



EDMONTON WATERWORKS MONTHLY REPORT

September 2024

PROVIDING MORE



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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 a minimum of one day ahead of the actual bypass. All other bypasses are considered unplanned.

In September, Rossdale Plant had 1 planned shutdowns and 1 unplanned bypass.

| Date | Type | Bypass Description |
|-------------|-------------|--|
| Sep 4 | Unplanned | 1.2 hours bypass due to power bump |
| Sep 24-26 | Planned | 33.8 hours shutdown for capital project work |

In September, E.L. Smith Plant had 2 planned shutdowns and 1 unplanned shutdown.

| Date | Type | Bypass Description |
|-------------|-------------|---|
| Sep 4 | Unplanned | 0.55 hours shutdown for Power Outage |
| Sep 11 | Planned | 13.3 hours shutdown for Capital and maintenance works |
| Sep 23 | Planned | 5.1 hours shutdown for Capital and maintenance works |

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 September, there were zero instances of chlorinated waste released at the outfall structure at Rossdale Water Treatment Plant.
- ◆ During the month of September, there were zero instances of chlorinated waste released at the outfall structure at E.L. Smith Water Treatment Plant.

Chemical Dosing Highlights

In September, Rosssdale 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 – September 2024

| EPCOR Incident Number | Description | Date of Incident | AEPA Reference Number |
|------------------------------|--|-------------------------|------------------------------|
| ENV-20240904-764233-v1 | About 60 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. | September 4, 2024 | 432596 |
| ENV-20240904-804269-v1 | About 106 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. | September 4, 2024 | 432598 |
| ENV-20240904-810904-v1 | About 107 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. | September 4,2024 | 432599 |

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 | WT I |
| Manager, Transmission Operations | WT III |
| Operations Foreman | WT IV |
| HEI Foreman | WT IV |
| Operations Foreman | WT IV |
| Operations Foreman | WT IV |
| Operations Foreman | WT IV |
| Operations Foreman | WT IV |
| Operations Foreman | WT IV |
| Transmission Foreman | WT III |
| Training Operator Foreman | WT III |
| Lead Hand, Operator | WT II |
| Operator I | WT III |
| Operator I | WT II |
| Lead Hand, Operator | WT II |
| Operator I | WT III |
| Operator I | WT III |
| Operations Trainer | WT III |
| Day Foreman | WT IV |
| Lead Hand, Operator | WT II |
| Lead Hand, Operator | WT III |
| Operator I | WT II |
| Operator I | WT II |
| Operator I | WT III |
| Lead Hand, Operator | WT II |
| Operator I | WT III, WD II |
| Operator I | WT III, WWT III |
| Operator I | WT I |
| Operator I | WT II, WD II, WWT II, WWC II |
| Operator I (temp) | WT I, WC I |
| Operator I (temp) | WT II, WD II, WWT I, WWC II |

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

WT III, WWT III

Title

Alberta Environment Certification Level

Operations Engineer

Operations Engineer

WWC I

Day Foreman

WT IV

HEI Foreman

WT IV

Training Operator Foreman

WT IV

Operations Foreman

WT IV

Operations Foreman

WT IV

Operations Foreman

WT III

Operations Foreman

WT IV

Operations Foreman

WT IV

Lead Hand, Operator

WT III

Lead Hand, Operator

WT II

Lead Hand, Operator

WT III

Lead Hand, Operator

WT III

Lead Hand, Operator

WT II, WD II, WWT I, WWC I

Operator I

WT III, WWT II,

Operator I

WT II

Operator I

WT III, WWT III

Operator I

WT II

Operator I

WT II, WD I, WWT II, WWC I

Operator I

WT II, WD I

Operator I

WT III, 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 I | WD III WWC I |
| Foreman I | WD II |
| Foreman I | WD III |
| 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 II |
| Foreman I | WD III |
| 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 II |
| Equipment Operator III | WD I |
| Equipment Operator III | WD II |
| Equipment Operator III | WD II |

| | |
|--------------|--------|
| Labourer II | WD I |
| Labourer II | WD I |
| Labourer II | WD I |
| Labourer II | WD I |
| Labourer III | WD II |
| 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 |
| Labourer II | WD II |
| Labourer II | WD II |
| Labourer II | WD II |
| Truck Driver III | WD II |
| Truck Driver III | WD I |
| Truck Driver III | WD I |
| Foreman III | WD III |
| Welder | WD II |
| Maintenance Repairman I | WD II |
| Maintenance Repairman I | WD I |
| Maintenance Repairman I | WD I |
| Labourer III | WD I |
| Labourer II | WD I |
| Foreman I | WD I |
| Water Sys Tech Support Specialist | WD II |
| 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) - CUSTOMER SERVICE

Senior Manager, Customer Service

Manager, Dispatch

Manager, Inspections and Customer Service

Title Alberta Environment Certification Level

Team Lead, Dispatch

Dispatcher Coordinator

Inspector – Water Metering

Inspector – Water Metering

Foreman III

WD I

WD II

WD I

WD III

Manager, Cross Connections

Inspector – Cross Connections

WD 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 METERING (WD)

Manager, Metering Operations

WD I

Title

Alberta Environment Certification Level

Foreman III

WD II

Meter Mechanic II

WD II

Meter Installer II

WD III

Meter Installer I

WD I

Meter Installer I

WD II

Meter Installer I

WD II

Meter Installer I

WD I

Meter Installer I

WD III

Meter Installer II

WD I

1.2.1 Raw Water Intake (ML)

September 2024

| Day | Rossdale | | | E.L. Smith | Plants Combined Total |
|----------------------|----------|---------|-------------|-------------|-----------------------|
| | Plant 1 | Plant 2 | Plant Total | Plant Total | |
| 1 | 60 | 120 | 180 | 281 | 461 |
| 2 | 76 | 104 | 181 | 290 | 471 |
| 3 | 100 | 100 | 200 | 300 | 500 |
| 4 | 94 | 94 | 188 | 299 | 488 |
| 5 | 90 | 90 | 180 | 299 | 479 |
| 6 | 92 | 92 | 184 | 307 | 491 |
| 7 | 95 | 95 | 190 | 320 | 510 |
| 8 | 94 | 94 | 189 | 300 | 489 |
| 9 | 98 | 98 | 196 | 312 | 508 |
| 10 | 95 | 95 | 190 | 310 | 500 |
| 11 | 90 | 90 | 180 | 159 | 339 |
| 12 | 84 | 86 | 170 | 308 | 477 |
| 13 | 80 | 85 | 165 | 287 | 452 |
| 14 | 76 | 88 | 165 | 267 | 432 |
| 15 | 61 | 98 | 159 | 261 | 420 |
| 16 | 59 | 100 | 159 | 268 | 426 |
| 17 | 60 | 100 | 160 | 270 | 430 |
| 18 | 60 | 100 | 160 | 290 | 450 |
| 19 | 60 | 111 | 171 | 300 | 472 |
| 20 | 60 | 120 | 180 | 301 | 481 |
| 21 | 62 | 120 | 182 | 295 | 477 |
| 22 | 76 | 120 | 196 | 273 | 469 |
| 23 | 65 | 120 | 185 | 236 | 421 |
| 24 | 85 | 110 | 194 | 301 | 495 |
| 25 | -- | -- | -- | 301 | 301 |
| 26 | 66 | 96 | 162 | 300 | 462 |
| 27 | 80 | 120 | 200 | 300 | 500 |
| 28 | 73 | 113 | 186 | 287 | 473 |
| 29 | 63 | 103 | 166 | 264 | 431 |
| 30 | 60 | 100 | 160 | 261 | 420 |
| Monthly Total | 2,213 | 2,964 | 5,177 | 8,547 | 13,724 |
| Monthly Min | 59 | 0.0 | 0.0 | 159 | |
| Monthly Max | 100 | 120 | 200 | 320 | |
| Monthly Avg | 76 | 99 | 173 | 285 | 457 |

NOTES: ' -- ' indicates plant offline

1.2.2 Treated Water Production (ML)

September 2024

| 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 | 83 | 210 | 171 | 205 | 298 | 245 | 416 | 70.7 |
| 2 | 86 | 209 | 172 | 206 | 299 | 252 | 423 | 72.0 |
| 3 | 134 | 209 | 192 | 253 | 302 | 260 | 451 | 69.2 |
| 4 | 73 | 212 | 166 | 222 | 299 | 261 | 427 | 75.4 |
| 5 | 0.0 | 212 | 165 | 193 | 301 | 261 | 426 | 74.1 |
| 6 | 95 | 211 | 176 | 207 | 301 | 275 | 451 | 73.2 |
| 7 | 150 | 210 | 182 | 244 | 300 | 283 | 466 | 77.4 |
| 8 | 64 | 213 | 180 | 202 | 301 | 264 | 444 | 81.0 |
| 9 | 133 | 210 | 186 | 246 | 300 | 274 | 460 | 78.1 |
| 10 | 135 | 208 | 183 | 200 | 298 | 269 | 452 | 85.1 |
| 11 | 63 | 208 | 170 | 0.0 | 294 | 119 | 289 | 85.5 |
| 12 | 103 | 207 | 160 | 203 | 303 | 268 | 428 | 70.6 |
| 13 | 75 | 206 | 152 | 201 | 294 | 255 | 407 | 74.2 |
| 14 | 77 | 205 | 152 | 201 | 292 | 230 | 381 | 77.3 |
| 15 | 77 | 207 | 145 | 200 | 296 | 225 | 370 | 77.7 |
| 16 | 79 | 209 | 149 | 201 | 293 | 232 | 381 | 70.9 |
| 17 | 79 | 209 | 148 | 202 | 300 | 236 | 384 | 67.2 |
| 18 | 75 | 208 | 150 | 204 | 299 | 251 | 401 | 62.8 |
| 19 | 75 | 211 | 161 | 201 | 298 | 259 | 420 | 62.9 |
| 20 | 87 | 210 | 169 | 244 | 297 | 263 | 432 | 67.3 |
| 21 | 69 | 210 | 170 | 203 | 297 | 256 | 426 | 75.5 |
| 22 | 151 | 208 | 183 | 199 | 289 | 237 | 420 | 84.1 |
| 23 | 115 | 208 | 173 | 0.0 | 297 | 195 | 368 | 83.2 |
| 24 | 19 | 208 | 175 | 199 | 294 | 266 | 441 | 82.9 |
| 25 | 13 | 34 | -1.0 | 251 | 296 | 260 | 259 | 76.9 |
| 26 | 17 | 202 | 125 | 246 | 291 | 272 | 397 | 49.3 |
| 27 | 84 | 249 | 190 | 203 | 294 | 260 | 450 | 58.8 |
| 28 | 128 | 209 | 170 | 226 | 299 | 255 | 425 | 71.3 |
| 29 | 87 | 206 | 153 | 201 | 264 | 228 | 382 | 78.3 |
| 30 | 80 | 204 | 148 | 232 | 293 | 232 | 380 | 78.7 |
| Monthly Total | | | 4,815 | | | 7,441 | 12,255 | |
| Monthly Min | 0.0 | | | 0.0 | | | | |
| Monthly Max | | 249 | | | 303 | | | |
| Monthly Avg | | | 160 | | | 248 | 409 | |

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

September 2024

| 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 | 12 | 23 | 16 | 8.3 | 8.4 | 8.4 | 12.5 | 24.7 | 19.2 | 17 | 24 | 21 | 8.4 | 8.4 | 8.4 | 17.9 | 26.2 | 23.1 | | | |
| 2 | 17 | 25 | 20 | 8.3 | 8.4 | 8.4 | 19.6 | 25.0 | 22.2 | 19 | 25 | 21 | 8.3 | 8.4 | 8.3 | 19.3 | 25.4 | 21.8 | | | |
| 3 | 17 | 26 | 20 | 8.3 | 8.4 | 8.4 | 14.5 | 19.6 | 16.4 | 20 | 31 | 26 | 8.4 | 8.4 | 8.4 | 13.2 | 19.3 | 16.0 | | | |
| 4 | 14 | 22 | 17 | 8.1 | 8.4 | 8.3 | 11.2 | 15.2 | 12.2 | 11 | 27 | 19 | 8.4 | 8.4 | 8.4 | 11.0 | 13.2 | 12.3 | | | |
| 5 | 12 | 17 | 13 | 8.4 | 8.5 | 8.4 | 9.5 | 12.0 | 10.2 | 8.5 | 15 | 13 | 8.4 | 8.5 | 8.4 | 9.8 | 11.0 | 10.2 | | | |
| 6 | 6.2 | 12 | 8.7 | 8.5 | 8.5 | 8.5 | 7.8 | 9.6 | 8.7 | 6.0 | 8.5 | 7.8 | 8.5 | 8.5 | 8.5 | 8.3 | 9.9 | 9.0 | | | |
| 7 | 6.2 | 9.4 | 7.8 | 8.4 | 8.5 | 8.5 | 7.1 | 7.8 | 7.7 | 6.0 | 13 | 11 | 8.4 | 8.5 | 8.5 | 7.1 | 8.5 | 7.7 | | | |
| 8 | 8.3 | 10 | 9.1 | 8.4 | 8.4 | 8.4 | 6.6 | 7.1 | 6.9 | 9.0 | 14 | 12 | 8.4 | 8.4 | 8.4 | 6.9 | 7.8 | 7.2 | | | |
| 9 | 6.1 | 11 | 10 | 8.4 | 8.4 | 8.4 | 6.6 | 6.7 | 6.6 | 10 | 14 | 12 | 8.4 | 8.4 | 8.4 | 6.6 | 7.1 | 6.8 | | | |
| 10 | 4.4 | 7.1 | 6.5 | 8.4 | 8.4 | 8.4 | 6.0 | 6.7 | 6.1 | 7.3 | 11 | 9.0 | 8.4 | 8.5 | 8.4 | 6.3 | 7.0 | 6.6 | | | |
| 11 | 2.6 | 4.8 | 4.0 | 8.4 | 8.5 | 8.4 | 5.7 | 6.5 | 6.0 | 6.2 | 7.3 | 7.0 | 8.5 | 8.5 | 8.5 | 6.3 | 6.6 | 6.5 | | | |
| 12 | 2.6 | 3.0 | 2.7 | 8.4 | 8.5 | 8.4 | 5.3 | 6.4 | 5.8 | 3.7 | 8.1 | 5.8 | 8.5 | 8.6 | 8.5 | 5.4 | 6.6 | 6.0 | | | |
| 13 | 2.0 | 5.1 | 3.8 | 8.4 | 8.5 | 8.5 | 5.2 | 6.4 | 5.9 | 2.4 | 7.0 | 4.0 | 8.5 | 8.5 | 8.5 | 5.5 | 6.3 | 5.8 | | | |
| 14 | 1.8 | 2.0 | 1.9 | 8.4 | 8.5 | 8.4 | 5.1 | 5.8 | 5.4 | 2.4 | 4.5 | 3.0 | 8.4 | 8.5 | 8.5 | 5.4 | 5.9 | 5.7 | | | |
| 15 | 1.8 | 3.3 | 2.3 | 8.4 | 8.5 | 8.4 | 4.3 | 5.1 | 5.0 | 2.5 | 2.9 | 2.8 | 8.4 | 8.5 | 8.5 | 5.2 | 5.6 | 5.4 | | | |
| 16 | 2.1 | 2.5 | 2.3 | 8.4 | 8.5 | 8.4 | 4.3 | 5.5 | 5.0 | 2.5 | 3.0 | 2.7 | 8.5 | 8.5 | 8.5 | 5.2 | 5.6 | 5.4 | | | |
| 17 | 2.3 | 2.5 | 2.4 | 8.4 | 8.5 | 8.4 | 4.5 | 5.3 | 5.0 | 2.4 | 3.0 | 2.7 | 8.4 | 8.5 | 8.4 | 4.5 | 5.6 | 4.9 | | | |
| 18 | 2.3 | 2.6 | 2.3 | 8.4 | 8.5 | 8.4 | 4.5 | 4.6 | 4.6 | 2.5 | 3.6 | 3.0 | 8.4 | 8.5 | 8.4 | 4.5 | 6.0 | 5.2 | | | |
| 19 | 2.1 | 3.0 | 2.2 | 8.4 | 8.5 | 8.5 | 4.3 | 5.4 | 4.9 | 3.1 | 4.3 | 3.5 | 8.4 | 8.5 | 8.4 | 4.5 | 5.5 | 5.1 | | | |
| 20 | 1.9 | 3.0 | 2.3 | 8.4 | 8.5 | 8.4 | 4.3 | 4.9 | 4.6 | 2.0 | 4.3 | 2.7 | 8.4 | 8.5 | 8.4 | 4.5 | 5.2 | 4.8 | | | |
| 21 | 1.9 | 2.1 | 2.0 | 8.4 | 8.5 | 8.4 | 4.5 | 4.9 | 4.6 | 2.0 | 2.7 | 2.5 | 8.4 | 8.5 | 8.5 | 4.2 | 4.8 | 4.5 | | | |
| 22 | 1.9 | 2.1 | 2.0 | 8.4 | 8.5 | 8.5 | 4.1 | 4.6 | 4.4 | 2.2 | 3.6 | 2.7 | 8.4 | 8.5 | 8.5 | 4.2 | 5.1 | 4.6 | | | |
| 23 | 1.9 | 2.1 | 2.0 | 8.4 | 8.5 | 8.4 | 4.1 | 4.4 | 4.2 | 2.2 | 5.0 | 3.1 | 8.4 | 8.5 | 8.5 | 4.0 | 4.6 | 4.4 | | | |
| 24 | 1.9 | 2.0 | 1.9 | 8.4 | 8.5 | 8.4 | 3.6 | 4.1 | 3.8 | 2.2 | 3.9 | 2.9 | 8.3 | 8.5 | 8.4 | 3.7 | 4.1 | 4.0 | | | |
| 25 | 2.0 | 2.0 | 2.0 | 8.4 | 8.4 | 8.4 | 3.6 | 3.6 | 3.6 | 2.1 | 2.5 | 2.2 | 8.4 | 8.5 | 8.4 | 3.4 | 4.1 | 3.7 | | | |
| 26 | 2.0 | 5.0 | 3.4 | 8.4 | 8.5 | 8.4 | 3.6 | 4.4 | 4.1 | 2.1 | 12 | 5.0 | 8.4 | 8.5 | 8.4 | 3.7 | 20.0 | 4.2 | | | |
| 27 | 2.4 | 5.3 | 5.2 | 8.4 | 8.5 | 8.4 | 3.5 | 4.3 | 3.8 | 2.9 | 5.1 | 4.3 | 8.4 | 8.5 | 8.4 | 3.7 | 4.6 | 3.9 | | | |
| 28 | 1.9 | 2.4 | 2.1 | 8.4 | 8.5 | 8.4 | 3.9 | 4.1 | 4.1 | 2.5 | 2.9 | 2.7 | 8.4 | 8.5 | 8.5 | 3.9 | 4.3 | 4.1 | | | |
| 29 | 1.7 | 1.9 | 1.8 | 8.4 | 8.5 | 8.5 | 3.7 | 3.9 | 3.8 | 2.5 | 2.9 | 2.7 | 8.4 | 8.5 | 8.4 | 3.5 | 3.9 | 3.7 | | | |
| 30 | 1.8 | 1.9 | 1.9 | 8.4 | 8.5 | 8.4 | 3.5 | 3.9 | 3.8 | 2.0 | 3.1 | 2.5 | 8.4 | 8.4 | 8.4 | 3.7 | 4.4 | 4.2 | | | |
| Monthly Min/Max/Avg | 1.7 | 26 | 6.0 | 8.1 | 8.5 | 8.4 | 3.5 | 25.0 | 7.0 | | | | 2.0 | 31 | 7.3 | 8.3 | 8.6 | 8.4 | 3.4 | 26.2 | 7.2 |

