6	27.4	35.1	9.4	34.9	36.3	35.6	28.4	33.0	30.6	92.7	94.7	93.2
8	--	--	--	--	--	--	35.0	36.1	35.6	27.6	30.0	28.9	35.0	36.1	35.6	26.9	31.0	28.5	92.7	94.7	93.7
9	--	--	--	--	--	--	35.0	36.1	35.6	26.8	33.5	28.7	34.9	37.6	35.6	22.1	30.6	18.1	92.3	94.4	93.6
10	--	--	--	--	--	--	35.0	36.0	35.6	20.9	33.6	17.4	31.3	36.2	35.3	25.8	36.8	26.3	92.1	93.6	92.8
11	34.6	36.2	35.5	25.0	31.1	17.1	35.1	36.1	35.6	28.6	32.1	30.6	34.9	36.2	35.6	27.6	31.1	29.6	91.5	93.0	92.2
12	34.5	36.7	35.5	29.4	35.0	31.8	35.1	36.9	35.6	25.6	34.6	29.6	35.0	36.2	35.6	28.2	33.2	30.3	92.4	93.7	93.0
13	34.4	36.4	35.4	25.0	31.2	13.7	35.1	37.3	35.6	19.4	32.1	12.8	35.0	50.2	35.6	13.0	33.3	19.6	91.5	93.2	92.6
14	34.3	36.0	35.6	20.7	35.0	14.1	35.1	36.0	35.6	21.3	32.6	17.3	35.0	36.2	35.6	28.9	32.0	30.5	91.5	93.3	93.1
15	35.1	36.1	35.6	30.9	34.5	32.3	35.1	36.1	35.6	29.3	33.6	30.6	34.9	36.3	35.6	27.4	30.8	28.7	92.3	92.7	92.3
16	35.4	37.2	35.5	28.4	31.5	19.3	35.2	36.1	35.6	29.5	32.2	19.6	35.0	36.4	35.6	25.1	29.2	14.7	91.8	93.2	92.6
17	35.1	36.0	35.6	25.8	26.9	11.1	--	--	--	--	--	--	--	--	--	--	--	--	91.4	93.2	92.2
18	35.0	36.0	35.6	25.3	30.2	28.0	34.8	36.1	35.6	27.9	32.5	18.5	32.3	36.5	35.1	22.1	32.1	19.1	91.5	92.0	91.7
19	35.0	36.2	35.6	24.4	28.3	26.5	35.0	36.4	35.6	26.4	28.9	27.6	33.2	36.5	35.0	26.3	30.5	28.9	90.6	91.9	91.3
20	35.0	37.2	35.6	21.0	26.6	8.0	35.0	36.0	35.6	23.4	28.6	26.6	34.7	36.2	35.6	22.6	28.2	25.9	91.8	92.3	92.0
21	35.0	36.1	35.6	24.8	26.6	25.8	35.0	35.9	35.6	22.8	25.3	16.6	34.8	36.1	35.5	26.5	27.4	8.8	91.7	92.4	91.9
22	35.1	36.2	35.6	24.5	29.8	26.6	35.0	36.0	35.6	28.4	31.3	25.2	34.0	36.2	35.5	25.6	30.6	26.9	90.2	92.4	91.2
23	34.8	37.7	35.6	23.7	30.2	16.5	35.1	36.1	35.6	28.5	30.8	29.6	33.9	36.4	35.5	27.6	30.0	28.8	90.2	92.8	91.7
24	33.3	35.3	34.5	25.8	27.8	0.3	35.0	44.0	35.6	14.0	32.9	28.1	31.5	38.4	35.1	17.5	33.6	10.5	90.7	91.3	91.1
25	35.3	36.1	35.5	19.2	21.0	8.7	35.2	36.0	35.5	27.6	33.6	24.3	34.5	36.3	35.2	20.4	32.4	20.8	90.0	91.3	90.8
26	35.0	36.1	35.5	20.0	21.6	20.9	34.4	36.4	35.6	23.2	31.9	28.1	31.1	36.7	35.4	22.4	31.1	25.6	89.7	91.7	90.6
27	35.0	36.2	35.6	20.0	30.6	24.2	34.9	36.1	35.6	27.6	30.2	12.1	35.2	37.8	35.6	22.5	24.4	0.6	90.6	91.5	91.2
28	35.2	36.0	35.6	27.5	30.1	15.8	35.0	36.0	35.6	21.0	21.7	9.2	34.8	36.1	35.5	25.1	27.9	22.6	90.6	91.9	91.5
29	33.5	36.2	35.4	20.4	30.8	12.7	35.0	36.3	35.6	20.5	30.8	26.4	32.0	36.4	35.1	25.5	33.8	28.6	90.3	91.9	91.0
30	31.4	36.5	35.3	27.7	31.6	29.8	35.0	36.4	35.6	27.8	31.7	29.7	31.5	38.6	34.9	19.7	33.8	22.4	91.5	91.9	91.7
31	33.9	36.5	35.2	26.5	29.4	27.6	35.1	36.7	35.6	25.4	32.5	21.2	33.7	36.1	35.6	21.6	32.0	26.0	91.2	92.3	91.7
Monthly Total						468.1						690.0						686.9			
Monthly Min/Max/ Avg	0.0	70.7	35.5	0.0	35.0		34.4	52.2	35.6	14.0	35.1		31.1	50.2	35.4	13.0	36.8		89.7	94.7	92.1

NOTES: - Each filter has a UV reactor
- Transmittance (%) is a grab sample of the filter effluent prior to the UV reactor of a random online filter
' -- ' indicates filter and UV reactor offline

1.2.15 E.L. Smith UV Disinfection - UV Reactors 1 - 4

July 2025

Filter	1						2						3						4						Transmittance (%)		
Day	Dosage (mJ/cm²)			Flow (MLD)			Dosage (mJ/cm²)			Flow (MLD)			Dosage (mJ/cm²)			Flow (MLD)			Dosage (mJ/cm²)			Flow (MLD)					
	Min	Max	Avg	Min	Max	Total	Min	Max	Avg	Min	Max	Total	Min	Max	Avg	Min	Max	Total	Min	Max	Avg	Min	Max	Total	Min	Max	Avg
1	63.8	74.2	68.5	76.2	101.8	94.6	--	--	--	--	--	--	66.2	80.2	71.0	81.9	106.7	100.7	46.9	47.2	47.1	78.4	89.3	86.6	91.0	91.8	91.4
2	63.0	71.5	66.7	81.8	108.0	97.0	--	--	--	--	--	--	64.7	79.3	69.0	88.6	111.4	103.1	46.9	47.2	47.1	77.3	94.5	88.9	91.0	91.7	91.3
3	52.1	73.7	63.1	70.5	114.9	96.0	63.7	71.9	69.4	47.5	57.8	16.6	66.3	83.0	72.4	80.8	119.3	104.3	46.9	47.3	47.1	69.6	100.9	88.1	91.2	91.8	91.6
4	50.2	65.3	58.1	65.9	80.4	75.4	64.1	80.7	71.7	44.4	55.2	51.4	79.2	96.0	86.9	76.3	91.9	87.3	46.9	47.3	47.1	64.3	75.4	70.7	91.5	92.6	91.9
5	50.3	62.4	56.3	67.4	102.4	88.1	74.6	77.2	75.8	48.9	53.5	18.5	82.6	96.6	88.1	76.4	108.9	96.6	46.9	47.3	47.1	65.3	89.7	81.4	92.6	93.0	92.7
6	50.8	66.8	57.7	73.0	102.4	87.6	--	--	--	--	--	--	66.3	97.5	89.4	76.9	106.2	93.0	46.9	47.2	47.1	72.7	89.9	80.1	92.7	93.1	92.8
7	58.1	68.8	61.3	69.9	99.4	87.5	--	--	--	--	--	--	62.3	70.7	65.5	73.9	103.8	93.4	46.9	47.2	47.1	68.6	88.9	80.4	93.0	93.5	93.3
8	51.6	59.2	54.8	88.3	108.1	100.1	--	--	--	--	--	--	53.9	65.3	59.7	95.1	113.3	106.2	46.9	47.3	47.1	83.1	95.2	91.8	92.9	93.5	93.3
9	45.4	72.4	58.4	88.7	111.0	102.1	--	--	--	--	--	--	45.7	72.2	51.1	95.9	117.1	108.7	46.9	47.2	47.1	86.7	99.7	93.7	92.0	92.9	92.4
10	46.3	90.4	57.8	53.3	110.5	83.0	--	--	--	--	--	--	45.8	104.5	48.1	57.0	115.6	88.3	46.9	103.7	42.9	47.5	97.6	75.9	91.7	92.9	92.3
11	48.8	80.5	61.1	73.7	101.5	94.5	54.8	158.4	118.8	30.6	35.6	34.0	49.5	88.0	54.8	82.4	106.1	100.5	46.9	47.2	47.1	71.8	90.2	86.3	91.7	92.3	92.1
12	48.3	55.9	52.0	82.7	100.7	94.5	--	--	--	--	--	--	49.6	57.9	52.9	87.5	106.5	100.7	46.7	47.3	47.1	76.4	89.7	86.5	92.3	92.9	92.5
13	50.0	68.9	56.8	73.6	101.2	88.0	--	--	--	--	--	--	51.4	69.0	58.2	77.5	105.9	93.1	47.0	47.3	47.1	69.0	91.1	80.7	92.3	92.8	92.5
14	50.6	64.4	56.5	73.4	101.4	89.2	--	--	--	--	--	--	51.2	66.8	57.5	78.3	107.7	94.8	47.0	47.3	47.1	68.6	90.2	81.7	92.4	92.8	92.6
15	49.7	60.3	53.3	82.8	101.8	94.4	--	--	--	--	--	--	47.6	81.9	54.1	85.8	108.1	98.1	46.9	47.2	47.1	77.9	92.4	86.7	92.3	93.4	92.8
16	46.9	59.0	51.5	84.6	109.4	98.5	--	--	--	--	--	--	45.6	57.3	50.1	86.3	109.2	98.9	47.0	47.2	47.1	80.3	98.0	89.9	92.3	93.0	92.7
17	45.9	80.3	59.5	70.2	113.0	96.7	49.4	116.2	54.8	28.4	79.0	14.0	44.7	77.2	59.1	74.3	111.8	97.7	46.9	47.3	47.1	70.7	99.8	88.5	91.8	92.4	92.1
18	46.0	54.8	49.4	70.8	86.1	81.0	45.9	78.5	55.3	65.4	81.3	74.8	46.1	55.4	50.3	70.1	87.7	79.8	46.9	47.3	47.1	68.9	77.9	75.7	90.9	92.0	91.4
19	45.8	77.3	60.0	66.4	86.6	79.4	47.1	81.5	62.9	61.1	80.3	73.2	47.0	77.3	59.6	63.5	84.2	76.4	46.9	47.2	47.1	63.3	79.8	74.1	90.8	92.0	91.3
20	57.4	69.1	63.3	57.7	77.1	66.0	56.6	67.0	62.7	53.3	70.4	60.8	63.1	74.9	69.7	54.7	73.8	63.5	46.9	47.3	47.1	56.4	70.3	61.5	91.7	92.3	91.9
21	59.2	67.1	62.5	55.1	69.6	64.8	57.9	67.3	61.9	51.2	64.4	59.8	65.8	73.2	68.6	53.9	66.5	62.5	46.9	47.3	47.1	55.6	62.5	60.6	91.3	92.3	91.6
22	47.1	76.9	64.1	58.5	96.2	79.6	58.7	115.7	60.3	54.1	63.7	19.1	46.1	78.0	65.6	56.3	97.1	79.4	46.9	47.2	47.1	59.5	84.0	73.0	91.2	91.5	91.3
23	46.0	78.4	64.0	79.7	103.3	94.4	--	--	--	--	--	--	45.7	76.6	60.6	82.4	105.1	95.2	47.0	47.2	47.1	81.4	91.5	86.0	91.2	92.3	91.6
24	63.9	72.2	68.2	80.9	102.8	92.8	--	--	--	--	--	--	65.9	74.6	70.0	82.5	103.2	93.5	44.7	47.3	46.7	75.9	90.6	84.4	90.6	91.4	90.9
25	66.9	75.2	71.2	81.6	105.5	94.2	--	--	--	--	--	--	46.3	76.7	66.3	82.5	106.1	95.1	46.9	47.3	47.1	77.2	91.4	85.9	90.6	91.3	91.0
26	46.1	76.4	61.3	82.5	101.8	93.5	--	--	--	--	--	--	46.9	77.7	61.0	83.4	101.5	94.1	46.8	47.3	47.1	81.5	89.6	85.1	90.7	91.8	91.4
27	47.9	75.6	56.6	74.9	95.6	86.2	--	--	--	--	--	--	46.7	77.9	57.8	75.2	96.1	87.1	46.6	47.2	47.1	71.4	85.1	78.7	90.7	91.6	91.1
28	46.3	63.7	48.7	71.9	90.0	84.4	--	--	--	--	--	--	49.4	56.8	52.1	73.3	91.2	84.9	46.9	47.3	47.1	70.1	81.1	76.8	91.1	91.6	91.2
29	45.8	77.9	67.8	73.2	95.9	87.8	--	--	--	--	--	--	45.0	75.7	57.4	74.0	96.2	88.6	46.9	47.2	47.1	73.8	84.2	79.9	90.6	91.6	91.1
30	45.1	78.2	62.4	65.0	100.6	84.5	51.3	169.0	61.8	59.6	95.6	48.2	47.1	59.4	51.7	72.2	101.9	88.6	40.7	99.8	48.1	30.0	90.0	65.4	91.2	91.5	91.4
31	53.0	60.6	55.7	72.0	86.8	81.8	50.8	60.1	54.3	64.9	80.8	75.3	53.9	61.1	56.6	76.8	93.7	88.0	46.4	47.4	47.1	68.9	80.5	76.6	91.5	92.1	91.9
Monthly Total						2,737.6						545.6						2,841.9						2,501.7			
Monthly Min/Max/ Avg	45.1	90.4	59.6	53.3	114.9		45.9	169.0	67.5	28.4	95.6		44.7	104.5	62.4	53.9	119.3		40.7	103.7	47.0	30.0	100.9		90.6	93.5	91.9

NOTES: ' -- ' indicates UV reactor offline

- Transmittance (%) is a grab sample of the combined filter effluent prior to the UV reactor

1.2.16 Log Removal

July 2025

Day	Rossdale									E.L. Smith								
	Log Removal									Log Removal								
	Giardia			Virus			*Cryptosporidium*			*Giardia*			Virus			*Cryptosporidium*		
	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg
1	10.6	11.3	11.0	33	39	36	7.0	7.0	7.0	7.5	7.6	7.6	19	25	23	7.0	7.0	7.0
2	10.8	11.2	11.0	36	41	38	7.0	7.0	7.0	7.5	7.7	7.6	22	27	25	7.0	7.0	7.0
3	10.6	11.6	11.1	33	45	39	6.9	7.0	7.0	7.5	7.8	7.6	21	31	26	7.0	7.0	7.0
4	10.9	11.4	11.1	36	44	41	7.0	7.0	7.0	7.5	7.7	7.6	21	30	26	7.0	7.0	7.0
5	10.7	11.3	11.0	32	38	35	7.0	7.0	7.0	7.6	7.7	7.6	22	27	25	7.0	7.0	7.0
6	11.2	11.9	11.5	37	43	39	7.0	7.0	7.0	7.5	7.6	7.6	19	26	23	7.0	7.0	7.0
7	10.6	11.9	11.4	35	38	36	7.0	7.0	7.0	7.5	7.6	7.6	21	26	24	7.0	7.0	7.0
8	10.7	11.2	10.9	33	41	39	7.0	7.0	7.0	7.5	7.6	7.6	19	25	22	7.0	7.0	7.0
9	11.0	11.5	11.2	34	43	39	7.0	7.0	7.0	7.5	7.7	7.6	19	26	24	7.0	7.0	7.0
10	10.7	11.6	11.3	34	42	39	7.0	7.0	7.0	7.5	7.8	7.6	20	30	25	7.0	7.0	7.0
11	11.2	11.8	11.5	36	41	38	7.0	7.0	7.0	7.5	7.7	7.6	19	26	22	7.0	7.0	7.0
12	11.3	11.7	11.5	35	41	38	7.0	7.0	7.0	7.6	7.7	7.6	22	26	24	7.0	7.0	7.0
13	11.3	12.3	11.9	38	42	40	7.0	7.0	7.0	7.5	7.7	7.6	19	28	24	7.0	7.0	7.0
14	11.2	12.5	11.9	39	42	40	7.0	7.0	7.0	7.5	7.7	7.6	20	26	24	7.0	7.0	7.0
15	10.6	11.3	11.0	34	41	38	7.0	7.0	7.0	7.6	7.7	7.6	22	26	24	7.0	7.0	7.0
16	10.7	13.2	11.6	32	39	36	7.0	7.0	7.0	7.5	7.6	7.6	20	25	23	7.0	7.0	7.0
17	10.2	13.4	12.0	29	40	35	7.0	7.0	7.0	7.5	7.7	7.6	18	27	23	7.0	7.0	7.0
18	10.1	11.4	10.4	29	35	33	7.0	7.0	7.0	7.5	7.6	7.6	19	26	22	7.0	7.0	7.0
19	10.2	11.1	10.6	33	37	35	7.0	7.0	7.0	7.5	7.6	7.6	20	25	22	7.0	7.0	7.0
20	10.9	11.3	11.2	34	37	36	7.0	7.0	7.0	7.5	7.6	7.5	19	23	21	7.0	7.0	7.0
21	11.0	11.6	11.3	35	37	36	7.0	7.0	7.0	7.4	7.6	7.5	17	23	21	7.0	7.0	7.0
22	10.5	11.1	10.8	30	37	32	7.0	7.0	7.0	7.4	7.6	7.5	18	23	20	7.0	7.0	7.0
23	10.2	10.9	10.5	29	33	31	7.0	7.0	7.0	7.4	7.6	7.5	18	23	20	7.0	7.0	7.0
24	10.2	10.9	10.6	28	31	30	7.0	7.0	7.0	7.4	7.5	7.5	16	21	19	7.0	7.0	7.0
25	10.4	11.2	10.8	26	35	29	7.0	7.0	7.0	7.5	7.6	7.5	19	22	21	7.0	7.0	7.0
26	10.6	12.0	11.2	31	35	33	7.0	7.0	7.0	7.4	7.6	7.5	18	23	21	7.0	7.0	7.0
27	11.5	12.4	12.0	29	35	33	7.0	7.0	7.0	7.4	7.6	7.5	17	24	21	7.0	7.0	7.0
28	11.2	12.0	11.5	33	35	34	7.0	7.0	7.0	7.5	7.6	7.5	19	24	21	7.0	7.0	7.0
29	10.6	11.6	11.1	32	35	34	7.0	7.0	7.0	7.4	7.5	7.5	17	22	20	7.0	7.0	7.0
30	10.7	11.0	10.8	30	35	33	7.0	7.0	7.0	7.4	7.6	7.5	18	26	22	7.0	7.0	7.0
31	10.6	11.0	10.9	33	37	36	7.0	7.0	7.0	7.4	7.6	7.5	18	25	22	7.0	7.0	7.0
Monthly Min/Max/Avg	10.1	13.4	11.2	26	45	36	6.9	7.0	7.0	7.4	7.8	7.6	16	31	23	7.0	7.0	7.0

NOTES: ' -- ' indicates plant offline

1.2.17 Liquid Alum Chemical Consumption

July 2025

Day	Dosage (mg/L)			Consumption (kg)			
	Rossdale		E.L. Smith	Rossdale			E.L. Smith
	Plant 1	Plant 2		Plant 1	Plant 2	Plant Total	
1	48.0	48.0	60.4	7,912	11,873	19,786	37,305
2	44.4	44.3	57.4	7,315	10,966	18,282	36,381
3	44.6	44.6	53.8	8,266	11,342	19,607	35,859
4	42.8	42.8	50.1	8,185	10,839	19,024	31,264
5	37.8	37.7	45.4	5,678	8,478	14,156	28,171
6	34.5	34.5	39.9	4,263	6,983	11,247	22,614
7	33.0	32.9	36.7	4,306	6,546	10,852	21,110
8	34.3	34.3	35.0	5,686	8,541	14,227	23,053
9	37.7	37.6	49.0	7,035	9,574	16,610	32,700
10	40.0	40.0	50.8	7,470	9,947	17,417	28,557
11	40.0	40.0	49.8	6,604	9,087	15,691	30,789
12	39.3	39.4	48.5	6,739	8,749	15,488	30,090
13	35.0	35.0	46.2	6,495	7,045	13,540	26,750
14	35.0	35.0	46.7	7,278	6,487	13,765	27,504
15	35.0	35.0	46.1	7,937	6,494	14,430	28,594
16	36.1	36.7	45.0	8,774	4,260	13,034	28,373
17	41.1	--	51.9	11,199	--	11,199	34,683
18	47.9	48.4	67.1	12,567	7,294	19,861	45,770
19	51.8	52.5	71.2	10,237	11,691	21,927	46,844
20	55.5	55.4	70.0	7,171	11,743	18,915	38,541
21	55.1	55.1	73.8	6,694	11,484	18,178	39,633
22	57.7	57.7	73.4	7,069	12,857	19,926	40,629
23	57.5	57.5	77.9	8,428	13,720	22,148	47,134
24	77.5	77.6	113	11,621	18,121	29,743	68,157
25	115	115	149	15,714	23,993	39,707	90,564
26	109	109	145	15,930	24,935	40,865	86,022
27	92.2	92.0	110	10,445	17,165	27,610	60,623
28	75.7	75.7	91.1	8,801	15,034	23,836	48,830
29	72.4	72.4	90.4	8,956	16,217	25,173	50,645
30	65.4	65.8	79.0	10,430	16,425	26,855	49,714
31	60.0	60.0	74.8	12,256	15,911	28,168	52,473
Monthly Total				267,465	353,801	621,267	1,269,375
Monthly Avg	53.3	53.8	67.7	8,628	11,793	20,041	40,948

NOTES : ' -- ' indicates system offline
- Liquid alum consumption (kg) at 48.5% by weight (solution delivered to sites at a concentration of 48.5%)
- NSF limit for liquid alum is **194 mg/L**

1.2.18 Primary Polymer (Magnafloc LT 27AG) Chemical Consumption

July 2025

Day	Dosage (mg/L)			Consumption (kg)			
	Rossdale		E.L. Smith	Rossdale			E.L. Smith
	Plant 1	Plant 2		Plant 1	Plant 2	Plant Total	
1	0.33	0.33	0.19	27	40	66	56
2	0.35	0.35	0.19	28	42	70	57
3	0.31	0.31	0.19	28	38	66	60
4	0.30	0.30	0.19	28	37	65	56
5	0.30	0.30	0.19	22	33	55	56
6	0.30	0.30	0.19	18	29	47	51
7	0.30	0.30	0.17	19	29	48	49
8	0.28	0.28	0.19	22	33	55	60
9	0.25	0.25	0.19	23	31	54	61
10	0.25	0.25	0.19	23	30	53	51
11	0.25	0.25	0.19	20	28	48	56
12	0.25	0.25	0.19	21	27	48	57
13	0.25	0.25	0.19	23	24	47	53
14	0.25	0.25	0.19	25	23	48	54
15	0.27	0.27	0.19	30	24	54	57
16	0.26	0.27	0.19	31	15	46	58
17	0.25	--	0.20	33	--	33	66
18	0.27	0.27	0.20	34	20	54	67
19	0.30	0.30	0.20	29	32	61	64
20	0.31	0.31	0.19	19	31	51	52
21	0.27	0.27	0.19	16	27	43	49
22	0.25	0.25	0.19	15	27	42	51
23	0.30	0.30	0.19	21	35	56	55
24	0.32	0.32	0.21	23	36	60	60
25	0.37	0.37	0.22	24	37	61	65
26	0.40	0.40	0.22	28	44	73	63
27	0.37	0.37	0.21	20	33	53	56
28	0.35	0.35	0.20	20	34	54	52
29	0.37	0.37	0.19	22	40	62	52
30	0.36	0.36	0.21	28	43	71	63
31	0.34	0.34	0.20	34	44	77	68
Monthly Total				752	968	1,720	1,774
Monthly Avg	0.30	0.30	0.19	24	32	55	57

NOTES: ' -- ' indicates system offline or primary polymer not being used
- Primary polymer consumption (kg) at 100% by weight mixed at the sites to required solution
- NSF limit for Magnafloc LT 27AG is **1.00 mg/L**

1.2.19 Carbon Chemical Consumption

July 2025

Day	Dosage (mg/L)			Consumption (kg)			
	Rossdale		E.L. Smith	Rossdale			E.L. Smith
	Plant 1	Plant 2		Plant 1	Plant 2	Plant Total	
1	--	--	--	--	--	--	--
2	--	--	--	--	--	--	--
3	--	--	--	--	--	--	--
4	--	--	--	--	--	--	--
5	--	--	--	--	--	--	--
6	--	--	--	--	--	--	--
7	--	--	--	--	--	--	--
8	--	--	--	--	--	--	--
9	--	--	--	--	--	--	--
10	--	--	--	--	--	--	--
11	--	--	--	--	--	--	--
12	--	--	--	--	--	--	--
13	--	--	--	--	--	--	--
14	--	--	--	--	--	--	--
15	--	--	--	--	--	--	--
16	--	--	--	--	--	--	--
17	--	--	--	--	--	--	--
18	--	--	--	--	--	--	--
19	--	--	--	--	--	--	--
20	--	--	--	--	--	--	--
21	--	--	--	--	--	--	--
22	--	--	--	--	--	--	--
23	--	--	--	--	--	--	--
24	--	--	--	--	--	--	--
25	--	--	--	--	--	--	--
26	--	--	--	--	--	--	--
27	--	--	--	--	--	--	--
28	--	--	--	--	--	--	--
29	--	--	--	--	--	--	--
30	--	--	--	--	--	--	--
31	--	--	--	--	--	--	--
Monthly Total				--	--	--	--
Monthly Avg	--	--	--	--	--	--	--

NOTES: ' -- ' indicates carbon not being used
- Carbon consumption (kg) at 100% by weight (mixed at the sites)
- NSF limit for Carbon is **250 mg/L**

1.2.20 Sodium Hypochlorite Chemical Consumption

July 2025

Day	Rossdale					E.L. Smith	
	Dosage (mg/L)		Consumption (kg)			Dosage (mg/L)	Consumption (kg)
	Plant 1	Plant 2	Plant 1	Plant 2	Plant Total		
1	2.90	2.90	28,987	43,478	78,408	3.93	155,034
2	2.94	2.93	29,362	43,985	80,894	4.06	164,110
3	2.92	2.90	32,869	44,684	87,602	4.01	170,729
4	2.98	2.89	34,540	44,369	88,365	3.79	150,829
5	3.01	3.02	27,408	41,110	75,153	3.81	151,185
6	2.99	2.88	22,409	35,299	63,118	3.68	133,252
7	2.94	2.84	23,236	34,251	62,206	3.41	125,255
8	2.82	2.79	28,339	42,143	75,469	3.44	144,936
9	2.95	2.87	33,330	44,321	85,423	3.63	154,580
10	3.16	3.10	35,716	46,669	92,023	3.70	132,685
11	3.16	3.08	31,590	42,306	80,355	3.70	145,939
12	3.10	3.05	32,230	41,038	80,541	3.75	148,261
13	3.17	3.06	35,707	37,307	79,559	3.82	140,999
14	3.11	3.05	39,203	34,302	80,191	3.88	145,824
15	3.07	3.02	42,191	33,948	83,462	3.94	155,619
16	2.94	2.96	43,376	20,779	70,091	3.81	153,634
17	2.83	--	46,801	--	51,899	3.94	167,781
18	2.85	2.43	45,316	22,154	73,573	3.91	170,254
19	2.91	2.90	34,846	39,082	80,834	3.90	163,798
20	2.86	2.95	22,444	37,878	65,363	4.00	140,508
21	2.85	2.92	21,002	36,838	62,458	3.74	128,159
22	2.93	3.06	21,723	41,309	69,394	3.71	131,230
23	3.04	3.11	27,013	44,957	77,456	3.60	138,822
24	3.05	3.02	27,687	42,829	74,757	3.62	139,492
25	3.01	3.13	24,838	39,368	68,009	3.70	143,314
26	2.89	3.03	25,597	41,977	70,249	3.59	135,807
27	3.00	3.07	20,586	34,677	58,075	3.70	130,067
28	3.04	2.97	21,419	35,733	59,210	3.62	123,781
29	2.96	2.94	22,228	39,993	64,783	3.70	132,192
30	2.91	2.92	28,122	44,130	76,066	3.76	151,076
31	3.00	2.98	37,199	47,899	93,077	3.74	167,284
Monthly Total			947,314	1,178,813	2,308,064		4,536,435
Monthly Avg	2.98	2.96	30,559	39,294	74,454	3.76	146,337

NOTES: ' -- ' indicates system offline

- Sodium hypochlorite consumption (kg) at 0.8% by weight (sodium hypochlorite generated onsite at a concentration of 0.8%)
- Plant Total Consumption is the combined addition of Plant 1, Plant 2 and Post Filter Trim.
- NSF limit for Sodium Hypochlorite generated onsite is **10 mg/L**

1.2.21 Filter Polymer Chemical Consumption

July 2025

Day	Dosage (mg/L)		Consumption (kg)	
	Rossdale	E.L. Smith	Rossdale	E.L. Smith
1	0.21	0.12	39	36
2	0.24	0.12	45	37
3	0.24	0.12	49	39
4	0.24	0.12	50	36
5	0.24	0.12	42	36
6	0.24	0.12	36	33
7	0.24	0.14	36	40
8	0.24	0.16	46	51
9	0.24	0.17	50	55
10	0.24	0.16	49	44
11	0.24	0.16	44	48
12	0.24	0.16	44	48
13	0.24	0.16	44	45
14	0.24	0.14	46	40
15	0.24	0.14	48	42
16	0.24	0.14	41	43
17	0.27	0.14	34	45
18	0.29	0.14	51	46
19	0.29	0.14	57	45
20	0.29	0.14	46	37
21	0.29	0.14	44	36
22	0.27	0.13	44	34
23	0.24	0.12	43	35
24	0.24	0.12	43	35
25	0.24	0.09	38	27
26	0.24	0.08	43	23
27	0.24	0.08	33	21
28	0.24	0.08	35	21
29	0.24	0.08	40	22
30	0.24	0.08	47	24
31	0.24	0.08	54	27
Monthly Total			1,363	1,154
Monthly Avg	0.25	0.13	44	37

NOTES: ' -- ' indicates system offline
- Filter polymer consumption (kg) at 100% by weight mixed at the sites to required solution
- NSF limit for Magnafloc LT 7981 is **20 mg/L**
- NSF limit for Magnafloc LT 7995 is **25 mg/L**

1.2.22 Aqua Ammonia Chemical Consumption

July 2025

Day	Dosage (mg/L)		Consumption (kg)	
	Rossdale	E.L. Smith	Rossdale	E.L. Smith
1	--	--	--	--
2	--	--	--	--
3	--	--	--	--
4	--	--	--	--
5	--	--	--	--
6	--	--	--	--
7	--	--	--	--
8	--	--	--	--
9	--	--	--	--
10	--	--	--	--
11	--	--	--	--
12	--	--	--	--
13	--	--	--	--
14	--	--	--	--
15	--	--	--	--
16	--	--	--	--
17	--	--	--	--
18	--	--	--	--
19	--	--	--	--
20	--	--	--	--
21	--	--	--	--
22	--	--	--	--
23	--	--	--	--
24	--	--	--	--
25	--	--	--	--
26	--	--	--	--
27	--	--	--	--
28	--	--	--	--
29	--	--	--	--
30	--	--	--	--
31	--	--	--	--
Monthly Total			--	--
Monthly Avg	--	--	--	--

NOTES: ' -- ' indicates system offline
- Aqua ammonia consumption (kg) at 100% by weight (solution delivered to sites at a concentration of 19.0%)
- NSF limit for Aqua Ammonia is **2.85 mg/L**

1.2.22-1 LAS Ammonia Chemical Consumption

July 2025

Day	Dosage (mg/L)		Consumption (kg)	
	Rossdale	E.L. Smith	Rossdale	E.L. Smith
1	0.63	0.61	1,209	1,760
2	0.63	0.62	1,189	1,834
3	0.63	0.63	1,302	1,943
4	0.63	0.64	1,327	1,866
5	0.63	0.64	1,106	1,862
6	0.63	0.64	954	1,708
7	0.63	0.62	968	1,663
8	0.63	0.62	1,239	1,891
9	0.64	0.62	1,354	1,910
10	0.64	0.61	1,321	1,527
11	0.64	0.61	1,197	1,768
12	0.64	0.61	1,198	1,759
13	0.64	0.61	1,191	1,636
14	0.64	0.61	1,234	1,658
15	0.64	0.61	1,310	1,749
16	0.64	0.62	1,120	1,803
17	0.64	0.61	819	1,856
18	0.63	0.61	1,143	1,946
19	0.63	0.61	1,268	1,894
20	0.63	0.61	1,034	1,573
21	0.63	0.61	978	1,549
22	0.63	0.61	1,031	1,570
23	0.63	0.61	1,156	1,722
24	0.63	0.61	1,158	1,692
25	0.63	0.61	1,003	1,719
26	0.63	0.61	1,135	1,701
27	0.63	0.61	892	1,575
28	0.63	0.61	944	1,536
29	0.63	0.61	1,059	1,599
30	0.63	0.61	1,245	1,788
31	0.63	0.61	1,443	2,008
Monthly Total			35,528	54,067
Monthly Avg	0.63	0.62	1,146	1,744

1.2.22-1 LAS Ammonia Chemical Consumption

July 2025

Day	Dosage (mg/L)		Consumption (kg)	
	Rossdale	E.L. Smith	Rossdale	E.L. Smith

NOTES: ' -- ' indicates system offline
- LAS ammonia consumption (kg) at 100% by weight (solution delivered to sites at a concentration of **41.0%**)
- NSF limit for LAS Ammonia is **16.4 mg/L**