NOTES: ' - ' indicates plant offline

1.2.4 Treated Water Quality Entering the Distribution System
September 2024

| 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 | 0.03 | 0.04 | 0.04 | 2.11 | 2.21 | 2.14 | 7.6 | 7.7 | 7.7 | 0.64 | 0.66 | 0.65 | 170 | 0.6 | 0.06 | 0.06 | 0.06 | 2.05 | 2.20 | 2.13 | 7.5 | 7.6 | 7.5 | 0.71 | 0.72 | 0.72 | 174 | 1.1 |
| 2 | 0.04 | 0.04 | 0.04 | 2.06 | 2.16 | 2.14 | 7.6 | 7.7 | 7.7 | 0.62 | 0.64 | 0.64 | 177 | 1.0 | 0.06 | 0.06 | 0.06 | 2.05 | 2.21 | 2.12 | 7.5 | 7.6 | 7.6 | 0.72 | 0.73 | 0.72 | 179 | 1.6 |
| 3 | 0.04 | 0.04 | 0.04 | 2.11 | 2.21 | 2.16 | 7.7 | 7.8 | 7.8 | 0.63 | 0.65 | 0.64 | 177 | 0.8 | 0.06 | 0.06 | 0.06 | 2.04 | 2.19 | 2.14 | 7.6 | 7.6 | 7.6 | 0.72 | 0.74 | 0.73 | 176 | 1.1 |
| 4 | 0.04 | 0.04 | 0.04 | 2.11 | 2.32 | 2.22 | 7.7 | 7.9 | 7.8 | 0.65 | 0.67 | 0.66 | 176 | 0.5 | 0.06 | 0.07 | 0.06 | 2.03 | 2.22 | 2.12 | 7.6 | 7.6 | 7.6 | 0.73 | 0.75 | 0.74 | 180 | 1.0 |
| 5 | 0.03 | 0.04 | 0.04 | 2.11 | 2.26 | 2.17 | 7.7 | 7.8 | 7.8 | 0.66 | 0.66 | 0.66 | 175 | 0.6 | 0.06 | 0.06 | 0.06 | 2.04 | 2.22 | 2.13 | 7.6 | 7.6 | 7.6 | 0.74 | 0.75 | 0.75 | 173 | 1.1 |
| 6 | 0.04 | 0.04 | 0.04 | 2.16 | 2.26 | 2.21 | 7.7 | 7.8 | 7.7 | 0.66 | 0.67 | 0.67 | 174 | 0.4 | 0.06 | 0.06 | 0.06 | 2.03 | 2.22 | 2.13 | 7.6 | 7.6 | 7.6 | 0.74 | 0.76 | 0.75 | 177 | 1.1 |
| 7 | 0.04 | 0.04 | 0.04 | 2.16 | 2.36 | 2.28 | 7.7 | 7.8 | 7.8 | 0.66 | 0.67 | 0.67 | 175 | 0.3 | 0.06 | 0.06 | 0.06 | 1.98 | 2.19 | 2.10 | 7.6 | 7.6 | 7.6 | 0.75 | 0.76 | 0.76 | 173 | 0.8 |
| 8 | 0.04 | 0.04 | 0.04 | 2.21 | 2.32 | 2.27 | 7.7 | 7.8 | 7.7 | 0.66 | 0.67 | 0.66 | 177 | 0.3 | 0.06 | 0.06 | 0.06 | 1.94 | 2.16 | 2.07 | 7.6 | 7.6 | 7.6 | 0.75 | 0.77 | 0.76 | 177 | 0.6 |
| 9 | 0.04 | 0.05 | 0.04 | 2.21 | 2.32 | 2.27 | 7.7 | 7.8 | 7.8 | 0.65 | 0.67 | 0.66 | 178 | 0.4 | 0.06 | 0.06 | 0.06 | 1.95 | 2.12 | 2.05 | 7.6 | 7.6 | 7.6 | 0.74 | 0.76 | 0.75 | 178 | 0.9 |
| 10 | 0.04 | 0.04 | 0.04 | 2.16 | 2.26 | 2.22 | 7.8 | 7.8 | 7.8 | 0.64 | 0.65 | 0.65 | 179 | 0.2 | 0.06 | 0.06 | 0.06 | 1.94 | 2.14 | 2.08 | 7.5 | 7.6 | 7.6 | 0.72 | 0.75 | 0.73 | 181 | 0.8 |
| 11 | 0.04 | 0.04 | 0.04 | 2.16 | 2.32 | 2.26 | 7.7 | 7.8 | 7.8 | 0.64 | 0.66 | 0.65 | 178 | 0.3 | 0.06 | 0.07 | 0.07 | 1.88 | 2.13 | 2.01 | 7.5 | 7.6 | 7.5 | 0.73 | 0.75 | 0.75 | 178 | 0.9 |
| 12 | 0.04 | 0.04 | 0.04 | 2.21 | 2.32 | 2.25 | 7.8 | 7.8 | 7.8 | 0.64 | 0.64 | 0.64 | 181 | 0.2 | 0.06 | 0.07 | 0.06 | 2.01 | 2.18 | 2.13 | 7.5 | 7.6 | 7.5 | 0.72 | 0.74 | 0.73 | 178 | 0.6 |
| 13 | 0.04 | 0.04 | 0.04 | 2.16 | 2.26 | 2.22 | 7.8 | 7.8 | 7.8 | 0.64 | 0.65 | 0.64 | 178 | 0.4 | 0.06 | 0.06 | 0.06 | 2.00 | 2.22 | 2.10 | 7.5 | 7.5 | 7.5 | 0.73 | 0.74 | 0.74 | 175 | 0.8 |
| 14 | 0.04 | 0.04 | 0.04 | 2.16 | 2.21 | 2.21 | 7.8 | 7.9 | 7.8 | 0.65 | 0.66 | 0.65 | 182 | 0.3 | 0.06 | 0.06 | 0.06 | 2.01 | 2.22 | 2.13 | 7.5 | 7.6 | 7.6 | 0.74 | 0.75 | 0.75 | 182 | 0.6 |
| 15 | 0.04 | 0.04 | 0.04 | 2.16 | 2.26 | 2.22 | 7.8 | 7.9 | 7.9 | 0.65 | 0.67 | 0.66 | 185 | 0.4 | 0.06 | 0.06 | 0.06 | 2.03 | 2.22 | 2.17 | 7.6 | 7.6 | 7.6 | 0.75 | 0.75 | 0.75 | 185 | 0.7 |
| 16 | 0.04 | 0.04 | 0.04 | 2.16 | 2.26 | 2.22 | 7.8 | 7.9 | 7.8 | 0.65 | 0.66 | 0.66 | 182 | 0.2 | 0.06 | 0.06 | 0.06 | 2.02 | 2.22 | 2.16 | 7.6 | 7.6 | 7.6 | 0.75 | 0.76 | 0.75 | 184 | 0.8 |
| 17 | 0.04 | 0.04 | 0.04 | 2.16 | 2.36 | 2.27 | 7.8 | 7.9 | 7.8 | 0.65 | 0.67 | 0.66 | 178 | 0.6 | 0.06 | 0.06 | 0.06 | 2.11 | 2.23 | 2.20 | 7.6 | 7.6 | 7.6 | 0.75 | 0.75 | 0.75 | 178 | 0.8 |
| 18 | 0.04 | 0.04 | 0.04 | 2.26 | 2.42 | 2.32 | 7.9 | 7.9 | 7.9 | 0.65 | 0.66 | 0.66 | 182 | 0.4 | 0.06 | 0.06 | 0.06 | 2.18 | 2.26 | 2.22 | 7.6 | 7.6 | 7.6 | 0.75 | 0.75 | 0.75 | 182 | 0.8 |
| 19 | 0.04 | 0.04 | 0.04 | 2.26 | 2.42 | 2.35 | 7.8 | 7.9 | 7.9 | 0.65 | 0.66 | 0.66 | 180 | 0.3 | 0.06 | 0.06 | 0.06 | 2.20 | 2.27 | 2.23 | 7.6 | 7.6 | 7.6 | 0.73 | 0.75 | 0.75 | 178 | 0.6 |
| 20 | 0.03 | 0.04 | 0.03 | 2.21 | 2.36 | 2.31 | 7.8 | 7.8 | 7.8 | 0.65 | 0.66 | 0.65 | 179 | 0.3 | 0.06 | 0.06 | 0.06 | 2.18 | 2.27 | 2.22 | 7.6 | 7.6 | 7.6 | 0.74 | 0.75 | 0.75 | 175 | 0.7 |
| 21 | 0.03 | 0.04 | 0.04 | 2.16 | 2.26 | 2.20 | 7.8 | 7.9 | 7.9 | 0.65 | 0.65 | 0.65 | 178 | 0.4 | 0.06 | 0.06 | 0.06 | 2.18 | 2.27 | 2.23 | 7.6 | 7.6 | 7.6 | 0.74 | 0.75 | 0.75 | 177 | 0.8 |
| 22 | 0.04 | 0.04 | 0.04 | 2.21 | 2.32 | 2.26 | 7.9 | 7.9 | 7.9 | 0.64 | 0.65 | 0.65 | 178 | 0.4 | 0.06 | 0.06 | 0.06 | 2.22 | 2.28 | 2.24 | 7.6 | 7.6 | 7.6 | 0.74 | 0.75 | 0.74 | 176 | 0.6 |
| 23 | 0.04 | 0.04 | 0.04 | 2.21 | 2.26 | 2.26 | 7.8 | 7.9 | 7.9 | 0.64 | 0.66 | 0.65 | 177 | 0.3 | 0.06 | 0.08 | 0.06 | 2.18 | 2.29 | 2.08 | 7.5 | 7.6 | 7.6 | 0.74 | 0.76 | 0.75 | 175 | 0.6 |
| 24 | 0.04 | 0.04 | 0.04 | 2.21 | 2.26 | 2.24 | 7.8 | 7.9 | 7.9 | 0.64 | 0.67 | 0.65 | 179 | 0.4 | 0.06 | 0.06 | 0.06 | 2.18 | 2.28 | 2.23 | 7.5 | 7.6 | 7.6 | 0.74 | 0.75 | 0.75 | 178 | 0.5 |
| 25 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.06 | 0.06 | 0.06 | 2.05 | 2.22 | 2.48 | 7.5 | 7.6 | 7.6 | 0.75 | 0.76 | 0.75 | 176 | 0.8 |
| 26 | 0.04 | 0.06 | 0.04 | 2.01 | 2.32 | 2.10 | 7.8 | 7.9 | 7.9 | 0.66 | 0.67 | 0.67 | 178 | 0.2 | 0.06 | 0.06 | 0.06 | 2.12 | 2.21 | 2.18 | 7.5 | 7.6 | 7.6 | 0.75 | 0.76 | 0.75 | 177 | 0.6 |
| 27 | 0.04 | 0.04 | 0.04 | 2.01 | 2.16 | 2.13 | 7.9 | 7.9 | 7.9 | 0.66 | 0.67 | 0.66 | 178 | 0.1 | 0.06 | 0.08 | 0.06 | 2.08 | 2.21 | 2.17 | 7.5 | 7.6 | 7.5 | 0.75 | 0.75 | 0.75 | 174 | 0.4 |
| 28 | 0.04 | 0.04 | 0.04 | 2.01 | 2.21 | 2.14 | 7.9 | 7.9 | 7.9 | 0.65 | 0.66 | 0.65 | 174 | 0.5 | 0.06 | 0.06 | 0.06 | 2.08 | 2.22 | 2.17 | 7.6 | 7.6 | 7.6 | 0.75 | 0.76 | 0.75 | 174 | 0.5 |
| 29 | 0.04 | 0.04 | 0.04 | 2.11 | 2.26 | 2.18 | 7.9 | 7.9 | 7.9 | 0.65 | 0.65 | 0.65 | 175 | 0.4 | 0.06 | 0.06 | 0.06 | 2.10 | 2.22 | 2.18 | 7.6 | 7.6 | 7.6 | 0.75 | 0.75 | 0.75 | 170 | 0.5 |
| 30 | 0.04 | 0.04 | 0.04 | 2.21 | 2.32 | 2.27 | 7.9 | 8.0 | 7.9 | 0.64 | 0.66 | 0.65 | 174 | 0.5 | 0.06 | 0.06 | 0.06 | 2.18 | 2.22 | 2.20 | 7.6 | 7.6 | 7.6 | 0.74 | 0.75 | 0.75 | 175 | 0.5 |
| Monthly Min/Max/ Avg | 0.03 | 0.06 | 0.04 | 2.01 | 2.42 | 2.22 | 7.6 | 8.0 | 7.8 | 0.62 | 0.67 | 0.65 | 178 | 0.4 | 0.06 | 0.08 | 0.06 | 1.88 | 2.29 | 2.15 | 7.5 | 7.6 | 7.6 | 0.71 | 0.77 | 0.75 | 177 | 0.8 |

NOTES: '--' indicates plant offline

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

September 2024

| 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 | 10 | 4 | 1 | 9 | 4 | -- | -- | -- | 1 | 8 | 4 | -- | -- | -- | 1 | 9 | 4 | 2 | 15 | 7 | 2 | 21 | 6 | 1 | 6 | 4 | |
| 2 | 1 | 4 | 1 | 1 | 34 | 1 | 1 | 12 | 2 | 1 | 2 | 1 | 1 | 22 | 4 | 1 | 2 | 1 | 1 | 4 | 1 | 1 | 4 | 1 | 1 | 7 | 3 | |
| 3 | 1 | 1 | 1 | 1 | 12 | 1 | 1 | 5 | 1 | 1 | 8 | 2 | 1 | 3 | 2 | 2 | 18 | 4 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 4 | 2 | |
| 4 | 1 | 8 | 3 | -- | -- | -- | 1 | 8 | 2 | 1 | 6 | 3 | 1 | 4 | 2 | 1 | 8 | 3 | 1 | 16 | 6 | 1 | 2 | 1 | 1 | 3 | 2 | |
| 5 | 1 | 6 | 2 | 1 | 10 | 3 | 1 | 8 | 1 | 1 | 5 | 2 | 1 | 4 | 2 | 1 | 4 | 2 | 2 | 7 | 4 | -- | -- | -- | 2 | 6 | 3 | |
| 6 | 1 | 4 | 2 | 1 | 4 | 2 | 2 | 7 | 4 | 3 | 9 | 6 | -- | -- | -- | 1 | 3 | 2 | 1 | 4 | 3 | 2 | 19 | 5 | 1 | 5 | 3 | |
| 7 | -- | -- | -- | 1 | 4 | 1 | 1 | 4 | 2 | 2 | 24 | 5 | 4 | 17 | 7 | -- | -- | -- | 1 | 3 | 2 | 2 | 5 | 3 | 1 | 3 | 2 | |
| 8 | 2 | 9 | 4 | 1 | 8 | 2 | 1 | 2 | 1 | 1 | 24 | 3 | 2 | 6 | 3 | 2 | 24 | 4 | 2 | 17 | 5 | 1 | 4 | 2 | 1 | 3 | 1 | |
| 9 | 1 | 5 | 3 | 1 | 5 | 2 | -- | -- | -- | -- | -- | -- | 1 | 4 | 2 | 1 | 4 | 2 | 1 | 12 | 3 | 1 | 2 | 1 | 1 | 15 | 4 | |
| 10 | 1 | 3 | 1 | 1 | 2 | 1 | 1 | 15 | 2 | -- | -- | -- | 1 | 3 | 1 | 1 | 2 | 1 | 1 | 3 | 2 | 1 | 19 | 3 | 1 | 3 | 1 | |
| 11 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 3 | 2 | 1 | 5 | 4 | 4 | 17 | 7 | -- | -- | -- | 1 | 2 | 1 | 1 | 4 | 3 | 1 | 3 | 2 | |
| 12 | -- | -- | -- | 1 | 2 | 1 | 1 | 3 | 1 | 1 | 6 | 3 | 2 | 6 | 4 | 2 | 15 | 4 | 3 | 13 | 5 | 1 | 22 | 2 | 1 | 3 | 1 | |
| 13 | 1 | 8 | 3 | 2 | 7 | 3 | 1 | 2 | 1 | 1 | 8 | 2 | 2 | 6 | 3 | 1 | 4 | 2 | 2 | 5 | 3 | 1 | 3 | 1 | -- | -- | -- | |
| 14 | 1 | 5 | 2 | 1 | 13 | 3 | 2 | 7 | 3 | 1 | 3 | 2 | 1 | 5 | 2 | 1 | 3 | 1 | 1 | 4 | 2 | -- | -- | -- | 1 | 32 | 4 | |
| 15 | 1 | 4 | 1 | 1 | 17 | 2 | 1 | 3 | 2 | -- | -- | -- | 3 | 19 | 5 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 17 | 3 | 1 | 16 | 3 | |
| 16 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 9 | 3 | 2 | 5 | 3 | 2 | 20 | 4 | -- | -- | -- | 1 | 4 | 2 | 1 | 2 | 1 | |
| 17 | -- | -- | -- | 1 | 11 | 3 | 1 | 2 | 1 | 1 | 44 | 4 | 1 | 5 | 3 | 2 | 5 | 3 | 2 | 24 | 5 | 1 | 3 | 2 | 1 | 11 | 2 | |
| 18 | 7 | 15 | 10 | 1 | 4 | 2 | 1 | 17 | 3 | 1 | 4 | 2 | 1 | 3 | 2 | 1 | 3 | 2 | 2 | 5 | 3 | -- | -- | -- | 1 | 7 | 3 | |
| 19 | 2 | 24 | 5 | 1 | 3 | 1 | 1 | 3 | 1 | -- | -- | -- | 3 | 16 | 5 | 1 | 2 | 1 | 1 | 4 | 1 | 1 | 19 | 3 | 1 | 4 | 2 | |
| 20 | 1 | 13 | 4 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 30 | 4 | 1 | 6 | 3 | 1 | 15 | 2 | 1 | 1 | 1 | 1 | 4 | 2 | 1 | 7 | 1 | |
| 21 | 1 | 3 | 1 | 1 | 13 | 3 | 1 | 25 | 1 | 1 | 5 | 2 | 1 | 4 | 3 | 1 | 3 | 2 | 2 | 20 | 4 | 1 | 4 | 2 | 1 | 1 | 1 | |
| 22 | 1 | 8 | 2 | 1 | 3 | 2 | 1 | 11 | 4 | 1 | 17 | 4 | 1 | 4 | 1 | 1 | 2 | 1 | 1 | 4 | 2 | 1 | 4 | 1 | 1 | 12 | 2 | |
| 23 | 1 | 6 | 2 | 1 | 4 | 1 | 1 | 6 | 2 | 1 | 15 | 4 | 2 | 13 | 4 | 1 | 20 | 2 | 1 | 3 | 1 | 1 | 17 | 2 | 1 | 3 | 1 | |
| 24 | 1 | 9 | 1 | 1 | 7 | 1 | 1 | 8 | 1 | 1 | 12 | 3 | 1 | 4 | 2 | 1 | 5 | 2 | 1 | 11 | 2 | 1 | 3 | 1 | 1 | 11 | 1 | |
| 25 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 26 | 1 | 7 | 4 | 3 | 10 | 6 | 2 | 14 | 6 | 3 | 25 | 6 | -- | -- | -- | -- | -- | -- | 2 | 20 | 5 | 1 | 7 | 3 | 1 | 19 | 3 | |
| 27 | 3 | 11 | 5 | 4 | 16 | 7 | 3 | 18 | 7 | 4 | 10 | 7 | 7 | 23 | 10 | -- | -- | -- | 4 | 7 | 5 | 2 | 8 | 4 | 2 | 8 | 3 | |
| 28 | 1 | 10 | 3 | 2 | 11 | 5 | 6 | 18 | 11 | 4 | 17 | 8 | 3 | 39 | 6 | 5 | 34 | 8 | 1 | 6 | 3 | 1 | 16 | 3 | 1 | 4 | 2 | |
| 29 | 1 | 10 | 2 | 1 | 5 | 3 | -- | -- | -- | 3 | 12 | 5 | 1 | 7 | 3 | 3 | 8 | 5 | 6 | 15 | 9 | 3 | 9 | 5 | 1 | 17 | 4 | |
| 30 | -- | -- | -- | 1 | 3 | 2 | -- | -- | -- | 1 | 20 | 4 | -- | -- | -- | 1 | 5 | 3 | 3 | 7 | 5 | 2 | 6 | 4 | 2 | 7 | 4 | |
| Monthly Min/Max/Avg | 1 | 24 | 3 | 1 | 34 | 2 | 1 | 25 | 3 | 1 | 44 | 4 | 1 | 39 | 4 | 1 | 34 | 3 | 1 | 24 | 3 | 1 | 22 | 3 | 1 | 32 | 2 | |