1.2.23 Caustic Soda Chemical Consumption

July 2025

Day	Dosage (mg/L)		Consumption (kg)	
	Rossdale	E.L. Smith	Rossdale	E.L. Smith
1	6.35	13.1	2,112	7,413
2	6.14	12.1	2,033	6,968
3	5.05	11.1	1,838	6,742
4	4.82	9.53	1,809	5,428
5	3.63	8.42	1,136	4,795
6	2.24	6.81	593	3,549
7	2.27	5.67	602	2,963
8	2.02	5.32	686	3,169
9	2.43	7.73	905	4,708
10	3.91	9.29	1,459	4,595
11	4.01	8.82	1,316	4,994
12	3.32	8.50	1,100	4,790
13	2.38	7.88	782	4,127
14	2.35	8.01	811	4,256
15	2.45	8.21	882	4,582
16	2.89	8.03	878	4,613
17	2.97	9.44	631	5,605
18	4.16	12.8	1,282	8,001
19	5.78	14.9	1,992	9,051
20	6.87	14.2	1,959	7,167
21	6.05	15.0	1,622	7,423
22	5.87	14.8	1,664	7,408
23	6.14	16.2	1,992	8,926
24	9.25	23.3	3,000	12,610
25	18.7	35.3	5,170	19,408
26	20.9	36.5	6,642	19,925
27	18.2	28.2	4,512	14,193
28	13.5	21.8	3,525	10,711
29	12.4	21.0	3,621	10,744
30	11.9	17.9	4,094	10,247
31	9.44	16.7	3,868	10,736
Monthly Total			64,516	239,845
Monthly Avg	6.72	14.1	2,081	7,737

NOTES: ' -- ' indicates system offline
- Caustic soda consumption (kg) at 100% by weight (solution delivered to sites at a concentration of 50.0%)
- NSF limit for Caustic Soda is **50 mg/L**

1.2.24 Fluoride Chemical Consumption
July 2025

Day	Dosage (mg/L)		Consumption (kg)	
	Rossdale	E.L. Smith	Rossdale	E.L. Smith
1	0.64	0.61	549	789
2	0.62	0.61	526	809
3	0.62	0.61	576	854
4	0.62	0.61	587	797
5	0.62	0.61	489	796
6	0.62	0.61	422	730
7	0.62	0.61	428	731
8	0.62	0.61	544	834
9	0.62	0.61	589	853
10	0.62	0.60	575	683
11	0.62	0.61	521	793
12	0.62	0.61	521	788
13	0.62	0.61	519	733
14	0.62	0.61	537	744
15	0.62	0.61	570	782
16	0.62	0.61	487	804
17	0.62	0.61	359	831
18	0.62	0.61	504	871
19	0.62	0.61	560	848
20	0.62	0.61	456	705
21	0.62	0.61	432	693
22	0.62	0.61	455	703
23	0.62	0.61	510	771
24	0.62	0.61	511	757
25	0.62	0.61	442	770
26	0.64	0.61	517	763
27	0.65	0.61	414	705
28	0.65	0.61	438	689
29	0.65	0.61	491	717
30	0.65	0.61	574	802
31	0.63	0.61	648	900
Monthly Total			15,750	24,047
Monthly Avg	0.63	0.61	508	776

NOTES: ' -- ' indicates system offline
- Fluoride consumption (kg) at 100% by weight (solution delivered to sites at a concentration of 21.8%)
- NSF limit for Fluoride is **1.308 mg/L**

1.2.25 Sodium Bisulfite (SBS) Chemical Consumption

July 2025

Day	Dosage (mg/L)		Consumption (kg)		De-chlorinated Waste Stream to Outfall (ML)	
	Rossdale	E.L. Smith	Rossdale	E.L. Smith	Rossdale	E.L. Smith
1	16.5	19.5	785	1,480	18	29
2	17.1	19.3	912	1,612	20	32
3	19.7	18.5	786	1,625	15	33
4	23.9	19.0	1,047	1,559	17	31
5	22.7	19.5	916	1,405	15	27
6	20.3	20.1	787	1,252	15	24
7	19.5	16.9	654	1,219	13	28
8	26.2	17.1	1,047	1,501	15	33
9	27.6	15.7	916	1,416	13	34
10	22.8	14.8	785	2,059	13	53
11	30.7	14.9	1,047	1,008	13	26
12	23.6	14.4	784	1,368	13	36
13	32.5	12.4	915	1,170	11	30
14	38.6	14.0	654	1,229	6.6	33
15	47.3	14.4	654	1,280	5.4	34
16	43.0	12.6	1,049	1,314	9.4	31
17	21.8	18.5	786	2,143	14	44
18	9.71	16.9	654	1,614	26	36
19	18.5	18.1	652	1,550	13	33
20	31.4	17.6	786	1,467	9.6	32
21	27.8	20.7	1,050	1,341	14	25
22	25.3	16.6	898	1,366	14	31
23	14.4	16.8	410	1,288	11	29
24	31.0	12.6	918	1,325	11	40
25	31.1	13.6	2,237	1,093	27	31
26	32.2	15.6	915	1,065	11	25
27	25.5	16.1	784	1,083	12	25
28	22.7	14.5	653	1,014	11	26
29	26.3	16.0	655	995	9.6	23
30	23.6	15.9	654	1,095	11	29
31	33.2	14.7	654	1,185	7.6	30
Monthly Total			26,444	42,118	415	974
Monthly Avg	26.0	16.4	853	1,359	13	31

NOTES: ' -- ' indicates plant offline

- Sodium bisulfite consumption (kg) at 38% by weight (solution delivered to sites at a concentration of 38.0%)

1.2.26 Rossdale Waste Stream Data

July 2025

		Clarifier Blowdown	Clarifier Washdown *	Backwash Water	Filter To Waste	Bypass	Total	De-Chlorin'd Waste Stream 3			De-Chlorin'd Waste Stream 7		
Volume (ML)		238	20	107	48	10	424	60.14			354.87		
Solids (kg)	TSS	291,602	1,175	6,509			299,286						
	Aluminium	26,828	68	2,253			29,149						
# of Bypasses						2		Min	Max	Avg	Min	Max	Avg
pH								6.7	8.0	7.5	6.5	7.5	7.3
Total Chlorine (mg/L)								0.00	0.00	0.00	0.00	0.00	0.00
Sulfite (mg/L)								1.17	20.0	7.97	1.46	20.0	5.31

NOTES: * Estimate value for the waste stream volume and calculated value for the waste stream solids
- Clarifier washdown volume(s) estimated for clarifier cleaning
- LLP flush, HLP cooling are not applicable to the Rossdale WTP

1.2.27 E.L. Smith Waste Stream Data

July 2025

		Clarifier Blowdown	Clarifier Washdown *	Backwash Water	Filter To Waste	Bypass	LLP Flush	HLP Cooling	Total	De-chlorinated Waste flow to		
Volume (ML)		273	13	374	161	18	2.0	32	873	974		
Solids (kg)	TSS	447,591	31	31,902					479,523			
	Aluminium	54,512	215	11,043					65,770			
# of Bypasses						1				Min	Max	Avg
pH										7.05	7.86	7.58
Total Chlorine (mg/L)										0.00	0.00	0.00
Sulphite (mg/L)										0.10	20.0	11.7

NOTES: * Estimate value for the waste stream volume and calculated value for the waste stream solids
- Clarifier washdown volume(s) estimated for clarifer cleaning
- Estimated chlorinated waste stream to outfall for dechlorination

1.2.28 Demand/Production Statistics

July 2025

Month	ROSSDALE ZONE			E.L.SMITH ZONE			SYSTEM TOTAL			RESERVOIR PUMPAGE		
	Monthly Prod'n (ML)	Max Daily Prod'n (ML)	Peak Daily Demand (ML)	Monthly Prod'n (ML)	Max Daily Prod'n (ML)	Peak Daily Demand (ML)	Monthly Prod'n (ML)	Max Daily Prod'n (ML)	Peak Daily Demand (ML)	Rossdale Zone (ML)	E.L.Smith Zone (ML)	Total (ML)
JANUARY	3,395	145	135	8,010	280	291	11,404	386	390	1,142	2,586	3,728
FEBRUARY	3,349	132	139	6,985	267	270	10,335	398	382	1,137	2,225	3,362
MARCH	4,367	169	214	7,128	266	264	11,495	427	381	1,542	2,459	4,001
APRIL	4,664	183	185	6,683	253	245	11,347	436	408	1,503	2,549	4,053
MAY	5,288	215	224	7,977	288	312	13,265	488	473	1,847	2,979	4,825
JUNE	5,319	243	240	7,819	309	328	13,138	550	520	1,534	3,285	4,819
JULY	5,314	220	227	8,298	313	317	13,613	533	486	1,531	3,352	4,883

2025 - HIGH 5-DAY DEMAND

	PLANTS PROD (ML/d)	RES. GAIN / LOSS (%)	RES. GAIN / LOSS (ML)	TOTAL DEMAND (ML)
08-Jun-2025	477	-3.4	-21.3	499
09-Jun-2025	522	0.4	2.3	520
10-Jun-2025	504	-0.2	-1.1	505
11-Jun-2025	435	-9.6	-60.3	495
12-Jun-2025	550	14.0	87.9	462
			AVERAGE:	496

Year to Date Data	2025	2024	% CHANGE
TOTAL PRODUCTION TO DATE (ML)	84,596	82,959	2.0
AVG. DAILY DEMAND TO DATE (ML)	399	389	2.4
PEAK DAILY DEMAND TO DATE (ML)	520	567	(8.3)
PEAK HOURLY DEMAND TO DATE (ML)	691	782	(11.6)
HIGH 5-DAY AVERAGE TO DATE (ML)	496	542	(8.4)

Peak daily demand of 520 ML/d occurred on June 09, 2025

Peak hourly demand of 691 ML/d occurred on June 8, 2025 at 20:00

1.2.29 Reservoir Chlorine Residual (mg/L) - Part 1

July 2025

Reservoir	Papaschase 1			Ormsby			Clareview Discharge			Millwoods Discharge			Kaskitayo			Discovery Park		
Day	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg
1	1.50	1.96	1.58	1.43	1.57	1.53	1.47	1.65	1.61	1.68	1.81	1.73	1.60	1.80	1.76	--	--	--
2	1.51	1.96	1.61	1.42	1.54	1.48	1.52	1.69	1.62	1.64	1.90	1.72	1.67	1.83	1.78	--	--	--
3	1.55	1.90	1.60	1.40	1.67	1.38	1.53	1.65	1.62	1.69	1.79	1.74	1.70	1.85	1.81	1.13	1.34	1.23
4	1.44	1.54	1.50	1.62	1.79	1.69	1.59	1.71	1.65	1.68	1.88	1.72	1.73	1.89	1.80	1.07	1.29	1.16
5	1.36	1.51	1.42	1.28	1.79	1.58	1.54	1.71	1.65	1.67	1.87	1.73	1.73	1.84	1.78	1.02	1.23	1.11
6	1.44	1.86	1.48	1.27	1.77	1.62	1.43	1.66	1.62	1.68	1.91	1.73	1.78	1.87	1.82	0.95	1.17	1.04
7	1.37	1.74	1.40	1.29	1.73	1.58	1.50	1.60	1.57	1.68	1.90	1.72	1.77	1.86	1.82	0.92	1.07	0.97
8	1.48	2.00	1.73	1.29	1.71	1.54	1.44	1.57	1.54	1.71	1.82	1.76	1.71	1.93	1.83	0.91	1.35	1.10
9	1.38	1.90	1.42	1.37	1.74	1.53	1.49	1.61	1.55	1.71	1.81	1.75	1.75	1.87	1.83	1.11	1.35	1.19
10	1.43	1.98	1.46	1.37	1.74	1.53	1.49	1.63	1.59	1.67	1.80	1.72	1.66	1.80	1.76	1.08	1.27	1.15
11	1.55	1.92	1.67	1.41	1.71	1.54	1.47	1.66	1.61	1.68	1.87	1.72	1.70	1.79	1.76	1.04	1.26	1.12
12	1.41	1.57	1.51	1.41	1.70	1.51	1.52	1.64	1.59	1.71	1.90	1.75	1.72	1.82	1.77	0.99	1.21	1.08
13	1.38	1.89	1.47	1.40	1.69	1.51	1.43	1.61	1.59	1.61	1.88	1.71	1.74	1.81	1.77	0.91	1.15	1.03
14	1.43	1.78	1.45	1.28	1.65	1.46	1.54	1.61	1.59	1.64	1.83	1.69	1.66	1.79	1.75	0.89	1.06	0.96
15	--	--	--	1.33	1.69	1.52	1.38	1.65	1.59	1.63	1.76	1.70	1.63	1.76	1.72	0.85	1.25	1.03
16	1.34	1.48	1.38	1.34	1.70	1.53	1.56	1.64	1.60	1.68	1.80	1.73	1.67	1.81	1.76	1.03	1.23	1.10
17	1.26	1.30	1.30	1.34	1.68	1.54	1.44	1.58	1.55	1.61	1.83	1.70	1.71	1.79	1.76	0.97	1.15	1.04
18	1.19	1.44	1.20	1.32	1.70	1.53	1.44	1.57	1.51	1.68	1.77	1.71	1.72	1.96	1.80	0.94	1.12	1.01
19	1.36	1.71	1.40	1.39	1.77	1.63	1.48	1.64	1.59	1.65	1.79	1.72	1.60	1.85	1.76	0.89	1.08	0.97
20	1.37	1.93	1.40	1.28	1.70	1.54	1.52	1.67	1.63	1.59	1.75	1.67	1.67	1.76	1.73	--	--	--
21	1.29	1.94	1.32	1.25	1.64	1.48	1.52	1.78	1.57	1.61	1.74	1.66	1.59	1.80	1.72	--	--	--
22	1.40	1.95	1.47	1.23	1.62	1.46	1.49	1.56	1.52	1.56	1.81	1.64	1.60	1.84	1.72	--	--	--
23	1.38	1.79	1.41	1.21	1.61	1.46	1.39	1.54	1.51	1.64	1.83	1.67	1.69	1.81	1.75	--	--	--
24	--	--	--	1.29	1.67	1.57	1.40	1.55	1.52	1.65	1.76	1.69	1.74	1.80	1.78	--	--	--
25	1.39	1.92	1.46	1.48	1.66	1.57	1.45	1.64	1.54	1.62	1.71	1.67	1.71	1.82	1.77	--	--	--
26	1.40	1.94	1.57	1.61	1.70	1.66	1.53	1.71	1.64	1.58	1.77	1.65	1.52	1.78	1.70	--	--	--
27	1.57	1.90	1.61	1.55	1.65	1.60	1.50	1.66	1.60	1.59	1.71	1.64	1.52	1.74	1.67	--	--	--
28	1.49	1.77	1.54	1.52	1.63	1.58	1.40	1.58	1.51	1.57	1.81	1.63	1.66	1.74	1.70	--	--	--
29	1.47	1.90	1.51	1.51	1.63	1.57	1.49	1.55	1.52	1.63	1.82	1.66	1.54	1.83	1.73	0.96	1.07	1.02
30	1.33	1.41	1.39	1.51	1.64	1.60	1.47	1.55	1.52	1.61	1.72	1.67	1.71	1.81	1.78	--	--	--
31	1.32	1.92	1.40	1.56	1.76	1.71	1.50	1.63	1.59	1.65	1.85	1.70	1.57	1.87	1.81	--	--	--
Monthly Min/Max/Avg	1.19	2.00	1.47	1.21	1.79	1.55	1.38	1.78	1.58	1.56	1.91	1.70	1.52	1.96	1.76	0.85	1.35	1.07

NOTES: '--' Indication Analyzer Offline

1.2.30 Reservoir Chlorine Residual (mg/L) - Part 2

July 2025

Reservoir	Rosslyn 1			Londonderry			N. Jasper Place			Rosslyn 2			Thorncliffe			Blackmud Creek		
Day	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg
1	1.49	1.50	1.49	1.34	1.62	1.47	1.32	1.78	1.34	1.29	2.02	1.32	1.25	1.96	1.28	1.36	1.59	1.53
2	1.47	1.51	1.49	1.31	1.63	1.43	1.28	1.82	1.32	1.16	1.31	1.29	1.27	1.98	1.31	1.42	1.53	1.49
3	1.45	1.46	1.45	1.36	1.64	1.46	1.33	1.80	1.35	1.21	1.29	1.27	1.25	1.97	1.35	1.46	1.54	1.50
4				1.28	1.51	1.37	1.33	1.83	1.35	1.28	2.06	1.30	1.39	1.98	1.39	1.32	1.54	1.50
5	--	--	--	1.25	1.51	1.37	1.27	1.82	1.29	1.15	1.33	1.31	1.32	2.03	1.41	1.30	1.56	1.48
6	--	--	--	1.30	1.54	1.40	1.12	1.86	1.27	1.11	1.33	1.29	1.39	2.02	1.41	1.31	1.54	1.44
7	1.42	1.49	1.46	1.32	1.55	1.45	1.19	1.65	1.21	1.19	1.29	1.26	1.32	2.04	1.34	1.32	1.53	1.47
8	--	--	--	1.27	1.53	1.37	1.23	1.85	1.25	1.17	2.05	1.24	1.38	1.98	1.40	1.34	1.54	1.49
9	1.40	1.47	1.45	1.28	1.54	1.41	--	--	--	1.07	1.23	1.22	1.41	1.98	1.43	1.37	1.50	1.45
10	--	--	--	1.10	1.61	1.44	1.19	1.79	1.23	1.00	1.20	1.18	1.40	1.97	1.44	1.41	1.50	1.46
11	--	--	--	1.34	1.57	1.44	1.23	1.72	1.26	1.04	1.21	1.19	--	--	--	1.35	1.52	1.48
12	1.29	1.36	1.35	1.27	1.54	1.42	1.21	1.23	1.22	1.11	1.20	1.18	1.31	1.96	1.34	1.46	1.53	1.50
13	--	--	--	1.33	1.56	1.43	1.31	1.75	1.36	1.14	1.99	1.22	1.35	1.94	1.38	1.45	1.51	1.48
14	--	--	--	1.27	1.57	1.40	1.22	1.31	1.28	1.03	1.23	1.20	1.27	1.94	1.29	1.45	1.50	1.47
15	1.44	1.46	1.45	1.13	1.56	1.38	1.24	1.76	1.27	1.22	2.12	1.26	1.28	2.04	1.32	1.46	1.50	1.48
16	--	--	--	1.28	1.59	1.45	1.21	1.65	1.22	1.26	1.98	1.28	1.25	2.02	1.27	1.45	1.53	1.49
17	--	--	--	1.16	1.55	1.37	1.17	1.81	1.20	1.12	1.28	1.25	1.18	1.98	1.21	1.43	1.56	1.51
18	1.27	1.30	1.28	1.16	1.53	1.40	1.16	1.77	1.47	1.10	1.21	1.20	1.13	1.98	1.15	1.43	1.54	1.50
19	--	--	--	1.30	1.59	1.45	--	--	--	1.29	1.94	1.34	--	--	--	1.41	1.55	1.51
20	--	--	--	1.26	1.63	1.44	1.22	1.75	1.25	1.37	1.98	1.40	1.30	1.96	1.36	1.37	1.49	1.44
21	1.45	1.47	1.46	1.29	1.57	1.36	1.23	1.76	1.26	1.30	1.34	1.32	1.34	1.94	1.36	1.35	1.51	1.44
22	1.35	1.37	1.37	1.28	1.62	1.43	1.26	1.71	1.29	1.14	1.26	1.24	1.30	1.92	1.31	1.32	1.44	1.40
23	1.26	1.26	1.26	1.24	1.59	1.42	1.22	1.77	1.26	1.16	1.19	1.18	1.21	1.95	1.23	1.38	1.48	1.44
24				1.28	1.58	1.39	1.29	1.72	1.33	1.12	1.19	1.17	1.29	1.94	1.33	1.35	1.49	1.45
25	1.35	1.39	1.38	1.26	1.61	1.44	1.23	1.68	1.25	1.01	1.20	1.17	1.25	1.95	1.27	1.37	1.47	1.45
26	--	--	--	1.33	1.61	1.48	--	--	--	1.25	2.10	1.27	--	--	--	1.19	1.50	1.44
27	--	--	--	1.30	1.55	1.42	1.20	1.70	1.23	1.19	2.08	1.27	1.36	1.94	1.40	1.35	1.43	1.40
28	--	--	--	1.15	1.48	1.27	1.15	1.72	1.17	1.22	2.06	1.26	1.30	1.94	1.33	1.38	1.45	1.42
29	1.21	1.23	1.22	1.10	1.57	1.31	1.10	1.35	1.12	1.16	1.22	1.18	1.19	1.97	1.23	1.39	1.49	1.44
30	1.33	1.35	1.35	1.27	1.62	1.43	1.20	1.76	1.22	1.00	1.17	1.15	1.14	1.99	1.18	1.34	1.48	1.43
31	1.35	1.40	1.38	1.25	1.64	1.46	1.19	1.62	1.24	1.13	1.97	1.17	1.18	1.99	1.25	1.43	1.54	1.48
Monthly Min/Max/Avg	1.21	1.51	1.39	1.10	1.64	1.41	1.10	1.86	1.27	1.00	2.12	1.24	1.13	2.04	1.32	1.19	1.59	1.47

NOTES: '--' Indication Analyzer Offline

1.2.31 Orthophosphate Chemical
July 2025

Day	Dosage (mg/L)		Consumption (kg)	
	Rossdale	E.L. Smith	Rossdale	E.L. Smith
1	0.90	0.90	713	1,063
2	0.90	0.90	653	1,040
3	0.90	0.90	759	1,115
4	0.90	0.90	754	996
5	0.90	0.90	624	1,070
6	0.90	0.90	537	1,013
7	0.90	0.90	595	940
8	0.90	0.90	696	1,091
9	0.90	0.90	749	1,070
10	0.90	0.90	736	913
11	0.90	0.90	703	1,057
12	0.90	0.90	647	974
13	0.90	0.90	691	985
14	0.90	0.90	677	940
15	0.90	0.90	745	1,091
16	0.90	0.90	685	1,012
17	0.90	0.90	456	1,114
18	0.90	0.90	685	1,151
19	0.90	0.90	697	1,111
20	0.90	0.90	579	880
21	0.90	0.90	544	891
22	0.90	0.90	600	949
23	0.90	0.90	616	956
24	0.90	0.90	704	977
25	0.90	0.90	512	1,021
26	0.90	0.90	649	1,036
27	0.90	0.90	482	877
28	0.90	0.90	544	958
29	0.90	0.90	631	941
30	0.90	0.90	692	1,052
31	0.90	0.90	867	1,157
Monthly Total			20,221	31,441
Monthly Avg	0.90	0.90	652	1,014

NOTES: ' -- ' indicates plant offline
- Phosphoric acid consumption (kg) at 100% by weight (solution delivered to sites at a concentration of 75%)
- NSF limit for Phosphoric acid (75%) is 13 mg/l)

1.2.32 Summary of Mainbreaks

July 2025

Date and Time Reported	Location of Mainbreak	Repaired (Time)	Size	Type**
2025-07-01 19:49	12023-64 STREET NW	2025-07-02 13:54	150	CI
2025-07-02 13:55	12023-64 STREET NW	2025-07-02 19:23	150	CI
2025-07-03 5:05	4612-38A AVENUE NW	2025-07-03 20:40	200	PVC
2025-07-04 6:46	12233-67 STREET NW	2025-07-10 14:00	508	Steel
2025-07-05 22:06	9750-91 STREET NW	2025-07-06 14:00	200	PVC
2025-07-10 13:39	9715-120 AVENUE NW	2025-07-11 11:45	150	CI
2025-07-10 18:09	8815 - 118 AVENUE NW	2025-07-11 13:16	150	CI
2025-07-12 23:35	11423-104 AVENUE NW	2025-07-13 21:19	150	CI
2025-07-15 10:24	11529-104 AVENUE NW	2025-07-23 0:00	200	CI
2025-07-16 10:01	1124-112 STREET NW	2025-07-17 10:30	200	PVC
2025-07-17 10:13	16105-84 AVENUE NW	2025-07-17 20:30	150	CI
2025-07-19 16:55	10811-115 STREET NW	2025-07-20 10:30	150	CI
2025-07-24 7:17	7902-159 STREET NW	2025-07-24 21:31	150	CI
2025-07-25 18:39	15981-110B AVENUE NW	2025-07-25 19:20	150	CI
2024-07-19 12:29	1115-103A STREET SW	2025-07-26 0:00	750	Steel

Month	Total Breaks By Month
Jan-25	25
Feb-25	90
Mar-25	32
Apr-25	23
May-25	11
Jun-25	16
Jul-25	15
Aug-25	
Sep-25	
Oct-25	
Nov-25	
Dec-25	
YTD 2025	**212**

**Pipe Type Explanation	
CI	Cast Iron Pipe
COP	Copper Pipe
CCP	Concrete Cylinder Pipe
PVC	Poly Vinyl Chloride Pipe
AC	Asbestos Cement Pipe
HPLCP	Hyperscon Cylinder Prestressed Lined Concrete Cylinder Pipe
FRP	Fibre Glass Pipe
STL	Steel Pipe
HDP	High Density Polyethylene

2.1.1 SUMMARY OF PARAMETERS FOR EDMONTON DRINKING WATER

Water Treatment Plants

July 2025

Parameter (Units)	#	Mean	Range	YTD #	YTD Mean	YTD Range
Alkalinity total (mg CaCO3/L)	62	113.4	102.0 - 122.0	423	114.7	81.0 - 139.0
Aluminum (mg/L)	2	0.114	0.100 - 0.127	14	0.057	0.021 - 0.127
Arsenic (mg/L)	2	0.0002	<0.0002	14	0.0002	<0.0002 - 0.0002
Bromate Dissolved (mg/L)	10	<0.005	<0.005	60	<0.005	<0.003 - <0.005
Bromodichloromethane (µg/L)	62	1.3	0.8 - 1.7	424	1.0	<0.5 - 2.6
Cadmium (mg/L)	2	<0.00002	<0.00002	14	<0.00002	<0.00002
Calcium Hardness (mg/L CaCO3)	60	114.5	108.0 - 120.0	412	115.8	90.0 - 136.0
Chlorate Dissolved (mg/L)	10	0.24	0.10 - 0.44	60	0.20	<0.1 - 0.49
Chloride Dissolved (mg/L)	10	7.1	6.6 - 7.8	60	6.83	4.59 - 14.20
Chlorine total (mg/L)	62	2.10	1.95 - 2.27	424	2.09	1.89 - 2.32
Chlorite Dissolved (mg/L)	10	<0.005	<0.005	60	<0.2	<0.005 - <0.2
Chloroform (µg/L)	62	36.1	25.8 - 44.9	424	19.9	3.5 - 82.8
Chromium (mg/L)	2	<0.0002	<0.0002	14	0.0002	<0.0002
Colour (TCU)	62	1.3	0.6 - 1.7	424	1.0	<0.5 - 2.7
Conductivity (µS/cm)	10	404.8	385.0 - 426.0	60	400.8	358.0 - 476.0
Copper (mg/L)	2	<0.002	<0.002	14	0.002	<0.002
Cryptosporidium (oocysts/100L)	2	<0.1	<0.1	14	<0.1	<0.09 - <0.1
Fluoride (mg/L)	62	0.68	0.63 - 0.75	423	0.68	0.59 - 0.78
Giardia (cysts/100L)	2	<0.1	<0.1	14	<0.1	<0.09 - <0.1
Haloacetic acids total (HAA5) (µg/L)	2	28.6	27.0 - 30.2	13	18.9	7.8 - 30.4
Iron (mg/L)	2	<0.005	<0.005	14	<0.005	<0.005
Manganese (mg/L)	2	<0.002	<0.002	14	0.002	<0.002 - 0.005
Mercury (µg/L)	2	<0.0050	<0.0050	6	<0.0050	<0.0050
Mercury (mg/L)	2	<0.0002	<0.0002	14	0.0002	<0.0002
Nitrate (as N) dissolved (mg/L)	10	0.02	<0.01 - 0.06	58	0.06	<0.01 - 0.18
Nitrite (as N) dissolved (mg/L)	10	0.01	0.01	58	0.01	<0.01 - 0.01
Nitrosodimethylamine, N- [NDMA] (µg/L)	2	0.00116	<0.0009 - 0.00142	13	0.00142	<0.0009 - 0.00142
pH	62	8	8	423	8	8
Potassium (mg/L)	2	0.8	0.7 - 0.8	14	1.0	0.6 - 1.9
Sodium (mg/L)	2	10.7	10.1 - 11.3	14	13.5	6.3 - 27.2
Sulphate Dissolved (mg/L)	10	77.8	70.5 - 89.4	60	75.7	59.3 - 116.0
Total Dissolved Solids (mg/L)	2	213.50	211.00 - 216.00	14	222.50	52.00 - 267.00
Total Hardness (mg/L CaCO3)	62	171.8	162.0 - 182.0	424	174.8	131.0 - 212.0
Total Organic Carbon (mg/L)	10	2.1	1.8 - 2.4	60	1.7	0.8 - 3.4
Trihalomethanes (µg/L)	62	37.7	26.7 - 46.7	424	21.1	4.3 - 84.7
Turbidity (NTU)	62	0.04	<0.04 - 0.08	424	0.05	<0.04 - 0.52
Uranium (mg/L)	2	<0.0005	<0.0005	14	0.0005	<0.0005 - 0.0006
Zinc (mg/L)	2	<0.005	<0.005	14	<0.005	<0.005

Concentrations are reported as mg/L unless otherwise indicated.
Alkalinity and Hardness (Ca and Total) are reported as mg $CaCO_3$/L

%T	= % Transmittance
- ve	= Absent
+ ve	= Present
µg/L	= Micrograms per litre (1 µg/L)
µS/cm	= Microsiemens per centimeter (unit of conductivity)
2/Y	= Twice per Year
AO	= Aesthetic Objective
Bq/L	= Becquerel(s) per litre (unit of radionuclide concentration)
CCPP	= Calcium Carbonate Precipitation Potential
CFU	= Colony Forming Units
Comm	= Commercial Laboratories
D	= Daily
EWSI	= EPCOR Water Services Inc.
FPA	= Flavour Profile Analysis
GCDWQ	= Guidelines for Canadian Drinking Water Quality
GM	= Geometric Mean
inoff	= Inoffensive (no objectionable odour)
M	= Monthly
MAC	= Maximum Acceptable Concentration
MDL	= Method Detection Limit
N/A	= Not Available
ND	= Not Detected
NTU	= Nephelometric Turbidity Units
PA	= Presence/Absence Testing
PBR	= Performance Based Rates
PHP	= phenolphthalein
PLPH	= Provincial Laboratory of Public Health
ppb	= Parts Per Billion
ppm	= Parts Per Million
Q	= Quarterly
QA	= Quality Assurance
QC	= Quality Control
RDL	= Reportable Detection Limit
TCU	= True Colour Units
TDS	= Total Dissolved Solids
TOC	= Total Organic Carbon
UV Abs/cm	= UV Absorbance per centimeter
WL	= Water Laboratory
WTP	= Water Treatment Plant

2.1.3 QUALITY ASSURANCE – July 2025

Drinking water quality must meet the requirements in the Alberta Environment and Protected Areas *Approval-to-Operate* (638-04-01) and the limits set out in the latest version of the Health Canada *Guidelines for Canadian Drinking Water Quality (GCDWQ)*. The latest internet edition of the *GCDWQ* was issued in March 2025. Health Canada updates their on-line document regularly, but they recommend always consulting individual guideline technical documents and guidance documents on Health Canada's website, "Water Quality—Reports and Publications" for the most current information. Guideline limits are listed as Maximum Acceptable Concentrations (MAC), Aesthetic Objectives (AO) or Operational Guidelines (OG). The latest edition of Health Canada's Guidelines includes parameter types, commons sources, health considerations and application of the guideline.

In addition, for treated water in the distribution system, total chlorine residual values under 0.5 mg/L are not necessarily violations of the approval but do require immediate follow-up action and re-sampling. A violation of the current *Approval-to-Operate* (638-04-01) requirements occurs if the chlorine residual in more than 25% of samples collected in a day is < 0.5 mg/L. Alberta Environment and Protected Areas is to be notified of any single positive total coliform sample and follow-up sampling is done according to the *Communication and Action Protocol for Failed Bacteriological Results in Drinking Water*. Any sample that is positive for *E. coli* is also considered a violation and requires follow-up action and re-sampling. A repeat total coliform positive from the same location is also considered a violation.

Critical water quality parameters (e.g. turbidity, residual chlorine, fluoride, pH, & particle counts) in the treated water are monitored continuously using on-line instruments at the water treatment plants. In addition, water quality samples are collected daily at the two Water Treatment Plants, and 210 to 300 samples per month are collected throughout the distribution system (routine and random sampling sites, reservoirs, following system depressurizations and in response to customer complaints).

The EPCOR Water Laboratory is nationally accredited by CALA (Canadian Association for Laboratory Accreditation) to ISO/IEC 17025 for specific water quality analyses, and it also provides quality assurance support for Water Plant Operations labs and on-line analytical monitoring.

"*Violations*" occur when the concentration of a measured parameter exceeds the AEPA *Approval-to-Operate* limits, including the MACs for the GCDWQ parameters listed Schedule 4.

"Variances" occur when the concentration of a measured parameter exceeds EPCOR's own internal water quality objectives.

2.1.3.1 **Total Water Quality Violations of AEP Approval-to-Operate:**

Current month: **0** YTD Total: **0**

2.1.3.2 **Water Quality Violations for Water Plants (Treated Water)**

Current month**: 0** YTD Total**: 0**

2.1.3.3 **Water Quality Violations (Environmental): Plants Waste Streams**

Current month**: 0** YTD Total**: 0**

2.1.3.4 **Violations for Water Quality in the Field Reservoirs and Distribution System**

Sample Type	This Month	YTD
Depressurization Samples	0	0
Complaint Samples	0	0
Random Samples	0	0
Reservoirs	0	0
TOTAL (Distribution)	0	0

2.1.3.5 **Variances from EPCOR Water Services Water Quality Objectives at the Water Treatment Plants**

Variance Category[1]	This Month	YTD
Aluminum[2] > 0.20 or 0.10 mg/L	1	1
Turbidity > 1 NTU	0	0
Chlorine < 1 mg/L or > 2.4 mg/L	0	0
Cryptosporidium ≥ 1/1000 L	0	0
Giardia ≥ 1/1000 L	0	0
Other	0	16
Total Variances + Violations	1 + 0 = 1	17 + 0 = 17

Notes: 1) Variance statistics include any violations.

2) As of March 1st, 2025, both ELS and ROS WTP were converted to Conventional Filtration mode. Aluminum limit changes from 0.1 mg/L to 0.2 mg/L (operational guideline), when in Direct Filtration.