NOTE: '--' indicates filter offline

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

September 2024

| 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 | 18 | 8 | 2 | 19 | 6 | 2 | 21 | 9 | 1 | 13 | 6 | 1 | 10 | 5 | 2 | 21 | 10 | 5 | 36 | 12 | 5 | 31 | 13 | 1 | 10 | 5 |
| 2 | 1 | 25 | 2 | 1 | 10 | 5 | 1 | 10 | 2 | 1 | 22 | 6 | 4 | 22 | 11 | 1 | 4 | 2 | 3 | 7 | 5 | 1 | 7 | 5 | 3 | 19 | 9 |
| 3 | 3 | 17 | 9 | 1 | 23 | 5 | 5 | 18 | 11 | 2 | 8 | 5 | 1 | 6 | 3 | 3 | 22 | 9 | 8 | 29 | 15 | 9 | 34 | 18 | 2 | 6 | 3 |
| 4 | 2 | 26 | 8 | 2 | 15 | 7 | 1 | 11 | 4 | 2 | 24 | 13 | 5 | 23 | 13 | 1 | 6 | 2 | 3 | 29 | 6 | 2 | 13 | 8 | 5 | 21 | 10 |
| 5 | 4 | 17 | 10 | 1 | 23 | 4 | 7 | 23 | 12 | 3 | 11 | 7 | 2 | 9 | 4 | 5 | 27 | 10 | 7 | 25 | 14 | 18 | 26 | 22 | 2 | 15 | 4 |
| 6 | 2 | 34 | 11 | 6 | 22 | 12 | 2 | 11 | 6 | 2 | 25 | 9 | 9 | 30 | 17 | 2 | 7 | 4 | 4 | 36 | 12 | 7 | 23 | 15 | 7 | 24 | 15 |
| 7 | 4 | 16 | 10 | 1 | 10 | 4 | 1 | 24 | 9 | 4 | 12 | 7 | 3 | 12 | 7 | 8 | 28 | 14 | 6 | 18 | 11 | 4 | 25 | 7 | 3 | 10 | 5 |
| 8 | 2 | 7 | 4 | 1 | 22 | 10 | 3 | 12 | 7 | 1 | 5 | 3 | 7 | 24 | 12 | 2 | 11 | 5 | 4 | 31 | 13 | 6 | 28 | 15 | 6 | 22 | 14 |
| 9 | 6 | 20 | 13 | 2 | 14 | 6 | 1 | 9 | 3 | 4 | 17 | 9 | 2 | 10 | 6 | 2 | 25 | 10 | 4 | 17 | 10 | 3 | 25 | 9 | 2 | 9 | 5 |
| 10 | 3 | 24 | 7 | 1 | 22 | 5 | 5 | 18 | 10 | 2 | 7 | 4 | 1 | 20 | 8 | 3 | 11 | 7 | 3 | 26 | 15 | 5 | 19 | 11 | 4 | 27 | 10 |
| 11 | 8 | 24 | 15 | 6 | 34 | 11 | 5 | 32 | 13 | -- | -- | -- | 8 | 40 | 12 | 2 | 6 | 4 | 6 | 18 | 12 | 5 | 27 | 19 | 3 | 22 | 12 |
| 12 | 4 | 15 | 8 | 3 | 12 | 6 | 5 | 17 | 8 | 6 | 17 | 9 | 11 | 23 | 15 | 5 | 23 | 10 | 6 | 23 | 13 | 5 | 19 | 9 | 3 | 20 | 7 |
| 13 | 3 | 24 | 13 | 7 | 20 | 13 | 2 | 7 | 4 | 2 | 8 | 5 | 4 | 14 | 9 | 3 | 7 | 5 | 4 | 24 | 10 | 5 | 24 | 11 | 3 | 18 | 8 |
| 14 | 3 | 13 | 7 | 3 | 11 | 6 | 4 | 19 | 9 | 6 | 20 | 11 | 2 | 20 | 6 | 5 | 25 | 10 | 3 | 21 | 9 | 3 | 8 | 4 | 3 | 27 | 9 |
| 15 | 1 | 5 | 3 | 7 | 19 | 10 | 1 | 10 | 3 | 3 | 10 | 5 | 4 | 14 | 7 | 1 | 7 | 3 | 3 | 28 | 12 | 4 | 22 | 8 | 2 | 8 | 4 |
| 16 | 5 | 15 | 10 | 2 | 11 | 6 | 5 | 15 | 10 | 2 | 18 | 8 | 2 | 8 | 4 | 5 | 24 | 11 | 3 | 13 | 6 | 4 | 27 | 14 | 3 | 24 | 9 |
| 17 | 2 | 9 | 5 | 9 | 18 | 12 | 2 | 36 | 5 | 3 | 9 | 6 | 5 | 15 | 9 | 2 | 7 | 4 | 7 | 26 | 15 | 4 | 9 | 6 | 2 | 22 | 10 |
| 18 | 2 | 24 | 11 | 4 | 12 | 7 | 2 | 19 | 7 | 1 | 5 | 3 | 2 | 10 | 5 | 6 | 29 | 13 | 3 | 27 | 8 | 4 | 23 | 10 | 3 | 13 | 5 |
| 19 | 3 | 13 | 8 | 1 | 24 | 4 | 3 | 13 | 8 | 4 | 16 | 9 | 4 | 17 | 10 | 2 | 8 | 5 | 3 | 18 | 10 | 3 | 24 | 11 | 3 | 25 | 12 |
| 20 | 2 | 24 | 10 | 1 | 15 | 10 | 2 | 19 | 5 | 2 | 6 | 4 | 2 | 24 | 5 | 5 | 29 | 11 | 5 | 29 | 11 | 3 | 12 | 7 | 3 | 25 | 12 |
| 21 | 4 | 15 | 8 | 2 | 9 | 5 | 4 | 15 | 8 | 1 | 15 | 7 | 1 | 20 | 5 | 2 | 7 | 3 | 3 | 29 | 12 | 4 | 23 | 10 | 2 | 28 | 6 |
| 22 | 2 | 20 | 4 | 1 | 8 | 2 | 1 | 11 | 4 | 2 | 8 | 5 | 4 | 15 | 9 | 5 | 29 | 11 | 3 | 28 | 7 | 2 | 25 | 9 | 2 | 15 | 8 |
| 23 | 4 | 26 | 9 | 3 | 19 | 7 | 4 | 18 | 9 | 2 | 17 | 7 | 2 | 7 | 4 | 3 | 7 | 5 | 3 | 14 | 9 | 3 | 32 | 8 | 5 | 28 | 12 |
| 24 | 1 | 7 | 4 | 1 | 6 | 3 | 1 | 8 | 4 | 2 | 7 | 4 | 1 | 22 | 6 | 2 | 20 | 6 | 3 | 29 | 10 | 3 | 25 | 8 | 3 | 21 | 8 |
| 25 | 1 | 21 | 9 | 1 | 16 | 7 | 1 | 14 | 4 | 1 | 9 | 2 | 2 | 7 | 3 | 1 | 5 | 3 | 3 | 26 | 8 | 3 | 23 | 7 | 3 | 8 | 5 |
| 26 | 3 | 9 | 6 | 2 | 8 | 4 | 3 | 12 | 6 | 5 | 17 | 9 | 4 | 14 | 8 | 3 | 23 | 9 | 3 | 13 | 8 | 3 | 15 | 9 | 5 | 23 | 12 |
| 27 | 2 | 23 | 14 | 2 | 30 | 14 | 2 | 6 | 4 | 3 | 8 | 5 | 2 | 10 | 5 | 3 | 34 | 13 | 5 | 26 | 13 | 6 | 24 | 13 | 4 | 7 | 5 |
| 28 | 2 | 11 | 6 | 2 | 11 | 6 | 4 | 19 | 9 | 1 | 20 | 5 | 6 | 25 | 13 | 3 | 12 | 6 | 3 | 7 | 5 | 3 | 26 | 6 | 5 | 21 | 10 |
| 29 | 2 | 34 | 12 | 1 | 5 | 3 | 1 | 9 | 4 | 3 | 11 | 7 | 2 | 11 | 6 | 1 | 28 | 3 | 4 | 25 | 11 | 5 | 17 | 9 | 3 | 25 | 8 |
| 30 | 2 | 9 | 6 | 3 | 15 | 8 | 1 | 22 | 7 | 2 | 5 | 3 | 1 | 22 | 5 | 3 | 16 | 8 | 3 | 31 | 10 | 2 | 6 | 4 | 4 | 12 | 8 |
| Monthly Min/Max/Avg | 1 | 34 | 8 | 1 | 34 | 7 | 1 | 36 | 7 | 1 | 25 | 6 | 1 | 40 | 8 | 1 | 34 | 7 | 3 | 36 | 10 | 1 | 34 | 10 | 1 | 28 | 8 |

NOTES: '--' indicates filter offline

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

September 2024

| 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 | 3 | 24 | 11 | 2 | 24 | 8 | 2 | 23 | 9 | 2 | 19 | 8 | 3 | 27 | 11 | 4 | 10 | 6 | 1 | 14 | 6 | 4 | 11 | 6 | 3 | 31 | 10 |
| 2 | 2 | 10 | 6 | 2 | 12 | 7 | 1 | 28 | 13 | 1 | 27 | 6 | 1 | 24 | 5 | 3 | 15 | 8 | 1 | 30 | 10 | 4 | 15 | 10 | 5 | 26 | 13 |
| 3 | 2 | 28 | 12 | 2 | 33 | 14 | 2 | 7 | 4 | 4 | 14 | 7 | 5 | 39 | 9 | 2 | 24 | 4 | 2 | 9 | 5 | 2 | 7 | 4 | 3 | 10 | 5 |
| 4 | 4 | 18 | 9 | 3 | 13 | 7 | 4 | 26 | 12 | 4 | 36 | 17 | 3 | 33 | 13 | 4 | 18 | 9 | 8 | 34 | 16 | 4 | 23 | 11 | 7 | 27 | 14 |
| 5 | 2 | 31 | 15 | 8 | 26 | 15 | 4 | 29 | 15 | 4 | 14 | 9 | 5 | 17 | 11 | 2 | 28 | 9 | 3 | 12 | 7 | 2 | 7 | 4 | 3 | 10 | 6 |
| 6 | 5 | 19 | 11 | 3 | 11 | 6 | 3 | 13 | 7 | 4 | 37 | 16 | 4 | 8 | 6 | 5 | 16 | 10 | 3 | 30 | 16 | 6 | 28 | 15 | 8 | 33 | 17 |
| 7 | 3 | 31 | 11 | 10 | 30 | 19 | 10 | 29 | 18 | 4 | 14 | 9 | 8 | 27 | 15 | 3 | 25 | 7 | 5 | 18 | 11 | 2 | 9 | 6 | 4 | 11 | 7 |
| 8 | 4 | 19 | 12 | 3 | 15 | 7 | 2 | 13 | 6 | 2 | 28 | 8 | 3 | 11 | 6 | 5 | 20 | 10 | 3 | 22 | 5 | 5 | 23 | 13 | 2 | 31 | 12 |
| 9 | 3 | 22 | 7 | 9 | 29 | 17 | 7 | 32 | 16 | 4 | 42 | 11 | 7 | 27 | 15 | 3 | 28 | 8 | 4 | 22 | 11 | 2 | 9 | 5 | 3 | 12 | 7 |
| 10 | 5 | 20 | 11 | 3 | 26 | 8 | 2 | 26 | 4 | 2 | 7 | 4 | 2 | 10 | 5 | 3 | 13 | 8 | 2 | 7 | 3 | 5 | 21 | 11 | 2 | 27 | 11 |
| 11 | 5 | 30 | 15 | 6 | 19 | 12 | 7 | 25 | 14 | 8 | 29 | 15 | 15 | 34 | 22 | 3 | 23 | 13 | -- | -- | -- | 3 | 8 | 6 | 5 | 13 | 9 |
| 12 | 4 | 16 | 7 | 5 | 23 | 12 | 4 | 22 | 10 | 3 | 13 | 6 | 3 | 18 | 8 | 3 | 23 | 8 | 3 | 25 | 8 | 4 | 20 | 10 | 8 | 28 | 13 |
| 13 | 6 | 23 | 12 | 4 | 28 | 13 | 3 | 13 | 7 | 5 | 31 | 11 | 5 | 25 | 12 | 3 | 15 | 7 | 6 | 24 | 13 | 4 | 29 | 13 | 4 | 11 | 7 |
| 14 | 2 | 9 | 4 | 2 | 13 | 6 | 3 | 25 | 10 | 1 | 8 | 4 | 2 | 31 | 8 | 3 | 25 | 12 | 1 | 9 | 4 | 1 | 14 | 6 | 4 | 25 | 10 |
| 15 | 4 | 20 | 9 | 4 | 22 | 8 | 3 | 28 | 7 | 4 | 26 | 8 | 2 | 13 | 5 | 2 | 10 | 5 | 1 | 20 | 10 | 1 | 18 | 8 | 2 | 6 | 4 |
| 16 | 2 | 7 | 4 | 3 | 28 | 9 | 4 | 18 | 8 | 2 | 23 | 7 | 2 | 23 | 13 | 6 | 22 | 13 | 2 | 9 | 4 | 3 | 20 | 6 | 3 | 21 | 10 |
| 17 | 4 | 23 | 10 | 2 | 12 | 6 | 4 | 29 | 12 | 3 | 15 | 8 | 3 | 33 | 11 | 3 | 9 | 5 | 6 | 23 | 12 | 2 | 16 | 8 | 2 | 23 | 5 |
| 18 | 2 | 22 | 7 | 3 | 22 | 9 | 3 | 31 | 11 | 2 | 20 | 10 | 2 | 14 | 7 | 4 | 21 | 10 | 2 | 25 | 5 | 2 | 26 | 12 | 3 | 16 | 8 |
| 19 | 2 | 15 | 8 | 3 | 27 | 11 | 3 | 34 | 7 | 2 | 28 | 7 | 3 | 27 | 13 | 2 | 24 | 9 | 2 | 18 | 9 | 2 | 21 | 6 | 2 | 43 | 10 |
| 20 | 5 | 22 | 11 | 3 | 29 | 11 | 4 | 15 | 8 | 2 | 12 | 6 | 2 | 36 | 14 | 3 | 27 | 8 | 5 | 20 | 11 | 3 | 13 | 6 | 3 | 31 | 7 |
| 21 | 2 | 35 | 9 | 2 | 14 | 6 | 4 | 33 | 9 | 2 | 28 | 12 | 3 | 17 | 7 | 3 | 22 | 9 | 1 | 26 | 7 | 4 | 19 | 10 | 3 | 15 | 7 |
| 22 | 2 | 9 | 5 | 3 | 28 | 8 | 6 | 29 | 14 | 2 | 8 | 5 | 4 | 24 | 12 | 2 | 29 | 12 | 2 | 12 | 6 | 2 | 20 | 4 | 2 | 31 | 13 |
| 23 | 5 | 27 | 12 | 3 | 28 | 12 | 4 | 27 | 8 | 5 | 24 | 12 | 2 | 7 | 4 | 2 | 10 | 5 | 1 | 21 | 10 | 5 | 15 | 9 | 2 | 11 | 6 |
| 24 | 3 | 16 | 6 | 2 | 18 | 5 | 2 | 13 | 5 | 2 | 8 | 4 | 4 | 18 | 9 | 4 | 16 | 8 | 2 | 6 | 4 | 2 | 7 | 4 | 2 | 21 | 9 |
| 25 | 3 | 11 | 8 | 3 | 9 | 5 | 5 | 25 | 12 | 6 | 17 | 11 | 2 | 36 | 13 | 2 | 30 | 10 | 4 | 34 | 8 | 6 | 19 | 12 | 3 | 21 | 6 |
| 26 | 3 | 33 | 12 | 4 | 20 | 10 | 5 | 30 | 11 | 4 | 19 | 6 | 3 | 12 | 8 | 3 | 12 | 7 | 2 | 20 | 7 | 3 | 20 | 9 | 3 | 19 | 11 |
| 27 | 3 | 19 | 6 | 7 | 34 | 17 | 4 | 32 | 8 | 5 | 35 | 11 | 5 | 25 | 13 | 6 | 26 | 16 | 3 | 14 | 9 | 3 | 13 | 8 | 3 | 28 | 9 |
| 28 | 5 | 28 | 12 | 4 | 10 | 5 | 3 | 15 | 8 | 2 | 7 | 5 | 3 | 35 | 13 | 3 | 9 | 6 | 3 | 34 | 12 | 3 | 31 | 14 | 4 | 12 | 8 |
| 29 | 2 | 22 | 5 | 6 | 22 | 13 | 3 | 35 | 11 | 5 | 20 | 11 | 4 | 37 | 8 | 7 | 25 | 14 | 2 | 9 | 5 | 2 | 9 | 5 | 2 | 6 | 4 |
| 30 | 5 | 24 | 12 | 3 | 8 | 5 | 4 | 11 | 7 | 2 | 26 | 6 | 2 | 27 | 11 | 2 | 9 | 6 | 7 | 24 | 13 | 6 | 27 | 14 | 4 | 34 | 10 |
| Monthly Min/Max/Avg | 2 | 35 | 9 | 2 | 34 | 10 | 1 | 35 | 10 | 1 | 42 | 9 | 1 | 39 | 10 | 2 | 30 | 9 | 1 | 34 | 8 | 1 | 31 | 8 | 2 | 43 | 9 |

NOTES: '--' indicates filter offline

1.2.8 Rosedale Filters 1 - 9 Turbidity (NTU)

September 2024

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

September 2024

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

NOTES: ' -- ' indicates filter offline

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

September 2024

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

NOTES: ' -- ' indicates filter offline

1.2.11 Combined Filter Effluent Water Quality

September 2024

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

NOTES: '--' indicates plant offline

1.2.12 Rossdale UV Disinfection - Filters 1 - 3

September 2024

| Filter | 1 | | | | | | 2 | | | | | | 3 | | | | | | Transmittance (%) | | |
|----------------------------|------------------------------|-------|------|------------|------|-------|------------------------------|-------|------|------------|------|-------|------------------------------|-------|------|------------|------|-------|-------------------|------|------|
| | Dosage (mJ/cm ²) | | | Flow (MLD) | | | Dosage (mJ/cm ²) | | | Flow (MLD) | | | Dosage (mJ/cm ²) | | | Flow (MLD) | | | | | |
| | Day | Min | Max | Avg | Min | Max | Total | Min | Max | Avg | Min | Max | Total | Min | Max | Avg | Min | Max | Total | Min | Max |
| 1 | 34.9 | 36.0 | 35.5 | 25.5 | 28.8 | 27.1 | 34.6 | 36.3 | 35.5 | 29.6 | 32.6 | 31.3 | -- | -- | -- | -- | -- | -- | 91.3 | 92.8 | 92.3 |
| 2 | 34.8 | 36.0 | 35.5 | 20.8 | 25.6 | 22.9 | 34.8 | 36.3 | 35.5 | 24.7 | 29.7 | 27.2 | 34.5 | 36.6 | 35.5 | 27.1 | 32.5 | 30.7 | 90.5 | 92.0 | 91.2 |
| 3 | 35.0 | 37.2 | 35.7 | 15.5 | 21.1 | 3.6 | 34.8 | 46.0 | 35.5 | 14.7 | 25.0 | 12.7 | 34.2 | 36.7 | 35.5 | 25.6 | 29.7 | 27.7 | 92.0 | 93.2 | 92.5 |
| 4 | 35.7 | 36.2 | 35.5 | 19.9 | 29.4 | 24.5 | -- | -- | -- | -- | -- | -- | 35.4 | 36.6 | 35.5 | 21.0 | 26.7 | 23.4 | 92.2 | 93.3 | 92.4 |
| 5 | 34.8 | 36.0 | 35.5 | 26.2 | 30.5 | 27.6 | 34.7 | 36.3 | 35.5 | 25.3 | 34.0 | 24.6 | 34.7 | 40.4 | 35.6 | 16.1 | 25.6 | 3.9 | 92.4 | 94.2 | 93.4 |
| 6 | 34.8 | 36.7 | 35.5 | 22.0 | 28.3 | 26.3 | 34.9 | 36.4 | 35.5 | 27.9 | 31.7 | 30.0 | 34.3 | 36.6 | 35.5 | 25.0 | 31.8 | 28.5 | 93.8 | 94.4 | 94.0 |
| 7 | -- | -- | -- | -- | -- | -- | 34.8 | 36.5 | 35.6 | 26.2 | 30.1 | 28.1 | 33.7 | 36.7 | 35.5 | 26.7 | 32.2 | 29.9 | 92.5 | 94.4 | 94.1 |
| 8 | 35.0 | 36.1 | 35.6 | 30.1 | 34.2 | 12.2 | 35.0 | 44.4 | 35.7 | 19.1 | 36.9 | 8.0 | 34.0 | 42.3 | 35.5 | 17.4 | 27.9 | 19.3 | 92.5 | 94.8 | 94.3 |
| 9 | 34.9 | 36.2 | 35.6 | 28.3 | 34.4 | 31.9 | 34.9 | 36.1 | 35.5 | 30.2 | 37.0 | 35.5 | -- | -- | -- | -- | -- | -- | 94.1 | 94.9 | 94.6 |
| 10 | 35.0 | 36.2 | 35.6 | 21.5 | 28.4 | 24.7 | 35.2 | 39.3 | 36.4 | 23.3 | 30.2 | 26.6 | 34.9 | 36.3 | 35.6 | 24.0 | 28.5 | 25.0 | 94.1 | 95.1 | 95.0 |
| 11 | 35.5 | 38.1 | 37.2 | 11.9 | 22.8 | 14.3 | 36.8 | 42.0 | 39.5 | 20.9 | 24.8 | 22.8 | 34.6 | 36.8 | 35.6 | 22.8 | 27.3 | 24.4 | 94.4 | 95.4 | 95.1 |
| 12 | -- | -- | -- | -- | -- | -- | 37.2 | 39.4 | 38.8 | 12.2 | 22.7 | 1.7 | 34.7 | 38.7 | 36.1 | 18.5 | 26.8 | 22.1 | 94.2 | 94.5 | 94.4 |
| 13 | 34.9 | 36.3 | 35.6 | 24.5 | 28.7 | 27.3 | 35.0 | 36.2 | 35.6 | 29.1 | 30.2 | 13.8 | 35.5 | 52.6 | 36.2 | 12.5 | 20.2 | 0.7 | 94.2 | 94.8 | 94.5 |
| 14 | 35.0 | 36.6 | 35.7 | 22.5 | 27.3 | 24.2 | 35.2 | 36.5 | 35.7 | 25.7 | 29.7 | 27.4 | 34.9 | 36.2 | 35.6 | 22.5 | 28.3 | 12.8 | 94.8 | 95.2 | 95.1 |
| 15 | 36.2 | 44.9 | 41.4 | 18.0 | 22.7 | 19.6 | 35.4 | 45.4 | 39.9 | 21.2 | 25.9 | 22.9 | 34.7 | 36.3 | 35.6 | 23.8 | 27.4 | 25.1 | 94.7 | 95.5 | 95.1 |
| 16 | 39.4 | 48.8 | 41.0 | 17.1 | 22.0 | 2.5 | 44.4 | 49.3 | 47.2 | 13.4 | 21.5 | 9.0 | 34.8 | 40.4 | 37.6 | 20.1 | 24.3 | 22.1 | 95.3 | 95.5 | 95.4 |
| 17 | -- | -- | -- | -- | -- | -- | 35.1 | 36.8 | 35.7 | 25.7 | 30.4 | 15.8 | 38.7 | 43.1 | 40.8 | 18.2 | 20.6 | 8.6 | 94.1 | 95.4 | 94.7 |
| 18 | 35.3 | 36.0 | 35.6 | 27.1 | 27.6 | 0.4 | 34.8 | 39.1 | 36.9 | 25.5 | 28.5 | 27.3 | 34.1 | 38.0 | 35.7 | 22.4 | 27.4 | 14.7 | 94.1 | 95.6 | 95.5 |
| 19 | 35.2 | 37.9 | 35.9 | 24.4 | 27.4 | 26.3 | 37.4 | 47.1 | 42.2 | 21.7 | 25.6 | 23.7 | 34.9 | 37.9 | 36.0 | 23.6 | 26.5 | 25.1 | 94.8 | 95.8 | 95.4 |
| 20 | 35.5 | 41.0 | 38.5 | 22.1 | 25.8 | 23.5 | 44.9 | 52.8 | 48.4 | 19.0 | 22.1 | 11.6 | 35.8 | 42.8 | 39.5 | 20.4 | 24.2 | 22.0 | 95.5 | 95.8 | 95.6 |
| 21 | 40.1 | 47.2 | 43.2 | 18.4 | 22.7 | 20.1 | 35.1 | 36.3 | 35.7 | 28.9 | 30.4 | 11.6 | 37.1 | 45.5 | 43.0 | 18.0 | 23.7 | 12.9 | 95.3 | 95.8 | 95.5 |
| 22 | 35.5 | 59.6 | 39.2 | 14.0 | 27.0 | 14.2 | 35.4 | 41.4 | 39.1 | 25.5 | 29.6 | 26.9 | 34.1 | 38.0 | 35.9 | 23.0 | 28.0 | 25.8 | 95.6 | 96.0 | 95.8 |
| 23 | 35.2 | 39.4 | 36.5 | 23.3 | 30.1 | 25.7 | 40.0 | 47.3 | 42.7 | 21.6 | 25.8 | 23.7 | 35.2 | 43.6 | 37.5 | 20.5 | 26.7 | 23.4 | 95.4 | 95.9 | 95.7 |
| 24 | 33.1 | 110.8 | 40.8 | 17.3 | 32.2 | 20.4 | 35.3 | 124.7 | 42.7 | 19.9 | 34.3 | 20.6 | 34.9 | 101.2 | 42.6 | 12.8 | 32.6 | 18.0 | 95.6 | 96.1 | 95.8 |
| 25 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 95.6 | 95.6 | 95.6 |
| 26 | 34.3 | 43.6 | 36.3 | 21.6 | 30.3 | 18.1 | 35.0 | 40.5 | 36.5 | 26.3 | 31.0 | 21.7 | 34.4 | 37.9 | 35.8 | 24.2 | 30.1 | 20.3 | 95.5 | 95.6 | 95.6 |
| 27 | 35.0 | 40.2 | 35.9 | 22.6 | 29.9 | 27.2 | 35.2 | 40.5 | 35.9 | 25.7 | 30.4 | 11.4 | 33.8 | 40.7 | 35.9 | 21.7 | 29.5 | 26.2 | 95.5 | 96.1 | 95.8 |
| 28 | 35.4 | 58.2 | 45.2 | 15.7 | 24.4 | 20.4 | 35.3 | 42.4 | 38.4 | 26.1 | 33.5 | 29.0 | 35.2 | 37.9 | 36.8 | 17.6 | 24.2 | 2.0 | 94.8 | 96.2 | 95.6 |
| 29 | 40.6 | 60.5 | 57.0 | 12.1 | 16.5 | 5.6 | 35.4 | 48.0 | 42.1 | 22.1 | 29.5 | 25.5 | -- | -- | -- | -- | -- | -- | 95.1 | 96.2 | 95.8 |
| 30 | -- | -- | -- | -- | -- | -- | 46.9 | 63.9 | 53.6 | 17.4 | 22.3 | 20.2 | -- | -- | -- | -- | -- | -- | 95.9 | 96.5 | 96.1 |
| Monthly Total | | | | | | 490.8 | | | | | | 590.6 | | | | | | 494.6 | | | |
| Monthly Min/Max/Avg | 33.1 | 110.8 | 38.2 | 11.9 | 34.4 | | 34.6 | 124.7 | 38.8 | 12.2 | 37.0 | | 33.7 | 101.2 | 36.8 | 12.5 | 32.6 | | 90.5 | 96.5 | 94.7 |