3) YTD variances in the 'Other' category included one variance for Fluoride in Feb 2025, one variance for Trihalomethanes in May 2025, and 14 variances for Trihalomethanes in June 2025

2.1.3.6 **Variances from EPCOR Water Services Water Quality Objectives in the Field Reservoirs and Distribution System**

Variance Category[1]	This Month	YTD
Turbidity > 1 NTU	21	74
Chlorine < 1 mg/L or > 2.4 mg/L	2	8
Single Positive Coliform	0	2
THMs > 50 µg/L	1	8
Pipe Lube, Odour, UV positive	0	1
Aluminum[2] > 0.20 (or 0.1) mg/L	3	19
Iron > 0.10 mg/L	2	14
Other	0	0
Total Variances + Violations	29 + 0 = 29	126 + 0 = 126

Notes: 1) Variance statistics include any violations.
2) As of March 1st, 2025 both ELS and ROS WTP were converted to Conventional Filtration mode. Aluminum limit changes from 0.1 mg/L to 0.2 mg/L (operational guideline), when in Direct Filtration.

2.1.3 QUALITY ASSURANCE – July 2025

Drinking water quality must meet the requirements in the Alberta Environment and Protected Areas *Approval-to-Operate* (638-04-01) and the limits set out in the latest version of the Health Canada *Guidelines for Canadian Drinking Water Quality (GCDWQ)*. The latest internet edition of the *GCDWQ* was issued in March 2025. Health Canada updates their on-line document regularly, but they recommend always consulting individual guideline technical documents and guidance documents on Health Canada's website, "Water Quality—Reports and Publications" for the most current information. Guideline limits are listed as Maximum Acceptable Concentrations (MAC), Aesthetic Objectives (AO) or Operational Guidelines (OG). The latest edition of Health Canada's Guidelines includes parameter types, commons sources, health considerations and application of the guideline.

In addition, for treated water in the distribution system, total chlorine residual values under 0.5 mg/L are not necessarily violations of the approval but do require immediate follow-up action and re-sampling. A violation of the current *Approval-to-Operate* (638-04-01) requirements occurs if the chlorine residual in more than 25% of samples collected in a day is < 0.5 mg/L. Alberta Environment and Protected Areas is to be notified of any single positive total coliform sample and follow-up sampling is done according to the *Communication and Action Protocol for Failed Bacteriological Results in Drinking Water*. Any sample that is positive for *E. coli* is also considered a violation and requires follow-up action and re-sampling. A repeat total coliform positive from the same location is also considered a violation.

Critical water quality parameters (e.g. turbidity, residual chlorine, fluoride, pH, & particle counts) in the treated water are monitored continuously using on-line instruments at the water treatment plants. In addition, water quality samples are collected daily at the two Water Treatment Plants, and 210 to 300 samples per month are collected throughout the distribution system (routine and random sampling sites, reservoirs, following system depressurizations and in response to customer complaints).

The EPCOR Water Laboratory is nationally accredited by CALA (Canadian Association for Laboratory Accreditation) to ISO/IEC 17025 for specific water quality analyses, and it also provides quality assurance support for Water Plant Operations labs and on-line analytical monitoring.

"*Violations*" occur when the concentration of a measured parameter exceeds the AEPA *Approval-to-Operate* limits, including the MACs for the GCDWQ parameters listed Schedule 4.

"Variances" occur when the concentration of a measured parameter exceeds EPCOR's own internal water quality objectives.

2.1.3.1 **Total Water Quality Violations of AEP Approval-to-Operate:**

Current month: **0** YTD Total: **0**

2.1.3.2 **Water Quality Violations for Water Plants (Treated Water)**

Current month**: 0** YTD Total**: 0**

2.1.3.3 **Water Quality Violations (Environmental): Plants Waste Streams**

Current month**: 0** YTD Total**: 0**

2.1.3.4 **Violations for Water Quality in the Field Reservoirs and Distribution System**

Sample Type	This Month	YTD
Depressurization Samples	0	0
Complaint Samples	0	0
Random Samples	0	0
Reservoirs	0	0
TOTAL (Distribution)	0	0

2.1.3.5 **Variances from EPCOR Water Services Water Quality Objectives at the Water Treatment Plants**

Variance Category[1]	This Month	YTD
Aluminum[2] > 0.20 or 0.10 mg/L	1	1
Turbidity > 1 NTU	0	0
Chlorine < 1 mg/L or > 2.4 mg/L	0	0
Cryptosporidium ≥ 1/1000 L	0	0
Giardia ≥ 1/1000 L	0	0
Other	0	16
Total Variances + Violations	1 + 0 = 1	17 + 0 = 17

Notes: 1) Variance statistics include any violations.

2) As of March 1st, 2025, both ELS and ROS WTP were converted to Conventional Filtration mode. Aluminum limit changes from 0.1 mg/L to 0.2 mg/L (operational guideline), when in Direct Filtration.

3) YTD variances in the 'Other' category included one variance for Fluoride in Feb 2025, one variance for Trihalomethanes in May 2025, and 14 variances for Trihalomethanes in June 2025

2.1.3.6 **Variances from EPCOR Water Services Water Quality Objectives in the Field Reservoirs and Distribution System**

Variance Category[1]	This Month	YTD
Turbidity > 1 NTU	21	74
Chlorine < 1 mg/L or > 2.4 mg/L	2	8
Single Positive Coliform	0	2
THMs > 50 µg/L	1	8
Pipe Lube, Odour, UV positive	0	1
Aluminum[2] > 0.20 (or 0.1) mg/L	3	19
Iron > 0.10 mg/L	2	14
Other	0	0
Total Variances + Violations	29 + 0 = 29	126 + 0 = 126

Notes: 1) Variance statistics include any violations.
2) As of March 1st, 2025 both ELS and ROS WTP were converted to Conventional Filtration mode. Aluminum limit changes from 0.1 mg/L to 0.2 mg/L (operational guideline), when in Direct Filtration.

2.2.1 BACTERIOLOGICAL DATA

Water Treatment Plants

July 2025

Location	#	Mean	Range	YTD #	YTD Mean	YTD Range
EL Smith Raw						
Cellular ATP (pg/mL)	1	88.3	88.3	5	77.4	21.5 - 158.5
Coliforms total (MPN/100 mL)	5	514.8	344.8 - 866.4	34	456.6	21.3 - 4962.0
E. coli (MPN/100 mL)	5	20.6	7.3 - 40.4	34	10.6	1.0 - 82.0
Rossdale Raw						
Cellular ATP (pg/mL)	1	175.2	175.2	7	74.9	7.6 - 175.2
Coliforms total (MPN/100 mL)	31	657.3	50.4 - 5510.0	212	696.8	21.6 - 10950.0
E. coli (MPN/100 mL)	31	48.8	2.0 - 322.0	212	47.7	1.0 - 3328.0
EL Smith Treated						
Cellular ATP (pg/mL)	31	0.1	<0.10 - 0.2	212	0.1	<0.10 - 1.6
Coliforms total (PA/100mL)	31	-VE	-VE	212	-VE	-VE
E. coli (PA/100mL)	31	-VE	-VE	212	-VE	-VE
Rossdale Treated						
Cellular ATP (pg/mL)	31	0.1	<0.10 - 0.4	212	0.1	<0.10 - 1.3
Coliforms total (PA/100mL)	31	-VE	-VE	212	-VE	-VE
E. coli (PA/100mL)	31	-VE	-VE	212	-VE	-VE
EL Smith Reservoir						
Cellular ATP (pg/mL)	31	0.1	<0.10 - 0.2	212	0.1	<0.10 - 1.8
Coliforms total (PA/100mL)	31	-VE	-VE	212	-VE	-VE
E. coli (PA/100mL)	31	-VE	-VE	212	-VE	-VE
Rossdale Reservoir						
Cellular ATP (pg/mL)	31	0.1	<0.10 - 0.5	212	0.1	<0.10 - 0.5
Coliforms total (PA/100mL)	31	-VE	-VE	212	-VE	-VE
E. coli (PA/100mL)	31	-VE	-VE	212	-VE	-VE

2.2.2 BACTERIOLOGICAL DATA

Distribution System

July 2025

Parameter (Units)	#	Mean	Range	YTD #	YTD Mean	YTD Range
Cellular ATP (pg/mL)	173	0.5	<0.10 - 5.5	896	0.3	<0.10 - 10.0
Chlorine total (mg/L)	262	1.60	0.70 - 2.24	1582	1.80	0.19 - 2.34
Coliforms total (MPN/100 mL)				14	Not Detected	Not Detected
Coliforms total (PA/100mL)	261	-VE	-VE	1567	-VE	+VE - -VE
E. coli (MPN/100 mL)				14	Not Detected	Not Detected
E. coli (PA/100mL)	261	-VE	-VE	1567	-VE	-VE
Turbidity (NTU)	262	0.23	<0.04 - 3.16	1582	0.21	<0.04 - 6.84

261

Count of Bacteriological Tests

124%

Percent of Target Sampling (210)

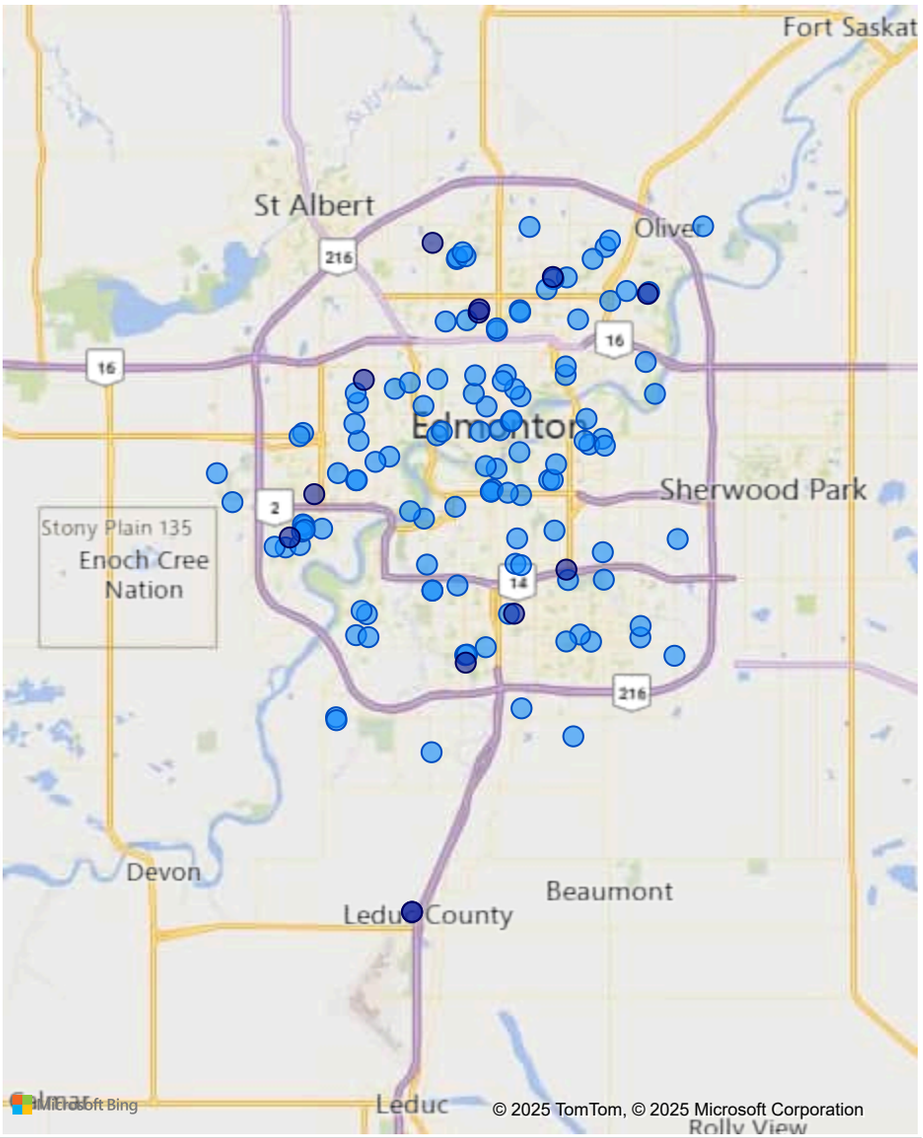
47%

Analyzed by AHS

53%

Analyzed by Epcor

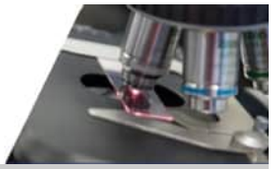
PROJECT_NAME Distribution Water Outlying Field Reservoirs



2.2.3 SUMMARY OF GIARDIA AND CRYPTOSPORIDIUM

Water Treatment Plants

July 2025



Location	EL Smith Raw		EL Smith Reservoir		Rossdale Raw		Rossdale Reservoir	
Date	Cryptosporidium	Giardia	Cryptosporidium	Giardia	Cryptosporidium	Giardia	Cryptosporidium	Giardia
Jan 13					<32.29	<32.29	<0.1	<0.1
Jan 14	<1.64	<1.64	<0.09	<0.09				
Feb 10	<1	1	<0.1	<0.1	<1	13.9	<0.1	<0.1
Mar 11	<2.78	11.1	<0.1	<0.1	<3.76	18.8	<0.09	<0.09
Apr 16	13.0	150.0	<0.1	<0.1	17.0	130.0	<0.1	<0.1
May 05	<7.9	16.0	<0.1	<0.1	<3.2	16.0	<0.1	<0.1
Jun 11	<9.9	<9.9	<0.1	<0.1	<4.4	<4.4	<0.1	<0.1
Jul 14					<5.5	11.0	<0.1	<0.1
Jul 15	7.6	68.0	<0.1	<0.1				

2.2.4 TREATED WATER ENTERING THE DISTRIBUTION SYSTEM

Rossdale Water Treatment Plant

July 2025

Parameter (units)	#	Mean	Range	YTD #	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Microbiologicals								
Coliforms total (PA/100mL)	31	-VE	-VE	212	-VE	-VE	0.0	
Cryptosporidium (oocysts/100L)	1	<0.1	<0.1	7	<0.1	<0.09 - <0.1		
E. coli (PA/100mL)	31	-VE	-VE	212	-VE	-VE	0.0	
Giardia (cysts/100L)	1	<0.1	<0.1	7	<0.1	<0.09 - <0.1		
Physical								
Colour (TCU)	31	1.3	0.6 - 1.7	212	1.0	<0.5 - 2.7	(15.0)	10.0
Conductivity (µS/cm)	5	396.8	385.0 - 406.0	30	398.2	358.0 - 442.0		
pH	31	8	8	211	8	8		7 - 8
Total Dissolved Solids (mg/L)	1	216.00	216.00	7	236.14	211.00 - 267.00	(500.00)	
Turbidity (NTU)	31	0.04	<0.04 - 0.07	212	0.05	<0.04 - 0.10	(3.00)	1.00
Primary Inorganics								
Antimony (mg/L)	1	<0.0005	<0.0005	7	<0.0005	<0.0005	0.0060	
Arsenic (mg/L)	1	0.0002	0.0002	7	0.0002	<0.0002 - 0.0002	0.0100	
Barium (mg/L)	1	0.064	0.064	7	0.062	0.054 - 0.067	2.000	
Boron (mg/L)	1	0.010	0.010	7	0.012	0.008 - 0.019	5.000	
Bromate Dissolved (mg/L)	5	<0.005	<0.005	30	<0.005	<0.003 - <0.005	0.010	
Cadmium (mg/L)	1	<0.00002	<0.00002	7	<0.00002	<0.00002	0.00700	
Chlorate Dissolved (mg/L)	5	0.35	0.33 - 0.44	30	0.29	0.1 - 0.49	1.00	
Chlorine total (mg/L)	31	2.18	2.04 - 2.27	212	2.13	1.93 - 2.32		
Chlorite Dissolved (mg/L)	5	<0.005	<0.005	30	<0.2	<0.005 - <0.2	1.000	
Chromium (mg/L)	1	<0.0002	<0.0002	7	0.0002	<0.0002	0.0500	
Cyanide (mg/L)	1	<0.002	<0.002	3	<0.002	<0.002	0.2000	
Fluoride (mg/L)	31	0.70	0.65 - 0.75	211	0.71	0.63 - 0.76	1.50	0.60 - 0.80
Lead (mg/L)	1	<0.0002	<0.0002	7	0.0002	<0.0002	0.0050	
Mercury (µg/L)	1	<0.0050	<0.0050	3	<0.0050	<0.0050	1.0000	
Mercury (mg/L)	1	<0.0002	<0.0002	7	0.0002	<0.0002	0.0010	
Nitrate (as N) dissolved (mg/L)	5	0.02	<0.01 - 0.06	29	0.06	<0.01 - 0.18	10.00	
Nitrite (as N) dissolved (mg/L)	5	0.01	0.01	29	0.01	<0.01 - 0.01	1.00	
Selenium (mg/L)	1	0.0003	0.0003	7	0.0003	<0.0002 - 0.0003	0.0500	
Uranium (mg/L)	1	<0.0005	<0.0005	7	0.0005	<0.0005 - 0.0006	0.0200	

2.2.4 TREATED WATER ENTERING THE DISTRIBUTION SYSTEM

Rossdale Water Treatment Plant

July 2025

Parameter (units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Primary Organics								
2,4-D (µg/L)	1	0.059	0.059	3	0.059	<0.050 - 0.059	100.000	
2-methyl-4-chlorophenoxyacetic acid (MCPA) (µg/L)	1	<0.050	<0.050	3	<0.250	<0.050 - <0.250	350.000	
Atrazine + metabolites (µg/L)	1	<0.10	<0.10	3	0.1	<0.10	5.0	
Benzene (µg/L)	31	0.8	<0.5 - 1.0	212	0.5	<0.5 - 1.0	5.0	
Benzo(a)pyrene (µg/L)	1	<0.005	<0.005	3	<0.005	<0.005	0.0400	
Bromoxynil (µg/L)	1	<0.050	<0.050	3	<0.250	<0.050 - <0.250	30.000	
Carbon Tetrachloride (µg/L)	31	0.8	<0.5 - 1.0	212	0.5	<0.5 - 1.0	2.0	
Chlorobenzene (µg/L)	31	0.8	<0.5 - 1.0	212	0.5	<0.5 - 1.0		
Chlorpyrifos (µg/L)	1	<0.10	<0.10	3	0.10	<0.10	90.00	
Cyanazine (µg/L)	1	<0.100	<0.100	3	0.10	<0.100		
Diazinon (µg/L)	1	<0.0250	<0.0250	3	0.025	<0.0250		
Dicamba (µg/L)	1	<0.10	<0.10	3	<0.50	<0.10 - <0.50	110.00	
Dichlorobenzene (1,2) (µg/L)	31	0.8	<0.5 - 1.0	212	0.5	<0.5 - 1.0	200.0 (3.0)	
Dichlorobenzene (1,4) (µg/L)	31	0.8	<0.5 - 1.0	212	0.5	<0.5 - 1.0	5.0 (1.0)	
Dichloroethane (1,2) (µg/L)	31	0.8	<0.5 - 1.0	212	0.5	<0.5 - 1.0	5.0	
Dichloroethylene (1,1) (µg/L)	31	0.8	<0.5 - 1.0	212	0.5	<0.5 - 1.0	14.0	
Dichlorophenol (2,4) (µg/L)	1	<0.20	<0.20	3	0.20	<0.20		
Diclofop-methyl (µg/L)	1	<0.100	<0.100	3	0.10	<0.100		
Dimethoate (µg/L)	1	<0.050	<0.050	3	0.050	<0.050	20.000	
Diquat (µg/L)	1	<1.0	<1.0	3	<1.0	<1.0	50.0	
Diuron (µg/L)	1	<0.050	<0.050	3	0.050	<0.050		
Ethylbenzene (µg/L)	31	0.8	<0.5 - 1.0	212	0.5	<0.5 - 1.0	140.0 (1.6)	
Glyphosate (µg/L)	1	<1.00	<1.00	3	<1.00	<0.20 - <1.00	280.00	
Haloacetic acids total (HAA5) (µg/L)	1	30.2	30.2	6	19.4	11.1 - 30.4	80.0	40.0
Malathion (µg/L)	1	<0.0250	<0.0250	3	0.025	<0.0250	290.000	
Methylene Chloride (Dichloromethane) (µg/L)	31	0.8	<0.5 - 1.0	212	<1.00	<0.5 - <1.00	50.0	
Metolachlor (µg/L)	1	<0.0250	<0.0250	3	0.025	<0.0250		
Metribuzin (µg/L)	1	<0.100	<0.100	3	0.10	<0.100	80.00	
Microcystin total (µg/L)	1	<0.15	<0.15	3	0.15	<0.15 - 0.16	1.50	
Nitrilotriacetic acid (NTA) (mg/L)	1	<0.4	<0.4	3	0.40	<0.4	0.40	
Nitrosodimethylamine, N- [NDMA] (µg/L)	1	0.00142	0.00142	6	0.00142	<0.0009 - 0.00142	0.04000	0.01000
Omethoate (as dimethoate) (µg/L)	1	<0.16	<0.16	3	<0.16	<0.16		
Pentachlorophenol (µg/L)	1	<0.50	<0.50	3	<0.50	<0.50	60.00 (30.00)	
Perfluorooctanesulfonic acid (PFOS) (ng/L)	3	<2.0	<2.0	5	<2.0	<2.0	2.0	
Perfluorooctanoic Acid (ng/L)	3	<2.0	<2.0	5	<2.0	<2.0	2.0	
Phorate (µg/L)	1	<0.250	<0.250	3	<0.250	<0.250		
Picloram (µg/L)	1	<0.10	<0.10	3	<0.50	<0.10 - <0.50		
Simazine (µg/L)	1	<0.100	<0.100	3	0.10	<0.100		
Terbufos (µg/L)	1	<0.50	<0.50	3	<0.50	<0.50		
Tetrachloroethylene (µg/L)	31	0.8	<0.5 - 1.0	212	0.5	<0.5 - 1.0	10.0	
Tetrachlorophenol (2,3,4,6) (µg/L)	1	<0.50	<0.50	3	<0.50	<0.50		
Toluene (µg/L)	31	0.8	<0.5 - 1.0	212	0.5	<0.5 - 1.0	60.0 (24.0)	
Trichloroethylene (µg/L)	31	0.8	<0.5 - 1.0	212	0.5	<0.5 - 1.0	5.0	
Trichlorophenol (2,4,6) (µg/L)	1	<0.20	<0.20	3	0.20	<0.20	5.00 (2.00)	
Trifluralin (µg/L)	1	<0.10	<0.10	3	0.10	<0.10		
Trihalomethanes (µg/L)	31	38.5	27.3 - 45.4	212	22.6	4.3 - 84.7	100.0	50.0
Vinyl Chloride (µg/L)	31	1.6	<1.0 - 2.0	212	1.03	<0.50 - 2.00	2.00	
Xylenes total (µg/L)	31	<1.0	<1.0	212	<1.0	<0.50 - <1.0	90.00 (20.00)	

2.2.4 TREATED WATER ENTERING THE DISTRIBUTION SYSTEM

Rossdale Water Treatment Plant

July 2025

Parameter (units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Inorganics								
Alkalinity total (mg CaCO3/L)	31	111.4	102.0 - 119.0	211	113.8	81.0 - 139.0		
Aluminum (mg/L)	1	0.127	0.127	7	0.059	0.021 - 0.127	2.900 (0.100)	
Ammonia as NH3 (mg/L)	14	0.10	0.07 - 0.12	124	0.11	0.01 - 0.18		
Beryllium (mg/L)	1	<0.0002	<0.0002	7	0.0002	<0.0002		
Bromide Dissolved (mg/L)	5	<0.03	<0.03	30	<0.05	<0.03 - <0.05		
Calcium (mg/L)	1	46.1	46.1	7	47.4	43.8 - 54.0		
Calcium Hardness (mg/L CaCO3)	31	114.4	109.0 - 119.0	212	115.8	90.0 - 136.0		
Chloride Dissolved (mg/L)	5	7.2	6.8 - 7.6	30	7.12	4.59 - 14.20	(250.00)	
Chlorine free (mg/L)	1	<0.07	<0.07	6	<0.07	<0.07		
Cobalt (mg/L)	1	<0.0002	<0.0002	7	0.0002	<0.0002		
Copper (mg/L)	1	<0.002	<0.002	7	<0.002	<0.002	2.000 (1.000)	
Iron (mg/L)	1	<0.005	<0.005	7	<0.005	<0.005	(0.100)	
Lithium (mg/L)	1	0.0040	0.0040	7	0.0035	0.0030 - 0.0040		
Magnesium (mg/L)	1	14.5	14.5	7	14.5	12.6 - 17.2		
Manganese (mg/L)	1	<0.002	<0.002	7	<0.002	<0.002	0.120 (0.020)	
Molybdenum (mg/L)	1	0.0007	0.0007	7	0.0007	0.0006 - 0.0010		
Nickel (mg/L)	1	<0.0005	<0.0005	7	0.0005	<0.0005 - 0.0007		
Phosphate Ortho (as P) (mg/L as P)	1	<0.02	<0.02	6	<0.02	<0.02		
Phosphorus (mg/L)	1	<0.02	<0.02	7	<0.02	<0.02		
Potassium (mg/L)	1	0.8	0.8	7	1.0	0.6 - 1.9		
Silicon (mg/L)	1	1.56	1.56	7	2.13	1.56 - 2.45		
Silver (mg/L)	1	<0.00002	<0.00002	7	<0.00002	<0.00002		
Sodium (mg/L)	1	10.1	10.1	7	12.7	6.8 - 19.6	(200.0)	
Strontium (mg/L)	1	0.435	0.435	7	0.438	0.367 - 0.480	7.000	
Sulphate Dissolved (mg/L)	5	75.7	70.5 - 84.6	30	74.1	59.3 - 105.0	(500.0)	
Sulphide (mg/L)	1	<0.0015	<0.0015	3	0.0015	<0.0015	(0.0500)	
Thallium (mg/L)	1	<0.0002	<0.0002	7	0.0002	<0.0002		
Tin (mg/L)	1	<0.0005	<0.0005	7	<0.0005	<0.0005		
Titanium (mg/L)	1	<0.0005	<0.0005	7	<0.0005	<0.0005		
Total Hardness (mg/L CaCO3)	31	171.4	162.0 - 180.0	212	174.6	131.0 - 209.0		
Vanadium (mg/L)	1	<0.0005	<0.0005	7	<0.0005	<0.0005		

2.2.4 TREATED WATER ENTERING THE DISTRIBUTION SYSTEM

Rossdale Water Treatment Plant

July 2025

Parameter (units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Organics								
Xylene (1,4) (µg/L)	31	0.8	<0.5 - 1.0	212	0.53	<0.40 - 1.00		
Xylene (1,2) (µg/L)	31	0.8	<0.5 - 1.0	212	0.52	<0.30 - 1.00		
Trichloroethane (1,1,1) (µg/L)	31	0.8	<0.5 - 1.0	212	0.5	<0.5 - 1.0		
Trichlorobenzene (1,2,4) (µg/L)	31	0.8	<0.5 - 1.0	212	0.5	<0.5 - 1.0		
Trichloroacetic acid (µg/L)	1	17.00	17.00	6	10.19	5.56 - 17.00		
Total Volatile Organics (Non THM) (µg/L)	31	1.8	<1.0 - 3.1	185	1.4	<1.0 - 3.8		
Total Organic Carbon (mg/L)	5	2.0	1.8 - 2.2	30	1.7	0.8 - 3.4		
Tetrachloroethane (1,1,2,2) (µg/L)	31	0.8	<0.5 - 1.0	212	0.5	<0.5 - 1.0		
Styrene (µg/L)	31	0.8	<0.5 - 1.0	212	0.5	<0.5 - 1.0		
Monochloroacetic acid (µg/L)	1	<1.00	<1.00	6	<1.00	<1.00		
Monobromoacetic acid (µg/L)	1	<1.00	<1.00	6	<1.00	<1.00		
Methyl t-Butyl Ether (MTBE) (µg/L)	31	0.8	<0.5 - 1.0	212	0.5	<0.5 - 1.0	100.0 (15.0)	50.0
Methyl Isobutyl Ketone (MIBK) (µg/L)	31	1.6	<1.0 - 2.0	212	<20	<1.0 - <20		
Dichloropropane (1,2) (µg/L)	31	0.8	<0.5 - 1.0	212	0.5	<0.5 - 1.0		
Dichloroethylene trans (1,2) (µg/L)	31	0.8	<0.5 - 1.0	212	0.5	<0.5 - 1.0		
Dichloroethylene cis (1,2) (µg/L)	31	0.8	<0.5 - 1.0	212	0.5	<0.5 - 1.0		
Dichlorobenzene (1,3) (µg/L)	31	0.8	<0.5 - 1.0	212	0.5	<0.5 - 1.0		
Dichloroacetic acid (µg/L)	1	13.20	13.20	6	9.21	4.94 - 15.10		
Dibromochloromethane (µg/L)	31	0.8	<0.5 - 1.0	212	0.5	<0.5 - 1.0		
Dibromoacetic acid (µg/L)	1	<1.00	<1.00	6	<1.00	<1.00		
Chloroform (µg/L)	31	36.8	26.2 - 43.8	212	21.3	3.6 - 82.8	(40.0)	
Bromoform (µg/L)	31	0.8	<0.5 - 1.0	212	0.5	<0.5 - 1.0		
Bromodichloromethane (µg/L)	31	1.4	0.9 - 1.7	212	1.2	<0.5 - 2.6		
Bromochloroacetic acid (µg/L)	1	<1.00	<1.00	6	<1.00	<1.00		
Radionuclides								
Tritium (Bq/L)				1	<40	<40	7000.00	
Strontium-90 (Bq/L)				1	<0.05	<0.05	5.00	
Radium-226 (Bq/L)				1	0.007	0.007	0.500	
Lead-210 (Bq/L)				1	<0.02	<0.02	0.20	
Iodine-131 (Bq/L)				1	<0.6	<0.6	6.0	
Gross Beta (Bq/L)				1	0.17	0.17		
Gross Alpha (Bq/L)				1	<0.12	<0.12		
Cesium-137 (Bq/L)				1	<0.09	<0.09	10.00	

2.2.4 TREATED WATER ENTERING THE DISTRIBUTION SYSTEM

E.L Smith Water Treatment Plant

July 2025

Parameter (units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Microbiologicals								
Coliforms total (PA/100mL)	31	-VE	-VE	212	-VE	-VE	0.0	
Cryptosporidium (oocysts/100L)	1	<0.1	<0.1	7	<0.1	<0.09 - <0.1		
E. coli (PA/100mL)	31	-VE	-VE	212	-VE	-VE	0.0	
Giardia (cysts/100L)	1	<0.1	<0.1	7	<0.1	<0.09 - <0.1		
Physical								
Colour (TCU)	31	1.4	0.7 - 1.7	212	0.9	<0.5 - 1.8	(15.0)	10.0
Conductivity (µS/cm)	5	412.8	394.0 - 426.0	30	403.4	359.0 - 476.0		
pH	31	8	8	212	8	8		7 - 8
Total Dissolved Solids (mg/L)	1	211.00	211.00	7	208.86	52.00 - 266.00	(500.00)	
Turbidity (NTU)	31	0.04	<0.04 - 0.08	212	0.06	<0.04 - 0.52	(3.00)	1.00
Primary Inorganics								
Antimony (mg/L)	1	<0.0005	<0.0005	7	<0.0005	<0.0005	0.0060	
Arsenic (mg/L)	1	<0.0002	<0.0002	7	0.0002	<0.0002	0.0100	
Barium (mg/L)	1	0.063	0.063	7	0.061	0.053 - 0.066	2.000	
Boron (mg/L)	1	0.010	0.010	7	0.011	0.008 - 0.016	5.000	
Bromate Dissolved (mg/L)	5	<0.005	<0.005	30	<0.005	<0.003 - <0.005	0.010	
Cadmium (mg/L)	1	<0.00002	<0.00002	7	<0.00002	<0.00002	0.00700	
Chlorate Dissolved (mg/L)	5	0.12	0.10 - 0.14	30	0.11	<0.1 - 0.16	1.00	
Chlorine total (mg/L)	31	2.02	1.95 - 2.08	212	2.06	1.89 - 2.21		
Chlorite Dissolved (mg/L)	5	<0.005	<0.005	30	<0.2	<0.005 - <0.2	1.000	
Chromium (mg/L)	1	<0.0002	<0.0002	7	0.0002	<0.0002	0.0500	
Cyanide (mg/L)	1	<0.002	<0.002	3	<0.002	<0.002	0.2000	
Fluoride (mg/L)	31	0.67	0.63 - 0.71	212	0.66	0.59 - 0.78	1.50	0.60 - 0.80
Lead (mg/L)	1	<0.0002	<0.0002	7	0.0002	<0.0002	0.0050	
Mercury (µg/L)	1	<0.0050	<0.0050	3	<0.0050	<0.0050	1.0000	
Mercury (mg/L)	1	<0.0002	<0.0002	7	0.0002	<0.0002	0.0010	
Nitrate (as N) dissolved (mg/L)	5	0.02	<0.01 - 0.06	29	0.06	<0.01 - 0.16	10.00	
Nitrite (as N) dissolved (mg/L)	5	0.01	0.01	29	0.01	<0.01 - 0.01	1.00	
Selenium (mg/L)	1	0.0003	0.0003	7	0.0003	0.0002 - 0.0004	0.0500	
Uranium (mg/L)	1	<0.0005	<0.0005	7	0.0005	<0.0005 - 0.0006	0.0200	