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

September 2024

| Filter | 4 | | | | | | 5 | | | | | | 6 | | | | | | Transmittance (%) | | |
|----------------------------|------------------------------|-------|------|------------|------|-------|------------------------------|------|------|------------|------|-------|------------------------------|------|------|------------|------|-------|-------------------|------|------|
| | Dosage (mJ/cm ²) | | | Flow (MLD) | | | Dosage (mJ/cm ²) | | | Flow (MLD) | | | Dosage (mJ/cm ²) | | | Flow (MLD) | | | | | |
| | Day | Min | Max | Avg | Min | Max | Total | Min | Max | Avg | Min | Max | Total | Min | Max | Avg | Min | Max | Total | Min | Max |
| 1 | 34.7 | 36.8 | 35.7 | 23.0 | 26.6 | 24.6 | -- | -- | -- | -- | -- | -- | 35.1 | 35.9 | 35.6 | 27.1 | 31.2 | 29.0 | 91.3 | 92.8 | 92.3 |
| 2 | 35.0 | 50.9 | 36.2 | 10.6 | 23.1 | 0.5 | 34.9 | 36.2 | 35.5 | 28.0 | 31.7 | 18.0 | 35.0 | 36.6 | 35.6 | 22.2 | 27.1 | 10.9 | 90.5 | 92.0 | 91.2 |
| 3 | 34.4 | 36.8 | 35.7 | 22.5 | 26.2 | 18.9 | 34.9 | 36.2 | 35.5 | 26.5 | 29.4 | 28.0 | 35.1 | 36.2 | 35.6 | 26.1 | 33.9 | 14.7 | 92.0 | 93.2 | 92.5 |
| 4 | 35.8 | 36.8 | 35.6 | 23.5 | 31.2 | 27.2 | 35.3 | 36.1 | 35.5 | 22.3 | 26.7 | 23.8 | 35.7 | 36.0 | 35.6 | 28.8 | 34.5 | 31.3 | 92.2 | 93.3 | 92.4 |
| 5 | 34.8 | 35.9 | 35.8 | 24.3 | 27.4 | 24.6 | 35.0 | 36.1 | 35.5 | 21.0 | 22.6 | 11.3 | 35.1 | 36.2 | 35.6 | 27.7 | 32.9 | 30.8 | 92.4 | 94.2 | 93.4 |
| 6 | 35.0 | 36.5 | 35.7 | 27.7 | 32.0 | 0.9 | -- | -- | -- | -- | -- | -- | 35.0 | 51.0 | 35.6 | 13.0 | 29.1 | 14.8 | 93.8 | 94.4 | 94.0 |
| 7 | 34.9 | 36.7 | 35.7 | 29.4 | 34.0 | 32.0 | 35.1 | 36.1 | 35.6 | 24.4 | 33.4 | 16.0 | -- | -- | -- | -- | -- | -- | 92.5 | 94.4 | 94.1 |
| 8 | 34.9 | 45.0 | 35.7 | 18.4 | 33.1 | 28.4 | 34.5 | 36.1 | 35.6 | 27.6 | 33.0 | 30.7 | 35.1 | 36.0 | 35.6 | 24.6 | 36.7 | 27.5 | 92.5 | 94.8 | 94.3 |
| 9 | -- | -- | -- | -- | -- | -- | 35.0 | 36.3 | 35.6 | 23.5 | 28.3 | 26.3 | 35.2 | 35.9 | 35.6 | 27.4 | 33.1 | 31.5 | 94.1 | 94.9 | 94.6 |
| 10 | -- | -- | -- | -- | -- | -- | 35.4 | 43.3 | 38.7 | 18.3 | 23.5 | 10.9 | 35.2 | 36.1 | 35.7 | 23.7 | 30.7 | 26.5 | 94.1 | 95.1 | 95.0 |
| 11 | 34.9 | 36.6 | 35.7 | 25.3 | 30.5 | 27.5 | 34.8 | 36.0 | 35.6 | 24.6 | 31.5 | 10.1 | -- | -- | -- | -- | -- | -- | 94.4 | 95.4 | 95.1 |
| 12 | 34.9 | 39.5 | 36.4 | 21.0 | 30.4 | 25.2 | 34.9 | 36.1 | 35.6 | 24.0 | 31.5 | 27.2 | 35.0 | 36.0 | 35.6 | 27.0 | 35.1 | 29.9 | 94.2 | 94.5 | 94.4 |
| 13 | 35.1 | 45.5 | 40.3 | 19.2 | 23.4 | 21.4 | 35.1 | 38.2 | 36.2 | 21.8 | 25.8 | 23.3 | 34.8 | 36.0 | 35.6 | 25.5 | 29.3 | 27.2 | 94.2 | 94.8 | 94.5 |
| 14 | 38.2 | 57.4 | 40.5 | 14.8 | 22.9 | 2.7 | 37.3 | 45.6 | 41.8 | 18.2 | 22.2 | 10.3 | 35.2 | 36.2 | 35.7 | 22.9 | 26.5 | 24.5 | 94.8 | 95.2 | 95.1 |
| 15 | -- | -- | -- | -- | -- | -- | 35.1 | 36.1 | 35.6 | 24.3 | 28.5 | 13.2 | 35.3 | 73.9 | 36.0 | 10.1 | 25.8 | 2.1 | 94.7 | 95.5 | 95.1 |
| 16 | 34.5 | 44.0 | 38.0 | 22.1 | 27.7 | 24.1 | 35.1 | 36.9 | 35.8 | 23.9 | 27.8 | 25.6 | 35.3 | 36.4 | 35.6 | 30.4 | 32.1 | 16.1 | 95.3 | 95.5 | 95.4 |
| 17 | 35.5 | 42.9 | 38.3 | 21.1 | 26.5 | 24.4 | 35.4 | 44.4 | 39.0 | 18.4 | 24.4 | 21.8 | 35.1 | 37.1 | 35.6 | 25.7 | 31.0 | 28.8 | 94.1 | 95.4 | 94.7 |
| 18 | 41.8 | 50.2 | 47.5 | 18.8 | 21.8 | 20.3 | 43.7 | 50.1 | 47.8 | 17.7 | 18.8 | 9.0 | 35.4 | 38.3 | 36.2 | 22.1 | 25.8 | 24.3 | 94.1 | 95.6 | 95.5 |
| 19 | -- | -- | -- | -- | -- | -- | 35.1 | 39.3 | 38.1 | 23.5 | 24.1 | 7.2 | 36.9 | 55.0 | 40.6 | 15.5 | 22.2 | 14.9 | 94.8 | 95.8 | 95.4 |
| 20 | 37.9 | 45.1 | 40.1 | 22.6 | 27.0 | 11.6 | 36.8 | 41.8 | 38.8 | 22.3 | 25.3 | 24.0 | 35.3 | 36.0 | 35.6 | 28.7 | 32.0 | 29.4 | 95.5 | 95.8 | 95.6 |
| 21 | 36.8 | 42.2 | 39.4 | 24.0 | 26.3 | 25.2 | 37.2 | 43.7 | 40.0 | 20.7 | 25.2 | 22.5 | 34.8 | 36.1 | 35.7 | 24.6 | 29.4 | 26.7 | 95.3 | 95.8 | 95.5 |
| 22 | 40.6 | 53.4 | 47.6 | 19.5 | 24.8 | 21.7 | 43.0 | 57.4 | 50.7 | 16.6 | 21.2 | 14.6 | 35.5 | 46.6 | 42.0 | 19.6 | 24.8 | 21.5 | 95.6 | 96.0 | 95.8 |
| 23 | 46.4 | 123.4 | 49.7 | 18.6 | 21.5 | 12.3 | 35.1 | 37.3 | 35.6 | 24.6 | 30.8 | 11.7 | 35.4 | 54.9 | 42.0 | 15.7 | 33.4 | 2.3 | 95.4 | 95.9 | 95.7 |
| 24 | 36.3 | 103.7 | 38.8 | 22.7 | 30.5 | 15.0 | 35.3 | 41.4 | 38.0 | 23.2 | 28.7 | 22.0 | 35.2 | 36.5 | 35.6 | 28.1 | 34.0 | 29.3 | 95.6 | 96.1 | 95.8 |
| 25 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 95.6 | 95.6 | 95.6 |
| 26 | 35.1 | 41.2 | 37.0 | 25.8 | 30.0 | 16.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 95.5 | 95.6 | 95.6 |
| 27 | 35.1 | 50.3 | 38.7 | 19.8 | 29.3 | 26.4 | 35.2 | 37.2 | 36.0 | 25.9 | 28.4 | 17.3 | -- | -- | -- | -- | -- | -- | 95.5 | 96.1 | 95.8 |
| 28 | 35.1 | 44.8 | 40.4 | 24.4 | 31.4 | 24.3 | 35.1 | 44.6 | 39.1 | 22.5 | 27.6 | 25.3 | 35.3 | 35.9 | 35.6 | 29.5 | 31.8 | 11.5 | 94.8 | 96.2 | 95.6 |
| 29 | 36.0 | 50.4 | 43.2 | 21.4 | 28.6 | 25.0 | 40.7 | 54.6 | 47.8 | 14.0 | 23.2 | 19.3 | 34.7 | 36.1 | 35.7 | 26.2 | 30.6 | 28.4 | 95.1 | 96.2 | 95.8 |
| 30 | 36.2 | 55.7 | 47.3 | 20.1 | 31.5 | 22.2 | -- | -- | -- | -- | -- | -- | 35.3 | 45.1 | 38.5 | 22.0 | 27.8 | 25.2 | 95.9 | 96.5 | 96.1 |
| Monthly Total | | | | | | 502.8 | | | | | | 469.1 | | | | | | 559.3 | | | |
| Monthly Min/Max/Avg | 34.4 | 123.4 | 39.4 | 10.6 | 34.0 | | 34.5 | 57.4 | 38.4 | 14.0 | 33.4 | | 34.7 | 73.9 | 36.5 | 10.1 | 36.7 | | 90.5 | 96.5 | 94.7 |

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

September 2024

| Filter | 7 | | | | | | 8 | | | | | | 9 | | | | | | Transmittance (%) | | |
|----------------------------|------------------------------|-------|------|------------|------|-------|------------------------------|------|------|------------|------|-------|------------------------------|------|------|------------|------|-------|-------------------|------|------|
| | Dosage (mJ/cm ²) | | | Flow (MLD) | | | Dosage (mJ/cm ²) | | | Flow (MLD) | | | Dosage (mJ/cm ²) | | | Flow (MLD) | | | | | |
| | Day | Min | Max | Avg | Min | Max | Total | Min | Max | Avg | Min | Max | Total | Min | Max | Avg | Min | Max | Total | Min | Max |
| 1 | 35.0 | 36.1 | 35.5 | 30.3 | 35.0 | 32.4 | 33.5 | 36.0 | 35.1 | 26.3 | 36.7 | 20.0 | 35.0 | 36.7 | 35.6 | 24.2 | 28.0 | 11.7 | 91.3 | 92.8 | 92.3 |
| 2 | 35.0 | 36.1 | 35.5 | 28.7 | 34.0 | 31.5 | 33.7 | 36.0 | 35.4 | 31.1 | 36.3 | 33.9 | 34.0 | 36.1 | 34.5 | 27.1 | 35.9 | 2.0 | 90.5 | 92.0 | 91.2 |
| 3 | 35.1 | 36.1 | 35.6 | 26.1 | 29.1 | 27.5 | 35.0 | 36.0 | 35.6 | 28.4 | 31.6 | 30.0 | 33.8 | 36.3 | 35.6 | 31.3 | 35.8 | 33.8 | 92.0 | 93.2 | 92.5 |
| 4 | 35.1 | 43.4 | 35.6 | 13.3 | 37.1 | 11.5 | 35.1 | 36.7 | 35.6 | 22.5 | 28.7 | 12.6 | 35.6 | 36.3 | 35.5 | 27.6 | 33.8 | 20.5 | 92.2 | 93.3 | 92.4 |
| 5 | 35.1 | 36.1 | 35.6 | 28.5 | 35.4 | 33.0 | -- | -- | -- | -- | -- | -- | 34.9 | 36.1 | 35.6 | 27.4 | 37.4 | 14.6 | 92.4 | 94.2 | 93.4 |
| 6 | 35.0 | 36.2 | 35.6 | 29.9 | 32.7 | 31.7 | 34.5 | 36.0 | 35.6 | 31.3 | 37.2 | 17.4 | 35.0 | 36.4 | 35.6 | 29.8 | 35.9 | 33.7 | 93.8 | 94.4 | 94.0 |
| 7 | 35.1 | 37.4 | 35.6 | 23.0 | 30.2 | 15.6 | 35.1 | 36.1 | 35.6 | 30.1 | 36.8 | 34.5 | 34.9 | 36.2 | 35.6 | 28.7 | 33.9 | 32.2 | 92.5 | 94.4 | 94.1 |
| 8 | 35.2 | 36.0 | 35.6 | 26.9 | 31.3 | 7.9 | 35.1 | 36.0 | 35.6 | 24.7 | 36.5 | 33.4 | 35.0 | 40.1 | 35.6 | 19.3 | 33.4 | 17.8 | 92.5 | 94.8 | 94.3 |
| 9 | 34.5 | 36.1 | 35.6 | 29.5 | 34.9 | 31.9 | 35.1 | 55.0 | 35.6 | 11.2 | 30.7 | 17.3 | 34.2 | 36.4 | 35.5 | 30.0 | 39.7 | 17.2 | 94.1 | 94.9 | 94.6 |
| 10 | 35.0 | 37.0 | 35.6 | 25.9 | 32.8 | 28.9 | 35.1 | 36.0 | 35.6 | 23.7 | 31.8 | 14.0 | 35.0 | 36.3 | 35.6 | 27.5 | 34.9 | 31.1 | 94.1 | 95.1 | 95.0 |
| 11 | 35.1 | 36.9 | 35.6 | 24.1 | 27.6 | 19.4 | 35.1 | 36.1 | 35.6 | 26.6 | 34.0 | 31.0 | 35.0 | 36.2 | 35.6 | 25.9 | 30.7 | 28.8 | 94.4 | 95.4 | 95.1 |
| 12 | 35.1 | 36.1 | 35.6 | 25.3 | 31.3 | 15.1 | 35.0 | 36.0 | 35.6 | 24.1 | 34.0 | 28.0 | 35.1 | 39.6 | 35.6 | 18.2 | 30.6 | 15.0 | 94.2 | 94.5 | 94.4 |
| 13 | 34.9 | 36.1 | 35.6 | 28.1 | 30.1 | 29.0 | 35.1 | 36.0 | 35.6 | 22.6 | 25.5 | 13.4 | -- | -- | -- | -- | -- | -- | 94.2 | 94.8 | 94.5 |
| 14 | 35.1 | 36.1 | 35.6 | 24.9 | 28.8 | 26.3 | -- | -- | -- | -- | -- | -- | 34.9 | 36.2 | 35.6 | 26.0 | 31.5 | 28.7 | 94.8 | 95.2 | 95.1 |
| 15 | 35.2 | 96.1 | 35.9 | 22.1 | 25.3 | 12.3 | 35.1 | 36.1 | 35.6 | 23.2 | 29.7 | 27.1 | 35.0 | 36.2 | 35.6 | 22.2 | 30.9 | 28.1 | 94.7 | 95.5 | 95.1 |
| 16 | -- | -- | -- | -- | -- | -- | 35.3 | 36.1 | 35.6 | 26.5 | 30.3 | 28.5 | 35.1 | 36.1 | 35.6 | 23.4 | 27.6 | 25.1 | 95.3 | 95.5 | 95.4 |
| 17 | 35.2 | 36.2 | 35.6 | 26.1 | 31.1 | 23.5 | 35.2 | 37.4 | 35.6 | 18.9 | 27.6 | 24.5 | 34.5 | 37.1 | 35.6 | 20.4 | 31.3 | 7.0 | 94.1 | 95.4 | 94.7 |
| 18 | 35.2 | 36.0 | 35.6 | 26.2 | 29.3 | 28.1 | -- | -- | -- | -- | -- | -- | 35.0 | 36.3 | 35.6 | 28.3 | 31.4 | 30.3 | 94.1 | 95.6 | 95.5 |
| 19 | 35.0 | 38.2 | 36.2 | 23.3 | 27.3 | 25.4 | 35.2 | 36.1 | 35.6 | 27.9 | 32.7 | 15.9 | 35.0 | 36.1 | 35.6 | 25.4 | 30.1 | 28.0 | 94.8 | 95.8 | 95.4 |
| 20 | 36.5 | 36.7 | 44.4 | 23.6 | 23.7 | 0.1 | 35.1 | 36.0 | 35.6 | 26.3 | 29.0 | 27.4 | 35.0 | 37.4 | 36.1 | 22.2 | 26.1 | 23.8 | 95.5 | 95.8 | 95.6 |
| 21 | 34.0 | 36.4 | 35.6 | 25.0 | 30.6 | 26.6 | 35.2 | 36.1 | 35.6 | 25.0 | 27.4 | 26.2 | 36.4 | 58.6 | 37.4 | 13.4 | 23.2 | 3.0 | 95.3 | 95.8 | 95.5 |
| 22 | 34.9 | 37.2 | 35.7 | 25.2 | 29.5 | 26.9 | 35.4 | 41.8 | 37.5 | 20.3 | 25.3 | 13.8 | 34.9 | 36.2 | 35.6 | 25.4 | 30.7 | 24.7 | 95.6 | 96.0 | 95.8 |
| 23 | 35.2 | 38.8 | 36.1 | 23.6 | 29.6 | 26.0 | 35.2 | 36.1 | 35.7 | 25.1 | 34.7 | 25.6 | 35.1 | 36.2 | 35.6 | 26.6 | 30.9 | 28.8 | 95.4 | 95.9 | 95.7 |
| 24 | 35.2 | 113.7 | 36.2 | 32.0 | 34.6 | 18.0 | 34.4 | 36.2 | 35.6 | 28.3 | 31.4 | 24.0 | 35.1 | 68.1 | 35.7 | 12.4 | 36.5 | 22.2 | 95.6 | 96.1 | 95.8 |
| 25 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 95.6 | 95.6 | 95.6 |
| 26 | 35.2 | 37.3 | 35.7 | 24.4 | 31.0 | 15.9 | 35.1 | 36.1 | 35.6 | 29.0 | 32.0 | 23.2 | 35.0 | 36.1 | 35.6 | 29.2 | 31.6 | 23.3 | 95.5 | 95.6 | 95.6 |
| 27 | 33.6 | 36.1 | 35.6 | 27.4 | 31.5 | 29.3 | 34.7 | 36.1 | 35.6 | 26.6 | 31.6 | 29.6 | 34.9 | 36.3 | 35.6 | 25.7 | 31.1 | 28.7 | 95.5 | 96.1 | 95.8 |
| 28 | 35.2 | 39.6 | 38.1 | 15.0 | 28.1 | 21.9 | 35.2 | 45.7 | 35.8 | 19.3 | 27.8 | 19.4 | 35.0 | 41.4 | 37.5 | 21.7 | 28.9 | 25.1 | 94.8 | 96.2 | 95.6 |
| 29 | 35.5 | 45.7 | 37.7 | 20.7 | 26.2 | 1.4 | 34.9 | 36.4 | 35.6 | 26.8 | 32.0 | 30.1 | 34.9 | 42.3 | 37.4 | 14.2 | 31.9 | 25.0 | 95.1 | 96.2 | 95.8 |
| 30 | 33.0 | 37.0 | 35.7 | 25.4 | 33.6 | 29.4 | 35.2 | 36.1 | 35.7 | 26.3 | 30.3 | 27.6 | 35.0 | 36.8 | 35.7 | 25.8 | 32.8 | 29.0 | 95.9 | 96.5 | 96.1 |
| Monthly Total | | | | | | 626.5 | | | | | | 628.6 | | | | | | 639.2 | | | |
| Monthly Min/Max/Avg | 33.0 | 113.7 | 36.2 | 13.3 | 37.1 | | 33.5 | 55.0 | 35.7 | 11.2 | 37.2 | | 33.8 | 68.1 | 35.8 | 12.4 | 39.7 | | 90.5 | 96.5 | 94.7 |

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

September 2024

| Filter | 1 | | | | | | 2 | | | | | | 3 | | | | | | 4 | | | | | | Transmittance (%) | | |
|----------------------------|------------------------------|-------|------|------------|-------|---------|------------------------------|-------|------|------------|-------|---------|------------------------------|-------|------|------------|-------|---------|------------------------------|-------|------|------------|------|-------|-------------------|------|------|
| | Dosage (mJ/cm ²) | | | Flow (MLD) | | | Dosage (mJ/cm ²) | | | Flow (MLD) | | | Dosage (mJ/cm ²) | | | Flow (MLD) | | | Dosage (mJ/cm ²) | | | 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 | 45.9 | 76.8 | 64.9 | 73.5 | 92.4 | 85.3 | 45.7 | 80.2 | 65.8 | 71.6 | 90.9 | 83.1 | 45.4 | 73.5 | 62.0 | 74.0 | 91.3 | 85.3 | -- | -- | -- | -- | -- | -- | 90.1 | 91.5 | 90.6 |
| 2 | 49.9 | 73.8 | 70.0 | 72.5 | 96.9 | 87.7 | 63.3 | 73.5 | 66.1 | 72.1 | 94.5 | 85.3 | 67.7 | 78.1 | 70.3 | 75.0 | 97.4 | 88.1 | -- | -- | -- | -- | -- | -- | 90.3 | 90.8 | 90.4 |
| 3 | 51.2 | 60.5 | 56.2 | 80.0 | 98.6 | 90.3 | 46.9 | 78.2 | 53.5 | 79.0 | 97.7 | 88.3 | 47.8 | 82.5 | 54.8 | 81.7 | 98.3 | 91.1 | -- | -- | -- | -- | -- | -- | 90.8 | 92.2 | 91.7 |
| 4 | 57.4 | 93.6 | 60.3 | 75.0 | 150.0 | 91.9 | 51.7 | 183.7 | 54.9 | 55.2 | 120.2 | 89.1 | 49.6 | 126.5 | 56.5 | 81.1 | 100.7 | 91.8 | -- | -- | -- | -- | -- | -- | 91.6 | 92.3 | 92.2 |
| 5 | 59.5 | 71.4 | 64.7 | 79.5 | 96.0 | 90.0 | 54.1 | 64.9 | 58.4 | 77.3 | 93.5 | 87.8 | 55.0 | 65.6 | 59.2 | 78.9 | 95.3 | 90.2 | 41.3 | 166.6 | 99.7 | 25.6 | 25.6 | 0.1 | 92.1 | 92.9 | 92.5 |
| 6 | 62.3 | 76.3 | 65.8 | 81.3 | 105.5 | 95.0 | 56.0 | 69.0 | 59.6 | 77.9 | 102.9 | 92.3 | 57.0 | 69.9 | 60.1 | 81.2 | 104.2 | 95.4 | -- | -- | -- | -- | -- | -- | 92.6 | 93.2 | 92.9 |
| 7 | 64.8 | 74.6 | 69.5 | 85.1 | 104.5 | 96.6 | 58.3 | 68.6 | 62.5 | 81.6 | 103.4 | 94.6 | 59.2 | 67.0 | 62.7 | 87.2 | 104.1 | 97.4 | -- | -- | -- | -- | -- | -- | 93.1 | 94.0 | 93.6 |
| 8 | 65.3 | 76.4 | 73.1 | 79.5 | 104.6 | 91.8 | 58.4 | 70.9 | 66.4 | 76.5 | 103.2 | 89.0 | 59.1 | 70.3 | 66.4 | 79.8 | 104.0 | 91.8 | -- | -- | -- | -- | -- | -- | 93.5 | 93.9 | 93.7 |
| 9 | 64.3 | 77.9 | 69.9 | 79.8 | 105.0 | 94.3 | 59.6 | 72.9 | 64.6 | 78.2 | 101.6 | 92.2 | 64.1 | 72.7 | 66.7 | 81.2 | 104.2 | 95.0 | -- | -- | -- | -- | -- | -- | 93.5 | 94.0 | 93.7 |
| 10 | 62.7 | 76.4 | 68.2 | 81.3 | 107.3 | 93.7 | 59.0 | 75.5 | 65.4 | 77.4 | 102.0 | 90.8 | 63.3 | 78.8 | 69.7 | 80.6 | 104.3 | 94.0 | -- | -- | -- | -- | -- | -- | 93.8 | 94.3 | 94.0 |
| 11 | 49.7 | 100.2 | 39.8 | 58.5 | 107.2 | 47.1 | 61.0 | 87.9 | 74.4 | 69.0 | 106.9 | 45.8 | 68.8 | 86.6 | 36.1 | 72.1 | 107.6 | 47.3 | -- | -- | -- | -- | -- | -- | 94.2 | 95.4 | 95.2 |
| 12 | 69.5 | 80.4 | 75.6 | 78.7 | 105.4 | 93.4 | 64.9 | 77.6 | 71.8 | 78.0 | 101.5 | 90.9 | 69.6 | 81.1 | 76.4 | 80.3 | 104.3 | 93.7 | -- | -- | -- | -- | -- | -- | 94.2 | 94.5 | 94.3 |
| 13 | 47.1 | 83.5 | 69.5 | 74.2 | 100.7 | 88.2 | 67.9 | 78.6 | 73.5 | 72.1 | 99.8 | 85.9 | 72.5 | 85.8 | 79.1 | 73.7 | 101.9 | 88.6 | -- | -- | -- | -- | -- | -- | 94.0 | 94.5 | 94.3 |
| 14 | 46.4 | 53.6 | 50.5 | 68.0 | 90.0 | 80.1 | 71.3 | 88.4 | 79.5 | 65.8 | 87.3 | 77.4 | 46.0 | 91.2 | 80.9 | 68.9 | 88.7 | 80.0 | -- | -- | -- | -- | -- | -- | 94.1 | 94.4 | 94.3 |
| 15 | 49.7 | 58.8 | 54.3 | 70.4 | 88.3 | 79.1 | 48.5 | 88.7 | 72.5 | 66.8 | 86.0 | 76.5 | 44.7 | 89.7 | 63.3 | 68.4 | 87.9 | 78.8 | -- | -- | -- | -- | -- | -- | 94.3 | 94.7 | 94.6 |
| 16 | 48.7 | 54.4 | 51.6 | 69.9 | 90.7 | 81.6 | 45.5 | 86.8 | 68.2 | 67.4 | 85.7 | 79.1 | 46.4 | 92.3 | 72.4 | 69.9 | 88.7 | 81.4 | -- | -- | -- | -- | -- | -- | 94.4 | 94.7 | 94.5 |
| 17 | 50.8 | 58.4 | 53.7 | 70.7 | 89.9 | 82.1 | 49.6 | 87.8 | 71.8 | 68.9 | 86.4 | 79.4 | 83.9 | 96.9 | 89.1 | 71.3 | 89.2 | 81.6 | -- | -- | -- | -- | -- | -- | 94.5 | 94.9 | 94.7 |
| 18 | 48.7 | 57.0 | 51.7 | 72.6 | 98.2 | 88.4 | 45.0 | 79.7 | 65.4 | 69.5 | 96.9 | 85.6 | 79.9 | 91.5 | 84.8 | 73.3 | 98.4 | 88.0 | -- | -- | -- | -- | -- | -- | 94.7 | 94.9 | 94.8 |
| 19 | 48.4 | 52.8 | 50.4 | 76.6 | 98.0 | 90.8 | 75.2 | 84.7 | 78.1 | 76.7 | 95.8 | 88.1 | 80.9 | 90.4 | 84.2 | 79.3 | 98.0 | 90.5 | -- | -- | -- | -- | -- | -- | 94.2 | 94.9 | 94.7 |
| 20 | 46.5 | 53.2 | 50.1 | 79.7 | 99.4 | 91.4 | 73.2 | 81.8 | 77.4 | 78.1 | 96.3 | 88.6 | 77.2 | 86.9 | 82.1 | 79.6 | 98.3 | 91.7 | -- | -- | -- | -- | -- | -- | 94.2 | 95.6 | 95.1 |
| 21 | 47.0 | 58.0 | 52.2 | 75.0 | 98.6 | 89.7 | 72.2 | 87.9 | 80.2 | 71.8 | 96.2 | 87.0 | 77.3 | 93.0 | 85.0 | 75.7 | 97.3 | 89.8 | -- | -- | -- | -- | -- | -- | 94.7 | 95.4 | 95.1 |
| 22 | 55.3 | 63.4 | 59.0 | 69.1 | 90.3 | 82.7 | 49.5 | 88.3 | 57.6 | 65.6 | 87.8 | 80.1 | 50.8 | 93.7 | 58.5 | 69.1 | 90.1 | 82.6 | -- | -- | -- | -- | -- | -- | 95.3 | 95.5 | 95.3 |
| 23 | 53.4 | 86.7 | 86.7 | 60.3 | 98.8 | 70.1 | 47.5 | 78.3 | 57.4 | 57.8 | 97.3 | 68.0 | 66.6 | 84.0 | 61.0 | 59.5 | 97.7 | 70.3 | -- | -- | -- | -- | -- | -- | 95.3 | 95.6 | 95.5 |
| 24 | 54.8 | 62.6 | 58.8 | 78.3 | 101.2 | 92.3 | 44.1 | 89.0 | 69.9 | 74.1 | 98.4 | 89.6 | 49.8 | 96.1 | 61.8 | 79.7 | 99.8 | 92.3 | -- | -- | -- | -- | -- | -- | 95.4 | 95.9 | 95.7 |
| 25 | 55.1 | 69.9 | 59.2 | 59.2 | 99.0 | 89.0 | 50.4 | 109.5 | 68.6 | 55.3 | 96.4 | 86.0 | 50.9 | 61.4 | 53.8 | 63.4 | 98.9 | 89.0 | 47.1 | 60.8 | 52.8 | 43.4 | 63.2 | 6.1 | 95.4 | 96.0 | 95.8 |
| 26 | 52.5 | 59.9 | 56.1 | 79.9 | 101.1 | 94.0 | 45.9 | 88.8 | 54.7 | 77.8 | 99.1 | 91.7 | 48.3 | 55.2 | 50.8 | 81.5 | 100.5 | 94.2 | -- | -- | -- | -- | -- | -- | 95.4 | 95.8 | 95.6 |
| 27 | 55.0 | 64.6 | 58.0 | 77.3 | 97.1 | 90.2 | 48.5 | 57.3 | 51.8 | 75.5 | 94.0 | 87.6 | 50.1 | 59.0 | 53.0 | 78.7 | 95.5 | 90.1 | -- | -- | -- | -- | -- | -- | 95.3 | 96.4 | 95.8 |
| 28 | 56.1 | 66.0 | 60.5 | 75.2 | 102.4 | 88.4 | 49.9 | 56.7 | 53.8 | 70.7 | 101.6 | 85.7 | 51.4 | 59.5 | 55.0 | 75.6 | 101.5 | 88.4 | -- | -- | -- | -- | -- | -- | 95.5 | 95.9 | 95.7 |
| 29 | 62.2 | 69.4 | 65.7 | 69.2 | 89.2 | 79.3 | 54.6 | 62.5 | 58.5 | 66.1 | 87.7 | 76.8 | 57.1 | 63.9 | 60.2 | 70.4 | 87.5 | 79.0 | -- | -- | -- | -- | -- | -- | 95.7 | 95.9 | 95.8 |
| 30 | 60.9 | 68.4 | 64.2 | 68.1 | 90.9 | 81.5 | 54.4 | 60.9 | 56.8 | 65.2 | 87.6 | 78.7 | 56.3 | 64.0 | 58.6 | 69.4 | 89.1 | 81.5 | -- | -- | -- | -- | -- | -- | 95.6 | 96.0 | 95.8 |
| Monthly Total | | | | | | 2,596.0 | | | | | | 2,521.3 | | | | | | 2,599.0 | | | | | | 6.1 | | | |
| Monthly Min/Max/Avg | 45.9 | 100.2 | 61.0 | 58.5 | 150.0 | | 44.1 | 183.7 | 65.3 | 55.2 | 120.2 | | 44.7 | 126.5 | 65.8 | 59.5 | 107.6 | | 41.3 | 166.6 | 76.3 | 25.6 | 63.2 | | 90.1 | 96.4 | 94.3 |

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

September 2024

| 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 | 9.7 | 10.4 | 10.1 | 27 | 30 | 29 | 7.0 | 7.0 | 7.0 | 7.4 | 7.6 | 7.5 | 17 | 23 | 21 | 7.0 | 7.0 | 7.0 |
| 2 | 10.3 | 11.7 | 10.9 | 30 | 33 | 30 | 7.0 | 7.0 | 7.0 | 7.5 | 7.6 | 7.5 | 20 | 23 | 21 | 7.0 | 7.0 | 7.0 |
| 3 | 11.1 | 11.7 | 11.4 | 31 | 35 | 33 | 7.0 | 7.0 | 7.0 | 7.4 | 7.7 | 7.5 | 18 | 26 | 22 | 7.0 | 7.0 | 7.0 |
| 4 | 11.4 | 11.7 | 11.6 | 31 | 37 | 34 | 7.0 | 7.0 | 7.0 | 7.5 | 7.6 | 7.5 | 19 | 23 | 21 | 7.0 | 7.0 | 7.0 |
| 5 | 10.9 | 11.6 | 11.3 | 28 | 35 | 32 | 7.0 | 7.0 | 7.0 | 7.4 | 7.6 | 7.5 | 18 | 25 | 22 | 7.0 | 7.0 | 7.0 |
| 6 | 10.7 | 11.3 | 11.1 | 30 | 33 | 32 | 7.0 | 7.0 | 7.0 | 7.5 | 7.6 | 7.5 | 20 | 24 | 22 | 7.0 | 7.0 | 7.0 |
| 7 | 10.7 | 11.1 | 11.0 | 30 | 33 | 31 | 7.0 | 7.0 | 7.0 | 7.4 | 7.6 | 7.5 | 17 | 23 | 21 | 7.0 | 7.0 | 7.0 |
| 8 | 10.6 | 11.4 | 11.0 | 27 | 33 | 31 | 7.0 | 7.0 | 7.0 | 7.5 | 7.6 | 7.6 | 20 | 26 | 23 | 7.0 | 7.0 | 7.0 |
| 9 | 10.4 | 10.8 | 10.7 | 27 | 31 | 28 | 7.0 | 7.0 | 7.0 | 7.4 | 7.6 | 7.5 | 18 | 24 | 21 | 7.0 | 7.0 | 7.0 |
| 10 | 10.2 | 10.9 | 10.7 | 31 | 35 | 33 | 7.0 | 7.0 | 7.0 | 7.5 | 7.6 | 7.5 | 19 | 23 | 21 | 7.0 | 7.0 | 7.0 |
| 11 | 10.1 | 10.9 | 10.5 | 27 | 35 | 31 | 7.0 | 7.0 | 7.0 | 7.5 | 7.7 | 7.5 | 20 | 27 | 21 | 7.0 | 7.0 | 7.0 |
| 12 | 9.6 | 10.7 | 10.4 | 25 | 33 | 30 | 7.0 | 7.0 | 7.0 | 7.4 | 7.5 | 7.4 | 17 | 21 | 18 | 7.0 | 7.0 | 7.0 |
| 13 | 10.2 | 10.5 | 10.3 | 27 | 31 | 29 | 7.0 | 7.0 | 7.0 | 7.4 | 7.5 | 7.4 | 17 | 20 | 18 | 7.0 | 7.0 | 7.0 |
| 14 | 10.1 | 10.4 | 10.3 | 27 | 30 | 29 | 7.0 | 7.0 | 7.0 | 7.4 | 7.5 | 7.5 | 16 | 21 | 19 | 7.0 | 7.0 | 7.0 |
| 15 | 9.9 | 10.3 | 10.1 | 28 | 33 | 30 | 7.0 | 7.0 | 7.0 | 7.4 | 7.6 | 7.5 | 18 | 23 | 20 | 7.0 | 7.0 | 7.0 |
| 16 | 9.8 | 10.1 | 10.0 | 29 | 30 | 30 | 7.0 | 7.0 | 7.0 | 7.4 | 7.5 | 7.4 | 16 | 20 | 19 | 7.0 | 7.0 | 7.0 |
| 17 | 9.8 | 10.2 | 10.1 | 28 | 31 | 30 | 7.0 | 7.0 | 7.0 | 7.4 | 7.5 | 7.5 | 18 | 22 | 19 | 7.0 | 7.0 | 7.0 |
| 18 | 9.9 | 10.1 | 10.0 | 29 | 30 | 29 | 7.0 | 7.0 | 7.0 | 7.4 | 7.5 | 7.4 | 16 | 20 | 18 | 7.0 | 7.0 | 7.0 |
| 19 | 9.6 | 10.1 | 9.8 | 30 | 31 | 30 | 7.0 | 7.0 | 7.0 | 7.4 | 7.5 | 7.4 | 18 | 20 | 19 | 7.0 | 7.0 | 7.0 |
| 20 | 9.5 | 9.7 | 9.6 | 29 | 31 | 30 | 7.0 | 7.0 | 7.0 | 7.4 | 7.5 | 7.4 | 16 | 21 | 18 | 7.0 | 7.0 | 7.0 |
| 21 | 9.3 | 9.6 | 9.4 | 25 | 31 | 28 | 7.0 | 7.0 | 7.0 | 7.4 | 7.5 | 7.4 | 16 | 20 | 18 | 7.0 | 7.0 | 7.0 |
| 22 | 9.2 | 9.4 | 9.3 | 26 | 28 | 27 | 7.0 | 7.0 | 7.0 | 7.3 | 7.4 | 7.4 | 14 | 19 | 17 | 7.0 | 7.0 | 7.0 |
| 23 | 9.3 | 9.5 | 9.4 | 25 | 29 | 28 | 7.0 | 7.0 | 7.0 | 7.4 | 7.4 | 7.4 | 16 | 19 | 17 | 7.0 | 7.0 | 7.0 |
| 24 | 9.2 | 9.9 | 9.3 | 23 | 28 | 26 | 7.0 | 7.0 | 7.0 | 7.3 | 7.5 | 7.4 | 14 | 20 | 16 | 7.0 | 7.0 | 7.0 |
| 25 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 7.4 | 7.5 | 7.4 | 16 | 21 | 17 | 7.0 | 7.0 | 7.0 |
| 26 | 9.4 | 10.8 | 9.7 | 27 | 29 | 28 | 7.0 | 7.0 | 7.0 | 7.3 | 7.4 | 7.4 | 14 | 19 | 17 | 7.0 | 7.0 | 7.0 |
| 27 | 9.3 | 9.7 | 9.5 | 26 | 29 | 28 | 6.9 | 7.0 | 7.0 | 7.3 | 7.4 | 7.4 | 14 | 18 | 16 | 7.0 | 7.0 | 7.0 |
| 28 | 9.3 | 9.7 | 9.5 | 24 | 29 | 27 | 7.0 | 7.0 | 7.0 | 7.3 | 7.4 | 7.4 | 15 | 19 | 17 | 7.0 | 7.0 | 7.0 |
| 29 | 9.4 | 9.6 | 9.5 | 25 | 27 | 26 | 7.0 | 7.0 | 7.0 | 7.3 | 7.4 | 7.4 | 15 | 18 | 16 | 7.0 | 7.0 | 7.0 |
| 30 | 9.0 | 9.4 | 9.3 | 21 | 26 | 24 | 7.0 | 7.0 | 7.0 | 7.3 | 7.4 | 7.3 | 13 | 17 | 15 | 7.0 | 7.0 | 7.0 |
| Monthly Min/Max/Avg | 9.0 | 11.7 | 10.2 | 21 | 37 | 29 | 6.9 | 7.0 | 7.0 | 7.3 | 7.7 | 7.5 | 13 | 27 | 19 | 7.0 | 7.0 | 7.0 |