2.2.4 TREATED WATER ENTERING THE DISTRIBUTION SYSTEM

E.L. Smith Water Treatment Plant

July 2025

Parameter (units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Primary Organics								
2,4-D (µg/L)	1	<0.050	<0.050	3	<0.250	<0.050 - <0.250	100.000	
2-methyl-4-chlorophenoxyacetic acid (MCPA) (µg/L)	1	<0.050	<0.050	3	<0.250	<0.050 - <0.250	350.000	
Atrazine + metabolites (µg/L)	1	<0.10	<0.10	3	0.1	<0.10	5.0	
Benzene (µg/L)	31	0.8	<0.5 - 1.0	212	0.5	<0.5 - 1.0	5.0	
Benzo(a)pyrene (µg/L)	1	<0.005	<0.005	3	<0.005	<0.005	0.0400	
Bromoxynil (µg/L)	1	<0.050	<0.050	3	<0.250	<0.050 - <0.250	30.000	
Carbon Tetrachloride (µg/L)	31	0.8	<0.5 - 1.0	212	0.5	<0.5 - 1.0	2.0	
Chlorobenzene (µg/L)	31	0.8	<0.5 - 1.0	212	0.5	<0.5 - 1.0		
Chlorpyrifos (µg/L)	1	<0.10	<0.10	3	0.10	<0.10	90.00	
Cyanazine (µg/L)	1	<0.100	<0.100	3	0.10	<0.100		
Diazinon (µg/L)	1	<0.0250	<0.0250	3	0.025	<0.0250		
Dicamba (µg/L)	1	<0.10	<0.10	3	<0.50	<0.10 - <0.50	110.00	
Dichlorobenzene (1,2) (µg/L)	31	0.8	<0.5 - 1.0	212	0.5	<0.5 - 1.0	200.0 (3.0)	
Dichlorobenzene (1,4) (µg/L)	31	0.8	<0.5 - 1.0	212	0.5	<0.5 - 1.0	5.0 (1.0)	
Dichloroethane (1,2) (µg/L)	31	0.8	<0.5 - 1.0	212	0.5	<0.5 - 1.0	5.0	
Dichloroethylene (1,1) (µg/L)	31	0.8	<0.5 - 1.0	212	0.5	<0.5 - 1.0	14.0	
Dichlorophenol (2,4) (µg/L)	1	<0.20	<0.20	3	0.20	<0.20		
Diclofop-methyl (µg/L)	1	<0.100	<0.100	3	0.10	<0.100		
Dimethoate (µg/L)	1	<0.050	<0.050	3	0.050	<0.050	20.000	
Diquat (µg/L)	1	<1.0	<1.0	3	<1.0	<1.0	50.0	
Diuron (µg/L)	1	<0.050	<0.050	3	0.050	<0.050		
Ethylbenzene (µg/L)	31	0.8	<0.5 - 1.0	212	0.5	<0.5 - 1.0	140.0 (1.6)	
Glyphosate (µg/L)	1	<1.00	<1.00	3	<1.00	<0.20 - <1.00	280.00	
Haloacetic acids total (HAA5) (µg/L)	1	27.0	27.0	7	18.4	7.8 - 30.1	80.0	40.0
Malathion (µg/L)	1	<0.0250	<0.0250	3	0.025	<0.0250	290.000	
Methylene Chloride (Dichloromethane) (µg/L)	31	0.8	<0.5 - 1.0	212	<1.00	<0.5 - <1.00	50.0	
Metolachlor (µg/L)	1	<0.0250	<0.0250	3	0.025	<0.0250		
Metribuzin (µg/L)	1	<0.100	<0.100	3	0.10	<0.100	80.00	
Microcystin total (µg/L)	1	<0.15	<0.15	3	<0.15	<0.15	1.50	
Nitrilotriacetic acid (NTA) (mg/L)	1	<0.4	<0.4	3	0.40	<0.4	0.40	
Nitrosodimethylamine, N- [NDMA] (µg/L)	1	<0.0009	<0.0009	7	<0.0018	<0.0009 - <0.0018	0.04000	0.01000
Omethoate (as dimethoate) (µg/L)	1	<0.16	<0.16	3	<0.16	<0.16		
Pentachlorophenol (µg/L)	1	<0.50	<0.50	3	<0.50	<0.50	60.00 (30.00)	
Perfluorooctanesulfonic acid (PFOS) (ng/L)	3	<2.0	<2.0	5	<2.0	<2.0	2.0	
Perfluorooctanoic Acid (ng/L)	3	<2.0	<2.0	5	<2.0	<2.0	2.0	
Phorate (µg/L)	1	<0.250	<0.250	3	<0.250	<0.250		
Picloram (µg/L)	1	<0.10	<0.10	3	<0.50	<0.10 - <0.50		
Simazine (µg/L)	1	<0.100	<0.100	3	0.10	<0.100		
Terbufos (µg/L)	1	<0.50	<0.50	3	<0.50	<0.50		
Tetrachloroethylene (µg/L)	31	0.8	<0.5 - 1.0	212	0.5	<0.5 - 1.0	10.0	
Tetrachlorophenol (2,3,4,6) (µg/L)	1	<0.50	<0.50	3	<0.50	<0.50		
Toluene (µg/L)	31	0.8	<0.5 - 1.0	212	0.5	<0.5 - 1.0	60.0 (24.0)	
Trichloroethylene (µg/L)	31	0.8	<0.5 - 1.0	212	0.5	<0.5 - 1.0	5.0	
Trichlorophenol (2,4,6) (µg/L)	1	<0.20	<0.20	3	0.20	<0.20	5.00 (2.00)	
Trifluralin (µg/L)	1	<0.10	<0.10	3	0.10	<0.10		
Trihalomethanes (µg/L)	31	36.8	26.7 - 46.7	212	19.6	4.3 - 64.5	100.0	50.0
Vinyl Chloride (µg/L)	31	1.6	<1.0 - 2.0	212	1.03	<0.50 - 2.00	2.00	
Xylenes total (µg/L)	31	<1.0	<1.0	212	<1.0	<0.50 - <1.0	90.00 (20.00)	

2.2.4 TREATED WATER ENTERING THE DISTRIBUTION SYSTEM

E.L. Smith Water Treatment Plant

July 2025

Parameter (units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Inorganics								
Alkalinity total (mg CaCO3/L)	31	115.4	109.0 - 122.0	212	115.5	90.0 - 138.0		
Aluminum (mg/L)	1	0.100	0.100	7	0.055	0.021 - 0.100	2.900 (0.100)	
Ammonia as NH3 (mg/L)	14	0.10	0.08 - 0.12	124	0.09	0.01 - 0.15		
Beryllium (mg/L)	1	<0.0002	<0.0002	7	0.0002	<0.0002		
Bromide Dissolved (mg/L)	5	<0.03	<0.03	30	<0.05	<0.03 - <0.05		
Calcium (mg/L)	1	46.9	46.9	7	47.7	44.1 - 54.9		
Calcium Hardness (mg/L CaCO3)	31	114.7	108.0 - 120.0	212	116.0	92.0 - 137.0		
Chloride Dissolved (mg/L)	5	6.9	6.6 - 7.8	30	6.54	5.02 - 8.96	(250.00)	
Chlorine free (mg/L)	1	<0.07	<0.07	6	<0.07	<0.07		
Cobalt (mg/L)	1	<0.0002	<0.0002	7	0.0002	<0.0002		
Copper (mg/L)	1	<0.002	<0.002	7	<0.002	<0.002	2.000 (1.000)	
Iron (mg/L)	1	<0.005	<0.005	7	<0.005	<0.005	(0.100)	
Lithium (mg/L)	1	0.0033	0.0033	7	0.0032	0.0027 - 0.0037		
Magnesium (mg/L)	1	14.5	14.5	7	14.5	12.9 - 17.1		
Manganese (mg/L)	1	<0.002	<0.002	7	0.002	<0.002 - 0.005	0.120 (0.020)	
Molybdenum (mg/L)	1	0.0007	0.0007	7	0.0007	0.0005 - 0.0009		
Nickel (mg/L)	1	<0.0005	<0.0005	7	0.0005	<0.0005 - 0.0007		
Phosphate Ortho (as P) (mg/L as P)	1	<0.02	<0.02	6	<0.02	<0.02		
Phosphorus (mg/L)	1	<0.02	<0.02	7	<0.02	<0.02		
Potassium (mg/L)	1	0.7	0.7	7	0.9	0.6 - 1.8		
Silicon (mg/L)	1	1.49	1.49	7	2.08	1.49 - 2.45		
Silver (mg/L)	1	<0.00002	<0.00002	7	<0.00002	<0.00002		
Sodium (mg/L)	1	11.3	11.3	7	14.2	6.3 - 27.2	(200.0)	
Strontium (mg/L)	1	0.445	0.445	7	0.437	0.369 - 0.475	7.000	
Sulphate Dissolved (mg/L)	5	79.9	70.5 - 89.4	30	77.4	60.7 - 116.0	(500.0)	
Sulphide (mg/L)	1	<0.0015	<0.0015	3	0.0015	<0.0015	(0.0500)	
Thallium (mg/L)	1	<0.0002	<0.0002	7	0.0002	<0.0002		
Tin (mg/L)	1	<0.0005	<0.0005	7	<0.0005	<0.0005		
Titanium (mg/L)	1	<0.0005	<0.0005	7	<0.0005	<0.0005		
Total Hardness (mg/L CaCO3)	31	172.3	162.0 - 182.0	212	175.0	136.0 - 212.0		
Vanadium (mg/L)	1	<0.0005	<0.0005	7	<0.0005	<0.0005		
Zinc (mg/L)	1	<0.005	<0.005	7	<0.005	<0.005	(5.000)	
Zirconium (mg/L)	1	<0.001	<0.001	7	<0.001	<0.001		

2.2.4 TREATED WATER ENTERING THE DISTRIBUTION SYSTEM

E.L. Smith Water Treatment Plant

July 2025

Parameter (units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Organics								
Xylene (1,4) (µg/L)	31	0.8	<0.5 - 1.0	212	0.53	<0.40 - 1.00		
Xylene (1,2) (µg/L)	31	0.8	<0.5 - 1.0	212	0.52	<0.30 - 1.00		
Trichloroethane (1,1,1) (µg/L)	31	0.8	<0.5 - 1.0	212	0.5	<0.5 - 1.0		
Trichlorobenzene (1,2,4) (µg/L)	31	0.8	<0.5 - 1.0	212	0.5	<0.5 - 1.0		
Trichloroacetic acid (µg/L)	1	14.30	14.30	7	9.32	3.92 - 15.20		
Total Volatile Organics (Non THM) (µg/L)	31	1.7	<1.0 - 2.9	185	1.4	<1.0 - 3.8		
Total Organic Carbon (mg/L)	5	2.1	1.8 - 2.4	30	1.6	0.8 - 3.1		
Tetrachloroethane (1,1,2,2) (µg/L)	31	0.8	<0.5 - 1.0	212	0.5	<0.5 - 1.0		
Styrene (µg/L)	31	0.8	<0.5 - 1.0	212	0.5	<0.5 - 1.0		
Monochloroacetic acid (µg/L)	1	<1.00	<1.00	7	<1.00	<1.00		
Monobromoacetic acid (µg/L)	1	<1.00	<1.00	7	<1.00	<1.00		
Methyl t-Butyl Ether (MTBE) (µg/L)	31	0.8	<0.5 - 1.0	212	0.5	<0.5 - 1.0	100.0 (15.0)	50.0
Methyl Isobutyl Ketone (MIBK) (µg/L)	31	1.6	<1.0 - 2.0	212	<20	<1.0 - <20		
Dichloropropane (1,2) (µg/L)	31	0.8	<0.5 - 1.0	212	0.5	<0.5 - 1.0		
Dichloroethylene trans (1,2) (µg/L)	31	0.8	<0.5 - 1.0	212	0.5	<0.5 - 1.0		
Dichloroethylene cis (1,2) (µg/L)	31	0.8	<0.5 - 1.0	212	0.5	<0.5 - 1.0		
Dichlorobenzene (1,3) (µg/L)	31	0.8	<0.5 - 1.0	212	0.5	<0.5 - 1.0		
Dichloroacetic acid (µg/L)	1	12.70	12.70	7	9.11	3.91 - 14.90		
Dibromochloromethane (µg/L)	31	0.8	<0.5 - 1.0	212	0.5	<0.5 - 1.0		
Dibromoacetic acid (µg/L)	1	<1.00	<1.00	7	<1.00	<1.00		
Chloroform (µg/L)	31	35.4	25.8 - 44.9	212	18.5	3.5 - 62.8	(40.0)	
Bromoform (µg/L)	31	0.8	<0.5 - 1.0	212	0.5	<0.5 - 1.0		
Bromodichloromethane (µg/L)	31	1.2	0.8 - 1.6	212	0.9	<0.5 - 2.0		
Bromochloroacetic acid (µg/L)	1	<1.00	<1.00	7	<1.00	<1.00		
Radionuclides								
Tritium (Bq/L)				1	<40	<40	7000.00	
Strontium-90 (Bq/L)				1	<0.05	<0.05	5.00	
Radium-226 (Bq/L)				1	<0.005	<0.005	0.500	
Lead-210 (Bq/L)				1	<0.02	<0.02	0.20	
Iodine-131 (Bq/L)				1	<0.4	<0.4	6.0	
Gross Beta (Bq/L)				1	0.09	0.09		
Gross Alpha (Bq/L)				1	<0.12	<0.12		
Cesium-137 (Bq/L)				1	<0.2	<0.2	10.0	

2.2.5 TREATED WATER ENTERING THE PLANT RESERVOIR

E.L. Smith and Rossdale Reservoirs

July 2025

Parameter (units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Physical								
EL Smith Combined Filter Effluent								
UV 254 % Transmittance (%T/cm)	31	93.8	91.0	212	97.6	90.2 - 97.6		
UV Absorbance (UV Abs/cm)	31	0.035	0.028 - 0.041	212	0.026	0.011 - 0.045		
EL Smith Treated								
Turbidity (NTU)	31	0.04	<0.04 - 0.09	212	0.05	<0.04 - 0.10	(3.00)	0.10
Rossdale Filter Effluent								
UV 254 % Transmittance (%T/cm)	31	94.1	90.3	212	97.2	89.2 - 97.2		
UV Absorbance (UV Abs/cm)	31	0.035	0.026 - 0.045	212	0.027	0.013 - 0.050		
Rossdale Treated								
Turbidity (NTU)	31	0.04	<0.04 - 0.08	212	0.05	<0.04 - 0.11	(3.00)	0.10
Primary Organics								
EL Smith Treated								
Benzene (µg/L)	31	<0.5	<0.5	212	<0.50	<0.5 - <0.50	5.0	
Carbon Tetrachloride (µg/L)	31	<0.5	<0.5	212	<0.50	<0.5 - <0.50	2.0	
Chlorobenzene (µg/L)	31	<0.5	<0.5	212	<0.50	<0.5 - <0.50		
Dichlorobenzene (1,2) (µg/L)	31	<0.5	<0.5	212	<0.50	<0.5 - <0.50	200.0 (3.0)	
Dichlorobenzene (1,4) (µg/L)	31	<0.5	<0.5	212	<0.50	<0.5 - <0.50	5.0 (1.0)	
Dichloroethylene (1,1) (µg/L)	31	<0.5	<0.5	212	<0.50	<0.5 - <0.50	14.0	
Ethylbenzene (µg/L)	31	<0.5	<0.5	212	<0.50	<0.5 - <0.50	140.0 (1.6)	
Methylene Chloride (Dichloromethane) (µg/L)	31	<0.5	<0.5	212	<1.00	<0.5 - <1.00	50.0	
Tetrachloroethylene (µg/L)	31	<0.5	<0.5	212	<0.50	<0.5 - <0.50	10.0	
Toluene (µg/L)	31	<0.5	<0.5	212	<0.50	<0.5 - <0.50	60.0 (24.0)	
Trichloroethylene (µg/L)	31	<0.5	<0.5	212	<0.50	<0.5 - <0.50	5.0	
Trihalomethanes (µg/L)	31	26.3	19.7 - 33.1	212	16.1	3.3 - 70.0	100.0	50.0
Xylenes total (µg/L)	31	<1.0	<1.0	212	<1.0	<0.50 - <1.0	90.00 (20.00)	
Rossdale Treated								
Benzene (µg/L)	31	<0.5	<0.5	212	<0.50	<0.5 - <0.50	5.0	
Carbon Tetrachloride (µg/L)	31	<0.5	<0.5	212	<0.50	<0.5 - <0.50	2.0	
Chlorobenzene (µg/L)	31	<0.5	<0.5	212	<0.50	<0.5 - <0.50		
Dichlorobenzene (1,2) (µg/L)	31	<0.5	<0.5	212	<0.50	<0.5 - <0.50	200.0 (3.0)	
Dichlorobenzene (1,4) (µg/L)	31	<0.5	<0.5	212	<0.50	<0.5 - <0.50	5.0 (1.0)	
Dichloroethylene (1,1) (µg/L)	31	<0.5	<0.5	212	<0.50	<0.5 - <0.50	14.0	
Ethylbenzene (µg/L)	31	<0.5	<0.5	212	<0.50	<0.5 - <0.50	140.0 (1.6)	
Methylene Chloride (Dichloromethane) (µg/L)	31	<0.5	<0.5	212	<1.00	<0.5 - <1.00	50.0	
Tetrachloroethylene (µg/L)	31	<0.5	<0.5	212	<0.50	<0.5 - <0.50	10.0	
Toluene (µg/L)	31	<0.5	<0.5	212	<0.50	<0.5 - <0.50	60.0 (24.0)	
Trichloroethylene (µg/L)	31	<0.5	<0.5	212	<0.50	<0.5 - <0.50	5.0	
Trihalomethanes (µg/L)	31	30.0	25.0 - 36.2	212	18.9	4.9 - 82.4	100.0	50.0
Xylenes total (µg/L)	31	<1.0	<1.0	212	<1.0	<0.50 - <1.0	90.00 (20.00)	

2.2.5 TREATED WATER ENTERING THE PLANT RESERVOIR

E.L. Smith and Rossdale Reservoirs

July 2025

Parameter (units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Primary Inorganics								
EL Smith Treated								
Bromate Dissolved (mg/L)	5	<0.005	<0.005	30	<0.005	<0.003 - <0.005	0.010	
Chlorate Dissolved (mg/L)	5	0.12	0.10 - 0.14	30	0.11	<0.1 - 0.16	1.00	
Chlorite Dissolved (mg/L)	5	<0.005	<0.005	30	<0.2	<0.005 - <0.2	1.000	
Nitrate (as N) dissolved (mg/L)	5	0.02	<0.01 - 0.05	29	0.06	<0.01 - 0.16	10.00	
Nitrite (as N) dissolved (mg/L)	5	0.01	0.01	29	0.01	<0.01 - 0.01	1.00	
Rossdale Treated								
Bromate Dissolved (mg/L)	5	<0.005	<0.005	30	<0.005	<0.003 - <0.005	0.010	
Chlorate Dissolved (mg/L)	5	0.34	0.29 - 0.37	30	0.29	0.1 - 0.41	1.00	
Chlorite Dissolved (mg/L)	5	<0.005	<0.005	30	<0.2	<0.005 - <0.2	1.000	
Nitrate (as N) dissolved (mg/L)	5	0.02	<0.01 - 0.06	29	0.07	<0.01 - 0.18	10.00	
Nitrite (as N) dissolved (mg/L)	5	0.01	0.01	29	0.01	<0.01 - 0.01	1.00	
Secondary Inorganics								
EL Smith Treated								
Ammonia as NH3 (mg/L)	14	0.09	0.06 - 0.12	124	0.09	<0.05 - 0.14		
Bromide Dissolved (mg/L)	5	<0.03	<0.03	30	<0.05	<0.03 - <0.05		
Chloride Dissolved (mg/L)	5	6.9	6.4 - 7.9	30	6.51	4.84 - 8.93	(250.00)	
Sulphate Dissolved (mg/L)	5	80.3	70.2 - 89.8	30	78.0	60.5 - 114.0	(500.0)	
Rossdale Treated								
Ammonia as NH3 (mg/L)	14	0.08	<0.05 - 0.11	124	0.11	<0.05 - 1.00		
Bromide Dissolved (mg/L)	5	<0.03	<0.03	30	<0.05	<0.03 - <0.05		
Chloride Dissolved (mg/L)	5	7.0	6.6 - 7.4	30	7.69	4.55 - 16.30	(250.00)	
Sulphate Dissolved (mg/L)	5	75.0	70.4 - 83.5	30	74.0	59.2 - 104.0	(500.0)	

2.2.5 TREATED WATER ENTERING THE PLANT RESERVOIR

E.L. Smith and Rossdale Reservoirs

July 2025

Parameter (units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Organics								
EL Smith Treated								
Bromodichloromethane (µg/L)	31	0.9	0.6 - 1.3	212	0.8	<0.5 - 1.7		
Bromoform (µg/L)	31	<0.5	<0.5	212	<0.50	<0.5 - <0.50		
Chloroform (µg/L)	31	25.2	19.0 - 31.7	212	15.3	2.5 - 68.5	(40.0)	
Dibromochloromethane (µg/L)	31	<0.5	<0.5	212	<0.50	<0.5 - <0.50		
Dichlorobenzene (1,3) (µg/L)	31	<0.5	<0.5	212	<0.50	<0.5 - <0.50		
Dichloroethylene cis (1,2) (µg/L)	31	<0.5	<0.5	212	<0.50	<0.5 - <0.50		
Dichloroethylene trans (1,2) (µg/L)	31	<0.5	<0.5	212	<0.50	<0.5 - <0.50		
Dichloropropane (1,2) (µg/L)	31	<0.5	<0.5	212	<0.50	<0.5 - <0.50		
Methyl Isobutyl Ketone (MIBK) (µg/L)	31	<1.0	<1.0	212	<20	<1.0 - <20		
Methyl t-Butyl Ether (MTBE) (µg/L)	31	<0.5	<0.5	212	<0.50	<0.5 - <0.50	100.0 (15.0)	50.0
Styrene (µg/L)	31	<0.5	<0.5	212	<0.50	<0.5 - <0.50		
Tetrachloroethane (1,1,2,2) (µg/L)	31	<0.5	<0.5	212	<0.50	<0.5 - <0.50		
Total Volatile Organics (Non THM) (µg/L)	31	1.2	<1.0 - 1.7	185	1.3	<1.0 - 3.9		
Trichlorobenzene (1,2,4) (µg/L)	31	<0.5	<0.5	212	<0.50	<0.5 - <0.50		
Xylene (1,2) (µg/L)	31	<0.5	<0.5	212	<0.5	<0.30 - <0.5		
Xylene (1,4) (µg/L)	31	<0.5	<0.5	212	<0.5	<0.40 - <0.5		
Rossdale Treated								
Bromodichloromethane (µg/L)	31	1.2	0.8 - 1.6	212	1.0	<0.5 - 2.3		
Bromoform (µg/L)	31	<0.5	<0.5	212	<0.50	<0.5 - <0.50		
Chloroform (µg/L)	31	28.6	24.0 - 34.8	212	17.8	3.5 - 80.6	(40.0)	
Dibromochloromethane (µg/L)	31	<0.5	<0.5	212	<0.50	<0.5 - <0.50		
Dichlorobenzene (1,3) (µg/L)	31	<0.5	<0.5	212	<0.50	<0.5 - <0.50		
Dichloroethylene cis (1,2) (µg/L)	31	<0.5	<0.5	212	<0.50	<0.5 - <0.50		
Dichloroethylene trans (1,2) (µg/L)	31	<0.5	<0.5	212	<0.50	<0.5 - <0.50		
Dichloropropane (1,2) (µg/L)	31	<0.5	<0.5	212	<0.50	<0.5 - <0.50		
Methyl Isobutyl Ketone (MIBK) (µg/L)	31	<1.0	<1.0	212	<20	<1.0 - <20		
Methyl t-Butyl Ether (MTBE) (µg/L)	31	<0.5	<0.5	212	<0.50	<0.5 - <0.50	100.0 (15.0)	50.0
Styrene (µg/L)	31	<0.5	<0.5	212	<0.50	<0.5 - <0.50		
Tetrachloroethane (1,1,2,2) (µg/L)	31	<0.5	<0.5	212	<0.50	<0.5 - <0.50		
Total Volatile Organics (Non THM) (µg/L)	31	1.2	<1.0 - 1.7	185	1.3	<1.0 - 3.5		
Trichlorobenzene (1,2,4) (µg/L)	31	<0.5	<0.5	212	<0.50	<0.5 - <0.50		
Xylene (1,2) (µg/L)	31	<0.5	<0.5	212	<0.5	<0.30 - <0.5		
Xylene (1,4) (µg/L)	31	<0.5	<0.5	212	<0.5	<0.40 - <0.5		

2.2.6 Routine Distribution System (Excluding Field Reservoirs)

July 2025

Parameter (units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Microbiologicals								
Coliforms total (MPN/100 mL)				14	Not Detected	Not Detected		
Coliforms total (PA/100mL)	196	-VE	-VE	1180	-VE	+VE - -VE	0.0	
E. coli (MPN/100 mL)				14	Not Detected	Not Detected		
E. coli (PA/100mL)	196	-VE	-VE	1180	-VE	-VE	0.0	
Physical								
Colour (TCU)	1	0.5	0.5	3	0.6	<0.5 - 0.8	(15.0)	10.0
pH	109	8	7 - 8	169	8	7 - 8		7 - 8
Total Dissolved Solids (mg/L)	1	238.00	238.00	3	224.33	209.00 - 238.00	(500.00)	
Turbidity (NTU)	197	0.28	<0.04 - 3.16	1195	0.24	<0.04 - 6.84	(3.00)	1.00
UV Absorbance (UV Abs/cm)	1	0.043	0.043	3	0.031	0.022 - 0.043		
Primary Inorganics								
Antimony (mg/L)	1	<0.0005	<0.0005	4	<0.0005	<0.0005	0.0060	
Arsenic (mg/L)	1	<0.0002	<0.0002	4	<0.0002	<0.0002	0.0100	
Barium (mg/L)	1	0.065	0.065	4	0.060	0.050 - 0.069	2.000	
Boron (mg/L)	1	0.011	0.011	4	0.010	0.008 - 0.011	5.000	
Bromate Dissolved (mg/L)	2	<0.005	<0.005	10	<0.005	<0.005	0.010	
Cadmium (mg/L)	1	<0.00002	<0.00002	4	<0.00002	<0.00002	0.00700	
Chlorate Dissolved (mg/L)	2	0.27	0.24 - 0.29	10	0.19	0.09 - 0.31	1.00	
Chlorine total (mg/L)	197	1.63	0.70 - 2.24	1195	1.82	0.19 - 2.34		1.00 - 2.40
Chlorite Dissolved (mg/L)	2	<0.005	<0.005	10	<0.005	<0.005	1.000	
Chromium (mg/L)	1	<0.0002	<0.0002	4	<0.0002	<0.0002	0.0500	
Cyanide (mg/L)	1	<0.002	<0.002	3	<0.002	<0.002	0.2000	
Fluoride (mg/L)	1	0.76	0.76	3	0.71	0.65 - 0.76	1.50	0.60 - 0.80
Lead (mg/L)	1	<0.0002	<0.0002	4	<0.0002	<0.0002	0.0050	
Mercury (µg/L)	1	<0.0050	<0.0050	3	<0.0050	<0.0050	1.0000	
Mercury (mg/L)	1	<0.0002	<0.0002	3	<0.0002	<0.0002	0.0010	
Nitrate (as N) dissolved (mg/L)	109	0.03	<0.01 - 0.08	169	0.03	<0.01 - 0.12	10.00	
Nitrite (as N) dissolved (mg/L)	109	0.01	<0.01 - 0.04	169	0.01	<0.01 - 0.04	1.00	
Selenium (mg/L)	1	0.0003	0.0003	4	0.0003	0.0002 - 0.0003	0.0500	
Uranium (mg/L)	1	<0.0005	<0.0005	4	0.0005	<0.0005 - 0.0006	0.0200	

2.2.6 Routine Distribution System (Excluding Field Reservoirs)

July 2025

Parameter (units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Primary Organics								
2,4-D (µg/L)	1	<0.050	<0.050	3	<0.250	<0.050 - <0.250	100.000	
2-methyl-4-chlorophenoxyacetic acid (MCPA) (µg/L)	1	<0.050	<0.050	3	<0.250	<0.050 - <0.250	350.000	
Atrazine + metabolites (µg/L)	1	<0.10	<0.10	3	0.1	<0.10	5.0	
Benzene (µg/L)	6	1.0	1.0	41	0.6	<0.5 - 1.0	5.0	
Benzo(a)pyrene (µg/L)	1	<0.005	<0.005	3	<0.005	<0.005	0.0400	
Bromoxynil (µg/L)	1	<0.050	<0.050	3	<0.250	<0.050 - <0.250	30.000	
Carbon Tetrachloride (µg/L)	6	1.0	1.0	41	0.6	<0.5 - 1.0	2.0	
Chlorobenzene (µg/L)	6	1.0	1.0	41	0.6	<0.5 - 1.0		
Chlorpyrifos (µg/L)	1	<0.10	<0.10	3	0.10	<0.10	90.00	
Cyanazine (µg/L)	1	<0.100	<0.100	3	0.10	<0.100		
Diazinon (µg/L)	1	<0.0250	<0.0250	3	0.025	<0.0250		
Dicamba (µg/L)	1	<0.10	<0.10	3	<0.50	<0.10 - <0.50	110.00	
Dichlorobenzene (1,2) (µg/L)	6	1.0	1.0	41	0.6	<0.5 - 1.0		
Dichlorobenzene (1,4) (µg/L)	6	1.0	1.0	41	0.6	<0.5 - 1.0	5.0 (1.0)	
Dichloroethane (1,2) (µg/L)	6	1.0	1.0	41	0.6	<0.5 - 1.0	5.0	
Dichloroethylene (1,1) (µg/L)	6	1.0	1.0	41	0.6	<0.5 - 1.0	14.0	
Dichlorophenol (2,4) (µg/L)	1	<0.20	<0.20	3	0.20	<0.20		
Diclofop-methyl (µg/L)	1	<0.100	<0.100	3	0.10	<0.100		
Dimethoate (µg/L)	1	<0.050	<0.050	3	0.050	<0.050	20.000	
Diquat (µg/L)	1	<1.0	<1.0	3	<1.0	<1.0	50.0	
Diuron (µg/L)	1	<0.050	<0.050	3	0.050	<0.050		
Ethylbenzene (µg/L)	6	1.0	1.0	41	0.6	<0.5 - 1.0	140.0 (1.6)	
Glyphosate (µg/L)	1	<1.00	<1.00	3	<1.00	<0.20 - <1.00	280.00	
Haloacetic acids total (HAA5) (µg/L)	6	32.5	29.6 - 36.0	41	19.9	7.7 - 36.0	80.0	40.0
Malathion (µg/L)	1	<0.0250	<0.0250	3	0.025	<0.0250	290.000	
Methylene Chloride (Dichloromethane) (µg/L)	6	1.0	1.0	41	<1.00	<0.5 - <1.00	50.0	
Metolachlor (µg/L)	1	<0.0250	<0.0250	3	0.025	<0.0250		
Metribuzin (µg/L)	1	<0.100	<0.100	3	0.10	<0.100	80.00	
Microcystin total (µg/L)	1	<0.15	<0.15	3	<0.15	<0.15	1.50	
Nitrilotriacetic acid (NTA) (mg/L)	1	<0.4	<0.4	3	0.40	<0.4	0.40	
Nitrosodimethylamine, N- [NDMA] (µg/L)	3	0.00306	0.00222 - 0.00465	21	0.00465	<0.0009 - 0.00465	0.04000	0.01000
Omethoate (as dimethoate) (µg/L)	1	<0.16	<0.16	3	<0.16	<0.16		
Pentachlorophenol (µg/L)	1	<0.50	<0.50	3	<0.50	<0.50	60.00 (30.00)	
Perfluorooctanesulfonic acid (PFOS) (ng/L)	1	<2.0	<2.0	3	<2.0	<2.0	2.0	
Perfluorooctanoic Acid (ng/L)	1	<2.0	<2.0	3	<2.0	<2.0	2.0	
Phorate (µg/L)	1	<0.250	<0.250	3	<0.250	<0.250		
Picloram (µg/L)	1	<0.10	<0.10	3	<0.50	<0.10 - <0.50		
Simazine (µg/L)	1	<0.100	<0.100	3	0.10	<0.100		
Terbufos (µg/L)	1	<0.50	<0.50	3	<0.50	<0.50		
Tetrachloroethylene (µg/L)	6	1.0	1.0	41	0.6	<0.5 - 1.0	10.0	
Tetrachlorophenol (2,3,4,6) (µg/L)	1	<0.50	<0.50	3	<0.50	<0.50		
Toluene (µg/L)	6	1.0	1.0	41	0.6	<0.5 - 1.0	60.0 (24.0)	
Trichloroethylene (µg/L)	6	1.0	1.0	41	0.6	<0.5 - 1.0	5.0	
Trichlorophenol (2,4,6) (µg/L)	1	<0.20	<0.20	3	0.20	<0.20	5.00 (2.00)	
Trifluralin (µg/L)	1	<0.10	<0.10	3	0.10	<0.10		
Trihalomethanes (µg/L)	6	43.3	38.4 - 50.8	41	22.6	5.1 - 50.8	100.0	50.0
Vinyl Chloride (µg/L)	6	2.0	2.0	41	1.07	<0.50 - 2.00	2.00	
Xylenes total (µg/L)	6	<1.0	<1.0	41	<1.0	<0.50 - <1.0	90.00 (20.00)	

2.2.6 Routine Distribution System (Excluding Field Reservoirs)

July 2025

Parameter (units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Inorganics								
Alkalinity total (mg CaCO3/L)	1	115.0	115.0	3	116.0	109.0 - 124.0		
Aluminum (mg/L)	1	0.027	0.027	4	0.094	0.012 - 0.267	2.900 (0.100)	
Ammonia as NH3 (mg/L)	109	0.19	0.11 - 0.30	169	0.18	0.09 - 0.30		
Beryllium (mg/L)	1	<0.0002	<0.0002	4	<0.0002	<0.0002		
Bromide Dissolved (mg/L)	2	<0.03	<0.03	10	0.03	<0.03		
Calcium (mg/L)	1	48.9	48.9	4	50.3	47.7 - 54.7		
Chloride Dissolved (mg/L)	2	7.4	7.0 - 7.9	10	6.9	5.2 - 11.1	(250.0)	
Chlorine free (mg/L)	1	<0.07	<0.07	3	<0.07	<0.07		
Cobalt (mg/L)	1	<0.0002	<0.0002	4	<0.0002	<0.0002		
Copper (mg/L)	1	0.007	0.007	4	0.005	<0.002 - 0.007	2.000 (1.000)	
Iron (mg/L)	1	0.016	0.016	4	0.034	<0.005 - 0.110	(0.100)	
Lithium (mg/L)	1	0.0036	0.0036	4	0.0036	0.0029 - 0.0048		
Magnesium (mg/L)	1	13.6	13.6	4	14.9	13.6 - 16.0		
Manganese (mg/L)	1	<0.002	<0.002	4	<0.002	<0.002	0.120 (0.020)	
Molybdenum (mg/L)	1	0.0007	0.0007	4	0.0007	0.0006 - 0.0007		
Nickel (mg/L)	1	0.0006	0.0006	4	0.0005	<0.0005 - 0.0006		
Phosphate Ortho (as P) (mg/L as P)	108	0.89	0.46 - 1.00	166	0.89	0.46 - 1.04		
Phosphorus (mg/L)	1	0.98	0.98	4	1.03	0.94 - 1.18		
Potassium (mg/L)	1	0.9	0.9	4	0.9	0.7 - 1.1		
Silicon (mg/L)	1	2.47	2.47	4	2.26	1.97 - 2.47		
Silver (mg/L)	1	<0.00002	<0.00002	4	<0.00002	<0.00002		
Sodium (mg/L)	1	15.4	15.4	4	13.6	7.0 - 20.8	(200.0)	
Strontium (mg/L)	1	0.424	0.424	4	0.463	0.424 - 0.484	7.000	
Sulphate Dissolved (mg/L)	2	75.0	71.8 - 78.2	10	73.2	63.1 - 81.6	(500.0)	
Sulphide (mg/L)	1	<0.0015	<0.0015	3	0.0015	<0.0015	(0.0500)	
Thallium (mg/L)	1	<0.0002	<0.0002	4	<0.0002	<0.0002		
Tin (mg/L)	1	<0.0005	<0.0005	4	<0.0005	<0.0005		
Titanium (mg/L)	1	<0.0005	<0.0005	4	<0.0005	<0.0005		
Total Hardness (mg/L CaCO3)	1	173.0	173.0	3	175.3	173.0 - 179.0		
Vanadium (mg/L)	1	<0.0005	<0.0005	4	<0.0005	<0.0005		
Zinc (mg/L)	1	<0.005	<0.005	4	<0.005	<0.005	(5.000)	
Zirconium (mg/L)	1	<0.001	<0.001	4	<0.001	<0.001		

2.2.6 Routine Distribution System (Excluding Field Reservoirs)

July 2025

Parameter (units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Organics								
Bromodichloromethane (µg/L)	6	1.3	1.1 - 1.6	41	1.1	0.6 - 1.7		
Bromoform (µg/L)	6	1.0	1.0	41	0.6	<0.5 - 1.0		
Chloroform (µg/L)	6	41.8	37.1 - 49.0	41	21.4	4.4 - 49.0		
Dibromoacetic acid (µg/L)	6	<1.00	<1.00	41	<1.00	<1.00		
Dibromochloromethane (µg/L)	6	1.0	1.0	41	0.6	<0.5 - 1.0		
Dichloroacetic acid (µg/L)	6	15.87	13.50 - 17.60	41	9.89	3.92 - 17.60		
Dichlorobenzene (1,3) (µg/L)	6	1.0	1.0	41	0.6	<0.5 - 1.0		
Dichloroethylene cis (1,2) (µg/L)	6	1.0	1.0	41	0.6	<0.5 - 1.0		
Dichloroethylene trans (1,2) (µg/L)	6	1.0	1.0	41	0.6	<0.5 - 1.0		
Dichloropropane (1,2) (µg/L)	6	1.0	1.0	41	0.6	<0.5 - 1.0		
Methoxychlor (µg/L)	1	<0.0080	<0.0080	3	<0.0080	<0.0080		
Methyl Isobutyl Ketone (MIBK) (µg/L)	6	2.0	2.0	41	<20	<1.0 - <20		
Methyl t-Butyl Ether (MTBE) (µg/L)	6	1.0	1.0	41	0.6	<0.5 - 1.0	(15.0)	
Monobromoacetic acid (µg/L)	6	<1.00	<1.00	41	<1.00	<1.00		
Monochloroacetic acid (µg/L)	6	<1.00	<1.00	41	1.04	<1.00 - 1.44		
Styrene (µg/L)	6	1.0	1.0	41	0.6	<0.5 - 1.0		
Tetrachloroethane (1,1,2,2) (µg/L)	6	1.0	1.0	41	0.6	<0.5 - 1.0		
Total Organic Carbon (mg/L)	108	2.1	1.7 - 2.5	152	2.0	0.9 - 2.6		
Total Volatile Organics (Non THM) (µg/L)	6	2.6	1.9 - 3.2	35	1.4	<1.0 - 3.2		
Trichloroacetic acid (µg/L)	6	16.67	15.20 - 18.40	41	9.86	3.81 - 18.40		
Trichlorobenzene (1,2,4) (µg/L)	6	1.0	1.0	41	0.6	<0.5 - 1.0		
Trichloroethane (1,1,1) (µg/L)	6	1.0	1.0	41	0.6	<0.5 - 1.0		
Xylene (1,2) (µg/L)	6	1.0	1.0	41	0.54	<0.30 - 1.00		
Xylene (1,4) (µg/L)	6	1.0	1.0	41	0.56	<0.40 - 1.00		

2.2.7 Additional Distribution System Samples Collected from Water Quality Complaint Investigations

July 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Physical								
Colour (TCU)	14	1.2	0.7 - 2.6	80	1.0	<0.5 - 2.6	(15.0)	10.0
pH	14	8	8	80	8	8		7 - 8
Turbidity (NTU)	14	0.54	<0.04 - 2.08	80	0.53	<0.04 - 2.90	(3.00)	1.00
Primary Inorganics								
Antimony (mg/L)	14	0.0005	<0.0005	80	0.0005	<0.0005	0.0060	
Arsenic (mg/L)	14	0.0002	<0.0002	80	0.0002	<0.0002 - 0.0002	0.0100	
Barium (mg/L)	14	0.066	<0.002 - 0.105	80	0.065	<0.002 - 0.105	2.000	
Boron (mg/L)	14	0.011	0.010 - 0.013	80	0.013	0.008 - 0.042	5.000	
Cadmium (mg/L)	14	<0.00002	<0.00002	80	0.00002	<0.00002	0.00700	
Chlorine total (mg/L)	14	1.61	1.18 - 1.94	80	1.76	1.18 - 2.14		1.00 - 2.40
Chromium (mg/L)	14	0.0002	<0.0002	80	0.0002	<0.0002	0.0500	
Lead (mg/L)	14	0.0002	<0.0002	80	0.0002	<0.0002 - 0.0018	0.0050	
Selenium (mg/L)	14	0.0003	0.0002 - 0.0003	80	0.0002	<0.0002 - 0.0004	0.0500	
Uranium (mg/L)	14	0.0005	<0.0005	80	0.0005	<0.0005 - 0.0006	0.0200	
Primary Organics								
Benzene (µg/L)	14	0.9	<0.5 - 1.0	80	0.6	<0.5 - 1.0	5.0	
Carbon Tetrachloride (µg/L)	14	0.9	<0.5 - 1.0	80	0.6	<0.5 - 1.0	2.0	
Chlorobenzene (µg/L)	14	0.9	<0.5 - 1.0	80	0.6	<0.5 - 1.0		
Dichlorobenzene (1,2) (µg/L)	14	0.9	<0.5 - 1.0	80	0.6	<0.5 - 1.0		
Dichlorobenzene (1,4) (µg/L)	14	0.9	<0.5 - 1.0	80	0.6	<0.5 - 1.0	5.0 (1.0)	
Dichloroethane (1,2) (µg/L)	14	0.9	<0.5 - 1.0	80	0.6	<0.5 - 1.0	5.0	
Dichloroethylene (1,1) (µg/L)	14	0.9	<0.5 - 1.0	80	0.6	<0.5 - 1.0	14.0	
Ethylbenzene (µg/L)	14	0.9	<0.5 - 1.0	80	0.6	<0.5 - 1.0	140.0 (1.6)	
Methylene Chloride (Dichloromethane) (µg/L)	14	0.9	<0.5 - 1.0	80	<1.00	<0.5 - <1.00	50.0	
Tetrachloroethylene (µg/L)	14	0.9	<0.5 - 1.0	80	0.6	<0.5 - 1.0	10.0	
Toluene (µg/L)	14	0.9	<0.5 - 1.0	80	0.6	<0.5 - 1.0	60.0 (24.0)	
Trichloroethylene (µg/L)	14	0.9	<0.5 - 1.0	80	0.6	<0.5 - 1.0	5.0	
Trihalomethanes (µg/L)	14	39.6	27.4 - 49.2	80	23.9	5.4 - 50.5	100.0	50.0
Vinyl Chloride (µg/L)	14	1.8	<1.0 - 2.0	80	1.03	<0.50 - 2.00	2.00	
Xylenes total (µg/L)	14	<1.0	<1.0	80	<1.0	<0.50 - <1.0	90.00 (20.00)	

2.2.7 Additional Distribution System Samples Collected from Water Quality Complaint Investigations

July 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Organics								
Bromodichloromethane (µg/L)	14	1.3	0.9 - 2.3	80	1.1	<0.5 - 2.4		
Bromoform (µg/L)	14	0.9	<0.5 - 1.0	80	0.6	<0.5 - 1.0		
Chloroform (µg/L)	14	38.0	26.3 - 47.5	80	22.7	4.7 - 49.2		
Dibromochloromethane (µg/L)	14	0.9	<0.5 - 1.0	80	0.6	<0.5 - 1.0		
Dichlorobenzene (1,3) (µg/L)	14	0.9	<0.5 - 1.0	80	0.6	<0.5 - 1.0		
Dichloroethylene cis (1,2) (µg/L)	14	0.9	<0.5 - 1.0	80	0.6	<0.5 - 1.0		
Dichloroethylene trans (1,2) (µg/L)	14	0.9	<0.5 - 1.0	80	0.6	<0.5 - 1.0		
Dichloropropane (1,2) (µg/L)	14	0.9	<0.5 - 1.0	80	0.6	<0.5 - 1.0		
Methyl Isobutyl Ketone (MIBK) (µg/L)	14	1.8	<1.0 - 2.0	80	<20	<1.0 - <20		
Methyl t-Butyl Ether (MTBE) (µg/L)	14	0.9	<0.5 - 1.0	80	0.6	<0.5 - 1.0	(15.0)	
Styrene (µg/L)	14	0.9	<0.5 - 1.0	80	0.6	<0.5 - 1.0		
Tetrachloroethane (1,1,2,2) (µg/L)	14	0.9	<0.5 - 1.0	80	0.6	<0.5 - 1.0		
Total Volatile Organics (Non THM) (µg/L)	14	1.9	<1.0 - 3.0	62	1.4	<1.0 - 3.1		
Trichlorobenzene (1,2,4) (µg/L)	14	0.9	<0.5 - 1.0	80	0.6	<0.5 - 1.0		
Trichloroethane (1,1,1) (µg/L)	14	0.9	<0.5 - 1.0	80	0.6	<0.5 - 1.0		
Xylene (1,2) (µg/L)	14	0.9	<0.5 - 1.0	80	0.52	<0.30 - 1.00		
Xylene (1,4) (µg/L)	14	0.9	<0.5 - 1.0	80	0.55	<0.40 - 1.00		

2.2.7 Additional Distribution System Samples Collected from Water Quality Complaint Investigations

July 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Inorganics								
Aluminum (mg/L)	14	0.159	0.006 - 1.390	80	0.119	0.006 - 1.390	2.900 (0.100)	
Beryllium (mg/L)	14	0.0002	<0.0002	80	0.0002	<0.0002		
Calcium (mg/L)	14	44.5	0.3 - 49.1	80	48.0	0.3 - 56.7		
Calcium Hardness (mg/L CaCO3)				1	126.0	126.0		
Chlorine free (mg/L)				1	<0.07	<0.07		
Cobalt (mg/L)	14	0.0002	<0.0002 - 0.0003	80	0.0002	<0.0002 - 0.0004		
Copper (mg/L)	14	0.002	<0.002 - 0.005	80	0.003	<0.002 - 0.007	2.000 (1.000)	
Iron (mg/L)	14	0.064	<0.005 - 0.276	80	0.079	<0.005 - 0.894	(0.100)	
Lithium (mg/L)	14	0.0034	0.0003 - 0.0042	80	0.0035	0.0003 - 0.0052		
Magnesium (mg/L)	14	13.2	<0.1 - 14.7	80	14.1	<0.1 - 17.2		
Manganese (mg/L)	14	0.002	<0.002 - 0.004	80	0.003	<0.002 - 0.012	0.120 (0.020)	
Molybdenum (mg/L)	14	0.0007	0.0006 - 0.0007	80	0.0007	0.0005 - 0.0010		
Nickel (mg/L)	14	0.0005	<0.0005 - 0.0007	80	0.0006	<0.0005 - 0.0013		
Phosphorus (mg/L)	14	1.04	0.83 - 1.87	80	1.03	0.83 - 1.92		
Potassium (mg/L)	14	0.8	0.3 - 0.9	80	1.1	0.3 - 2.6		
Silicon (mg/L)	14	2.14	1.59 - 2.77	80	2.13	1.37 - 2.84		
Silver (mg/L)	14	<0.00002	<0.00002	80	0.00002	<0.00002		
Sodium (mg/L)	14	19.3	10.0 - 93.0	80	15.6	6.0 - 93.0	(200.0)	
Strontium (mg/L)	14	0.396	<0.002 - 0.460	80	0.434	<0.002 - 0.495	7.000	
Thallium (mg/L)	14	0.0002	<0.0002	80	0.0002	<0.0002		
Tin (mg/L)	14	0.0005	<0.0005 - 0.0010	80	0.0005	<0.0005 - 0.0010		
Titanium (mg/L)	14	0.0005	<0.0005 - 0.0006	80	0.0005	<0.0005 - 0.0006		
Total Hardness (mg/L CaCO3)	14	165.4	<2 - 181.0	79	177.6	<2 - 211.0		
Vanadium (mg/L)	14	0.0005	<0.0005	80	0.0005	<0.0005		
Zinc (mg/L)	14	<0.005	<0.005	80	0.005	<0.005 - 0.013	(5.000)	
Zirconium (mg/L)	14	0.001	<0.001	80	0.001	<0.001		

2.2.8 Castledowns Reservoir

July 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Primary Organics								
Benzene (µg/L)				3	<0.50	<0.5 - <0.50	5.0	
Carbon Tetrachloride (µg/L)				3	<0.50	<0.5 - <0.50	2.0	
Chlorobenzene (µg/L)				3	<0.50	<0.5 - <0.50		
Dichlorobenzene (1,2) (µg/L)				3	<0.50	<0.5 - <0.50		
Dichlorobenzene (1,4) (µg/L)				3	<0.50	<0.5 - <0.50	5.0 (1.0)	
Dichloroethane (1,2) (µg/L)				3	<0.50	<0.5 - <0.50	5.0	
Dichloroethylene (1,1) (µg/L)				3	<0.50	<0.5 - <0.50	14.0	
Ethylbenzene (µg/L)				3	<0.50	<0.5 - <0.50	140.0 (1.6)	
Methylene Chloride (Dichloromethane) (µg/L)				3	<1.00	<0.5 - <1.00	50.0	
Tetrachloroethylene (µg/L)				3	<0.50	<0.5 - <0.50	10.0	
Toluene (µg/L)				3	<0.50	<0.5 - <0.50	60.0 (24.0)	
Trichloroethylene (µg/L)				3	<0.50	<0.5 - <0.50	5.0	
Trihalomethanes (µg/L)				3	27.7	7.6 - 58.6	100.0	50.0
Vinyl Chloride (µg/L)				3	<1.0	<0.50 - <1.0	2.00	
Xylenes total (µg/L)				3	<1.0	<0.50 - <1.0	90.00 (20.00)	
Physical								
Colour (TCU)				3	0.8	0.5 - 1.0	(15.0)	10.0
Conductivity (µS/cm)				3	416.0	403.0 - 437.0		
pH	5	8	8	10	8	8		7 - 8
Turbidity (NTU)	5	0.05	<0.04 - 0.06	30	0.09	<0.04 - 0.17	(3.00)	1.00
Primary Inorganics								
Antimony (mg/L)				3	<0.0005	<0.0005	0.0060	
Arsenic (mg/L)				3	<0.0002	<0.0002	0.0100	
Barium (mg/L)				3	0.063	0.055 - 0.069	2.000	
Boron (mg/L)				3	0.012	0.009 - 0.017	5.000	
Bromate Dissolved (mg/L)				3	<0.005	<0.005	0.010	
Cadmium (mg/L)				3	<0.00002	<0.00002	0.00700	
Chlorate Dissolved (mg/L)				3	0.13	0.10 - 0.17	1.00	
Chlorite Dissolved (mg/L)				3	<0.005	<0.005	1.000	
Chromium (mg/L)				3	<0.0002	<0.0002	0.0500	
Fluoride (mg/L)				3	0.66	0.64 - 0.69	1.50	0.60 - 0.80
Lead (mg/L)				3	<0.0002	<0.0002	0.0050	
Mercury (mg/L)				3	<0.0002	<0.0002	0.0010	
Selenium (mg/L)				3	0.0002	0.0002 - 0.0003	0.0500	
Uranium (mg/L)				3	0.0005	<0.0005 - 0.0006	0.0200	
Chlorine total (mg/L)	5	1.57	1.50 - 1.64	30	1.76	1.40 - 2.10		1.00 - 2.40
Nitrate (as N) dissolved (mg/L)	5	0.03	0.02 - 0.07	10	0.05	0.01 - 0.13	10.00	
Nitrite (as N) dissolved (mg/L)	5	<0.01	<0.01	10	0.01	<0.01 - 0.01	1.00	

2.2.8 Castledowns Reservoir

July 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Inorganics								
Alkalinity total (mg CaCO3/L)				3	116.3	109.0 - 128.0		
Aluminum (mg/L)				3	0.048	0.016 - 0.077	2.900 (0.100)	
Ammonia as NH3 (mg/L)	5	0.16	0.13 - 0.18	30	0.14	0.09 - 0.18		
Beryllium (mg/L)				3	<0.0002	<0.0002		
Bromide Dissolved (mg/L)				3	<0.03	<0.03		
Calcium (mg/L)				3	49.3	46.8 - 54.0		
Calcium Hardness (mg/L CaCO3)				3	123.3	117.0 - 135.0		
Chloride Dissolved (mg/L)				3	6.8	5.8 - 7.3	(250.0)	
Cobalt (mg/L)				3	<0.0002	<0.0002		
Copper (mg/L)				3	<0.002	<0.002	2.000 (1.000)	
Iron (mg/L)				3	<0.005	<0.005	(0.100)	
Lithium (mg/L)				3	0.0031	0.0028 - 0.0036		
Magnesium (mg/L)				3	14.8	13.6 - 16.7		
Manganese (mg/L)				3	<0.002	<0.002	0.120 (0.020)	
Molybdenum (mg/L)				3	0.0008	0.0007 - 0.0008		
Nickel (mg/L)				3	0.0005	<0.0005 - 0.0006		
Phosphate Ortho (as P) (mg/L as P)	5	0.91	0.88 - 0.92	30	0.91	0.80 - 0.96		
Phosphorus (mg/L)				3	0.98	0.97 - 0.98		
Potassium (mg/L)				3	1.1	0.8 - 1.5		
Silicon (mg/L)				3	2.18	1.96 - 2.43		
Silver (mg/L)				3	<0.00002	<0.00002		
Sodium (mg/L)				3	15.1	7.7 - 23.3	(200.0)	
Strontium (mg/L)				3	0.441	0.399 - 0.466	7.000	
Sulphate Dissolved (mg/L)				3	82.1	74.7 - 92.2	(500.0)	
Thallium (mg/L)				3	<0.0002	<0.0002		
Tin (mg/L)				3	<0.0005	<0.0005		
Titanium (mg/L)				3	<0.0005	<0.0005		
Total Hardness (mg/L CaCO3)				3	184.3	174.0 - 204.0		
Vanadium (mg/L)				3	<0.0005	<0.0005		
Zinc (mg/L)				3	<0.005	<0.005	(5.000)	
Zirconium (mg/L)				3	<0.001	<0.001		

2.2.8 Castledowns Reservoir

July 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Organics								
Bromodichloromethane (µg/L)				3	1.1	0.8 - 1.5		
Bromoform (µg/L)				3	<0.50	<0.5 - <0.50		
Chloroform (µg/L)				3	26.5	6.8 - 57.1		
Dibromochloromethane (µg/L)				3	<0.50	<0.5 - <0.50		
Dichlorobenzene (1,3) (µg/L)				3	<0.50	<0.5 - <0.50		
Dichloroethylene cis (1,2) (µg/L)				3	<0.50	<0.5 - <0.50		
Dichloroethylene trans (1,2) (µg/L)				3	<0.50	<0.5 - <0.50		
Dichloropropane (1,2) (µg/L)				3	<0.50	<0.5 - <0.50		
Methyl Isobutyl Ketone (MIBK) (µg/L)				3	<20	<1.0 - <20		
Methyl t-Butyl Ether (MTBE) (µg/L)				3	<0.50	<0.5 - <0.50	(15.0)	
Styrene (µg/L)				3	<0.50	<0.5 - <0.50		
Tetrachloroethane (1,1,2,2) (µg/L)				3	<0.50	<0.5 - <0.50		
Total Organic Carbon (mg/L)	5	2.2	1.9 - 2.3	9	2.0	1.0 - 2.8		
Total Volatile Organics (Non THM) (µg/L)				2	1.2	<1.0 - 1.3		
Trichlorobenzene (1,2,4) (µg/L)				3	<0.50	<0.5 - <0.50		
Trichloroethane (1,1,1) (µg/L)				3	<0.50	<0.5 - <0.50		
Xylene (1,2) (µg/L)				3	<0.5	<0.30 - <0.5		
Xylene (1,4) (µg/L)				3	<0.5	<0.40 - <0.5		

2.2.9 Clareview Reservoir

July 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Physical								
Colour (TCU)	1	1.4	1.4	4	1.1	0.8 - 1.4	(15.0)	10.0
Conductivity (µS/cm)	1	395.0	395.0	4	391.5	366.0 - 419.0		
pH	5	8	8	10	8	8		7 - 8
Turbidity (NTU)	5	0.11	0.09 - 0.14	30	0.15	0.08 - 0.97	(3.00)	1.00
Primary Inorganics								
Antimony (mg/L)	1	<0.0005	<0.0005	4	<0.0005	<0.0005	0.0060	
Arsenic (mg/L)	1	<0.0002	<0.0002	4	<0.0002	<0.0002	0.0100	
Barium (mg/L)	1	0.067	0.067	4	0.062	0.055 - 0.067	2.000	
Boron (mg/L)	1	0.011	0.011	4	0.013	0.008 - 0.023	5.000	
Bromate Dissolved (mg/L)	1	<0.005	<0.005	4	<0.005	<0.003 - <0.005	0.010	
Cadmium (mg/L)	1	<0.00002	<0.00002	4	<0.00002	<0.00002	0.00700	
Chlorate Dissolved (mg/L)	1	0.32	0.32	4	0.23	0.1 - 0.32	1.00	
Chlorine total (mg/L)	5	1.57	1.54 - 1.64	30	1.81	1.54 - 2.05		1.00 - 2.40
Chlorite Dissolved (mg/L)	1	<0.005	<0.005	4	<0.2	<0.005 - <0.2	1.000	
Chromium (mg/L)	1	<0.0002	<0.0002	4	<0.0002	<0.0002	0.0500	
Fluoride (mg/L)	2	0.69	0.65 - 0.72	5	0.69	0.65 - 0.73	1.50	0.60 - 0.80
Lead (mg/L)	1	<0.0002	<0.0002	4	<0.0002	<0.0002	0.0050	
Mercury (mg/L)	1	<0.0002	<0.0002	4	<0.0002	<0.0002	0.0010	
Nitrate (as N) dissolved (mg/L)	5	0.04	0.02 - 0.07	10	0.05	0.02 - 0.17	10.00	
Nitrite (as N) dissolved (mg/L)	5	0.01	<0.01	10	0.01	<0.01 - 0.01	1.00	
Selenium (mg/L)	1	0.0003	0.0003	4	0.0002	0.0002 - 0.0003	0.0500	
Uranium (mg/L)	1	<0.0005	<0.0005	4	0.0005	<0.0005 - 0.0005	0.0200	
Primary Organics								
Benzene (µg/L)	1	<0.5	<0.5	4	<0.5	<0.5	5.0	
Carbon Tetrachloride (µg/L)	1	<0.5	<0.5	4	<0.5	<0.5	2.0	
Chlorobenzene (µg/L)	1	<0.5	<0.5	4	<0.5	<0.5		
Dichlorobenzene (1,2) (µg/L)	1	<0.5	<0.5	4	<0.5	<0.5		
Dichlorobenzene (1,4) (µg/L)	1	<0.5	<0.5	4	<0.5	<0.5	5.0 (1.0)	
Dichloroethane (1,2) (µg/L)	1	<0.5	<0.5	4	<0.5	<0.5	5.0	
Dichloroethylene (1,1) (µg/L)	1	<0.5	<0.5	4	<0.5	<0.5	14.0	
Ethylbenzene (µg/L)	1	<0.5	<0.5	4	<0.5	<0.5	140.0 (1.6)	
Methylene Chloride (Dichloromethane) (µg/L)	1	<0.5	<0.5	4	<0.5	<0.5	50.0	
Tetrachloroethylene (µg/L)	1	<0.5	<0.5	4	<0.5	<0.5	10.0	
Toluene (µg/L)	1	<0.5	<0.5	4	<0.5	<0.5	60.0 (24.0)	
Trichloroethylene (µg/L)	1	<0.5	<0.5	4	<0.5	<0.5	5.0	
Trihalomethanes (µg/L)	1	40.1	40.1	4	24.1	11.3 - 40.1	100.0	50.0
Vinyl Chloride (µg/L)	1	<1.0	<1.0	4	<1.0	<1.0	2.0	
Xylenes total (µg/L)	1	<1.0	<1.0	4	<1.0	<1.0	90.0 (20.0)	

2.2.9 Clareview Reservoir

July 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Inorganics								
Alkalinity total (mg CaCO3/L)	1	110.0	110.0	4	114.5	109.0 - 123.0		
Aluminum (mg/L)	1	0.038	0.038	4	0.048	0.032 - 0.076	2.900 (0.100)	
Ammonia as NH3 (mg/L)	5	0.17	0.14 - 0.19	30	0.15	0.10 - 0.20		
Beryllium (mg/L)	1	<0.0002	<0.0002	4	<0.0002	<0.0002		
Bromide Dissolved (mg/L)	1	<0.03	<0.03	4	<0.05	<0.03 - <0.05		
Calcium (mg/L)	1	47.4	47.4	4	46.8	46.2 - 47.4		
Calcium Hardness (mg/L CaCO3)	1	118.0	118.0	4	116.8	115.0 - 118.0		
Chloride Dissolved (mg/L)	1	7.9	7.9	4	7.89	5.14 - 12.00	(250.00)	
Cobalt (mg/L)	1	<0.0002	<0.0002	4	<0.0002	<0.0002		
Copper (mg/L)	1	<0.002	<0.002	4	<0.002	<0.002	2.000 (1.000)	
Iron (mg/L)	1	0.013	0.013	4	0.014	0.010 - 0.016	(0.100)	
Lithium (mg/L)	1	0.0035	0.0035	4	0.0034	0.0030 - 0.0038		
Magnesium (mg/L)	1	13.6	13.6	4	14.3	13.6 - 14.8		
Manganese (mg/L)	1	<0.002	<0.002	4	<0.002	<0.002	0.120 (0.020)	
Molybdenum (mg/L)	1	0.0008	0.0008	4	0.0008	0.0006 - 0.0011		
Nickel (mg/L)	1	0.0006	0.0006	4	0.0005	<0.0005 - 0.0006		
Phosphate Ortho (as P) (mg/L as P)	5	0.89	0.86 - 0.90	30	0.90	0.86 - 0.92		
Phosphorus (mg/L)	1	0.94	0.94	4	0.94	0.93 - 0.96		
Potassium (mg/L)	1	0.9	0.9	4	1.2	0.7 - 2.2		
Silicon (mg/L)	1	2.42	2.42	4	2.08	1.86 - 2.42		
Silver (mg/L)	1	<0.00002	<0.00002	4	<0.00002	<0.00002		
Sodium (mg/L)	1	15.6	15.6	4	13.1	6.5 - 18.4	(200.0)	
Strontium (mg/L)	1	0.397	0.397	4	0.439	0.397 - 0.479	7.000	
Sulphate Dissolved (mg/L)	1	83.0	83.0	4	74.1	60.8 - 83.0	(500.0)	
Thallium (mg/L)	1	<0.0002	<0.0002	4	<0.0002	<0.0002		
Tin (mg/L)	1	<0.0005	<0.0005	4	<0.0005	<0.0005		
Titanium (mg/L)	1	<0.0005	<0.0005	4	<0.0005	<0.0005		
Total Hardness (mg/L CaCO3)	1	174.0	174.0	4	175.5	174.0 - 178.0		
Vanadium (mg/L)	1	<0.0005	<0.0005	4	<0.0005	<0.0005		
Zinc (mg/L)	1	<0.005	<0.005	4	<0.005	<0.005	(5.000)	
Zirconium (mg/L)	1	<0.001	<0.001	4	<0.001	<0.001		

2.2.9 Clareview Reservoir

July 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Organics								
Bromodichloromethane (µg/L)	1	1.5	1.5	4	1.4	0.9 - 1.6		
Bromoform (µg/L)	1	<0.5	<0.5	4	<0.5	<0.5		
Chloroform (µg/L)	1	38.6	38.6	4	22.7	9.6 - 38.6		
Dibromochloromethane (µg/L)	1	<0.5	<0.5	4	<0.5	<0.5		
Dichlorobenzene (1,3) (µg/L)	1	<0.5	<0.5	4	<0.5	<0.5		
Dichloroethylene cis (1,2) (µg/L)	1	<0.5	<0.5	4	<0.5	<0.5		
Dichloroethylene trans (1,2) (µg/L)	1	<0.5	<0.5	4	<0.5	<0.5		
Dichloropropane (1,2) (µg/L)	1	<0.5	<0.5	4	<0.5	<0.5		
Methyl Isobutyl Ketone (MIBK) (µg/L)	1	<1.0	<1.0	4	<1.0	<1.0		
Methyl t-Butyl Ether (MTBE) (µg/L)	1	<0.5	<0.5	4	<0.5	<0.5	(15.0)	
Styrene (µg/L)	1	<0.5	<0.5	4	<0.5	<0.5		
Tetrachloroethane (1,1,2,2) (µg/L)	1	<0.5	<0.5	4	<0.5	<0.5		
Total Organic Carbon (mg/L)	5	2.1	1.9 - 2.4	9	1.9	1.0 - 2.4		
Total Volatile Organics (Non THM) (µg/L)	1	1.6	1.6	4	1.5	<1.0 - 2.5		
Trichlorobenzene (1,2,4) (µg/L)	1	<0.5	<0.5	4	<0.5	<0.5		
Trichloroethane (1,1,1) (µg/L)	1	<0.5	<0.5	4	<0.5	<0.5		
Xylene (1,2) (µg/L)	1	<0.5	<0.5	4	<0.5	<0.5		
Xylene (1,4) (µg/L)	1	<0.5	<0.5	4	<0.5	<0.5		

2.2.10 Discovery Park Reservoir

July 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Physical								
Colour (TCU)	1	1.1	1.1	4	0.8	0.5 - 1.1	(15.0)	10.0
Conductivity (µS/cm)	1	419.0	419.0	4	396.0	371.0 - 419.0		
pH	5	8	8	9	8	8		7 - 8
Turbidity (NTU)	5	0.12	0.08 - 0.16	30	0.21	0.08 - 0.65	(3.00)	1.00
Primary Inorganics								
Antimony (mg/L)	1	<0.0005	<0.0005	4	<0.0005	<0.0005	0.0060	
Arsenic (mg/L)	1	<0.0002	<0.0002	4	<0.0002	<0.0002	0.0100	
Barium (mg/L)	1	0.067	0.067	4	0.061	0.056 - 0.067	2.000	
Boron (mg/L)	1	0.011	0.011	4	0.010	0.008 - 0.012	5.000	
Bromate Dissolved (mg/L)	1	<0.005	<0.005	4	<0.005	<0.003 - <0.005	0.010	
Cadmium (mg/L)	1	<0.00002	<0.00002	4	<0.00002	<0.00002	0.00700	
Chlorate Dissolved (mg/L)	1	0.12	0.12	4	0.12	<0.1 - 0.14	1.00	
Chlorine total (mg/L)	5	1.19	1.07 - 1.31	30	1.37	1.07 - 1.87		1.00 - 2.40
Chlorite Dissolved (mg/L)	1	<0.005	<0.005	4	<0.2	<0.005 - <0.2	1.000	
Chromium (mg/L)	1	<0.0002	<0.0002	4	<0.0002	<0.0002	0.0500	
Fluoride (mg/L)	2	0.67	0.64 - 0.69	5	0.66	0.62 - 0.69	1.50	0.60 - 0.80
Lead (mg/L)	1	<0.0002	<0.0002	4	<0.0002	<0.0002	0.0050	
Mercury (mg/L)	1	<0.0002	<0.0002	4	<0.0002	<0.0002	0.0010	
Nitrate (as N) dissolved (mg/L)	5	0.04	0.02 - 0.07	10	0.05	0.02 - 0.11	10.00	
Nitrite (as N) dissolved (mg/L)	5	<0.01	<0.01	10	<0.01	<0.01	1.00	
Selenium (mg/L)	1	0.0003	0.0003	4	0.0003	0.0002 - 0.0003	0.0500	
Uranium (mg/L)	1	<0.0005	<0.0005	4	0.0005	<0.0005 - 0.0005	0.0200	
Primary Organics								
Benzene (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0	5.0	
Carbon Tetrachloride (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0	2.0	
Chlorobenzene (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0		
Dichlorobenzene (1,2) (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0		
Dichlorobenzene (1,4) (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0	5.0 (1.0)	
Dichloroethane (1,2) (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0	5.0	
Dichloroethylene (1,1) (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0	14.0	
Ethylbenzene (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0	140.0 (1.6)	
Haloacetic acids total (HAA5) (µg/L)				1	20.4	20.4		
Methylene Chloride (Dichloromethane) (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0	50.0	
Nitrosodimethylamine, N- [NDMA] (µg/L)				1	0.00216	0.00216		
Tetrachloroethylene (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0	10.0	
Toluene (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0	60.0 (24.0)	
Trichloroethylene (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0	5.0	
Trihalomethanes (µg/L)	1	36.2	36.2	4	20.7	12.6 - 36.2	100.0	50.0
Vinyl Chloride (µg/L)	1	2.0	2.0	4	1.3	<1.0 - 2.0	2.0	
Xylenes total (µg/L)	1	<1.0	<1.0	4	<1.0	<1.0	90.0 (20.0)	