NOTES: ' -- ' indicates plant offline

1.2.17 Liquid Alum Chemical Consumption

September 2024

| 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 | 67.2 | 67.1 | 81.3 | 8,309 | 16,614 | 24,923 | 47,091 |
| 2 | 87.6 | 88.4 | 77.6 | 13,766 | 19,049 | 32,816 | 46,367 |
| 3 | 61.0 | 60.9 | 63.2 | 12,576 | 12,565 | 25,142 | 39,058 |
| 4 | 46.2 | 45.9 | 47.1 | 8,973 | 8,917 | 17,890 | 29,029 |
| 5 | 39.8 | 39.8 | 38.2 | 7,391 | 7,387 | 14,778 | 23,508 |
| 6 | 35.2 | 35.2 | 33.8 | 6,675 | 6,674 | 13,349 | 21,401 |
| 7 | 31.9 | 31.9 | 29.8 | 6,244 | 6,244 | 12,488 | 19,714 |
| 8 | 31.3 | 31.3 | 28.2 | 6,088 | 6,088 | 12,176 | 17,454 |
| 9 | 30.0 | 30.1 | 26.4 | 6,052 | 6,069 | 12,120 | 17,004 |
| 10 | 30.0 | 30.0 | 26.2 | 5,882 | 5,882 | 11,764 | 16,719 |
| 11 | 25.1 | 25.1 | 25.5 | 4,651 | 4,655 | 9,307 | 8,354 |
| 12 | 25.0 | 25.0 | 24.6 | 4,320 | 4,426 | 8,746 | 15,581 |
| 13 | 25.0 | 25.0 | 24.3 | 4,123 | 4,382 | 8,504 | 14,365 |
| 14 | 25.0 | 25.0 | 23.4 | 3,943 | 4,550 | 8,493 | 12,891 |
| 15 | 25.0 | 25.0 | 22.5 | 3,124 | 5,070 | 8,195 | 12,086 |
| 16 | 25.0 | 25.0 | 22.2 | 3,015 | 5,146 | 8,161 | 12,231 |
| 17 | 23.4 | 23.4 | 21.2 | 2,893 | 4,822 | 7,715 | 11,829 |
| 18 | 23.4 | 23.5 | 21.9 | 2,901 | 4,836 | 7,737 | 13,087 |
| 19 | 25.0 | 25.0 | 21.5 | 3,092 | 5,726 | 8,818 | 13,295 |
| 20 | 24.8 | 24.8 | 21.1 | 3,063 | 6,126 | 9,190 | 13,054 |
| 21 | 23.0 | 23.0 | 21.0 | 2,930 | 5,690 | 8,620 | 12,796 |
| 22 | 22.9 | 22.9 | 21.1 | 3,577 | 5,662 | 9,239 | 11,878 |
| 23 | 23.7 | 23.7 | 21.1 | 3,161 | 5,883 | 9,044 | 10,255 |
| 24 | 22.1 | 22.2 | 21.0 | 3,860 | 5,031 | 8,890 | 13,030 |
| 25 | -- | -- | 21.0 | -- | -- | -- | 13,054 |
| 26 | 22.2 | 22.2 | 22.5 | 3,019 | 4,406 | 7,425 | 13,937 |
| 27 | 21.4 | 21.4 | 21.9 | 3,535 | 5,305 | 8,840 | 13,574 |
| 28 | 21.9 | 21.9 | 21.1 | 3,306 | 5,113 | 8,419 | 12,453 |
| 29 | 21.0 | 21.0 | 21.1 | 2,744 | 4,476 | 7,220 | 11,468 |
| 30 | 21.0 | 21.0 | 21.1 | 2,598 | 4,311 | 6,909 | 11,318 |
| Monthly Total | | | | 145,811 | 191,106 | 336,917 | 527,881 |
| Monthly Avg | 31.2 | 31.3 | 29.8 | 5,028 | 6,590 | 11,618 | 17,596 |

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 Chemical Consumption

September 2024

| 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 | 0.29 | 0.29 | 0.20 | 17 | 34 | 52 | 56 |
| 2 | 0.35 | 0.35 | 0.22 | 27 | 37 | 63 | 63 |
| 3 | 0.35 | 0.35 | 0.18 | 35 | 35 | 70 | 53 |
| 4 | 0.35 | 0.35 | 0.16 | 33 | 33 | 65 | 48 |
| 5 | 0.30 | 0.30 | 0.16 | 27 | 27 | 54 | 48 |
| 6 | 0.27 | 0.27 | 0.16 | 25 | 25 | 50 | 49 |
| 7 | 0.25 | 0.25 | 0.16 | 24 | 24 | 48 | 51 |
| 8 | 0.25 | 0.25 | 0.16 | 24 | 24 | 47 | 48 |
| 9 | 0.25 | 0.25 | 0.16 | 24 | 24 | 49 | 50 |
| 10 | 0.25 | 0.25 | 0.15 | 24 | 24 | 48 | 45 |
| 11 | 0.25 | 0.25 | 0.14 | 23 | 23 | 45 | 22 |
| 12 | 0.25 | 0.25 | 0.14 | 21 | 21 | 42 | 43 |
| 13 | 0.25 | 0.25 | 0.14 | 20 | 21 | 41 | 39 |
| 14 | 0.25 | 0.25 | 0.12 | 19 | 22 | 41 | 33 |
| 15 | 0.25 | 0.25 | 0.12 | 15 | 25 | 40 | 32 |
| 16 | 0.25 | 0.25 | 0.12 | 15 | 25 | 40 | 33 |
| 17 | 0.25 | 0.25 | 0.12 | 15 | 25 | 40 | 33 |
| 18 | 0.25 | 0.25 | 0.12 | 15 | 25 | 40 | 35 |
| 19 | 0.25 | 0.25 | 0.12 | 15 | 28 | 43 | 36 |
| 20 | 0.25 | 0.25 | 0.12 | 15 | 30 | 45 | 36 |
| 21 | 0.25 | 0.25 | 0.12 | 15 | 30 | 45 | 35 |
| 22 | 0.25 | 0.25 | 0.12 | 19 | 30 | 49 | 33 |
| 23 | 0.25 | 0.25 | 0.12 | 16 | 30 | 46 | 29 |
| 24 | 0.25 | 0.25 | 0.12 | 21 | 27 | 49 | 36 |
| 25 | -- | -- | 0.12 | -- | -- | -- | 36 |
| 26 | 0.25 | 0.25 | 0.13 | 16 | 24 | 40 | 39 |
| 27 | 0.25 | 0.25 | 0.13 | 20 | 30 | 50 | 40 |
| 28 | 0.25 | 0.25 | 0.13 | 18 | 28 | 47 | 36 |
| 29 | 0.25 | 0.25 | 0.12 | 16 | 26 | 42 | 32 |
| 30 | 0.25 | 0.25 | 0.12 | 15 | 25 | 40 | 32 |
| Monthly Total | | | | 588 | 781 | 1,370 | 1,202 |
| Monthly Avg | 0.26 | 0.26 | 0.14 | 20 | 27 | 47 | 40 |

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 Praestol DW 27AG is **1.00 mg/L**

1.2.19 Carbon Chemical Consumption

September 2024

| 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 | -- | -- | -- | -- | -- | -- | -- |
| 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

September 2024

| 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 | 3.07 | 3.01 | 23,034 | 45,212 | 74,402 | 4.21 |
| 2 | 3.24 | 3.08 | 30,858 | 40,249 | 76,539 | 4.25 | 161,936 |
| 3 | 3.26 | 3.06 | 40,748 | 38,277 | 83,839 | 4.09 | 161,088 |
| 4 | 3.18 | 2.88 | 37,453 | 33,954 | 74,835 | 4.02 | 158,081 |
| 5 | 3.01 | 2.66 | 33,908 | 29,871 | 68,755 | 3.98 | 156,183 |
| 6 | 3.01 | 2.84 | 34,597 | 32,596 | 71,869 | 3.91 | 157,669 |
| 7 | 3.05 | 2.84 | 36,216 | 33,745 | 75,101 | 3.95 | 166,681 |
| 8 | 3.05 | 2.85 | 35,982 | 33,624 | 73,990 | 3.80 | 149,975 |
| 9 | 3.05 | 2.85 | 37,307 | 34,884 | 76,982 | 3.74 | 153,837 |
| 10 | 3.05 | 2.91 | 36,237 | 34,587 | 77,412 | 3.71 | 151,496 |
| 11 | 2.98 | 2.97 | 33,545 | 33,422 | 74,249 | 3.76 | 78,487 |
| 12 | 3.16 | 2.84 | 33,102 | 30,433 | 68,673 | 3.60 | 145,899 |
| 13 | 3.12 | 2.60 | 31,184 | 27,623 | 62,933 | 3.70 | 139,558 |
| 14 | 3.04 | 2.60 | 29,033 | 28,692 | 61,650 | 3.78 | 132,798 |
| 15 | 2.91 | 2.66 | 22,087 | 32,726 | 58,168 | 3.68 | 125,994 |
| 16 | 2.75 | 2.75 | 20,142 | 34,377 | 59,008 | 3.66 | 128,979 |
| 17 | 2.80 | 2.80 | 20,970 | 34,945 | 60,470 | 3.73 | 132,813 |
| 18 | 2.79 | 2.75 | 20,933 | 34,363 | 59,514 | 3.61 | 137,676 |
| 19 | 2.77 | 2.73 | 20,800 | 37,906 | 63,877 | 3.63 | 143,398 |
| 20 | 2.72 | 2.68 | 20,368 | 40,225 | 64,595 | 3.61 | 142,634 |
| 21 | 2.70 | 2.65 | 20,813 | 39,751 | 64,932 | 3.67 | 142,264 |
| 22 | 2.70 | 2.65 | 25,567 | 39,746 | 70,068 | 3.45 | 124,170 |
| 23 | 2.69 | 2.65 | 21,698 | 39,813 | 65,823 | 3.51 | 109,079 |
| 24 | 2.72 | 2.69 | 28,785 | 36,907 | 68,896 | 3.26 | 128,939 |
| 25 | -- | -- | -- | -- | -- | 3.20 | 126,773 |
| 26 | 2.82 | 2.75 | 23,191 | 33,103 | 58,491 | 3.29 | 130,067 |
| 27 | 2.90 | 2.81 | 28,954 | 42,152 | 74,046 | 3.24 | 128,176 |
| 28 | 2.84 | 2.78 | 25,937 | 39,285 | 70,959 | 3.31 | 124,985 |
| 29 | 2.80 | 2.77 | 22,131 | 35,748 | 63,100 | 3.43 | 119,273 |
| 30 | 2.75 | 2.73 | 20,628 | 33,924 | 58,728 | 3.39 | 116,237 |
| Monthly Total | | | 816,210 | 1,032,136 | 1,981,902 | | 4,130,703 |
| Monthly Avg | 2.93 | 2.79 | 28,145 | 35,591 | 68,341 | 3.67 | 137,690 |

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
September 2024

| Day | Dosage (mg/L) | | Consumption (kg) | |
|----------------------|---------------|------------|------------------|------------|
| | Rossdale | E.L. Smith | Rossdale | E.L. Smith |
| 1 | 0.29 | 0.22 | 51 | 63 |
| 2 | 0.29 | 0.19 | 51 | 54 |
| 3 | 0.29 | 0.19 | 57 | 57 |
| 4 | 0.29 | 0.20 | 51 | 60 |
| 5 | 0.29 | 0.20 | 49 | 60 |
| 6 | 0.29 | 0.20 | 53 | 61 |
| 7 | 0.29 | 0.22 | 55 | 70 |
| 8 | 0.29 | 0.22 | 54 | 66 |
| 9 | 0.29 | 0.22 | 56 | 69 |
| 10 | 0.29 | 0.22 | 54 | 67 |
| 11 | 0.29 | 0.20 | 52 | 31 |
| 12 | 0.29 | 0.20 | 48 | 62 |
| 13 | 0.29 | 0.20 | 45 | 58 |
| 14 | 0.29 | 0.20 | 46 | 53 |
| 15 | 0.29 | 0.20 | 44 | 51 |
| 16 | 0.29 | 0.19 | 44 | 51 |
| 17 | 0.29 | 0.20 | 45 | 54 |
| 18 | 0.29 | 0.20 | 45 | 58 |
| 19 | 0.29 | 0.21 | 48 | 63 |
| 20 | 0.29 | 0.21 | 50 | 62 |
| 21 | 0.29 | 0.20 | 51 | 59 |
| 22 | 0.29 | 0.20 | 55 | 55 |
| 23 | 0.29 | 0.20 | 52 | 47 |
| 24 | 0.29 | 0.20 | 54 | 60 |
| 25 | -- | 0.19 | -- | 57 |
| 26 | 0.32 | 0.20 | 44 | 60 |
| 27 | 0.31 | 0.20 | 61 | 60 |
| 28 | 0.30 | 0.20 | 54 | 57 |
| 29 | 0.27 | 0.20 | 43 | 53 |
| 30 | 0.26 | 0.20 | 39 | 52 |
| Monthly Total | | | 1,452 | 1,729 |
| Monthly Avg | 0.29 | 0.20 | 50 | 58 |

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
September 2024

| Day | Dosage (mg/L) | | Consumption (kg) | |
|----------------------|---------------|------------|------------------|------------|
| | Rossdale | E.L. Smith | Rossdale | E.L. Smith |
| 1 | 0.64 | -- | 593 | -- |
| 2 | 0.64 | -- | 598 | -- |
| 3 | 0.64 | -- | 663 | -- |
| 4 | 0.64 | -- | 592 | -- |
| 5 | 0.64 | -- | 574 | -- |
| 6 | 0.64 | -- | 617 | -- |
| 7 | 0.64 | -- | 635 | -- |
| 8 | 0.64 | -- | 624 | -- |
| 9 | 0.64 | -- | 646 | -- |
| 10 | 0.64 | -- | 632 | -- |
| 11 | 0.64 | -- | 600 | -- |
| 12 | 0.64 | -- | 553 | -- |
| 13 | 0.64 | -- | 526 | -- |
| 14 | 0.64 | -- | 529 | -- |
| 15 | 0.64 | -- | 507 | -- |
| 16 | 0.64 | -- | 515 | -- |
| 17 | 0.64 | -- | 520 | -- |
| 18 | 0.64 | -- | 520 | -- |
| 19 | 0.64 | -- | 560 | -- |
| 20 | 0.64 | -- | 584 | -- |
| 21 | 0.64 | -- | 589 | -- |
| 22 | 0.64 | -- | 641 | -- |
| 23 | 0.64 | -- | 605 | -- |
| 24 | 0.64 | -- | 635 | -- |
| 25 | -- | -- | -- | -- |
| 26 | 0.64 | -- | 469 | -- |
| 27 | 0.64 | -- | 661 | -- |
| 28 | 0.64 | -- | 603 | -- |
| 29 | 0.64 | -- | 541 | -- |
| 30 | 0.64 | -- | 517 | -- |
| Monthly Total | | | 16,849 | -- |
| Monthly Avg | 0.64 | -- | 581 | -- |

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
September 2024

| Day | Dosage (mg/L) | Consumption (kg) |
|----------------------|---------------|------------------|
| | E.L. Smith | E.L. Smith |
| 1 | 0.67 | 1,739 |
| 2 | 0.67 | 1,790 |
| 3 | 0.67 | 1,847 |
| 4 | 0.67 | 1,872 |
| 5 | 0.67 | 1,836 |
| 6 | 0.67 | 1,937 |
| 7 | 0.67 | 1,977 |
| 8 | 0.67 | 1,869 |
| 9 | 0.67 | 1,928 |
| 10 | 0.66 | 1,886 |
| 11 | 0.65 | 923 |
| 12 | 0.67 | 1,906 |
| 13 | 0.67 | 1,802 |
| 14 | 0.67 | 1,629 |
| 15 | 0.67 | 1,607 |
| 16 | 0.67 | 1,661 |
| 17 | 0.67 | 1,666 |
| 18 | 0.67 | 1,797 |
| 19 | 0.67 | 1,848 |
| 20 | 0.67 | 1,863 |
| 21 | 0.67 | 1,828 |
| 22 | 0.67 | 1,684 |
| 23 | 0.67 | 1,424 |
| 24 | 0.67 | 1,881 |
| 25 | 0.67 | 1,852 |
| 26 | 0.67 | 1,920 |
| 27 | 0.67 | 1,836 |
| 28 | 0.67 | 1,800 |
| 29 | 0.67 | 1,612 |
| 30 | 0.67 | 1,658 |
| Monthly Total | | 52,879 |
| Monthly Avg | 0.67 | 1,763 |

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
September 2024

| Day | Dosage (mg/L) | | Consumption (kg) | |
|----------------------|---------------|------------|------------------|------------|
| | Rossdale | E.L. Smith | Rossdale | E.L. Smith |
| 1 | 3.89 | 14.5 | 1,410 | 7,372 |
| 2 | 11.0 | 17.7 | 3,945 | 9,236 |
| 3 | 9.76 | 13.7 | 3,819 | 7,382 |
| 4 | 5.42 | 9.07 | 1,910 | 4,954 |
| 5 | 2.98 | 6.14 | 1,006 | 3,293 |
| 6 | 1.82 | 4.70 | 657 | 2,656 |
| 7 | 1.25 | 3.47 | 469 | 2,001 |
| 8 | 1.03 | 2.71 | 381 | 1,476 |
| 9 | 1.03 | 2.22 | 395 | 1,250 |
| 10 | 1.03 | 1.48 | 386 | 823 |
| 11 | 0.02 | 1.05 | 3 | 295 |
| 12 | -- | 0.83 | -- | 462 |
| 13 | -- | 0.59 | -- | 309 |
| 14 | -- | 0.58 | -- | 276 |
| 15 | -- | 0.37 | -- | 175 |
| 16 | -- | 0.50 | -- | 242 |
| 17 | -- | 0.47 | -- | 228 |
| 18 | -- | 0.46 | -- | 240 |
| 19 | -- | 0.28 | -- | 150 |
| 20 | -- | 0.05 | -- | 28 |
| 21 | -- | 0.05 | -- | 28 |
| 22 | -- | 0.06 | -- | 28 |
| 23 | -- | -- | -- | -- |
| 24 | -- | -- | -- | -- |
| 25 | -- | -- | -- | -- |
| 26 | -- | -- | -- | -- |
| 27 | -- | -- | -- | -- |
| 28 | -- | -- | -- | -- |
| 29 | -- | -- | -- | -- |
| 30 | -- | -- | -- | -- |
| Monthly Total | | | 14,381 | 42,915 |
| Monthly Avg | 3.57 | 3.68 | 1,307 | 1,951 |

- 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
September 2024**

| Day | Dosage (mg/L) | | Consumption (kg) | |
|----------------------|---------------|------------|------------------|------------|
| | Rossdale | E.L. Smith | Rossdale | E.L. Smith |
| 1 | 0.62 | 0.65 | 501 | 755 |
| 2 | 0.62 | 0.65 | 505 | 775 |
| 3 | 0.62 | 0.64 | 560 | 788 |
| 4 | 0.62 | 0.63 | 497 | 787 |
| 5 | 0.62 | 0.63 | 485 | 773 |
| 6 | 0.62 | 0.63 | 521 | 815 |
| 7 | 0.62 | 0.63 | 536 | 832 |
| 8 | 0.62 | 0.62 | 527 | 777 |
| 9 | 0.62 | 0.61 | 545 | 792 |
| 10 | 0.62 | 0.61 | 534 | 777 |
| 11 | 0.62 | 0.59 | 507 | 379 |
| 12 | 0.62 | 0.61 | 467 | 776 |
| 13 | 0.62 | 0.61 | 444 | 734 |
| 14 | 0.63 | 0.61 | 451 | 665 |
| 15 | 0.63 | 0.61 | 435 | 656 |
| 16 | 0.63 | 0.61 | 442 | 677 |
| 17 | 0.63 | 0.61 | 446 | 680 |
| 18 | 0.63 | 0.61 | 446 | 730 |
| 19 | 0.63 | 0.60 | 481 | 740 |
| 20 | 0.63 | 0.60 | 501 | 747 |
| 21 | 0.63 | 0.60 | 505 | 732 |
| 22 | 0.63 | 0.60 | 550 | 675 |
| 23 | 0.63 | 0.60 | 519 | 571 |
| 24 | 0.63 | 0.60 | 544 | 754 |
| 25 | -- | 0.60 | -- | 742 |
| 26 | 0.63 | 0.60 | 401 | 769 |
| 27 | 0.63 | 0.60 | 567 | 737 |
| 28 | 0.63 | 0.60 | 517 | 722 |
| 29 | 0.63 | 0.60 | 463 | 648 |
| 30 | 0.63 | 0.60 | 444 | 666 |
| Monthly Total | | | 14,341 | 21,671 |
| Monthly Avg | 0.63 | 0.61 | 495 | 722 |