2.2.10 Discovery Park Reservoir

July 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Inorganics								
Alkalinity total (mg CaCO3/L)	1	113.0	113.0	4	114.8	111.0 - 118.0		
Aluminum (mg/L)	1	0.066	0.066	4	0.095	0.066 - 0.168	2.900 (0.100)	
Ammonia as NH3 (mg/L)	5	0.20	0.15 - 0.24	30	0.17	0.12 - 0.24		
Beryllium (mg/L)	1	<0.0002	<0.0002	4	<0.0002	<0.0002		
Bromide Dissolved (mg/L)	1	<0.03	<0.03	4	<0.05	<0.03 - <0.05		
Calcium (mg/L)	1	47.0	47.0	4	46.9	46.2 - 47.8		
Calcium Hardness (mg/L CaCO3)	1	117.0	117.0	4	116.8	115.0 - 119.0		
Chloride Dissolved (mg/L)	1	7.5	7.5	4	6.47	5.70 - 7.53	(250.00)	
Cobalt (mg/L)	1	<0.0002	<0.0002	4	<0.0002	<0.0002		
Copper (mg/L)	1	<0.002	<0.002	4	<0.002	<0.002	2.000 (1.000)	
Iron (mg/L)	1	0.006	0.006	4	0.007	0.005 - 0.008	(0.100)	
Lithium (mg/L)	1	0.0032	0.0032	4	0.0031	0.0030 - 0.0032		
Magnesium (mg/L)	1	13.9	13.9	4	14.5	13.9 - 15.0		
Manganese (mg/L)	1	<0.002	<0.002	4	<0.002	<0.002	0.120 (0.020)	
Molybdenum (mg/L)	1	0.0008	0.0008	4	0.0007	0.0006 - 0.0008		
Nickel (mg/L)	1	0.0005	0.0005	4	0.0005	<0.0005 - 0.0005		
Phosphate Ortho (as P) (mg/L as P)	5	0.82	0.47 - 0.92	30	0.91	0.47 - 0.98		
Phosphorus (mg/L)	1	0.97	0.97	4	0.99	0.95 - 1.04		
Potassium (mg/L)	1	0.9	0.9	4	0.9	0.7 - 1.0		
Silicon (mg/L)	1	2.11	2.11	4	1.96	1.78 - 2.11		
Silver (mg/L)	1	<0.00002	<0.00002	4	<0.00002	<0.00002		
Sodium (mg/L)	1	17.1	17.1	4	11.2	6.7 - 17.1	(200.0)	
Strontium (mg/L)	1	0.413	0.413	4	0.449	0.413 - 0.480	7.000	
Sulphate Dissolved (mg/L)	1	83.3	83.3	4	71.4	61.7 - 83.3	(500.0)	
Thallium (mg/L)	1	<0.0002	<0.0002	4	<0.0002	<0.0002		
Tin (mg/L)	1	<0.0005	<0.0005	4	<0.0005	<0.0005		
Titanium (mg/L)	1	<0.0005	<0.0005	4	<0.0005	<0.0005		
Total Hardness (mg/L CaCO3)	1	175.0	175.0	4	177.0	174.0 - 181.0		
Vanadium (mg/L)	1	<0.0005	<0.0005	4	<0.0005	<0.0005		
Zinc (mg/L)	1	<0.005	<0.005	4	<0.005	<0.005	(5.000)	
Zirconium (mg/L)	1	<0.001	<0.001	4	<0.001	<0.001		

2.2.10 Discovery Park Reservoir

July 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Organics								
Bromodichloromethane (µg/L)	1	1.2	1.2	4	1.0	0.8 - 1.3		
Bromoform (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0		
Chloroform (µg/L)	1	34.8	34.8	4	19.5	11.4 - 34.8		
Dibromoacetic acid (µg/L)				1	<1.00	<1.00		
Dibromochloromethane (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0		
Dichloroacetic acid (µg/L)				1	10.50	10.50		
Dichlorobenzene (1,3) (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0		
Dichloroethylene cis (1,2) (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0		
Dichloroethylene trans (1,2) (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0		
Dichloropropane (1,2) (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0		
Methyl Isobutyl Ketone (MIBK) (µg/L)	1	2.0	2.0	4	1.3	<1.0 - 2.0		
Methyl t-Butyl Ether (MTBE) (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0	(15.0)	
Monobromoacetic acid (µg/L)				1	<1.00	<1.00		
Monochloroacetic acid (µg/L)				1	<1.00	<1.00		
Styrene (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0		
Tetrachloroethane (1,1,2,2) (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0		
Total Organic Carbon (mg/L)	5	2.0	1.8 - 2.2	9	1.7	0.9 - 2.2		
Total Volatile Organics (Non THM) (µg/L)	1	2.9	2.9	4	1.7	<1.0 - 2.9		
Trichloroacetic acid (µg/L)				1	9.94	9.94		
Trichlorobenzene (1,2,4) (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0		
Trichloroethane (1,1,1) (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0		
Xylene (1,2) (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0		
Xylene (1,4) (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0		

2.2.11 Kaskitayo Reservoir

July 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Physical								
Colour (TCU)	1	1.2	1.2	4	1.2	<0.5 - 1.6	(15.0)	10.0
Conductivity (µS/cm)	1	410.0	410.0	4	402.0	375.0 - 416.0		
pH	5	8	8	9	8	8		7 - 8
Turbidity (NTU)	5	0.07	0.04 - 0.15	30	0.12	0.04 - 0.37	(3.00)	1.00
Primary Inorganics								
Antimony (mg/L)	1	<0.0005	<0.0005	4	<0.0005	<0.0005	0.0060	
Arsenic (mg/L)	1	<0.0002	<0.0002	4	<0.0002	<0.0002	0.0100	
Barium (mg/L)	1	0.068	0.068	4	0.063	0.057 - 0.068	2.000	
Boron (mg/L)	1	0.011	0.011	4	0.013	0.008 - 0.026	5.000	
Bromate Dissolved (mg/L)	1	<0.005	<0.005	4	<0.005	<0.003 - <0.005	0.010	
Cadmium (mg/L)	1	<0.00002	<0.00002	4	<0.00002	<0.00002	0.00700	
Chlorate Dissolved (mg/L)	1	0.12	0.12	4	0.10	<0.1 - 0.12	1.00	
Chlorine total (mg/L)	5	1.73	1.70 - 1.76	30	1.92	1.68 - 2.10		1.00 - 2.40
Chlorite Dissolved (mg/L)	1	<0.005	<0.005	4	<0.2	<0.005 - <0.2	1.000	
Chromium (mg/L)	1	<0.0002	<0.0002	4	<0.0002	<0.0002	0.0500	
Fluoride (mg/L)	2	0.68	0.65 - 0.70	5	0.67	0.65 - 0.70	1.50	0.60 - 0.80
Lead (mg/L)	1	<0.0002	<0.0002	4	<0.0002	<0.0002	0.0050	
Mercury (mg/L)	1	<0.0002	<0.0002	4	<0.0002	<0.0002	0.0010	
Nitrate (as N) dissolved (mg/L)	5	0.03	0.01 - 0.04	10	0.04	0.01 - 0.14	10.00	
Nitrite (as N) dissolved (mg/L)	5	0.01	<0.01	10	0.01	<0.01 - 0.01	1.00	
Selenium (mg/L)	1	0.0003	0.0003	4	0.0003	0.0002 - 0.0003	0.0500	
Uranium (mg/L)	1	<0.0005	<0.0005	4	0.0005	<0.0005 - 0.0005	0.0200	
Primary Organics								
Benzene (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0	5.0	
Carbon Tetrachloride (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0	2.0	
Chlorobenzene (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0		
Dichlorobenzene (1,2) (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0		
Dichlorobenzene (1,4) (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0	5.0 (1.0)	
Dichloroethane (1,2) (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0	5.0	
Dichloroethylene (1,1) (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0	14.0	
Ethylbenzene (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0	140.0 (1.6)	
Methylene Chloride (Dichloromethane) (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0	50.0	
Tetrachloroethylene (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0	10.0	
Toluene (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0	60.0 (24.0)	
Trichloroethylene (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0	5.0	
Trihalomethanes (µg/L)	1	45.7	45.7	4	21.7	7.7 - 45.7	100.0	50.0
Vinyl Chloride (µg/L)	1	2.0	2.0	4	1.3	<1.0 - 2.0	2.0	
Xylenes total (µg/L)	1	<1.0	<1.0	4	<1.0	<1.0	90.0 (20.0)	

2.2.11 Kaskitayo Reservoir

July 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Inorganics								
Alkalinity total (mg CaCO3/L)	1	115.0	115.0	4	114.8	113.0 - 116.0		
Aluminum (mg/L)	1	0.059	0.059	4	0.058	0.028 - 0.094	2.900 (0.100)	
Ammonia as NH3 (mg/L)	5	0.14	0.13 - 0.15	30	0.12	0.07 - 0.15		
Beryllium (mg/L)	1	<0.0002	<0.0002	4	<0.0002	<0.0002		
Bromide Dissolved (mg/L)	1	<0.03	<0.03	3	<0.03	<0.03		
Calcium (mg/L)	1	46.4	46.4	4	47.3	46.4 - 48.0		
Calcium Hardness (mg/L CaCO3)	1	116.0	116.0	4	118.0	116.0 - 120.0		
Chloride Dissolved (mg/L)	1	7.6	7.6	4	7.42	5.43 - 9.06	(250.00)	
Cobalt (mg/L)	1	<0.0002	<0.0002	4	<0.0002	<0.0002		
Copper (mg/L)	1	<0.002	<0.002	4	<0.002	<0.002	2.000 (1.000)	
Iron (mg/L)	1	<0.005	<0.005	4	<0.005	<0.005	(0.100)	
Lithium (mg/L)	1	0.0033	0.0033	4	0.0033	0.0031 - 0.0035		
Magnesium (mg/L)	1	14.0	14.0	4	14.4	14.0 - 14.9		
Manganese (mg/L)	1	<0.002	<0.002	4	<0.002	<0.002	0.120 (0.020)	
Molybdenum (mg/L)	1	0.0007	0.0007	4	0.0007	0.0006 - 0.0009		
Nickel (mg/L)	1	<0.0005	<0.0005	4	0.0005	<0.0005 - 0.0006		
Phosphate Ortho (as P) (mg/L as P)	5	0.82	0.47 - 0.92	30	0.92	0.47 - 0.98		
Phosphorus (mg/L)	1	0.97	0.97	4	0.98	0.97 - 1.01		
Potassium (mg/L)	1	0.8	0.8	4	1.1	0.7 - 1.8		
Silicon (mg/L)	1	2.17	2.17	4	2.02	1.86 - 2.17		
Silver (mg/L)	1	<0.00002	<0.00002	4	<0.00002	<0.00002		
Sodium (mg/L)	1	16.5	16.5	4	13.2	6.6 - 16.5	(200.0)	
Strontium (mg/L)	1	0.409	0.409	4	0.445	0.409 - 0.483	7.000	
Sulphate Dissolved (mg/L)	1	77.6	77.6	4	73.4	61.0 - 79.2	(500.0)	
Thallium (mg/L)	1	<0.0002	<0.0002	4	<0.0002	<0.0002		
Tin (mg/L)	1	<0.0005	<0.0005	4	<0.0005	<0.0005		
Titanium (mg/L)	1	<0.0005	<0.0005	4	<0.0005	<0.0005		
Total Hardness (mg/L CaCO3)	1	174.0	174.0	4	177.5	174.0 - 181.0		
Vanadium (mg/L)	1	<0.0005	<0.0005	4	<0.0005	<0.0005		
Zinc (mg/L)	1	<0.005	<0.005	4	<0.005	<0.005	(5.000)	
Zirconium (mg/L)	1	<0.001	<0.001	4	<0.001	<0.001		

2.2.11 Kaskitayo Reservoir

July 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Organics								
Bromodichloromethane (µg/L)	1	1.5	1.5	4	1.1	0.8 - 1.5		
Bromoform (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0		
Chloroform (µg/L)	1	43.9	43.9	4	20.3	6.7 - 43.9		
Dibromochloromethane (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0		
Dichlorobenzene (1,3) (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0		
Dichloroethylene cis (1,2) (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0		
Dichloroethylene trans (1,2) (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0		
Dichloropropane (1,2) (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0		
Methyl Isobutyl Ketone (MIBK) (µg/L)	1	2.0	2.0	4	1.3	<1.0 - 2.0		
Methyl t-Butyl Ether (MTBE) (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0	(15.0)	
Styrene (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0		
Tetrachloroethane (1,1,2,2) (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0		
Total Organic Carbon (mg/L)	5	2.1	1.8 - 2.3	9	1.8	0.9 - 2.3		
Total Volatile Organics (Non THM) (µg/L)	1	2.4	2.4	4	1.8	<1.0 - 2.8		
Trichlorobenzene (1,2,4) (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0		
Trichloroethane (1,1,1) (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0		
Xylene (1,2) (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0		
Xylene (1,4) (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0		

2.2.12 Londonderry Reservoir

July 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Physical								
Colour (TCU)				3	1.1	0.8 - 1.2	(15.0)	10.0
Conductivity (µS/cm)				3	405.0	396.0 - 412.0		
pH	5	8	8	10	8	8		7 - 8
Turbidity (NTU)	5	0.08	0.05 - 0.12	30	0.13	0.05 - 1.08	(3.00)	1.00
Primary Inorganics								
Antimony (mg/L)				3	<0.0005	<0.0005	0.0060	
Arsenic (mg/L)				3	<0.0002	<0.0002	0.0100	
Barium (mg/L)				3	0.062	0.052 - 0.070	2.000	
Boron (mg/L)				3	0.010	0.009 - 0.011	5.000	
Bromate Dissolved (mg/L)				3	<0.005	<0.005	0.010	
Cadmium (mg/L)				3	<0.00002	<0.00002	0.00700	
Chlorate Dissolved (mg/L)				3	0.24	0.20 - 0.29	1.00	
Chlorine total (mg/L)	5	1.60	1.45 - 1.69	30	1.86	1.45 - 2.04		1.00 - 2.40
Chlorite Dissolved (mg/L)				3	<0.005	<0.005	1.000	
Chromium (mg/L)				3	<0.0002	<0.0002	0.0500	
Fluoride (mg/L)				3	0.71	0.68 - 0.74	1.50	0.60 - 0.80
Lead (mg/L)				3	<0.0002	<0.0002	0.0050	
Mercury (mg/L)				3	<0.0002	<0.0002	0.0010	
Nitrate (as N) dissolved (mg/L)	5	0.04	0.02 - 0.07	10	0.05	0.02 - 0.12	10.00	
Nitrite (as N) dissolved (mg/L)	5	<0.01	<0.01	10	0.01	<0.01 - 0.01	1.00	
Selenium (mg/L)				3	0.0002	0.0002 - 0.0003	0.0500	
Uranium (mg/L)				3	0.0005	<0.0005 - 0.0006	0.0200	
Primary Organics								
Benzene (µg/L)				3	<0.50	<0.5 - <0.50	5.0	
Carbon Tetrachloride (µg/L)				3	<0.50	<0.5 - <0.50	2.0	
Chlorobenzene (µg/L)				3	<0.50	<0.5 - <0.50		
Dichlorobenzene (1,2) (µg/L)				3	<0.50	<0.5 - <0.50		
Dichlorobenzene (1,4) (µg/L)				3	<0.50	<0.5 - <0.50	5.0 (1.0)	
Dichloroethane (1,2) (µg/L)				3	<0.50	<0.5 - <0.50	5.0	
Dichloroethylene (1,1) (µg/L)				3	<0.50	<0.5 - <0.50	14.0	
Ethylbenzene (µg/L)				3	<0.50	<0.5 - <0.50	140.0 (1.6)	
Methylene Chloride (Dichloromethane) (µg/L)				3	<1.00	<0.5 - <1.00	50.0	
Tetrachloroethylene (µg/L)				3	<0.50	<0.5 - <0.50	10.0	
Toluene (µg/L)				3	<0.50	<0.5 - <0.50	60.0 (24.0)	
Trichloroethylene (µg/L)				3	<0.50	<0.5 - <0.50	5.0	
Trihalomethanes (µg/L)				3	27.1	10.1 - 52.8	100.0	50.0
Vinyl Chloride (µg/L)				3	<1.0	<0.50 - <1.0	2.00	
Xylenes total (µg/L)				3	<1.0	<0.50 - <1.0	90.00 (20.00)	

2.2.12 Londonderry Reservoir

July 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Inorganics								
Alkalinity total (mg CaCO3/L)				3	114.7	107.0 - 130.0		
Aluminum (mg/L)				3	0.069	0.017 - 0.112	2.900 (0.100)	
Ammonia as NH3 (mg/L)	5	0.16	0.14 - 0.19	30	0.14	0.11 - 0.19		
Beryllium (mg/L)				3	<0.0002	<0.0002		
Bromide Dissolved (mg/L)				3	<0.03	<0.03		
Calcium (mg/L)				3	48.6	45.9 - 53.3		
Calcium Hardness (mg/L CaCO3)				3	121.3	115.0 - 133.0		
Chloride Dissolved (mg/L)				3	6.9	5.1 - 8.7	(250.0)	
Cobalt (mg/L)				3	<0.0002	<0.0002		
Copper (mg/L)				3	<0.002	<0.002	2.000 (1.000)	
Iron (mg/L)				3	0.013	<0.005 - 0.030	(0.100)	
Lithium (mg/L)				3	0.0034	0.0033 - 0.0036		
Magnesium (mg/L)				3	14.9	14.0 - 16.7		
Manganese (mg/L)				3	<0.002	<0.002	0.120 (0.020)	
Molybdenum (mg/L)				3	0.0007	0.0007 - 0.0008		
Nickel (mg/L)				3	0.0006	<0.0005 - 0.0007		
Phosphate Ortho (as P) (mg/L as P)	5	0.90	0.88 - 0.92	30	0.92	0.86 - 1.04		
Phosphorus (mg/L)				3	0.97	0.96 - 0.99		
Potassium (mg/L)				3	1.1	0.8 - 1.4		
Silicon (mg/L)				3	2.20	2.01 - 2.42		
Silver (mg/L)				3	<0.00002	<0.00002		
Sodium (mg/L)				3	13.1	7.3 - 19.0	(200.0)	
Strontium (mg/L)				3	0.435	0.391 - 0.463	7.000	
Sulphate Dissolved (mg/L)				3	77.7	71.1 - 86.6	(500.0)	
Thallium (mg/L)				3	<0.0002	<0.0002		
Tin (mg/L)				3	<0.0005	<0.0005		
Titanium (mg/L)				3	<0.0005	<0.0005		
Total Hardness (mg/L CaCO3)				3	182.7	172.0 - 202.0		
Vanadium (mg/L)				3	<0.0005	<0.0005		
Zinc (mg/L)				3	<0.005	<0.005	(5.000)	
Zirconium (mg/L)				3	<0.001	<0.001		

2.2.12 Londonderry Reservoir

July 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Organics								
Bromodichloromethane (µg/L)				3	1.1	0.8 - 1.6		
Bromoform (µg/L)				3	<0.50	<0.5 - <0.50		
Chloroform (µg/L)				3	25.9	9.2 - 51.2		
Dibromochloromethane (µg/L)				3	<0.50	<0.5 - <0.50		
Dichlorobenzene (1,3) (µg/L)				3	<0.50	<0.5 - <0.50		
Dichloroethylene cis (1,2) (µg/L)				3	<0.50	<0.5 - <0.50		
Dichloroethylene trans (1,2) (µg/L)				3	<0.50	<0.5 - <0.50		
Dichloropropane (1,2) (µg/L)				3	<0.50	<0.5 - <0.50		
Methyl Isobutyl Ketone (MIBK) (µg/L)				3	<20	<1.0 - <20		
Methyl t-Butyl Ether (MTBE) (µg/L)				3	<0.50	<0.5 - <0.50	(15.0)	
Styrene (µg/L)				3	<0.50	<0.5 - <0.50		
Tetrachloroethane (1,1,2,2) (µg/L)				3	<0.50	<0.5 - <0.50		
Total Organic Carbon (mg/L)	5	2.1	1.9 - 2.3	9	2.0	1.2 - 2.9		
Total Volatile Organics (Non THM) (µg/L)				2	1.2	<1.0 - 1.3		
Trichlorobenzene (1,2,4) (µg/L)				3	<0.50	<0.5 - <0.50		
Trichloroethane (1,1,1) (µg/L)				3	<0.50	<0.5 - <0.50		
Xylene (1,2) (µg/L)				3	<0.5	<0.30 - <0.5		
Xylene (1,4) (µg/L)				3	<0.5	<0.40 - <0.5		

2.2.13 Millwoods Reservoir

July 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Physical								
Colour (TCU)				3	0.9	0.6 - 1.1	(15.0)	10.0
Conductivity (µS/cm)				3	410.7	398.0 - 433.0		
pH	5	8	8	9	8	8		7 - 8
Turbidity (NTU)	5	0.07	0.06 - 0.09	30	0.11	0.06 - 0.46	(3.00)	1.00
Primary Inorganics								
Antimony (mg/L)				3	<0.0005	<0.0005	0.0060	
Arsenic (mg/L)				3	<0.0002	<0.0002	0.0100	
Barium (mg/L)				3	0.062	0.051 - 0.070	2.000	
Boron (mg/L)				3	0.010	0.009 - 0.011	5.000	
Bromate Dissolved (mg/L)				3	<0.005	<0.005	0.010	
Cadmium (mg/L)				3	<0.00002	<0.00002	0.00700	
Chlorate Dissolved (mg/L)				3	0.16	0.12 - 0.23	1.00	
Chlorine total (mg/L)	5	1.73	1.70 - 1.74	30	1.93	1.70 - 2.10		1.00 - 2.40
Chlorite Dissolved (mg/L)				3	<0.005	<0.005	1.000	
Chromium (mg/L)				3	<0.0002	<0.0002	0.0500	
Fluoride (mg/L)				3	0.66	0.62 - 0.70	1.50	0.60 - 0.80
Lead (mg/L)				3	<0.0002	<0.0002	0.0050	
Mercury (mg/L)				3	<0.0002	<0.0002	0.0010	
Nitrate (as N) dissolved (mg/L)	5	0.03	0.02 - 0.05	10	0.04	0.01 - 0.11	10.00	
Nitrite (as N) dissolved (mg/L)	5	0.01	<0.01	10	0.01	<0.01 - 0.01	1.00	
Selenium (mg/L)				3	0.0002	0.0002 - 0.0003	0.0500	
Uranium (mg/L)				3	0.0005	<0.0005 - 0.0006	0.0200	
Primary Organics								
Benzene (µg/L)				3	<0.50	<0.5 - <0.50	5.0	
Carbon Tetrachloride (µg/L)				3	<0.50	<0.5 - <0.50	2.0	
Chlorobenzene (µg/L)				3	<0.50	<0.5 - <0.50		
Dichlorobenzene (1,2) (µg/L)				3	<0.50	<0.5 - <0.50	200.0 (3.0)	
Dichlorobenzene (1,4) (µg/L)				3	<0.50	<0.5 - <0.50	5.0 (1.0)	
Dichloroethane (1,2) (µg/L)				3	<0.50	<0.5 - <0.50	5.0	
Dichloroethylene (1,1) (µg/L)				3	<0.50	<0.5 - <0.50	14.0	
Ethylbenzene (µg/L)				3	<0.50	<0.5 - <0.50	140.0 (1.6)	
Methylene Chloride (Dichloromethane) (µg/L)				3	<1.00	<0.5 - <1.00	50.0	
Tetrachloroethylene (µg/L)				3	<0.50	<0.5 - <0.50	10.0	
Toluene (µg/L)				3	<0.50	<0.5 - <0.50	60.0 (24.0)	
Trichloroethylene (µg/L)				3	<0.50	<0.5 - <0.50	5.0	
Trihalomethanes (µg/L)				3	29.4	7.9 - 63.7	100.0	50.0
Vinyl Chloride (µg/L)				3	<1.0	<0.50 - <1.0	2.00	
Xylenes total (µg/L)				3	<1.0	<0.50 - <1.0	90.00 (20.00)	

2.2.13 Millwoods Reservoir

July 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Inorganics								
Alkalinity total (mg CaCO3/L)				3	117.3	107.0 - 130.0		
Aluminum (mg/L)				3	0.045	0.020 - 0.078	2.900 (0.100)	
Ammonia as NH3 (mg/L)	5	0.16	0.14 - 0.16	29	0.13	0.08 - 0.16		
Beryllium (mg/L)				3	<0.0002	<0.0002		
Bromide Dissolved (mg/L)				3	<0.03	<0.03		
Calcium (mg/L)				3	49.6	46.9 - 53.5		
Calcium Hardness (mg/L CaCO3)				3	124.0	117.0 - 134.0		
Chloride Dissolved (mg/L)				3	6.4	5.5 - 6.9	(250.0)	
Cobalt (mg/L)				3	<0.0002	<0.0002		
Copper (mg/L)				3	<0.002	<0.002	2.000 (1.000)	
Iron (mg/L)				3	<0.005	<0.005	(0.100)	
Lithium (mg/L)				3	0.0033	0.0029 - 0.0036		
Magnesium (mg/L)				3	15.1	14.3 - 16.6		
Manganese (mg/L)				3	<0.002	<0.002	0.120 (0.020)	
Molybdenum (mg/L)				3	0.0007	0.0006 - 0.0008		
Nickel (mg/L)				3	0.0005	<0.0005 - 0.0006		
Phosphate Ortho (as P) (mg/L as P)	5	0.82	0.47 - 0.94	29	0.91	0.47 - 0.98		
Phosphorus (mg/L)				3	0.97	0.96 - 0.99		
Potassium (mg/L)				3	1.0	0.8 - 1.2		
Silicon (mg/L)				3	2.15	1.92 - 2.46		
Silver (mg/L)				3	<0.00002	<0.00002		
Sodium (mg/L)				3	13.3	7.6 - 20.6	(200.0)	
Strontium (mg/L)				3	0.449	0.415 - 0.468	7.000	
Sulphate Dissolved (mg/L)				3	79.0	71.9 - 89.3	(500.0)	
Thallium (mg/L)				3	<0.0002	<0.0002		
Tin (mg/L)				3	<0.0005	<0.0005		
Titanium (mg/L)				3	<0.0005	<0.0005		
Total Hardness (mg/L CaCO3)				3	186.0	176.0 - 202.0		
Vanadium (mg/L)				3	<0.0005	<0.0005		
Zinc (mg/L)				3	<0.005	<0.005	(5.000)	
Zirconium (mg/L)				3	<0.001	<0.001		

2.2.13 Millwoods Reservoir

July 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Organics								
Bromodichloromethane (µg/L)				3	1.1	0.7 - 1.9		
Bromoform (µg/L)				3	<0.50	<0.5 - <0.50		
Chloroform (µg/L)				3	28.2	7.1 - 61.8	(40.0)	
Dibromochloromethane (µg/L)				3	<0.50	<0.5 - <0.50		
Dichlorobenzene (1,3) (µg/L)				3	<0.50	<0.5 - <0.50		
Dichloroethylene cis (1,2) (µg/L)				3	<0.50	<0.5 - <0.50		
Dichloroethylene trans (1,2) (µg/L)				3	<0.50	<0.5 - <0.50		
Dichloropropane (1,2) (µg/L)				3	<0.50	<0.5 - <0.50		
Methyl Isobutyl Ketone (MIBK) (µg/L)				3	<20	<1.0 - <20		
Methyl t-Butyl Ether (MTBE) (µg/L)				3	<0.50	<0.5 - <0.50	100.0 (15.0)	50.0
Styrene (µg/L)				3	<0.50	<0.5 - <0.50		
Tetrachloroethane (1,1,2,2) (µg/L)				3	<0.50	<0.5 - <0.50		
Total Organic Carbon (mg/L)	5	2.1	1.9 - 2.4	9	2.0	1.1 - 2.8		
Total Volatile Organics (Non THM) (µg/L)				2	1.2	<1.0 - 1.4		
Trichlorobenzene (1,2,4) (µg/L)				3	<0.50	<0.5 - <0.50		
Trichloroethane (1,1,1) (µg/L)				3	<0.50	<0.5 - <0.50		
Xylene (1,2) (µg/L)				3	<0.5	<0.30 - <0.5		
Xylene (1,4) (µg/L)				3	<0.5	<0.40 - <0.5		

2.2.14 North Jasper Place Reservoir

July 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Physical								
Colour (TCU)	1	1.2	1.2	4	1.1	0.5 - 1.5	(15.0)	10.0
Conductivity (µS/cm)	1	419.0	419.0	4	401.0	378.0 - 419.0		
pH	5	8	8	9	8	8		7 - 8
Turbidity (NTU)	5	0.07	0.06 - 0.08	29	0.09	0.06 - 0.23	(3.00)	1.00
Primary Inorganics								
Antimony (mg/L)	1	<0.0005	<0.0005	4	<0.0005	<0.0005	0.0060	
Arsenic (mg/L)	1	<0.0002	<0.0002	4	<0.0002	<0.0002	0.0100	
Barium (mg/L)	1	0.067	0.067	4	0.062	0.057 - 0.067	2.000	
Boron (mg/L)	1	0.011	0.011	4	0.013	0.008 - 0.023	5.000	
Bromate Dissolved (mg/L)	1	<0.005	<0.005	4	<0.005	<0.003 - <0.005	0.010	
Cadmium (mg/L)	1	<0.00002	<0.00002	4	<0.00002	<0.00002	0.00700	
Chlorate Dissolved (mg/L)	1	0.10	0.10	4	0.10	<0.1 - 0.11	1.00	
Chlorine total (mg/L)	5	1.30	1.17 - 1.39	29	1.64	1.17 - 2.18		1.00 - 2.40
Chlorite Dissolved (mg/L)	1	<0.005	<0.005	4	<0.2	<0.005 - <0.2	1.000	
Chromium (mg/L)	1	<0.0002	<0.0002	4	<0.0002	<0.0002	0.0500	
Fluoride (mg/L)	2	0.65	0.62 - 0.67	5	0.65	0.62 - 0.69	1.50	0.60 - 0.80
Lead (mg/L)	1	<0.0002	<0.0002	4	<0.0002	<0.0002	0.0050	
Mercury (mg/L)	1	<0.0002	<0.0002	4	<0.0002	<0.0002	0.0010	
Nitrate (as N) dissolved (mg/L)	5	0.04	0.03 - 0.06	9	0.06	0.03 - 0.13	10.00	
Nitrite (as N) dissolved (mg/L)	5	<0.01	<0.01	9	0.01	<0.01 - 0.01	1.00	
Selenium (mg/L)	1	0.0003	0.0003	4	0.0003	0.0002 - 0.0003	0.0500	
Uranium (mg/L)	1	<0.0005	<0.0005	4	0.0005	<0.0005 - 0.0005	0.0200	
Primary Organics								
Benzene (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0	5.0	
Carbon Tetrachloride (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0	2.0	
Chlorobenzene (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0		
Dichlorobenzene (1,2) (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0		
Dichlorobenzene (1,4) (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0	5.0 (1.0)	
Dichloroethane (1,2) (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0	5.0	
Dichloroethylene (1,1) (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0	14.0	
Ethylbenzene (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0	140.0 (1.6)	
Methylene Chloride (Dichloromethane) (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0	50.0	
Tetrachloroethylene (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0	10.0	
Toluene (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0	60.0 (24.0)	
Trichloroethylene (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0	5.0	
Trihalomethanes (µg/L)	1	44.9	44.9	4	22.6	11.0 - 44.9	100.0	50.0
Vinyl Chloride (µg/L)	1	2.0	2.0	4	1.3	<1.0 - 2.0	2.0	
Xylenes total (µg/L)	1	<1.0	<1.0	4	<1.0	<1.0	90.0 (20.0)	

2.2.14 North Jasper Place Reservoir

July 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Inorganics								
Alkalinity total (mg CaCO3/L)	1	115.0	115.0	4	116.0	112.0 - 120.0		
Aluminum (mg/L)	1	0.048	0.048	4	0.051	0.025 - 0.095	2.900 (0.100)	
Ammonia as NH3 (mg/L)	5	0.20	0.17 - 0.22	29	0.15	0.10 - 0.22		
Beryllium (mg/L)	1	<0.0002	<0.0002	4	<0.0002	<0.0002		
Bromide Dissolved (mg/L)	1	<0.03	<0.03	4	<0.05	<0.03 - <0.05		
Calcium (mg/L)	1	48.2	48.2	4	47.3	45.9 - 49.0		
Calcium Hardness (mg/L CaCO3)	1	120.0	120.0	4	118.0	115.0 - 122.0		
Chloride Dissolved (mg/L)	1	7.6	7.6	4	7.12	5.65 - 8.43	(250.00)	
Cobalt (mg/L)	1	<0.0002	<0.0002	4	<0.0002	<0.0002		
Copper (mg/L)	1	<0.002	<0.002	4	<0.002	<0.002	2.000 (1.000)	
Iron (mg/L)	1	0.007	0.007	4	0.006	<0.005 - 0.007	(0.100)	
Lithium (mg/L)	1	0.0031	0.0031	4	0.0031	0.0029 - 0.0035		
Magnesium (mg/L)	1	13.5	13.5	4	14.3	13.5 - 15.2		
Manganese (mg/L)	1	<0.002	<0.002	4	<0.002	<0.002	0.120 (0.020)	
Molybdenum (mg/L)	1	0.0008	0.0008	4	0.0008	0.0006 - 0.0009		
Nickel (mg/L)	1	0.0005	0.0005	4	0.0005	<0.0005 - 0.0005		
Phosphate Ortho (as P) (mg/L as P)	5	0.92	0.90 - 0.96	29	0.92	0.90 - 0.96		
Phosphorus (mg/L)	1	0.96	0.96	4	0.96	0.94 - 0.98		
Potassium (mg/L)	1	0.8	0.8	4	1.0	0.7 - 1.5		
Silicon (mg/L)	1	2.31	2.31	4	2.04	1.73 - 2.31		
Silver (mg/L)	1	<0.00002	<0.00002	4	<0.00002	<0.00002		
Sodium (mg/L)	1	18.9	18.9	4	13.4	6.6 - 18.9	(200.0)	
Strontium (mg/L)	1	0.399	0.399	4	0.436	0.399 - 0.467	7.000	
Sulphate Dissolved (mg/L)	1	87.7	87.7	4	75.8	61.5 - 87.7	(500.0)	
Thallium (mg/L)	1	<0.0002	<0.0002	4	<0.0002	<0.0002		
Tin (mg/L)	1	<0.0005	<0.0005	4	<0.0005	<0.0005		
Titanium (mg/L)	1	<0.0005	<0.0005	4	<0.0005	<0.0005		
Total Hardness (mg/L CaCO3)	1	176.0	176.0	4	177.0	172.0 - 185.0		
Vanadium (mg/L)	1	<0.0005	<0.0005	4	<0.0005	<0.0005		
Zinc (mg/L)	1	<0.005	<0.005	4	<0.005	<0.005	(5.000)	
Zirconium (mg/L)	1	<0.001	<0.001	4	<0.001	<0.001		