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

September 2024

| 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 | 21.5 | 22.5 | 471 | 2,225 | 8.5 | 38 |
| 2 | 30.5 | 21.5 | 702 | 2,259 | 8.9 | 40 |
| 3 | 28.1 | 20.2 | 595 | 2,189 | 8.2 | 42 |
| 4 | 25.9 | 22.7 | 1,496 | 2,402 | 22 | 40 |
| 5 | 18.7 | 24.4 | 710 | 2,571 | 15 | 40 |
| 6 | 34.3 | 26.7 | 681 | 2,443 | 7.7 | 35 |
| 7 | 31.8 | 23.5 | 609 | 2,431 | 7.4 | 39 |
| 8 | 34.3 | 25.5 | 723 | 2,350 | 8.1 | 39 |
| 9 | 33.5 | 20.0 | 872 | 2,136 | 10 | 41 |
| 10 | 35.4 | 16.9 | 617 | 1,936 | 6.7 | 43 |
| 11 | 31.1 | 19.6 | 779 | 2,149 | 9.7 | 41 |
| 12 | 26.5 | 17.1 | 650 | 1,896 | 9.4 | 42 |
| 13 | 19.5 | 24.4 | 648 | 2,233 | 13 | 35 |
| 14 | 19.2 | 18.9 | 650 | 1,976 | 13 | 40 |
| 15 | 17.7 | 18.3 | 646 | 1,795 | 14 | 37 |
| 16 | 25.7 | 19.4 | 651 | 1,918 | 9.7 | 38 |
| 17 | 34.4 | 15.5 | 1,040 | 1,472 | 12 | 36 |
| 18 | 21.1 | 13.9 | 563 | 1,498 | 10 | 41 |
| 19 | 22.6 | 13.1 | 604 | 1,513 | 10 | 44 |
| 20 | 22.6 | 18.0 | 651 | 1,909 | 11 | 40 |
| 21 | 25.9 | 20.9 | 779 | 2,197 | 12 | 42 |
| 22 | 24.1 | 19.5 | 780 | 1,998 | 12 | 39 |
| 23 | 22.0 | 20.8 | 647 | 2,378 | 11 | 44 |
| 24 | 49.4 | 17.9 | 2,447 | 1,770 | 19 | 37 |
| 25 | 540 | 15.2 | 1,208 | 1,760 | 1.0 | 44 |
| 26 | 20.5 | 18.1 | 1,968 | 1,496 | 37 | 32 |
| 27 | 36.3 | 13.4 | 906 | 1,523 | 9.6 | 43 |
| 28 | 45.5 | 14.0 | 1,955 | 1,275 | 16 | 35 |
| 29 | 38.8 | 11.4 | 1,301 | 1,128 | 13 | 38 |
| 30 | 31.8 | 23.6 | 907 | 1,968 | 11 | 32 |
| Monthly Total | | | 27,255 | 58,794 | 356 | 1,176 |
| Monthly Avg | 45.6 | 19.2 | 909 | 1,960 | 12 | 39 |

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
September 2024**

| | | 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) | | 0.0 | 0.0 | 99 | 36 | 12 | 148 | 58.20 | | | 297.36 | | |
| Solids (kg) | TSS | 69,747 | 0 | 3,255 | | | 73,002 | | | | | | |
| | Aluminium | 14,760 | 0 | 1,127 | | | 15,887 | | | | | | |
| # of Bypasses | | | | | | 2 | | Min | Max | Avg | Min | Max | Avg |
| pH | | | | | | | | 6.6 | 8.3 | 7.8 | 6.7 | 7.9 | 7.7 |
| Total Chlorine (mg/L) | | | | | | | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Sulfite (mg/L) | | | | | | | | 1.00 | 20.0 | 11.0 | 0.85 | 20.0 | 6.51 |

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

September 2024

| | | Clarifier Blowdown | Clarifier Washdown * | Backwash Water | Filter To Waste | Bypass | LLP Flush | HLP Cooling | Total | De-chlorinated Waste flow to | | |
|-----------------------|-----------|--------------------|----------------------|----------------|-----------------|--------|-----------|-------------|---------|------------------------------|------|------|
| Volume (ML) | | 595 | 0.0 | 308 | 116 | 45 | 8.8 | 29 | 1,103 | 1,176 | | |
| Solids (kg) | TSS | 184,309 | 0 | 11,831 | | | | | 196,140 | | | |
| | Aluminium | 22,211 | 0 | 4,095 | | | | | 26,306 | | | |
| # of Bypasses | | | | | | 3 | | | | Min | Max | Avg |
| pH | | | | | | | | | | 6.44 | 7.88 | 7.56 |
| Total Chlorine (mg/L) | | | | | | | | | | 0.00 | 0.00 | 0.00 |
| Sulphite (mg/L) | | | | | | | | | | 0.15 | 20.0 | 6.05 |

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
September 2024

| 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 | 4,226 | 179 | 222 | 6,762 | 253 | 249 | 10,989 | 395 | 379 | 1,451 | 2,466 | 3,917 |
| FEBRUARY | 3,750 | 165 | 183 | 6,828 | 278 | 301 | 10,578 | 433 | 371 | 1,507 | 2,211 | 3,718 |
| MARCH | 4,282 | 163 | 189 | 7,099 | 269 | 260 | 11,382 | 405 | 378 | 1,523 | 2,511 | 4,034 |
| APRIL | 4,610 | 183 | 212 | 6,550 | 246 | 232 | 11,159 | 419 | 389 | 1,250 | 2,653 | 3,902 |
| MAY | 4,521 | 183 | 204 | 7,297 | 272 | 318 | 11,818 | 438 | 422 | 1,546 | 2,841 | 4,387 |
| JUNE | 5,000 | 209 | 205 | 7,320 | 268 | 270 | 12,320 | 471 | 456 | 1,469 | 2,990 | 4,459 |
| JULY | 6,424 | 264 | 258 | 8,286 | 312 | 314 | 14,710 | 574 | 567 | 1,650 | 3,749 | 5,399 |
| AUGUST | 5,439 | 240 | 235 | 7,659 | 282 | 301 | 13,098 | 511 | 494 | 1,529 | 3,233 | 4,762 |
| SEPTEMBER | 4,814 | 192 | 206 | 7,441 | 284 | 327 | 12,255 | 466 | 445 | 1,361 | 3,040 | 4,401 |

2024 - HIGH 5-DAY DEMAND

| | PLANTS PROD (ML/d) | RES. GAIN / LOSS (%) | RES. GAIN / LOSS (ML) | TOTAL DEMAND (ML) |
|-------------|--------------------|----------------------|-----------------------|-------------------|
| 17-Jul-2024 | 547 | -0.8 | -5.3 | 552 |
| 18-Jul-2024 | 555 | -2.0 | -12.4 | 567 |
| 19-Jul-2024 | 574 | 3.8 | 23.7 | 551 |
| 20-Jul-2024 | 512 | 0.4 | 2.3 | 510 |
| 21-Jul-2024 | 492 | -5.7 | -35.8 | 528 |

AVERAGE: 542

| Year to Date Data | 2024 | 2023 | % CHANGE |
|---------------------------------|---------|---------|----------|
| TOTAL PRODUCTION TO DATE (ML) | 108,308 | 107,385 | 0.9 |
| AVG. DAILY DEMAND TO DATE (ML) | 395 | 393 | 0.5 |
| PEAK DAILY DEMAND TO DATE (ML) | 567 | 545 | 4.0 |
| PEAK HOURLY DEMAND TO DATE (ML) | 782 | 751 | 4.0 |
| HIGH 5-DAY AVERAGE TO DATE (ML) | 542 | 530 | 2.2 |

Peak daily demand of 567 ML/d occurred on July 18, 2024

Peak hourly demand of 782 ML/d occurred on July 18, 2024 at 21:00

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

September 2024

| 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 | 1.45 | 1.90 | 1.50 | 1.74 | 1.88 | 1.83 | 1.48 | 1.62 | 1.57 | 1.93 | 2.03 | 1.97 | 1.89 | 2.13 | 2.05 | 1.06 | 1.10 | 1.08 |
| 2 | 1.47 | 1.90 | 1.51 | 1.74 | 1.88 | 1.80 | 1.47 | 1.57 | 1.55 | 1.87 | 1.99 | 1.91 | 1.99 | 2.11 | 2.06 | 1.05 | 1.11 | 1.08 |
| 3 | 1.38 | 1.87 | 1.44 | 1.74 | 1.97 | 1.88 | 1.47 | 1.56 | 1.54 | 1.88 | 1.96 | 1.92 | 1.96 | 2.16 | 2.07 | 1.06 | 1.25 | 1.14 |
| 4 | 1.30 | 1.76 | 1.38 | 1.78 | 1.93 | 1.86 | 1.47 | 1.58 | 1.54 | 1.87 | 2.06 | 1.91 | 1.94 | 2.08 | 2.01 | 1.16 | 1.23 | 1.20 |
| 5 | 1.28 | 1.81 | 1.35 | 1.74 | 1.90 | 1.81 | 1.41 | 1.58 | 1.53 | 1.85 | 1.94 | 1.89 | 1.99 | 2.22 | 2.04 | 1.11 | 1.29 | 1.20 |
| 6 | 1.25 | 1.71 | 1.30 | 1.78 | 1.93 | 1.86 | 1.40 | 1.53 | 1.51 | 1.91 | 1.98 | 1.90 | 2.02 | 2.17 | 2.10 | 1.15 | 1.25 | 1.21 |
| 7 | 1.20 | 1.70 | 1.25 | 1.74 | 1.93 | 1.87 | 1.45 | 1.57 | 1.52 | 1.91 | 1.98 | 1.93 | 1.92 | 2.14 | 2.10 | 1.11 | 1.21 | 1.16 |
| 8 | 1.16 | 1.91 | 1.25 | 1.68 | 1.83 | 1.78 | 1.45 | 1.59 | 1.56 | 1.90 | 2.01 | 1.93 | 1.95 | 2.14 | 2.08 | 1.05 | 1.14 | 1.09 |
| 9 | -- | -- | -- | 1.70 | 1.83 | 1.78 | 1.44 | 1.62 | 1.57 | 1.95 | 2.00 | 1.97 | 2.04 | 2.14 | 2.09 | 1.02 | 1.07 | 1.05 |
| 10 | 1.28 | 1.87 | 1.36 | 1.73 | 1.86 | 1.81 | 1.49 | 1.63 | 1.59 | 1.91 | 2.01 | 1.95 | 1.92 | 2.09 | 2.06 | 1.00 | 1.14 | 1.06 |
| 11 | 1.21 | 1.26 | 1.24 | 1.70 | 1.83 | 1.77 | 1.45 | 1.60 | 1.53 | 1.84 | 1.97 | 1.89 | 1.92 | 2.08 | 2.02 | 1.05 | 1.13 | 1.10 |
| 12 | 1.11 | 1.26 | 1.17 | 1.76 | 1.95 | 1.87 | 1.45 | 1.55 | 1.52 | 1.89 | 1.99 | 1.96 | 1.73 | 2.14 | 2.08 | 1.00 | 1.08 | 1.05 |
| 13 | 1.06 | 1.75 | 1.23 | 1.80 | 1.96 | 1.89 | 1.49 | 1.63 | 1.54 | 1.90 | 2.04 | 1.96 | 2.06 | 2.21 | 2.09 | -- | -- | -- |
| 14 | -- | -- | -- | 1.83 | 1.98 | 1.88 | 1.52 | 1.62 | 1.58 | 1.91 | 2.02 | 1.95 | 1.93 | 2.15 | 2.08 | -- | -- | -- |
| 15 | 1.33 | 1.89 | 1.39 | 1.80 | 1.95 | 1.86 | 1.45 | 1.80 | 1.49 | 1.89 | 2.00 | 1.93 | 1.99 | 2.12 | 2.07 | -- | -- | -- |
| 16 | 1.05 | 1.56 | 1.27 | 1.75 | 1.89 | 1.84 | 1.39 | 1.50 | 1.46 | 1.92 | 2.02 | 1.95 | 1.99 | 2.20 | 2.10 | 1.26 | 1.34 | 1.06 |
| 17 | 1.06 | 1.89 | 1.21 | 1.76 | 1.89 | 1.82 | 1.44 | 1.55 | 1.51 | 1.90 | 2.04 | 1.94 | 1.95 | 2.16 | 2.09 | 1.26 | 1.46 | 1.35 |
| 18 | -- | -- | -- | 1.75 | 1.88 | 1.83 | 1.51 | 1.61 | 1.56 | 1.97 | 2.03 | 1.99 | 2.00 | 2.22 | 2.15 | 1.37 | 1.66 | 1.50 |
| 19 | -- | -- | -- | 1.81 | 2.01 | 1.93 | 1.48 | 1.60 | 1.56 | 1.95 | 2.06 | 1.99 | 1.98 | 2.17 | 2.12 | 1.59 | 1.68 | 1.64 |
| 20 | -- | -- | -- | 1.90 | 2.00 | 1.96 | 1.45 | 1.66 | 1.61 | 1.97 | 2.03 | 2.00 | 2.12 | 2.20 | 2.16 | 1.48 | 1.62 | 1.55 |
| 21 | -- | -- | -- | 1.96 | 2.05 | 2.00 | 1.59 | 1.79 | 1.62 | 1.96 | 2.05 | 1.98 | 1.90 | 2.15 | 2.09 | 1.41 | 1.53 | 1.47 |
| 22 | -- | -- | -- | 1.93 | 2.04 | 1.99 | 1.54 | 1.68 | 1.63 | 1.97 | 2.06 | 2.00 | 1.74 | 1.96 | 1.92 | 1.39 | 1.46 | 1.42 |
| 23 | -- | -- | -- | 1.89 | 1.99 | 1.94 | 1.54 | 1.69 | 1.64 | 1.98 | 2.06 | 1.86 | 1.56 | 1.84 | 1.80 | 1.37 | 1.46 | 1.43 |
| 24 | -- | -- | -- | 1.88 | 2.01 | 1.96 | 1.56 | 1.69 | 1.64 | 1.98 | 2.11 | 2.04 | 1.46 | 1.72 | 1.69 | 1.32 | 1.44 | 1.39 |
| 25 | -- | -- | -- | 1.84 | 1.96 | 1.90 | 1.49 | 1.64 | 1.59 | 1.99 | 2.06 | 2.01 | 1.36 | 1.67 | 1.59 | 1.23 | 1.50 | 1.40 |
| 26 | -- | -- | -- | 1.73 | 1.91 | 1.85 | 1.47 | 1.55 | 1.51 | 1.94 | 2.06 | 2.01 | 1.33 | 1.58 | 1.50 | 1.31 | 1.47 | 1.41 |
| 27 | 1.40 | 2.03 | 1.44 | 1.80 | 2.18 | 1.94 | 1.25 | 1.56 | 1.53 | 2.01 | 2.08 | 2.03 | 1.27 | 1.47 | 1.45 | 1.28 | 1.45 | 1.38 |
| 28 | -- | -- | -- | 1.98 | 2.12 | 2.02 | 1.42 | 1.68 | 1.60 | 1.99 | 2.07 | 2.02 | 1.16 | 1.39 | 1.33 | 1.25 | 1.46 | 1.40 |
| 29 | 1.57 | 2.07 | 1.60 | 1.85 | 2.01 | 1.91 | 1.54 | 1.72 | 1.66 | 1.92 | 2.05 | 1.99 | 0.99 | 1.31 | 1.16 | 1.23 | 1.43 | 1.35 |
| 30 | 1.60 | 2.04 | 1.62 | 1.77 | 1.91 | 1.87 | 1.48 | 1.66 | 1.64 | 1.98 | 2.05 | 2.00 | 0.95 | 1.29 | 1.27 | 1.26 | 1.44 | 1.35 |
| Monthly | | | | | | | | | | | | | | | | | | |
| Min/Max/Avg | 1.05 | 2.07 | 1.36 | 1.68 | 2.18 | 1.88 | 1.25 | 1.80 | 1.56 | 1.84 | 2.11 | 1.96 | 0.95 | 2.22 | 1.91 | 1.00 | 1.68 | 1.28 |

NOTES: '--' Indication Analyzer Offline

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

September 2024

| Reservoir | Rosslyn 1 | | | Londonderry | | | N. Jasper Place | | | Rosslyn 2 | | | Thornccliffe | | | Blackmud Creek | | |
|-------------|-----------|------|------|-------------|------|------|-----------------|------|------|-----------|------|------|--------------|------|------|----------------|------|------|
| Day | Min | Max | Avg | Min | Max | Avg | Min | Max | Avg | Min | Max | Avg | Min | Max | Avg | Min | Max | Avg |
| 1 | | | | 1.52 | 1.72 | 1.60 | 1.41 | 1.93 | 1.42 | 1.58 | 1.60 | 1.59 | 1.54 | 2.17 | 1.61 | 1.43 | 1.53 | 1.47 |
| 2 | | | | 1.49 | 1.68 | 1.59 | 1.38 | 1.93 | 1.41 | 1.53 | 1.58 | 1.57 | 1.55 | 2.13 | 1.59 | 1.43 | 1.54 | 1.48 |
| 3 | | | | 1.36 | 1.71 | 1.52 | 1.33 | 1.79 | 1.36 | 1.51 | 1.57 | 1.56 | 1.50 | 2.18 | 1.57 | 1.41 | 1.54 | 1.46 |
| 4 | | | | 1.35 | 1.66 | 1.48 | | | | 1.48 | 1.56 | 1.55 | 1.53 | 2.19 | 1.62 | 1.37 | 1.46 | 1.42 |
| 5 | -- | -- | -- | 1.35 | 1.68 | 1.51 | 1.26 | 1.95 | 1.37 | 1.40 | 1.52 | 1.50 | 1.49 | 2.20 | 1.55 | 1.38 | 1.46 | 1.41 |
| 6 | -- | -- | -- | 1.33 | 1.73 | 1.49 | 1.35 | 1.96 | 1.38 | 1.32 | 1.48 | 1.47 | -- | -- | -- | 1.39 | 1.49 | 1.44 |
| 7 | -- | -- | -- | 1.34 | 1.69 | 1.53 | 1.39 | 1.95 | 1.41 | 1.46 | 2.28 | 1.47 | 1.47 | 2.16 | 1.56 | 1.42 | 1.50 | 1.45 |
| 8 | -- | -- | -- | 1.40 | 1.70 | 1.53 | 1.30 | 1.96 | 1.39 | 1.47 | 2.20 | 1.48 | 1.49 | 2.17 | 1.55 | 1.41 | 1.50 | 1.45 |
| 9 | -- | -- | -- | 1.40 | 1.77 | 1.62 | 1.31 | 1.90 | 1.32 | 1.31 | 1.49 | 1.46 | 1.42 | 2.15 | 1.45 | 1.42 | 1.49 | 1.45 |
| 10 | -- | -- | -- | 1.37 | 1.70 | 1.58 | 1.32 | 1.88 | 1.34 | 1.30 | 1.46 | 1.44 | 1.44 | 2.14 | 1.47 | 1.40 | 1.49 | 1.45 |
| 11 | -- | -- | -- | 1.20 | 1.66 | 1.55 | 1.26 | 1.84 | 1.30 | 1.25 | 1.43 | 1.42 | 1.37 | 2.21 | 1.43 | 1.36 | 1.45 | 1.40 |
| 12 | -- | -- | -- | 1.47 | 1.66 | 1.58 | 1.30 | 1.78 | 1.32 | 1.21 | 1.54 | 1.26 | 1.41 | 2.16 | 1.46 | 1.32 | 1.45 | 1.38 |
| 13 | -- | -- | -- | 1.44 | 1.69 | 1.55 | 1.35 | 1.92 | 1.37 | 1.11 | 1.28 | 1.28 | 1.50 | 2.15 | 1.54 | 1.38 | 1.46 | 1.41 |
| 14 | -- | -- | -- | 1.48 | 1.67 | 1.57 | 1.30 | 1.97 | 1.39 | 1.16 | 1.28 | 1.27 | 1.46 | 2.16 | 1.56 | 1.39 | 1.56 | 1.48 |
| 15 | -- | -- | -- | 1.27 | 1.70 | 1.58 | 1.35 | 1.96 | 1.38 | 1.19 | 1.29 | 1.27 | 1.49 | 2.15 | 1.54 | 1.44 | 1.56 | 1.50 |
| 16 | -- | -- | -- | 1.49 | 1.78 | 1.61 | 1.26 | 1.83 | 1.31 | 1.24 | 1.28 | 1.27 | 1.42 | 2.17 | 1.50 | 1.43 | 1.57 | 1.50 |
| 17 | | | | 1.40 | 1.73 | 1.61 | 1.21 | 1.93 | 1.28 | 1.26 | 1.92 | 1.33 | 1.43 | 2.17 | 1.47 | 1.45 | 1.56 | 1.51 |
| 18 | 1.53 | 1.53 | 1.53 | 1.51 | 1.76 | 1.62 | 1.26 | 1.90 | 1.28 | 1.21 | 1.29 | 1.28 | 1.45 | 2.17 | 1.48 | 1.45 | 1.62 | 1.54 |
| 19 | | | | 1.48 | 1.75 | 1.61 | 1.22 | 2.01 | 1.32 | 1.24 | 1.31 | 1.30 | 1.54 | 2.17 | 1.70 | 1.50 | 1.62 | 1.57 |
| 20 | | | | 1.51 | 1.74 | 1.61 | | | | 1.31 | 1.62 | 1.35 | | | | 1.48 | 1.62 | 1.56 |
| 21 | -- | -- | -- | 1.51 | 1.76 | 1.65 | 1.42 | 2.00 | 1.46 | 1.41 | 1.94 | 1.45 | 1.53 | 2.19 | 1.56 | 1.45 | 1.61 | 1.53 |
| 22 | -- | -- | -- | 1.51 | 1.79 | 1.67 | 1.48 | 1.98 | 1.50 | 1.42 | 2.17 | 1.53 | 1.57 | 2.19 | 1.61 | 1.44 | 1.61 | 1.53 |
| 23 | -- | -- | -- | 1.52 | 1.81 | 1.63 | 1.46 | 2.03 | 1.49 | 1.50 | 1.95 | 1.54 | 1.54 | 2.18 | 1.58 | 1.44 | 1.63 | 1.54 |
| 24 | 1.51 | 1.65 | 1.63 | 1.52 | 1.74 | 1.65 | 1.46 | 1.94 | 1.49 | 1.45 | 1.49 | 1.46 | 1.60 | 2.23 | 1.68 | 1.45 | 1.63 | 1.55 |
| 25 | 1.54 | 1.64 | 1.57 | 1.41 | 1.63 | 1.55 | 1.39 | 2.01 | 1.44 | 1.32 | 1.45 | 1.41 | 1.53 | 2.18 | 1.59 | 1.51 | 1.67 | 1.60 |
| 26 | 1.50 | 1.54 | 1.52 | 1.40 | 1.55 | 1.50 | 1.45 | 2.03 | 1.49 | 1.34 | 1.39 | 1.36 | 1.54 | 2.17 | 1.57 | 1.49 | 1.68 | 1.60 |
| 27 | -- | -- | -- | 1.48 | 1.70 | 1.62 | 1.46 | 2.01 | 1.48 | 1.34 | 1.43 | 1.41 | 1.41 | 2.19 | 1.53 | 1.51 | 1.68 | 1.62 |
| 28 | -- | -- | -- | 1.50 | 1.68 | 1.57 | 1.53 | 2.04 | 1.55 | 1.37 | 1.49 | 1.48 | -- | -- | -- | 1.50 | 1.66 | 1.60 |
| 29 | -- | -- | -- | 1.46 | 1.74 | 1.60 | 1.41 | 1.99 | 1.52 | 1.33 | 1.54 | 1.51 | 1.55 | 2.20 | 1.59 | 1.50 | 1.65 | 1.59 |
| 30 | -- | -- | -- | 1.45 | 1.77 | 1.64 | -- | -- | -- | 1.46 | 1.51 | 1.49 | -- | -- | -- | 1.47 | 1.64 | 1.58 |
| Monthly | | | | | | | | | | | | | | | | | | |
| Min/Max/Avg | 1.50 | 1.65 | 1.56 | 1.20 | 1.81 | 1.58 | 1.21 | 2.04 | 1.40 | 1.11 | 2.28 | 1.42 | 1.37 | 2.23 | 1.55 | 1.32 | 1.68 | 1.50 |