2.2.14 North Jasper Place Reservoir

July 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Organics								
Bromodichloromethane (µg/L)	1	1.6	1.6	4	1.2	0.8 - 1.6		
Bromoform (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0		
Chloroform (µg/L)	1	43.1	43.1	4	21.3	10.1 - 43.1		
Dibromochloromethane (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0		
Dichlorobenzene (1,3) (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0		
Dichloroethylene cis (1,2) (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0		
Dichloroethylene trans (1,2) (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0		
Dichloropropane (1,2) (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0		
Methyl Isobutyl Ketone (MIBK) (µg/L)	1	2.0	2.0	4	1.3	<1.0 - 2.0		
Methyl t-Butyl Ether (MTBE) (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0	(15.0)	
Styrene (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0		
Tetrachloroethane (1,1,2,2) (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0		
Total Organic Carbon (mg/L)	5	2.1	1.9 - 2.4	8	1.8	1.0 - 2.4		
Total Volatile Organics (Non THM) (µg/L)	1	3.3	3.3	4	1.8	<1.0 - 3.3		
Trichlorobenzene (1,2,4) (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0		
Trichloroethane (1,1,1) (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0		
Xylene (1,2) (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0		
Xylene (1,4) (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0		

2.2.15 Ormsby Reservoir

July 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Physical								
Colour (TCU)				3	1.0	0.7 - 1.2	(15.0)	10.0
Conductivity (µS/cm)				3	419.0	397.0 - 442.0		
pH	5	8	8	9	8	8		7 - 8
Turbidity (NTU)	5	0.05	<0.04 - 0.07	30	0.09	<0.04 - 0.19	(3.00)	1.00
Primary Inorganics								
Antimony (mg/L)				3	<0.0005	<0.0005	0.0060	
Arsenic (mg/L)				3	<0.0002	<0.0002	0.0100	
Barium (mg/L)				3	0.062	0.053 - 0.070	2.000	
Boron (mg/L)				3	0.012	0.009 - 0.015	5.000	
Bromate Dissolved (mg/L)				3	<0.005	<0.005	0.010	
Cadmium (mg/L)				3	<0.00002	<0.00002	0.00700	
Chlorate Dissolved (mg/L)				3	0.13	0.10 - 0.16	1.00	
Chlorine total (mg/L)	5	1.61	1.56 - 1.68	30	1.87	1.56 - 2.11		1.00 - 2.40
Chlorite Dissolved (mg/L)				3	<0.005	<0.005	1.000	
Chromium (mg/L)				3	<0.0002	<0.0002	0.0500	
Fluoride (mg/L)				3	0.65	0.64 - 0.68	1.50	0.60 - 0.80
Lead (mg/L)				3	<0.0002	<0.0002	0.0050	
Mercury (mg/L)				3	<0.0002	<0.0002	0.0010	
Nitrate (as N) dissolved (mg/L)	5	0.03	0.02 - 0.07	10	0.04	0.01 - 0.12	10.00	
Nitrite (as N) dissolved (mg/L)	5	0.01	<0.01	10	0.01	<0.01 - 0.01	1.00	
Selenium (mg/L)				3	0.0002	0.0002 - 0.0003	0.0500	
Uranium (mg/L)				3	0.0005	<0.0005 - 0.0006	0.0200	
Primary Organics								
Benzene (µg/L)				3	<0.50	<0.5 - <0.50	5.0	
Carbon Tetrachloride (µg/L)				3	<0.50	<0.5 - <0.50	2.0	
Chlorobenzene (µg/L)				3	<0.50	<0.5 - <0.50		
Dichlorobenzene (1,2) (µg/L)				3	<0.50	<0.5 - <0.50	200.0 (3.0)	
Dichlorobenzene (1,4) (µg/L)				3	<0.50	<0.5 - <0.50	5.0 (1.0)	
Dichloroethane (1,2) (µg/L)				3	<0.50	<0.5 - <0.50	5.0	
Dichloroethylene (1,1) (µg/L)				3	<0.50	<0.5 - <0.50	14.0	
Ethylbenzene (µg/L)				3	<0.50	<0.5 - <0.50	140.0 (1.6)	
Methylene Chloride (Dichloromethane) (µg/L)				3	<1.00	<0.5 - <1.00	50.0	
Tetrachloroethylene (µg/L)				3	<0.50	<0.5 - <0.50	10.0	
Toluene (µg/L)				3	<0.50	<0.5 - <0.50	60.0 (24.0)	
Trichloroethylene (µg/L)				3	<0.50	<0.5 - <0.50	5.0	
Trihalomethanes (µg/L)				3	26.1	7.2 - 54.5	100.0	50.0
Vinyl Chloride (µg/L)				3	<1.0	<0.50 - <1.0	2.00	
Xylenes total (µg/L)				3	<1.0	<0.50 - <1.0	90.00 (20.00)	

2.2.15 Ormsby Reservoir

July 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Inorganics								
Alkalinity total (mg CaCO3/L)				3	117.3	106.0 - 130.0		
Aluminum (mg/L)				3	0.047	0.020 - 0.082	2.900 (0.100)	
Ammonia as NH3 (mg/L)	5	0.16	0.15 - 0.17	30	0.13	0.08 - 0.17		
Beryllium (mg/L)				3	<0.0002	<0.0002		
Bromide Dissolved (mg/L)				3	<0.03	<0.03		
Calcium (mg/L)				3	49.0	46.4 - 52.6		
Calcium Hardness (mg/L CaCO3)				3	122.3	116.0 - 131.0		
Chloride Dissolved (mg/L)				3	6.7	5.7 - 7.3	(250.0)	
Cobalt (mg/L)				3	<0.0002	<0.0002		
Copper (mg/L)				3	<0.002	<0.002	2.000 (1.000)	
Iron (mg/L)				3	<0.005	<0.005	(0.100)	
Lithium (mg/L)				3	0.0031	0.0028 - 0.0035		
Magnesium (mg/L)				3	15.0	14.0 - 16.6		
Manganese (mg/L)				3	<0.002	<0.002	0.120 (0.020)	
Molybdenum (mg/L)				3	0.0007	0.0007		
Nickel (mg/L)				3	0.0005	<0.0005 - 0.0006		
Phosphate Ortho (as P) (mg/L as P)	5	0.83	0.47 - 0.92	30	0.91	0.47 - 0.96		
Phosphorus (mg/L)				3	0.97	0.97		
Potassium (mg/L)				3	1.1	0.8 - 1.4		
Silicon (mg/L)				3	2.12	1.92 - 2.38		
Silver (mg/L)				3	<0.00002	<0.00002		
Sodium (mg/L)				3	14.6	7.7 - 22.7	(200.0)	
Strontium (mg/L)				3	0.445	0.412 - 0.473	7.000	
Sulphate Dissolved (mg/L)				3	80.9	71.7 - 92.6	(500.0)	
Thallium (mg/L)				3	<0.0002	<0.0002		
Tin (mg/L)				3	<0.0005	<0.0005		
Titanium (mg/L)				3	<0.0005	<0.0005		
Total Hardness (mg/L CaCO3)				3	184.3	174.0 - 200.0		
Vanadium (mg/L)				3	<0.0005	<0.0005		
Zinc (mg/L)				3	<0.005	<0.005	(5.000)	
Zirconium (mg/L)				3	<0.001	<0.001		

2.2.15 Ormsby Reservoir

July 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Organics								
Bromodichloromethane (µg/L)				3	1.0	0.6 - 1.5		
Bromoform (µg/L)				3	<0.50	<0.5 - <0.50		
Chloroform (µg/L)				3	25.0	6.5 - 53.0	(40.0)	
Dibromochloromethane (µg/L)				3	<0.50	<0.5 - <0.50		
Dichlorobenzene (1,3) (µg/L)				3	<0.50	<0.5 - <0.50		
Dichloroethylene cis (1,2) (µg/L)				3	<0.50	<0.5 - <0.50		
Dichloroethylene trans (1,2) (µg/L)				3	<0.50	<0.5 - <0.50		
Dichloropropane (1,2) (µg/L)				3	<0.50	<0.5 - <0.50		
Methyl Isobutyl Ketone (MIBK) (µg/L)				3	<20	<1.0 - <20		
Methyl t-Butyl Ether (MTBE) (µg/L)				3	<0.50	<0.5 - <0.50	100.0 (15.0)	50.0
Styrene (µg/L)				3	<0.50	<0.5 - <0.50		
Tetrachloroethane (1,1,2,2) (µg/L)				3	<0.50	<0.5 - <0.50		
Total Organic Carbon (mg/L)	5	2.1	1.9 - 2.3	9	1.9	1.0 - 2.7		
Total Volatile Organics (Non THM) (µg/L)				2	1.1	<1.0 - 1.2		
Trichlorobenzene (1,2,4) (µg/L)				3	<0.50	<0.5 - <0.50		
Trichloroethane (1,1,1) (µg/L)				3	<0.50	<0.5 - <0.50		
Xylene (1,2) (µg/L)				3	<0.5	<0.30 - <0.5		
Xylene (1,4) (µg/L)				3	<0.5	<0.40 - <0.5		

2.2.16 Papaschase Reservoir 1

July 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Physical								
Colour (TCU)				3	0.9	0.6 - 1.0	(15.0)	10.0
Conductivity (µS/cm)				3	409.7	405.0 - 412.0		
pH	5	8	8	9	8	8		7 - 8
Turbidity (NTU)	5	0.15	0.10 - 0.22	30	0.14	0.07 - 0.36	(3.00)	1.00
Primary Inorganics								
Antimony (mg/L)				3	<0.0005	<0.0005	0.0060	
Arsenic (mg/L)				3	<0.0002	<0.0002	0.0100	
Barium (mg/L)				3	0.061	0.055 - 0.067	2.000	
Boron (mg/L)				3	0.012	0.009 - 0.016	5.000	
Bromate Dissolved (mg/L)				3	<0.005	<0.005	0.010	
Cadmium (mg/L)				3	<0.00002	<0.00002	0.00700	
Chlorate Dissolved (mg/L)				3	0.27	0.22 - 0.31	1.00	
Chlorine total (mg/L)	5	1.47	1.40 - 1.57	30	1.70	1.28 - 1.97		1.00 - 2.40
Chlorite Dissolved (mg/L)				3	<0.005	<0.005	1.000	
Chromium (mg/L)				3	<0.0002	<0.0002	0.0500	
Fluoride (mg/L)				3	0.71	0.68 - 0.75	1.50	0.60 - 0.80
Lead (mg/L)				3	<0.0002	<0.0002	0.0050	
Mercury (mg/L)				3	<0.0002	<0.0002	0.0010	
Nitrate (as N) dissolved (mg/L)	5	0.04	0.02 - 0.07	10	0.05	0.02 - 0.14	10.00	
Nitrite (as N) dissolved (mg/L)	5	0.01	<0.01	10	0.01	<0.01 - 0.01	1.00	
Selenium (mg/L)				3	0.0002	0.0002 - 0.0003	0.0500	
Uranium (mg/L)				3	0.0005	<0.0005 - 0.0006	0.0200	
Primary Organics								
Benzene (µg/L)				3	<0.50	<0.5 - <0.50	5.0	
Carbon Tetrachloride (µg/L)				3	<0.50	<0.5 - <0.50	2.0	
Chlorobenzene (µg/L)				3	<0.50	<0.5 - <0.50		
Dichlorobenzene (1,2) (µg/L)				3	<0.50	<0.5 - <0.50	200.0 (3.0)	
Dichlorobenzene (1,4) (µg/L)				3	<0.50	<0.5 - <0.50	5.0 (1.0)	
Dichloroethane (1,2) (µg/L)				3	<0.50	<0.5 - <0.50	5.0	
Dichloroethylene (1,1) (µg/L)				3	<0.50	<0.5 - <0.50	14.0	
Ethylbenzene (µg/L)				3	<0.50	<0.5 - <0.50	140.0 (1.6)	
Methylene Chloride (Dichloromethane) (µg/L)				3	<1.00	<0.5 - <1.00	50.0	
Tetrachloroethylene (µg/L)				3	<0.50	<0.5 - <0.50	10.0	
Toluene (µg/L)				3	<0.50	<0.5 - <0.50	60.0 (24.0)	
Trichloroethylene (µg/L)				3	<0.50	<0.5 - <0.50	5.0	
Trihalomethanes (µg/L)				3	27.8	11.1 - 53.8	100.0	50.0
Vinyl Chloride (µg/L)				3	<1.0	<0.50 - <1.0	2.00	
Xylenes total (µg/L)				3	<1.0	<0.50 - <1.0	90.00 (20.00)	

2.2.16 Papaschase Reservoir 1

July 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Inorganics								
Alkalinity total (mg CaCO3/L)				3	114.3	105.0 - 130.0		
Aluminum (mg/L)				3	0.046	0.018 - 0.082	2.900 (0.100)	
Ammonia as NH3 (mg/L)	5	0.19	0.17 - 0.21	29	0.17	0.12 - 0.23		
Beryllium (mg/L)				3	<0.0002	<0.0002		
Bromide Dissolved (mg/L)				3	<0.03	<0.03		
Calcium (mg/L)				3	48.5	45.7 - 52.8		
Calcium Hardness (mg/L CaCO3)				3	121.0	114.0 - 132.0		
Chloride Dissolved (mg/L)				3	7.2	5.1 - 9.9	(250.0)	
Cobalt (mg/L)				3	<0.0002	<0.0002		
Copper (mg/L)				3	<0.002	<0.002	2.000 (1.000)	
Iron (mg/L)				3	0.013	0.010 - 0.017	(0.100)	
Lithium (mg/L)				3	0.0035	0.0033 - 0.0036		
Magnesium (mg/L)				3	14.7	13.6 - 16.3		
Manganese (mg/L)				3	<0.002	<0.002	0.120 (0.020)	
Molybdenum (mg/L)				3	0.0007	0.0006 - 0.0008		
Nickel (mg/L)				3	0.0005	<0.0005 - 0.0006		
Phosphate Ortho (as P) (mg/L as P)	5	0.79	0.45 - 0.90	29	0.88	0.45 - 0.94		
Phosphorus (mg/L)				3	0.94	0.94 - 0.95		
Potassium (mg/L)				3	1.2	0.8 - 1.7		
Silicon (mg/L)				3	2.19	2.05 - 2.38		
Silver (mg/L)				3	<0.00002	<0.00002		
Sodium (mg/L)				3	13.3	7.3 - 18.1	(200.0)	
Strontium (mg/L)				3	0.443	0.401 - 0.468	7.000	
Sulphate Dissolved (mg/L)				3	78.1	69.3 - 86.5	(500.0)	
Thallium (mg/L)				3	<0.0002	<0.0002		
Tin (mg/L)				3	<0.0005	<0.0005		
Titanium (mg/L)				3	<0.0005	<0.0005		
Total Hardness (mg/L CaCO3)				3	181.3	170.0 - 199.0		
Vanadium (mg/L)				3	<0.0005	<0.0005		
Zinc (mg/L)				3	<0.005	<0.005	(5.000)	
Zirconium (mg/L)				3	<0.001	<0.001		

2.2.16 Papaschase Reservoir 1

July 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Organics								
Bromodichloromethane (µg/L)				3	1.2	0.8 - 1.4		
Bromoform (µg/L)				3	<0.50	<0.5 - <0.50		
Chloroform (µg/L)				3	26.5	9.6 - 52.4	(40.0)	
Dibromochloromethane (µg/L)				3	<0.50	<0.5 - <0.50		
Dichlorobenzene (1,3) (µg/L)				3	<0.50	<0.5 - <0.50		
Dichloroethylene cis (1,2) (µg/L)				3	<0.50	<0.5 - <0.50		
Dichloroethylene trans (1,2) (µg/L)				3	<0.50	<0.5 - <0.50		
Dichloropropane (1,2) (µg/L)				3	<0.50	<0.5 - <0.50		
Methyl Isobutyl Ketone (MIBK) (µg/L)				3	<20	<1.0 - <20		
Methyl t-Butyl Ether (MTBE) (µg/L)				3	<0.50	<0.5 - <0.50	100.0 (15.0)	50.0
Styrene (µg/L)				3	<0.50	<0.5 - <0.50		
Tetrachloroethane (1,1,2,2) (µg/L)				3	<0.50	<0.5 - <0.50		
Total Organic Carbon (mg/L)	5	2.1	1.9 - 2.4	9	2.0	1.3 - 2.7		
Total Volatile Organics (Non THM) (µg/L)				2	1.2	<1.0 - 1.3		
Trichlorobenzene (1,2,4) (µg/L)				3	<0.50	<0.5 - <0.50		
Trichloroethane (1,1,1) (µg/L)				3	<0.50	<0.5 - <0.50		
Xylene (1,2) (µg/L)				3	<0.5	<0.30 - <0.5		
Xylene (1,4) (µg/L)				3	<0.5	<0.40 - <0.5		

2.2.17 Papaschase Reservoir 2

July 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Physical								
Colour (TCU)	1	1.0	1.0	4	0.9	<0.5 - 1.4	(15.0)	10.0
Conductivity (µS/cm)	1	403.0	403.0	4	397.5	371.0 - 424.0		
pH	5	8	8	9	8	8		7 - 8
Turbidity (NTU)	5	0.13	0.06 - 0.18	30	0.12	0.06 - 0.26	(3.00)	1.00
Primary Inorganics								
Antimony (mg/L)	1	<0.0005	<0.0005	4	<0.0005	<0.0005	0.0060	
Arsenic (mg/L)	1	<0.0002	<0.0002	4	<0.0002	<0.0002	0.0100	
Barium (mg/L)	1	0.067	0.067	4	0.063	0.057 - 0.067	2.000	
Boron (mg/L)	1	0.011	0.011	4	0.013	0.008 - 0.023	5.000	
Bromate Dissolved (mg/L)	1	<0.005	<0.005	4	<0.005	<0.003 - <0.005	0.010	
Cadmium (mg/L)	1	<0.00002	<0.00002	4	<0.00002	<0.00002	0.00700	
Chlorate Dissolved (mg/L)	1	0.33	0.33	4	0.26	0.1 - 0.33	1.00	
Chlorine total (mg/L)	5	1.67	1.60 - 1.71	30	1.89	1.60 - 2.05		1.00 - 2.40
Chlorite Dissolved (mg/L)	1	<0.005	<0.005	4	<0.2	<0.005 - <0.2	1.000	
Chromium (mg/L)	1	<0.0002	<0.0002	4	<0.0002	<0.0002	0.0500	
Fluoride (mg/L)	2	0.69	0.66 - 0.72	5	0.70	0.66 - 0.72	1.50	0.60 - 0.80
Lead (mg/L)	1	<0.0002	<0.0002	4	<0.0002	<0.0002	0.0050	
Mercury (mg/L)	1	<0.0002	<0.0002	4	<0.0002	<0.0002	0.0010	
Nitrate (as N) dissolved (mg/L)	5	0.03	0.02 - 0.06	10	0.05	0.02 - 0.15	10.00	
Nitrite (as N) dissolved (mg/L)	5	0.01	<0.01	10	0.01	<0.01 - 0.01	1.00	
Selenium (mg/L)	1	0.0003	0.0003	4	0.0003	0.0003	0.0500	
Uranium (mg/L)	1	<0.0005	<0.0005	4	0.0005	<0.0005 - 0.0005	0.0200	
Primary Organics								
Benzene (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0	5.0	
Carbon Tetrachloride (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0	2.0	
Chlorobenzene (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0		
Dichlorobenzene (1,2) (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0		
Dichlorobenzene (1,4) (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0	5.0 (1.0)	
Dichloroethane (1,2) (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0	5.0	
Dichloroethylene (1,1) (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0	14.0	
Ethylbenzene (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0	140.0 (1.6)	
Methylene Chloride (Dichloromethane) (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0	50.0	
Tetrachloroethylene (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0	10.0	
Toluene (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0	60.0 (24.0)	
Trichloroethylene (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0	5.0	
Trihalomethanes (µg/L)	1	45.5	45.5	4	24.6	10.1 - 45.5	100.0	50.0
Vinyl Chloride (µg/L)	1	2.0	2.0	4	1.3	<1.0 - 2.0	2.0	
Xylenes total (µg/L)	1	<1.0	<1.0	4	<1.0	<1.0	90.0 (20.0)	

2.2.17 Papaschase Reservoir 2

July 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Inorganics								
Alkalinity total (mg CaCO3/L)	1	110.0	110.0	4	113.8	110.0 - 118.0		
Aluminum (mg/L)	1	0.052	0.052	4	0.057	0.031 - 0.083	2.900 (0.100)	
Ammonia as NH3 (mg/L)	5	0.17	0.14 - 0.20	30	0.14	0.10 - 0.20		
Beryllium (mg/L)	1	<0.0002	<0.0002	4	<0.0002	<0.0002		
Bromide Dissolved (mg/L)	1	<0.03	<0.03	4	<0.05	<0.03 - <0.05		
Calcium (mg/L)	1	46.3	46.3	4	46.8	46.3 - 47.8		
Calcium Hardness (mg/L CaCO3)	1	116.0	116.0	4	117.0	116.0 - 119.0		
Chloride Dissolved (mg/L)	1	7.7	7.7	4	7.49	4.96 - 10.90	(250.00)	
Cobalt (mg/L)	1	<0.0002	<0.0002	4	<0.0002	<0.0002		
Copper (mg/L)	1	<0.002	<0.002	4	<0.002	<0.002	2.000 (1.000)	
Iron (mg/L)	1	<0.005	<0.005	4	<0.005	<0.005	(0.100)	
Lithium (mg/L)	1	0.0036	0.0036	4	0.0034	0.0030 - 0.0037		
Magnesium (mg/L)	1	13.9	13.9	4	14.5	13.9 - 14.9		
Manganese (mg/L)	1	<0.002	<0.002	4	<0.002	<0.002	0.120 (0.020)	
Molybdenum (mg/L)	1	0.0008	0.0008	4	0.0008	0.0006 - 0.0009		
Nickel (mg/L)	1	0.0006	0.0006	4	0.0005	<0.0005 - 0.0006		
Phosphate Ortho (as P) (mg/L as P)	5	0.80	0.45 - 0.90	30	0.89	0.45 - 0.96		
Phosphorus (mg/L)	1	0.94	0.94	4	0.94	0.93 - 0.94		
Potassium (mg/L)	1	0.8	0.8	4	1.1	0.7 - 1.9		
Silicon (mg/L)	1	2.31	2.31	4	2.05	1.89 - 2.31		
Silver (mg/L)	1	<0.00002	<0.00002	4	<0.00002	<0.00002		
Sodium (mg/L)	1	14.2	14.2	4	12.2	6.3 - 16.9	(200.0)	
Strontium (mg/L)	1	0.403	0.403	4	0.442	0.403 - 0.483	7.000	
Sulphate Dissolved (mg/L)	1	77.1	77.1	4	72.4	60.1 - 82.1	(500.0)	
Thallium (mg/L)	1	<0.0002	<0.0002	4	<0.0002	<0.0002		
Tin (mg/L)	1	<0.0005	<0.0005	4	<0.0005	<0.0005		
Titanium (mg/L)	1	<0.0005	<0.0005	4	<0.0005	<0.0005		
Total Hardness (mg/L CaCO3)	1	173.0	173.0	4	176.3	173.0 - 180.0		
Vanadium (mg/L)	1	<0.0005	<0.0005	4	<0.0005	<0.0005		
Zinc (mg/L)	1	<0.005	<0.005	4	<0.005	<0.005	(5.000)	
Zirconium (mg/L)	1	<0.001	<0.001	4	<0.001	<0.001		

2.2.17 Papaschase Reservoir 2

July 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Organics								
Bromodichloromethane (µg/L)	1	1.8	1.8	4	1.3	0.9 - 1.8		
Bromoform (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0		
Chloroform (µg/L)	1	43.5	43.5	4	23.1	9.0 - 43.5		
Dibromochloromethane (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0		
Dichlorobenzene (1,3) (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0		
Dichloroethylene cis (1,2) (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0		
Dichloroethylene trans (1,2) (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0		
Dichloropropane (1,2) (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0		
Methyl Isobutyl Ketone (MIBK) (µg/L)	1	2.0	2.0	4	1.3	<1.0 - 2.0		
Methyl t-Butyl Ether (MTBE) (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0	(15.0)	
Styrene (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0		
Tetrachloroethane (1,1,2,2) (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0		
Total Organic Carbon (mg/L)	5	2.1	1.9 - 2.4	9	1.8	0.9 - 2.4		
Total Volatile Organics (Non THM) (µg/L)	1	3.0	3.0	4	1.8	<1.0 - 3.0		
Trichlorobenzene (1,2,4) (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0		
Trichloroethane (1,1,1) (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0		
Xylene (1,2) (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0		
Xylene (1,4) (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0		

2.2.18 Rosslyn Reservoir 1

July 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Physical								
Colour (TCU)				2	1.2	1.1 - 1.3	(15.0)	10.0
Conductivity (µS/cm)				2	412.0	398.0 - 426.0		
pH	5	8	8	9	8	8		7 - 8
Turbidity (NTU)	5	0.10	<0.04 - 0.14	28	0.11	<0.04 - 0.21	(3.00)	1.00
Primary Inorganics								
Antimony (mg/L)				2	<0.0005	<0.0005	0.0060	
Arsenic (mg/L)				2	<0.0002	<0.0002	0.0100	
Barium (mg/L)				2	0.061	0.052 - 0.069	2.000	
Boron (mg/L)				2	0.011	0.010 - 0.012	5.000	
Bromate Dissolved (mg/L)				2	<0.005	<0.005	0.010	
Cadmium (mg/L)				2	<0.00002	<0.00002	0.00700	
Chlorate Dissolved (mg/L)				2	0.22	0.20 - 0.24	1.00	
Chlorine total (mg/L)	5	1.47	1.29 - 1.57	28	1.77	1.29 - 2.02		1.00 - 2.40
Chlorite Dissolved (mg/L)				2	<0.005	<0.005	1.000	
Chromium (mg/L)				2	<0.0002	<0.0002	0.0500	
Fluoride (mg/L)				2	0.68	0.63 - 0.73	1.50	0.60 - 0.80
Lead (mg/L)				2	<0.0002	<0.0002	0.0050	
Mercury (mg/L)				2	<0.0002	<0.0002	0.0010	
Nitrate (as N) dissolved (mg/L)	5	0.03	0.02 - 0.06	9	0.04	0.02 - 0.12	10.00	
Nitrite (as N) dissolved (mg/L)	5	<0.01	<0.01	9	<0.01	<0.01	1.00	
Selenium (mg/L)				2	0.0002	0.0002	0.0500	
Uranium (mg/L)				2	<0.0005	<0.0005	0.0200	
Primary Organics								
Benzene (µg/L)				2	<0.50	<0.5 - <0.50	5.0	
Carbon Tetrachloride (µg/L)				2	<0.50	<0.5 - <0.50	2.0	
Chlorobenzene (µg/L)				2	<0.50	<0.5 - <0.50		
Dichlorobenzene (1,2) (µg/L)				2	<0.50	<0.5 - <0.50		
Dichlorobenzene (1,4) (µg/L)				2	<0.50	<0.5 - <0.50	5.0 (1.0)	
Dichloroethane (1,2) (µg/L)				2	<0.50	<0.5 - <0.50	5.0	
Dichloroethylene (1,1) (µg/L)				2	<0.50	<0.5 - <0.50	14.0	
Ethylbenzene (µg/L)				2	<0.50	<0.5 - <0.50	140.0 (1.6)	
Methylene Chloride (Dichloromethane) (µg/L)				2	<1.00	<0.5 - <1.00	50.0	
Tetrachloroethylene (µg/L)				2	<0.50	<0.5 - <0.50	10.0	
Toluene (µg/L)				2	<0.50	<0.5 - <0.50	60.0 (24.0)	
Trichloroethylene (µg/L)				2	<0.50	<0.5 - <0.50	5.0	
Trihalomethanes (µg/L)				2	34.2	9.5 - 58.8	100.0	50.0
Vinyl Chloride (µg/L)				2	<1.0	<0.50 - <1.0	2.00	
Xylenes total (µg/L)				2	<1.0	<0.50 - <1.0	90.00 (20.00)	

2.2.18 Rosslyn Reservoir 1

July 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Inorganics								
Alkalinity total (mg CaCO3/L)				2	106.5	106.0 - 107.0		
Aluminum (mg/L)				2	0.030	0.017 - 0.042	2.900 (0.100)	
Ammonia as NH3 (mg/L)	5	0.18	0.14 - 0.21	28	0.15	0.10 - 0.21		
Beryllium (mg/L)				2	<0.0002	<0.0002		
Bromide Dissolved (mg/L)				2	<0.03	<0.03		
Calcium (mg/L)				2	45.8	45.5 - 46.1		
Calcium Hardness (mg/L CaCO3)				2	114.5	114.0 - 115.0		
Chloride Dissolved (mg/L)				2	7.7	7.0 - 8.4	(250.0)	
Cobalt (mg/L)				2	<0.0002	<0.0002		
Copper (mg/L)				2	<0.002	<0.002	2.000 (1.000)	
Iron (mg/L)				2	0.007	<0.005 - 0.008	(0.100)	
Lithium (mg/L)				2	0.0031	0.0030 - 0.0032		
Magnesium (mg/L)				2	14.0	13.7 - 14.3		
Manganese (mg/L)				2	<0.002	<0.002	0.120 (0.020)	
Molybdenum (mg/L)				2	0.0007	0.0006 - 0.0007		
Nickel (mg/L)				2	0.0006	<0.0005 - 0.0007		
Phosphate Ortho (as P) (mg/L as P)	5	0.92	0.88 - 0.94	28	0.91	0.74 - 0.94		
Phosphorus (mg/L)				2	0.95	0.94 - 0.95		
Potassium (mg/L)				2	1.3	1.1 - 1.4		
Silicon (mg/L)				2	2.05	1.92 - 2.18		
Silver (mg/L)				2	<0.00002	<0.00002		
Sodium (mg/L)				2	17.6	13.1 - 22.1	(200.0)	
Strontium (mg/L)				2	0.418	0.387 - 0.449	7.000	
Sulphate Dissolved (mg/L)				2	84.0	76.3 - 91.7	(500.0)	
Thallium (mg/L)				2	<0.0002	<0.0002		
Tin (mg/L)				2	<0.0005	<0.0005		
Titanium (mg/L)				2	<0.0005	<0.0005		
Total Hardness (mg/L CaCO3)				2	171.5	171.0 - 172.0		
Vanadium (mg/L)				2	<0.0005	<0.0005		
Zinc (mg/L)				2	<0.005	<0.005	(5.000)	
Zirconium (mg/L)				2	<0.001	<0.001		

2.2.18 Rosslyn Reservoir 1

July 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Organics								
Bromodichloromethane (µg/L)				2	1.4	1.1 - 1.8		
Bromoform (µg/L)				2	<0.50	<0.5 - <0.50		
Chloroform (µg/L)				2	32.7	8.4 - 57.0		
Dibromochloromethane (µg/L)				2	<0.50	<0.5 - <0.50		
Dichlorobenzene (1,3) (µg/L)				2	<0.50	<0.5 - <0.50		
Dichloroethylene cis (1,2) (µg/L)				2	<0.50	<0.5 - <0.50		
Dichloroethylene trans (1,2) (µg/L)				2	<0.50	<0.5 - <0.50		
Dichloropropane (1,2) (µg/L)				2	<0.50	<0.5 - <0.50		
Methyl Isobutyl Ketone (MIBK) (µg/L)				2	<20	<1.0 - <20		
Methyl t-Butyl Ether (MTBE) (µg/L)				2	<0.50	<0.5 - <0.50	(15.0)	
Styrene (µg/L)				2	<0.50	<0.5 - <0.50		
Tetrachloroethane (1,1,2,2) (µg/L)				2	<0.50	<0.5 - <0.50		
Total Organic Carbon (mg/L)	5	2.1	1.9 - 2.3	8	2.1	1.2 - 3.2		
Total Volatile Organics (Non THM) (µg/L)				1	1.2	1.2		
Trichlorobenzene (1,2,4) (µg/L)				2	<0.50	<0.5 - <0.50		
Trichloroethane (1,1,1) (µg/L)				2	<0.50	<0.5 - <0.50		
Xylene (1,2) (µg/L)				2	<0.5	<0.30 - <0.5		
Xylene (1,4) (µg/L)				2	<0.5	<0.40 - <0.5		

2.2.19 Rosslyn Reservoir 2

July 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Physical								
Colour (TCU)	1	1.0	1.0	5	0.9	0.7 - 1.2	(15.0)	10.0
Conductivity (µS/cm)	1	420.0	420.0	5	403.4	385.0 - 423.0		
pH	5	8	8	11	8	8		7 - 8
Turbidity (NTU)	5	0.09	0.07 - 0.12	30	0.11	0.07 - 0.30	(3.00)	1.00
Primary Inorganics								
Antimony (mg/L)	1	<0.0005	<0.0005	5	<0.0005	<0.0005	0.0060	
Arsenic (mg/L)	1	<0.0002	<0.0002	5	<0.0002	<0.0002	0.0100	
Barium (mg/L)	1	0.067	0.067	5	0.062	0.058 - 0.067	2.000	
Boron (mg/L)	1	0.011	0.011	5	0.011	0.008 - 0.020	5.000	
Bromate Dissolved (mg/L)	1	<0.005	<0.005	5	<0.005	<0.003 - <0.005	0.010	
Cadmium (mg/L)	1	<0.00002	<0.00002	5	<0.00002	<0.00002	0.00700	
Chlorate Dissolved (mg/L)	1	0.27	0.27	5	0.21	0.1 - 0.27	1.00	
Chlorine total (mg/L)	5	1.28	1.22 - 1.32	30	1.65	1.22 - 1.94		1.00 - 2.40
Chlorite Dissolved (mg/L)	1	<0.005	<0.005	5	<0.2	<0.005 - <0.2	1.000	
Chromium (mg/L)	1	<0.0002	<0.0002	5	<0.0002	<0.0002	0.0500	
Fluoride (mg/L)	2	0.68	0.66 - 0.69	6	0.67	0.64 - 0.72	1.50	0.60 - 0.80
Lead (mg/L)	1	<0.0002	<0.0002	5	<0.0002	<0.0002	0.0050	
Mercury (mg/L)	1	<0.0002	<0.0002	5	<0.0002	<0.0002	0.0010	
Nitrate (as N) dissolved (mg/L)	5	0.04	0.02 - 0.05	11	0.05	0.02 - 0.13	10.00	
Nitrite (as N) dissolved (mg/L)	5	<0.01	<0.01	11	0.01	<0.01 - 0.01	1.00	
Selenium (mg/L)	1	0.0003	0.0003	5	0.0003	0.0003	0.0500	
Uranium (mg/L)	1	<0.0005	<0.0005	5	0.0005	<0.0005 - 0.0006	0.0200	
Primary Organics								
Benzene (µg/L)	1	1.0	1.0	5	0.6	<0.5 - 1.0	5.0	
Carbon Tetrachloride (µg/L)	1	1.0	1.0	5	0.6	<0.5 - 1.0	2.0	
Chlorobenzene (µg/L)	1	1.0	1.0	5	0.6	<0.5 - 1.0		
Dichlorobenzene (1,2) (µg/L)	1	1.0	1.0	5	0.6	<0.5 - 1.0		
Dichlorobenzene (1,4) (µg/L)	1	1.0	1.0	5	0.6	<0.5 - 1.0	5.0 (1.0)	
Dichloroethane (1,2) (µg/L)	1	1.0	1.0	5	0.6	<0.5 - 1.0	5.0	
Dichloroethylene (1,1) (µg/L)	1	1.0	1.0	5	0.6	<0.5 - 1.0	14.0	
Ethylbenzene (µg/L)	1	1.0	1.0	5	0.6	<0.5 - 1.0	140.0 (1.6)	
Methylene Chloride (Dichloromethane) (µg/L)	1	1.0	1.0	5	0.6	<0.5 - 1.0	50.0	
Tetrachloroethylene (µg/L)	1	1.0	1.0	5	0.6	<0.5 - 1.0	10.0	
Toluene (µg/L)	1	1.0	1.0	5	0.6	<0.5 - 1.0	60.0 (24.0)	
Trichloroethylene (µg/L)	1	1.0	1.0	5	0.6	<0.5 - 1.0	5.0	
Trihalomethanes (µg/L)	1	41.1	41.1	5	20.0	10.4 - 41.1	100.0	50.0
Vinyl Chloride (µg/L)	1	2.0	2.0	5	1.2	<1.0 - 2.0	2.0	
Xylenes total (µg/L)	1	<1.0	<1.0	5	<1.0	<1.0	90.0 (20.0)	

2.2.19 Rosslyn Reservoir 2

July 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Inorganics								
Alkalinity total (mg CaCO3/L)	1	110.0	110.0	5	117.4	110.0 - 128.0		
Aluminum (mg/L)	1	0.056	0.056	5	0.059	0.034 - 0.085	2.900 (0.100)	
Ammonia as NH3 (mg/L)	5	0.21	0.17 - 0.23	30	0.16	0.11 - 0.23		
Beryllium (mg/L)	1	<0.0002	<0.0002	5	<0.0002	<0.0002		
Bromide Dissolved (mg/L)	1	<0.03	<0.03	5	<0.05	<0.03 - <0.05		
Calcium (mg/L)	1	47.5	47.5	5	48.4	46.3 - 51.7		
Calcium Hardness (mg/L CaCO3)	1	119.0	119.0	5	121.0	116.0 - 129.0		
Chloride Dissolved (mg/L)	1	8.0	8.0	5	7.24	5.40 - 11.00	(250.00)	
Cobalt (mg/L)	1	<0.0002	<0.0002	5	<0.0002	<0.0002		
Copper (mg/L)	1	0.002	0.002	5	0.002	<0.002 - 0.002	2.000 (1.000)	
Iron (mg/L)	1	0.007	0.007	5	0.006	<0.005 - 0.007	(0.100)	
Lithium (mg/L)	1	0.0034	0.0034	5	0.0034	0.0031 - 0.0038		
Magnesium (mg/L)	1	13.8	13.8	5	14.9	13.8 - 16.3		
Manganese (mg/L)	1	<0.002	<0.002	5	<0.002	<0.002	0.120 (0.020)	
Molybdenum (mg/L)	1	0.0008	0.0008	5	0.0007	0.0006 - 0.0008		
Nickel (mg/L)	1	0.0006	0.0006	5	0.0005	<0.0005 - 0.0006		
Phosphate Ortho (as P) (mg/L as P)	5	0.90	0.88 - 0.92	30	0.91	0.78 - 0.94		
Phosphorus (mg/L)	1	0.96	0.96	5	0.96	0.95 - 0.96		
Potassium (mg/L)	1	0.9	0.9	5	1.0	0.7 - 1.6		
Silicon (mg/L)	1	2.18	2.18	5	2.06	1.76 - 2.26		
Silver (mg/L)	1	<0.00002	<0.00002	5	<0.00002	<0.00002		
Sodium (mg/L)	1	16.7	16.7	5	11.6	6.7 - 16.7	(200.0)	
Strontium (mg/L)	1	0.409	0.409	5	0.451	0.409 - 0.478	7.000	
Sulphate Dissolved (mg/L)	1	87.5	87.5	5	74.0	61.3 - 87.5	(500.0)	
Thallium (mg/L)	1	<0.0002	<0.0002	5	<0.0002	<0.0002		
Tin (mg/L)	1	<0.0005	<0.0005	5	<0.0005	<0.0005		
Titanium (mg/L)	1	<0.0005	<0.0005	5	<0.0005	<0.0005		
Total Hardness (mg/L CaCO3)	1	175.0	175.0	5	182.2	174.0 - 196.0		
Vanadium (mg/L)	1	<0.0005	<0.0005	5	<0.0005	<0.0005		
Zinc (mg/L)	1	<0.005	<0.005	5	<0.005	<0.005	(5.000)	
Zirconium (mg/L)	1	<0.001	<0.001	5	<0.001	<0.001		

2.2.19 Rosslyn Reservoir 2

July 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Organics								
Bromodichloromethane (µg/L)	1	1.7	1.7	5	1.2	<0.5 - 1.7		
Bromoform (µg/L)	1	1.0	1.0	5	0.6	<0.5 - 1.0		
Chloroform (µg/L)	1	39.2	39.2	5	18.8	9.5 - 39.2		
Dibromochloromethane (µg/L)	1	1.0	1.0	5	0.6	<0.5 - 1.0		
Dichlorobenzene (1,3) (µg/L)	1	1.0	1.0	5	0.6	<0.5 - 1.0		
Dichloroethylene cis (1,2) (µg/L)	1	1.0	1.0	5	0.6	<0.5 - 1.0		
Dichloroethylene trans (1,2) (µg/L)	1	1.0	1.0	5	0.6	<0.5 - 1.0		
Dichloropropane (1,2) (µg/L)	1	1.0	1.0	5	0.6	<0.5 - 1.0		
Methyl Isobutyl Ketone (MIBK) (µg/L)	1	2.0	2.0	5	1.2	<1.0 - 2.0		
Methyl t-Butyl Ether (MTBE) (µg/L)	1	1.0	1.0	5	0.6	<0.5 - 1.0	(15.0)	
Styrene (µg/L)	1	1.0	1.0	5	0.6	<0.5 - 1.0		
Tetrachloroethane (1,1,2,2) (µg/L)	1	1.0	1.0	5	0.6	<0.5 - 1.0		
Total Organic Carbon (mg/L)	5	2.1	1.9 - 2.3	10	1.8	1.0 - 2.3		
Total Volatile Organics (Non THM) (µg/L)	1	2.9	2.9	5	1.7	<1.0 - 2.9		
Trichlorobenzene (1,2,4) (µg/L)	1	1.0	1.0	5	0.6	<0.5 - 1.0		
Trichloroethane (1,1,1) (µg/L)	1	1.0	1.0	5	0.6	<0.5 - 1.0		
Xylene (1,2) (µg/L)	1	1.0	1.0	5	0.6	<0.5 - 1.0		
Xylene (1,4) (µg/L)	1	1.0	1.0	5	0.6	<0.5 - 1.0		

2.2.20 Thorncliff Reservoir

July 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Physical								
Colour (TCU)	1	1.3	1.3	4	1.0	0.6 - 1.3	(15.0)	10.0
Conductivity (µS/cm)	1	423.0	423.0	4	403.0	377.0 - 423.0		
pH	5	8	8	9	8	8		7 - 8
Turbidity (NTU)	5	0.09	0.05 - 0.20	30	0.21	0.05 - 1.74	(3.00)	1.00
Primary Inorganics								
Antimony (mg/L)	1	<0.0005	<0.0005	4	<0.0005	<0.0005	0.0060	
Arsenic (mg/L)	1	<0.0002	<0.0002	4	<0.0002	<0.0002	0.0100	
Barium (mg/L)	1	0.068	0.068	4	0.062	0.057 - 0.068	2.000	
Boron (mg/L)	1	0.011	0.011	4	0.013	0.008 - 0.023	5.000	
Bromate Dissolved (mg/L)	1	<0.005	<0.005	4	<0.005	<0.003 - <0.005	0.010	
Cadmium (mg/L)	1	<0.00002	<0.00002	4	<0.00002	<0.00002	0.00700	
Chlorate Dissolved (mg/L)	1	0.11	0.11	4	0.11	<0.1 - 0.11	1.00	
Chlorine total (mg/L)	5	1.34	1.28 - 1.39	30	1.68	1.28 - 1.94		1.00 - 2.40
Chlorite Dissolved (mg/L)	1	<0.005	<0.005	4	<0.2	<0.005 - <0.2	1.000	
Chromium (mg/L)	1	<0.0002	<0.0002	4	<0.0002	<0.0002	0.0500	
Fluoride (mg/L)	2	0.65	0.64 - 0.66	5	0.64	0.63 - 0.66	1.50	0.60 - 0.80
Lead (mg/L)	1	<0.0002	<0.0002	4	<0.0002	<0.0002	0.0050	
Mercury (mg/L)	1	<0.0002	<0.0002	4	<0.0002	<0.0002	0.0010	
Nitrate (as N) dissolved (mg/L)	5	0.04	0.02 - 0.05	10	0.05	0.02 - 0.13	10.00	
Nitrite (as N) dissolved (mg/L)	5	<0.01	<0.01	10	<0.01	<0.01	1.00	
Selenium (mg/L)	1	0.0003	0.0003	4	0.0003	0.0002 - 0.0003	0.0500	
Uranium (mg/L)	1	<0.0005	<0.0005	4	0.0005	<0.0005 - 0.0005	0.0200	
Primary Organics								
Benzene (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0	5.0	
Carbon Tetrachloride (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0	2.0	
Chlorobenzene (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0		
Dichlorobenzene (1,2) (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0		
Dichlorobenzene (1,4) (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0	5.0 (1.0)	
Dichloroethane (1,2) (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0	5.0	
Dichloroethylene (1,1) (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0	14.0	
Ethylbenzene (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0	140.0 (1.6)	
Methylene Chloride (Dichloromethane) (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0	50.0	
Tetrachloroethylene (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0	10.0	
Toluene (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0	60.0 (24.0)	
Trichloroethylene (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0	5.0	
Trihalomethanes (µg/L)	1	41.1	41.1	4	20.9	9.6 - 41.1	100.0	50.0
Vinyl Chloride (µg/L)	1	2.0	2.0	4	1.3	<1.0 - 2.0	2.0	
Xylenes total (µg/L)	1	<1.0	<1.0	4	<1.0	<1.0	90.0 (20.0)	

2.2.20 Thorncliff Reservoir

July 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Inorganics								
Alkalinity total (mg CaCO3/L)	1	115.0	115.0	4	114.8	109.0 - 118.0		
Aluminum (mg/L)	1	0.052	0.052	4	0.054	0.031 - 0.095	2.900 (0.100)	
Ammonia as NH3 (mg/L)	5	0.20	0.19 - 0.21	30	0.15	0.09 - 0.21		
Beryllium (mg/L)	1	<0.0002	<0.0002	4	<0.0002	<0.0002		
Bromide Dissolved (mg/L)	1	<0.03	<0.03	4	<0.05	<0.03 - <0.05		
Calcium (mg/L)	1	47.8	47.8	4	47.1	45.1 - 48.9		
Calcium Hardness (mg/L CaCO3)	1	119.0	119.0	4	117.5	113.0 - 122.0		
Chloride Dissolved (mg/L)	1	7.6	7.6	4	7.06	5.65 - 8.21	(250.00)	
Cobalt (mg/L)	1	<0.0002	<0.0002	4	<0.0002	<0.0002		
Copper (mg/L)	1	<0.002	<0.002	4	<0.002	<0.002	2.000 (1.000)	
Iron (mg/L)	1	<0.005	<0.005	4	<0.005	<0.005	(0.100)	
Lithium (mg/L)	1	0.0031	0.0031	4	0.0031	0.0029 - 0.0035		
Magnesium (mg/L)	1	13.9	13.9	4	14.4	13.8 - 15.2		
Manganese (mg/L)	1	<0.002	<0.002	4	<0.002	<0.002	0.120 (0.020)	
Molybdenum (mg/L)	1	0.0008	0.0008	4	0.0008	0.0006 - 0.0009		
Nickel (mg/L)	1	0.0006	0.0006	4	0.0006	<0.0005 - 0.0006		
Phosphate Ortho (as P) (mg/L as P)	5	0.83	0.47 - 0.94	30	0.93	0.47 - 1.12		
Phosphorus (mg/L)	1	0.97	0.97	4	0.96	0.94 - 0.97		
Potassium (mg/L)	1	0.8	0.8	4	1.1	0.7 - 1.6		
Silicon (mg/L)	1	2.21	2.21	4	2.01	1.80 - 2.21		
Silver (mg/L)	1	<0.00002	<0.00002	4	<0.00002	<0.00002		
Sodium (mg/L)	1	18.5	18.5	4	13.3	6.6 - 18.5	(200.0)	
Strontium (mg/L)	1	0.408	0.408	4	0.442	0.408 - 0.475	7.000	
Sulphate Dissolved (mg/L)	1	86.8	86.8	4	75.5	61.6 - 86.8	(500.0)	
Thallium (mg/L)	1	<0.0002	<0.0002	4	<0.0002	<0.0002		
Tin (mg/L)	1	<0.0005	<0.0005	4	<0.0005	<0.0005		
Titanium (mg/L)	1	<0.0005	<0.0005	4	<0.0005	<0.0005		
Total Hardness (mg/L CaCO3)	1	177.0	177.0	4	177.0	169.0 - 185.0		
Vanadium (mg/L)	1	<0.0005	<0.0005	4	<0.0005	<0.0005		
Zinc (mg/L)	1	<0.005	<0.005	4	<0.005	<0.005	(5.000)	
Zirconium (mg/L)	1	<0.001	<0.001	4	<0.001	<0.001		

2.2.20 Thorncliff Reservoir

July 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range	MAC (AO or OG)	EPCOR Target
Secondary Organics								
Bromodichloromethane (µg/L)	1	1.5	1.5	4	1.1	0.7 - 1.5		
Bromoform (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0		
Chloroform (µg/L)	1	39.4	39.4	4	19.7	8.7 - 39.4		
Dibromochloromethane (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0		
Dichlorobenzene (1,3) (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0		
Dichloroethylene cis (1,2) (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0		
Dichloroethylene trans (1,2) (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0		
Dichloropropane (1,2) (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0		
Methyl Isobutyl Ketone (MIBK) (µg/L)	1	2.0	2.0	4	1.3	<1.0 - 2.0		
Methyl t-Butyl Ether (MTBE) (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0	(15.0)	
Styrene (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0		
Tetrachloroethane (1,1,2,2) (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0		
Total Organic Carbon (mg/L)	5	2.1	2.0 - 2.4	9	1.8	1.0 - 2.4		
Total Volatile Organics (Non THM) (µg/L)	1	2.7	2.7	4	1.7	<1.0 - 2.7		
Trichlorobenzene (1,2,4) (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0		
Trichloroethane (1,1,1) (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0		
Xylene (1,2) (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0		
Xylene (1,4) (µg/L)	1	1.0	1.0	4	0.6	<0.5 - 1.0		

2.2.21 Raw River Water

Physical, Inorganics, Organic and Pesticide Parameters

July 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range
Microbiologicals						
Coliforms total (MPN/100 mL)	36	637.5	50.4 - 5510.0	246	663.6	21.3 - 10950.0
Cryptosporidium (oocysts/100L)	2	6.6	<5.5 - 7.6	14	7.6	<1 - 32.3
E. coli (MPN/100 mL)	36	44.9	2.0 - 322.0	246	42.6	1.0 - 3328.0
Giardia (cysts/100L)	2	39.5	11.0 - 68.0	14	34.6	<1.64 - 150.0
Physical						
Colour (TCU)	62	16.3	7.9 - 40.3	424	12.4	2.4 - 52.4
Conductivity (µS/cm)	10	347.8	338.0 - 358.0	60	356.7	313.0 - 412.0
pH	2	8	8 - 9	12	8	8 - 9
Total Dissolved Solids (mg/L)	2	208.00	205.00 - 211.00	14	201.86	178 - 247.00
Total Suspended Solids (mg/L)	2	5.4	1.5 - 9.3	14	12.8	<1.0 - 55.2
Turbidity (NTU)	62	12.76	1.49 - 61.90	424	14.68	1.04 - 250.00
Primary Inorganics						
Antimony (mg/L)	2	<0.0005	<0.0005	14	0.0005	<0.0005
Antimony dissolved (mg/L)	2	<0.0005	<0.0005	14	0.0005	<0.0005
Arsenic (mg/L)	2	0.0004	0.0004	14	0.0004	<0.0002 - 0.0009
Arsenic dissolved (mg/L)	2	0.0003	0.0003	14	0.0003	<0.0002 - 0.0004
Barium (mg/L)	2	0.069	0.067 - 0.071	14	0.070	0.056 - 0.094
Barium dissolved (mg/L)	2	0.066	0.066	14	0.063	0.055 - 0.071
Boron (mg/L)	2	0.011	0.011	14	0.011	0.008 - 0.015
Boron dissolved (mg/L)	2	0.010	0.010	14	0.010	0.009 - 0.012
Bromate Dissolved (mg/L)	10	<0.005	<0.005	60	0.005	<0.003 - 0.005
Cadmium (mg/L)	2	<0.00002	<0.00002	14	0.00002	<0.00002 - 0.00003
Cadmium Dissolved (mg/L)	2	<0.00002	<0.00002	14	<0.00002	<0.00002
Chlorate Dissolved (mg/L)	10	<0.01	<0.01	60	<0.1	<0.01 - <0.1
Chlorine total (mg/L)	2	<0.03	<0.03	12	0.03	<0.03
Chlorite Dissolved (mg/L)	10	<0.005	<0.005	60	<0.2	<0.005 - <0.2
Chromium (mg/L)	2	0.0004	0.0002 - 0.0005	14	0.0007	<0.0002 - 0.0026
Chromium dissolved (mg/L)	2	<0.0002	<0.0002	14	0.0002	<0.0002
Cyanide (mg/L)	2	<0.002	<0.002	6	<0.002	<0.002
Fluoride (mg/L)	10	0.13	0.12 - 0.14	60	0.11	0.09 - 0.14
Lead (mg/L)	2	<0.0002	<0.0002	14	0.0003	<0.0002 - 0.0009
Lead dissolved (mg/L)	2	<0.0002	<0.0002	14	0.0002	<0.0002
Mercury (µg/L)	2	<0.0050	<0.0050	6	<0.0050	<0.0050
Mercury (mg/L)	2	<0.0002	<0.0002	14	0.0002	<0.0002
Mercury dissolved (mg/L)	2	<0.0002	<0.0002	14	0.0002	<0.0002
Nitrate (as N) dissolved (mg/L)	10	0.03	<0.01 - 0.06	58	0.07	<0.01 - 0.19
Nitrite (as N) dissolved (mg/L)	10	<0.01	<0.01	58	0.01	<0.01
Selenium (mg/L)	2	0.0003	0.0003	14	0.0003	0.0002 - 0.0003
Selenium dissolved (mg/L)	2	0.0003	0.0002 - 0.0003	14	0.0003	0.0002 - 0.0003
Uranium (mg/L)	2	<0.0005	<0.0005	14	0.0005	<0.0005 - 0.0006
Uranium dissolved (mg/L)	2	<0.0005	<0.0005	14	0.0005	<0.0005 - 0.0006

2.2.21 Raw River Water

Physical, Inorganics, Organic and Pesticide Parameters

July 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range
Primary Organics						
2,4-D (µg/L)	2	<0.050	<0.050	6	<0.250	<0.050 - <0.250
2-methyl-4-chlorophenoxyacetic acid (MCPA) (µg/L)	2	<0.050	<0.050	6	<0.250	<0.050 - <0.250
Atrazine + metabolites (µg/L)	2	<0.10	<0.10	6	<0.10	<0.10
Benzene (µg/L)	62	<0.5	<0.5	424	<0.50	<0.5 - <0.50
Benzo(a)pyrene (µg/L)	2	<0.005	<0.005	6	<0.005	<0.005
Bromoxynil (µg/L)	2	<0.050	<0.050	6	<0.250	<0.050 - <0.250
Carbon Tetrachloride (µg/L)	62	<0.5	<0.5	424	<0.50	<0.5 - <0.50
Chlorobenzene (µg/L)	62	<0.5	<0.5	424	<0.50	<0.5 - <0.50
Chlorpyrifos (µg/L)	2	<0.10	<0.10	6	<0.10	<0.10
Cyanazine (µg/L)	2	<0.100	<0.100	6	<0.100	<0.100
Diazinon (µg/L)	2	<0.0250	<0.0250	6	<0.0250	<0.0250
Dicamba (µg/L)	2	<0.10	<0.10	6	<0.50	<0.10 - <0.50
Dichlorobenzene (1,2) (µg/L)	62	<0.5	<0.5	424	<0.50	<0.5 - <0.50
Dichlorobenzene (1,4) (µg/L)	62	<0.5	<0.5	424	<0.50	<0.5 - <0.50
Dichloroethane (1,2) (µg/L)	62	<0.5	<0.5	424	<0.50	<0.5 - <0.50
Dichloroethylene (1,1) (µg/L)	62	<0.5	<0.5	424	<0.50	<0.5 - <0.50
Dichlorophenol (2,4) (µg/L)	2	<0.20	<0.20	6	<0.20	<0.20
Diclofop-methyl (µg/L)	2	<0.100	<0.100	6	<0.100	<0.100
Dimethoate (µg/L)	2	<0.050	<0.050	6	<0.050	<0.050
Diquat (µg/L)	2	<1.0	<1.0	6	<1.0	<1.0
Diuron (µg/L)	2	<0.050	<0.050	6	<0.050	<0.050
Ethylbenzene (µg/L)	62	<0.5	<0.5	424	<0.50	<0.5 - <0.50
Glyphosate (µg/L)	2	<1.00	<1.00	6	<1.00	<0.20 - <1.00
Malathion (µg/L)	2	<0.0250	<0.0250	6	<0.0250	<0.0250
Methylene Chloride (Dichloromethane) (µg/L)	62	<0.5	<0.5	424	<1.00	<0.5 - <1.00
Metolachlor (µg/L)	2	<0.0250	<0.0250	6	<0.0250	<0.0250
Metribuzin (µg/L)	2	<0.100	<0.100	6	<0.100	<0.100
Microcystin total (µg/L)	2	<0.15	<0.15	6	<0.15	<0.15
Nitrilotriacetic acid (NTA) (mg/L)	2	<0.4	<0.4	6	<0.4	<0.4
Omethoate (as dimethoate) (µg/L)	2	<0.16	<0.16	6	<0.16	<0.16
Pentachlorophenol (µg/L)	2	<0.50	<0.50	6	<0.50	<0.50
Phorate (µg/L)	2	<0.250	<0.250	6	<0.250	<0.250
Picloram (µg/L)	2	<0.10	<0.10	6	<0.50	<0.10 - <0.50
Simazine (µg/L)	2	<0.100	<0.100	6	<0.100	<0.100
Terbufos (µg/L)	2	<0.50	<0.50	6	<0.50	<0.50
Tetrachloroethylene (µg/L)	62	<0.5	<0.5	424	<0.50	<0.5 - <0.50
Tetrachlorophenol (2,3,4,6) (µg/L)	2	<0.50	<0.50	6	<0.50	<0.50
Toluene (µg/L)	62	<0.5	<0.5	424	<0.50	<0.5 - <0.50
Trichloroethylene (µg/L)	62	<0.5	<0.5	424	<0.50	<0.5 - <0.50
Trichlorophenol (2,4,6) (µg/L)	2	<0.20	<0.20	6	<0.20	<0.20
Trifluralin (µg/L)	2	<0.10	<0.10	6	<0.10	<0.10
Trihalomethanes (µg/L)	62	<1.0	<1.0	424	<1.0	<1.0
Vinyl Chloride (µg/L)	62	<1.0	<1.0	424	<1.0	<0.50 - <1.0
Xylenes total (µg/L)	62	<1.0	<1.0	424	<1.0	<0.50 - <1.0

2.2.21 Raw River Water

Physical, Inorganics, Organic and Pesticide Parameters

July 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range
Radionuclides						
Cesium-137 (Bq/L)				2	<0.2	<0.1 - <0.2
Gross Alpha (Bq/L)				2	<0.47	<0.12 - <0.47
Gross Beta (Bq/L)				2	0.39	<0.08 - 0.70
Iodine-131 (Bq/L)				2	<0.4	<0.4
Lead-210 (Bq/L)				2	<0.04	<0.02 - <0.04
Radium-226 (Bq/L)				2	0.018	<0.005 - 0.030
Strontium-90 (Bq/L)				2	<0.1	<0.05 - <0.1
Tritium (Bq/L)				2	<40	<40
Secondary Organics						
Bromodichloromethane (µg/L)	62	<0.5	<0.5	424	<0.50	<0.5 - <0.50
Bromoform (µg/L)	62	<0.5	<0.5	424	<0.50	<0.5 - <0.50
Chloroform (µg/L)	62	<0.5	<0.5	424	<0.50	<0.5 - <0.50
Dibromochloromethane (µg/L)	62	<0.5	<0.5	424	<0.50	<0.5 - <0.50
Dichlorobenzene (1,3) (µg/L)	62	<0.5	<0.5	424	<0.50	<0.5 - <0.50
Dichloroethylene cis (1,2) (µg/L)	62	<0.5	<0.5	424	<0.50	<0.5 - <0.50
Dichloroethylene trans (1,2) (µg/L)	62	<0.5	<0.5	424	<0.50	<0.5 - <0.50
Dichloropropane (1,2) (µg/L)	62	<0.5	<0.5	424	<0.50	<0.5 - <0.50
Methyl Isobutyl Ketone (MIBK) (µg/L)	62	<1.0	<1.0	424	<20	<1.0 - <20
Methyl t-Butyl Ether (MTBE) (µg/L)	62	<0.5	<0.5	424	<0.50	<0.5 - <0.50
Styrene (µg/L)	62	<0.5	<0.5	424	<0.50	<0.5 - <0.50
Tetrachloroethane (1,1,2,2) (µg/L)	62	<0.5	<0.5	424	<0.50	<0.5 - <0.50
Total Organic Carbon (mg/L)	10	3.7	2.5 - 5.3	60	3.1	0.9 - 9.2
Total Volatile Organics (Non THM) (µg/L)	62	1.2	<1.0 - 1.7	370	1.3	<1.0 - 3.8
Trichlorobenzene (1,2,4) (µg/L)	62	<0.5	<0.5	424	<0.50	<0.5 - <0.50
Trichloroethane (1,1,1) (µg/L)	62	<0.5	<0.5	424	<0.50	<0.5 - <0.50
Xylene (1,2) (µg/L)	62	<0.5	<0.5	424	<0.5	<0.30 - <0.5
Xylene (1,4) (µg/L)	62	<0.5	<0.5	424	<0.5	<0.40 - <0.5

2.2.21 Raw River Water

Physical, Inorganics, Organic and Pesticide Parameters

July 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range
Secondary Inorganics						
Alkalinity phenolphthalein (mg CaCO3/L)	2	<3	<3	12	<3	<3
Alkalinity total (mg CaCO3/L)	10	128.7	124.0 - 136.0	60	127.0	109.0 - 174.0
Aluminum (mg/L)	2	0.218	0.134 - 0.301	14	0.450	0.078 - 1.630
Ammonia as NH3 (mg/L)	28	<0.05	<0.05	248	0.05	<0.01 - 0.12
Beryllium (mg/L)	2	<0.0002	<0.0002	14	0.0002	<0.0002
Bromide Dissolved (mg/L)	10	0.03	<0.03	60	<0.05	<0.03 - <0.05
Calcium (mg/L)	2	47.1	46.9 - 47.2	14	48.0	43.9 - 54.5
Calcium Hardness (mg/L CaCO3)	10	114.3	105.0 - 119.0	60	115.8	98.0 - 136.0
Chloride Dissolved (mg/L)	10	0.9	0.5 - 1.7	60	1.66	0.50 - 6.74
Chlorine free (mg/L)	2	<0.07	<0.07	12	0.07	<0.07
Cobalt (mg/L)	2	<0.0002	<0.0002	14	0.0003	<0.0002 - 0.0007
Copper (mg/L)	2	0.003	<0.002 - 0.003	14	0.003	<0.002 - 0.006
Iron (mg/L)	2	0.184	0.067 - 0.301	14	0.438	0.063 - 1.570
Lanthanum (mg/L)	2	<0.001	<0.001	14	0.001	<0.001
Lithium (mg/L)	2	0.0042	0.0041 - 0.0042	14	0.0040	0.0030 - 0.0054
Magnesium (mg/L)	2	14.9	14.8 - 14.9	14	14.8	13.5 - 17.3
Manganese (mg/L)	2	0.008	0.004 - 0.012	14	0.013	<0.002 - 0.041
Molybdenum (mg/L)	2	0.0007	0.0007	14	0.0007	0.0005 - 0.0010
Nickel (mg/L)	2	0.0007	0.0006 - 0.0008	14	0.0011	<0.0005 - 0.0027
Nitrogen Total Kjeldahl (TKN) (mg/L N)	2	<0.1	<0.1	105	0.2	<0.1 - 0.6
Nitrogen Total Kjeldahl (TKN) (mg/L)				4	0.11	<0.07 - 0.15
Phosphate Ortho (as P) (mg/L as P)	2	<0.02	<0.02	12	<0.02	<0.02
Phosphorus (mg/L)	2	0.03	0.03	14	0.03	<0.02 - 0.07
Potassium (mg/L)	2	0.8	0.8	14	1.1	0.6 - 1.9
Silicon (mg/L)	2	1.85	1.66 - 2.03	14	2.82	1.66 - 5.54
Silver (mg/L)	2	<0.00002	<0.00002	14	0.00002	<0.00002 - 0.00003
Sodium (mg/L)	2	4.5	4.0 - 4.9	14	4.9	2.8 - 8.7
Strontium (mg/L)	2	0.454	0.453 - 0.454	14	0.448	0.386 - 0.485
Sulphate Dissolved (mg/L)	10	50.7	47.0 - 55.8	60	55.7	40.0 - 70.3
Sulphide (mg/L)	2	<0.0015	<0.0015	6	<0.0015	<0.0015
Thallium (mg/L)	2	<0.0002	<0.0002	14	0.0002	<0.0002
Tin (mg/L)	2	<0.0005	<0.0005	14	0.0005	<0.0005
Titanium (mg/L)	2	0.0047	0.0019 - 0.0075	14	0.0094	0.0013 - 0.0323
Total Hardness (mg/L CaCO3)	10	171.3	169.0 - 179.0	60	174.0	146.0 - 202.0
Vanadium (mg/L)	2	0.0008	<0.0005 - 0.0010	14	0.0013	<0.0005 - 0.0044
Zinc (mg/L)	2	<0.005	<0.005	14	0.005	<0.005 - 0.008
Zirconium (mg/L)	2	<0.001	<0.001	14	0.001	<0.001 - 0.002

2.2.21 Raw River Water

Physical, Inorganics, Organic and Pesticide Parameters

July 2025

Parameter (Units)	#	Mean	Range	# (YTD)	YTD Mean	YTD Range
Secondary Inorganics						
Aluminum dissolved (mg/L)	2	0.033	<0.005 - 0.060	14	0.023	<0.005 - 0.090
Beryllium dissolved (mg/L)	2	<0.0002	<0.0002	14	0.0002	<0.0002
Calcium dissolved (mg/L)	2	46.4	46.2 - 46.6	14	47.5	42.8 - 55.6
Cobalt dissolved (mg/L)	2	<0.0002	<0.0002	14	0.0002	<0.0002
Copper dissolved (mg/L)	2	0.002	<0.002	14	0.003	<0.002 - 0.005
Iron dissolved (mg/L)	2	<0.005	<0.005	14	0.010	<0.005 - 0.022
Lanthanum Dissolved (mg/L)	2	<0.001	<0.001	14	0.001	<0.001
Lithium dissolved (mg/L)	2	0.0040	0.0039 - 0.0041	14	0.0037	0.0028 - 0.0043
Magnesium dissolved (mg/L)	2	14.8	14.6 - 14.9	14	14.6	13.1 - 17.2
Manganese dissolved (mg/L)	2	<0.002	<0.002	14	0.002	<0.002 - 0.005
Molybdenum dissolved (mg/L)	2	0.0007	0.0007	14	0.0007	0.0005 - 0.0010
Nickel dissolved (mg/L)	2	<0.0005	<0.0005	14	0.0007	<0.0005 - 0.0021
Phosphorus dissolved (mg/L)	2	<0.02	<0.02	14	<0.02	<0.02
Potassium dissolved (mg/L)	2	0.8	0.7 - 0.8	14	1.0	0.6 - 1.9
Silicon dissolved (mg/L)	2	1.45	1.42 - 1.48	14	2.05	1.42 - 2.53
Silver dissolved (mg/L)	2	<0.00002	<0.00002	14	<0.00002	<0.00002
Sodium dissolved (mg/L)	2	4.4	3.9 - 4.9	14	4.9	2.8 - 8.7
Strontium dissolved (mg/L)	2	0.449	0.447 - 0.451	14	0.443	0.379 - 0.484
Thallium dissolved (mg/L)	2	<0.0002	<0.0002	14	0.0002	<0.0002
Tin dissolved (mg/L)	2	<0.0005	<0.0005	14	0.0005	<0.0005
Titanium dissolved (mg/L)	2	<0.0005	<0.0005	14	0.0005	<0.0005
Vanadium Dissolved (mg/L)	2	<0.0005	<0.0005	14	0.0005	<0.0005
Zinc dissolved (mg/L)	2	<0.005	<0.005	14	0.005	<0.005 - 0.005
Zirconium dissolved (mg/L)	2	<0.001	<0.001	14	0.001	<0.001