NOTES: '--' Indication Analyzer Offline

1.2.31 Phosphoric Acid Chemical Consumption

September 2024

| Day | Dosage (mg/L) | | Consumption (kg) | |
|----------------------|---------------|------------|------------------|------------|
| | Rossdale | E.L. Smith | Rossdale | E.L. Smith |
| 1 | 0.90 | 0.90 | 643 | 916 |
| 2 | 0.90 | 0.90 | 637 | 916 |
| 3 | 0.90 | 0.90 | 707 | 1,049 |
| 4 | 0.90 | 0.90 | 652 | 1,031 |
| 5 | 0.90 | 0.90 | 645 | 891 |
| 6 | 0.90 | 0.90 | 659 | 1,042 |
| 7 | 0.90 | 0.90 | 721 | 1,049 |
| 8 | 0.90 | 0.90 | 652 | 1,020 |
| 9 | 0.90 | 0.90 | 722 | 1,073 |
| 10 | 0.90 | 0.90 | 692 | 1,009 |
| 11 | 0.90 | 0.90 | 642 | 463 |
| 12 | 0.90 | 0.90 | 600 | 974 |
| 13 | 0.90 | 0.90 | 612 | 982 |
| 14 | 0.90 | 0.90 | 553 | 916 |
| 15 | 0.90 | 0.90 | 554 | 850 |
| 16 | 0.90 | 0.90 | 576 | 887 |
| 17 | 0.90 | 0.90 | 562 | 875 |
| 18 | 0.90 | 0.90 | 568 | 929 |
| 19 | 0.90 | 0.90 | 623 | 982 |
| 20 | 0.90 | 0.90 | 621 | 1,040 |
| 21 | 0.90 | 0.90 | 641 | 948 |
| 22 | 0.90 | 0.90 | 718 | 900 |
| 23 | 0.90 | 0.90 | 662 | 744 |
| 24 | 0.90 | 0.90 | 681 | 971 |
| 25 | -- | 0.90 | -- | 1,038 |
| 26 | 0.89 | 0.90 | 447 | 1,042 |
| 27 | 0.90 | 0.90 | 701 | 923 |
| 28 | 0.90 | 0.90 | 648 | 1,003 |
| 29 | 0.90 | 0.90 | 617 | 821 |
| 30 | 0.90 | 0.90 | 547 | 986 |
| Monthly Total | | | 18,302 | 28,270 |
| Monthly Avg | 0.90 | 0.90 | 631 | 942 |

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 September 2024

| Date and Time Reported | Location of Mainbreak | Repaired (Time) | Size | Type** |
|------------------------|------------------------|-----------------|------|--------|
| 9/3/2024 20:30 | 5616-138 AVENUE NW | 9/4/2024 0:55 | 150 | CI |
| 9/4/2024 22:14 | 12201-83 STREET NW | 9/5/2024 22:50 | 300 | CI |
| 9/4/2024 22:02 | 11115-44 STREET NW | 9/5/2024 16:30 | 150 | CI |
| 9/4/2024 22:10 | 11416-50 AVENUE NW | 9/5/2024 17:05 | 200 | CI |
| 9/5/2024 16:34 | 11115-44 STREET NW | 9/6/2024 2:00 | 150 | CI |
| 9/5/2024 17:45 | 11607-81 STREET NW | 9/9/2024 6:00 | 250 | CI |
| 9/7/2024 15:03 | 10310-122 AVENUE NW | 9/8/2024 1:29 | 150 | CI |
| 9/8/2024 11:57 | 12840-132 STREET NW | 9/8/2024 23:50 | 250 | CI |
| 9/11/2024 20:43 | 12541-89 STREET NW | 9/14/2024 0:45 | 200 | CI |
| 9/11/2024 21:17 | 12541-89 STREET NW | 9/12/2024 19:07 | 150 | CI |
| 9/12/2024 13:56 | 7230-89 AVENUE NW | 9/14/2024 6:00 | 200 | CI |
| 9/14/2024 0:45 | 12535-89 STREET NW | 9/14/2024 0:56 | 200 | CI |
| 9/15/2024 22:13 | 9803-165 STREET NW | 9/16/2024 22:00 | 200 | CI |
| 9/17/2024 16:13 | 12541-89 STREET NW | 9/18/2024 23:20 | 200 | CI |
| 9/22/2024 9:30 | 10239-81 STREET NW | 9/23/2024 0:19 | 150 | CI |
| 9/22/2024 15:59 | 11842-104 AVENUE NW | 9/24/2024 5:25 | 200 | CI |
| 9/23/2024 13:57 | 10615-71 AVENUE NW | 9/25/2024 21:00 | 300 | AC |
| 9/29/2024 2:09 | 13317-115 AVENUE NW | 9/29/2024 17:45 | 250 | CI |
| 9/29/2024 20:51 | 10079-JASPER AVENUE NW | 9/30/2024 19:28 | 200 | CI |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

| Month | Total Breaks By Month | **Pipe Type Explanation |
|-----------------|-----------------------|--|
| Jan-24 | 35 | CI Cast Iron Pipe |
| Feb-24 | 28 | COP Copper Pipe |
| Mar-24 | 13 | CCP Concrete Cylinder Pipe |
| Apr-24 | 18 | PVC Poly Vinyl Chloride Pipe |
| May-24 | 10 | AC Asbestos Cement Pipe |
| Jun-24 | 8 | HPLCP Hyperscon Cylinder Prestressed Lined Concrete Cylinder Pipe |
| Jul-24 | 11 | FRP Fibre Glass Pipe |
| Aug-24 | 16 | STL Steel Pipe |
| Sep-24 | 19 | HDP High Density Polyethylene |
| Oct-24 | | |
| Nov-24 | | |
| Dec-24 | | |
| YTD 2024 | 158 | |

Water Quality 2024

2.1.1 Water Quality Objectives for EPCOR

| Parameter | Approval Requirement | EPCOR Internal Limit | EPCOR Target |
|------------------------------------|----------------------|----------------------|--------------|
| Turbidity (NTU) | | | |
| Individual Filters | <0.3 | <0.1 (2) | <0.08 |
| Distribution System | N/A | < 1 (1) | < 1 |
| Distribution System (Maintenance) | N/A | < 3 (1) | < 1 |
| Colour (TCU) | <15 (3) | <10 (1) | <3 |
| pH (25°C) | 6.5 - 8.5 | 7.3 - 8.3 (1) | 7.4 - 8.0 |
| Taste and Odour | Inoffensive (3) | Inoffensive (1) | Inoffensive |
| E.coli (PA/100 mL) | absent | absent (1) | absent |
| Total Coliforms (PA/100 mL) | absent | absent (1) | absent |
| Total Chlorine Residual (mg/L) | | | |
| Water Treatment Plant Effluent | >1.0 | 1.3 - 2.4 (2) | 1.9 - 2.2 |
| Reservoirs | >0.5 | 1.0 - 2.4 (1) | 1.2 - 2.2 |
| Distribution | >0.5 (4) | 1.0 - 2.4 (1) | 1.0 - 2.2 |
| Fluoride: (mg/L) | | | |
| Reservoir Effluent | 0.5 - 0.9 | 0.6 - 0.8 (1) | 0.6 - 0.8 |
| Trihalomethanes (mg/L) | | | |
| Reservoir Effluent | <0.100 | <0.050 (1) | <0.040 |
| Distribution System | <0.100 | <0.050 (1) | <0.040 |
| UV254 % Transmittance | | | |
| E.L. Smith | | >89% (2) | >90% |
| Rossdale | | >87% (2) | >88% |
| HAA (mg/L) | | | |
| Reservoir Effluent | < 0.080 | < 0.040 (1) | <0.035 |
| Distribution System | < 0.080 | < 0.040 (1) | <0.035 |
| NDMA (mg/L): | | | |
| Reservoir Effluent | < 0.000040 | < 0.000010 (1) | <0.000005 |
| Distribution System | < 0.000040 | < 0.000010 (1) | |
| Microorganism Log Removal at Water | | | |
| <i>Giardia</i> | ≥5.5 | ≥6.0 (2) | >6.5 |
| <i>Cryptosporidium</i> | ≥5.5 | ≥5.3 (2) | >6.0 |
| Virus | ≥4.0 | ≥4.5 (2) | >5.0 |

(1) Limit based on City of Edmonton Performance Based Rate (PBR) agreement

(2) Limit based on EPCOR Action Level

(3) Aesthetic Objective

(4) in 75% of samples collected in a day

All values are expressed in units of mg/L unless otherwise stated.

Based on March 2024 Summary of Epcor Edmonton Water Quality Standards.

**2.1.2 SUMMARY OF MAJOR CHEMICALS, MICROBIOLOGICAL, AND PHYSICAL
PARAMETERS OF EDMONTON DRINKING WATER PRODUCED
AT WATER TREATMENT PLANTS**

September 2024

| Parameter | Unit | Monthly Count | Monthly Average | YTD Median | YTD Min | YTD Max | YTD Count |
|-----------------------------|-------------------------|--------------------------|----------------------------|-----------------------|--------------------|--------------------|----------------------|
| Alkalinity Total | mg CaCO ₃ /L | 59 | 116 | 118 | 8 | 141 | 543 |
| Aluminum | mg/L | 2 | 0.121 | 0.047 | 0.023 | 0.122 | 18 |
| Arsenic | mg/L | 2 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | 18 |
| Bromate Dissolved | mg/L | 8 | <0.005 | <0.005 | <0.005 | <0.005 | 78 |
| Bromodichloromethane | µg/L | 23 | 1.1 | 1.1 | <0.5 | 2.6 | 508 |
| Cadmium | mg/L | 2 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | 18 |
| Calcium Hardness | mg/L CaCO ₃ | 57 | 117 | 116 | 96 | 141 | 533 |
| Chlorate Dissolved | mg/L | 8 | 0.170 | 0.183 | <0.100 | 0.332 | 78 |
| Chloride Dissolved | mg/L | 8 | 6.44 | 6.35 | 4.78 | 12.10 | 78 |
| Chlorite Dissolved | mg/L | 8 | <0.01 | <0.20 | <0.20 | <0.20 | 78 |
| Chromium | mg/L | 2 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | 18 |
| Colour | TCU | 59 | 1.0 | 0.9 | <0.5 | 1.9 | 543 |
| Conductivity | µS/cm | 8 | 395 | 402 | 342 | 453 | 78 |
| Copper | mg/L | 2 | <0.0020 | <0.0050 | <0.0050 | <0.0050 | 18 |
| Cryptosporidium | oocysts/100L | 2 | <0.1 | <0.1 | <0.1 | <0.1 | 14 |
| Fluoride | mg/L | 59 | 0.69 | 0.68 | 0.61 | 0.79 | 543 |
| Giardia | cysts/100L | 2 | <0.1 | <0.1 | <0.1 | <0.1 | 14 |
| Iron | mg/L | 2 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 18 |
| Lead | mg/L | 2 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | 18 |
| Manganese | mg/L | 2 | <0.0020 | <0.0020 | <0.0020 | <0.0020 | 18 |
| Mercury | mg/L | 2 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | 18 |
| Nitrate (as N) Dissolved | mg/L | 8 | 0.013 | 0.040 | <0.010 | 0.170 | 78 |
| Nitrite (as N) Dissolved | mg/L | 8 | <0.01 | <0.01 | <0.01 | 0.02 | 78 |
| pH | N/A | 59 | 7.8 | 7.9 | 7.5 | 8.3 | 544 |
| Potassium | mg/L | 2 | 0.74 | 0.80 | 0.70 | 1.10 | 18 |
| Sodium | mg/L | 2 | 8.43 | 11.15 | 6.80 | 18.90 | 18 |
| Sulphate Dissolved | mg/L | 8 | 73.5 | 73.1 | 59.5 | 95.1 | 78 |
| Total Chlorine | N/A | 59 | 2.27 | 2.17 | 1.87 | 2.40 | 543 |
| Total Dissolved Solids | mg/L | 2 | 225 | 233 | 195 | 252 | 18 |
| Total Hardness | mg/L CaCO ₃ | 57 | 177 | 177 | 145 | 218 | 533 |
| Total Organic Carbon | mg/L C | 8 | 1.6 | 1.4 | 0.9 | 2.8 | 78 |
| Trihalomethanes | µg/L | 23 | 24.7 | 17.6 | 5.1 | 39.9 | 508 |
| Turbidity | NTU | 59 | 0.05 | <0.04 | <0.04 | 0.21 | 543 |
| Uranium | mg/L | 2 | <0.0005 | <0.0005 | <0.0005 | 0.0006 | 18 |
| Zinc | mg/L | 2 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 18 |
| Bacteriological Data | | | | | | | |
| Coliforms, total | PA/100mL | 59 | Absent | Absent | Absent | Absent | 543 |
| E. coli | PA/100mL | 59 | Absent | Absent | Absent | Absent | 543 |

2.1.3 SUMMARY OF LABORATORY ANALYSIS - 2024

DISTRIBUTION OF TESTING

Drinking Water Testing

| | | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Total |
|--------------------------------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| Water Treatment Plant | # Tests | 10,442 | 9,566 | 10,736 | 10,143 | 9,855 | 10,053 | 10,306 | 10,156 | 6,169 | 87,426 |
| | # Samples | 261 | 248 | 326 | 269 | 264 | 260 | 268 | 273 | 257 | 2,426 |
| Field Reservoirs | # Tests | 1,936 | 1,721 | 1,695 | 1,883 | 1,734 | 2,006 | 2,225 | 1,917 | 1,779 | 16,896 |
| | # Samples | 63 | 52 | 52 | 65 | 49 | 53 | 66 | 54 | 52 | 506 |
| Routine Distribution System | # Tests | 2,740 | 2,879 | 2,734 | 2,845 | 2,901 | 2,692 | 2,424 | 2,401 | 2,142 | 23,758 |
| | # Samples | 146 | 153 | 146 | 153 | 144 | 124 | 99 | 106 | 103 | 1,174 |
| System Depressurization/Repair | # Tests | 1,050 | 720 | 555 | 675 | 660 | 630 | 628 | 480 | 723 | 6,121 |
| | # Samples | 70 | 48 | 37 | 45 | 44 | 42 | 42 | 32 | 48 | 408 |
| Customer Complaints | # Tests | 1,395 | 651 | 1,209 | 1,488 | 1,023 | 1,209 | 1,009 | 1,731 | 952 | 10,667 |
| | # Samples | 15 | 7 | 13 | 16 | 11 | 13 | 11 | 19 | 13 | 118 |
| Total | # Tests | 17,563 | 15,537 | 16,929 | 17,034 | 16,173 | 16,590 | 16,592 | 16,685 | 11,765 | 144,868 |
| | # Samples | 555 | 508 | 574 | 548 | 512 | 492 | 486 | 484 | 473 | 4,632 |

Additional Testing

| | | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Total |
|--|-----------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| New Watermain Testing | # Tests | 80 | 30 | 0 | 10 | 135 | 160 | 495 | 275 | 305 | 1,490 |
| | # Samples | 17 | 6 | 0 | 2 | 27 | 32 | 99 | 55 | 61 | 299 |
| Water Treatment Plant Waste Discharge | # Tests | 168 | 43 | 173 | 117 | 300 | 327 | 284 | 595 | 68 | 2,075 |
| | # Samples | 56 | 33 | 36 | 45 | 55 | 51 | 50 | 52 | 34 | 412 |
| Quality Control | # Tests | 5,961 | 6,042 | 6,091 | 5,937 | 6,055 | 6,793 | 8,719 | 8,020 | 5,721 | 59,339 |
| | # Samples | 1,187 | 1,056 | 1,193 | 1,186 | 1,244 | 1,418 | 1,629 | 1,747 | 1,581 | 12,241 |
| Distribution Water Enhanced Surveillance | # Tests | 0 | 0 | 0 | 0 | 0 | 540 | 1,337 | 1,091 | 960 | 3,928 |
| | # Samples | 0 | 0 | 0 | 0 | 0 | 20 | 53 | 45 | 40 | 158 |
| Externally Contracted Analyses | # Tests | 405 | 672 | 316 | 307 | 949 | 798 | 832 | 595 | 7,210 | 12,084 |
| | # Samples | 134 | 120 | 157 | 136 | 140 | 122 | 139 | 130 | 240 | 1,318 |
| Total | # Tests | 6,614 | 6,787 | 6,580 | 6,371 | 7,439 | 8,618 | 11,667 | 10,576 | 14,264 | 78,916 |
| | # Samples | 1,394 | 1,215 | 1,386 | 1,369 | 1,466 | 1,643 | 1,970 | 2,029 | 1,956 | 14,428 |

| | | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Total |
|--------------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| Total | # Tests | 24,177 | 22,324 | 23,509 | 23,405 | 23,612 | 25,208 | 28,259 | 27,261 | 26,029 | 223,784 |
| | # Samples | 1,825 | 1,611 | 1,848 | 1,793 | 1,842 | 2,022 | 2,327 | 2,399 | 2,198 | 17,865 |

2.1.4 QUALITY ASSURANCE – September 2024

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 August 2024 and supersedes all previous electronic and printed versions, including the Sixth Edition published in 1996. Guideline limits are listed as Maximum Acceptable Concentrations (MACs), Aesthetic Objectives (AO) or Operational Guidelines (OG). The latest edition of the Health Canada Guidelines includes parameter types, common 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 resampling. 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 180 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 concentrations of a measured parameter exceeds the AEP *Approval-to-Operate* limits, including the MACs for the GCDWQ parameters listed Schedule 4.

“*Variations*” occur when the concentration of a measured parameter exceeds EPCOR’s own internal water quality objectives. See section 2.1.1 of this report for EPCOR’s internal water quality objectives.

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

Current month: **0** YTD Total: **3**

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

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

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

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

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

| Sample Type | This Month | YTD |
|--------------------------|------------|-----|
| Depressurization Samples | 0 | 1 |
| Complaint Samples | 0 | 0 |
| Random Samples | 0 | 2 |
| Reservoirs | 0 | 0 |
| TOTAL (Distribution) | 0 | 3 |

2.1.4.5 **Variations from EPCOR Water Services Water Quality Objectives at the Water Treatment Plants**

| Variance Category ¹ | This Month | YTD |
|--|------------|-----------|
| Aluminium ² > 0.20 or 0.10 mg/L | 2 | 2 |
| Turbidity > 1 NTU | 0 | 0 |
| Chlorine < 1 mg/L or > 2.4 mg/L | 0 | 0 |
| <i>Cryptosporidium</i> ≥ 1/1000 L | 0 | 0 |
| <i>Giardia</i> ≥ 1/1000 L | 0 | 0 |
| Other | 0 | 2 |
| Total Variances + Violations | 2 + 0 = 0 | 4 + 0 = 0 |

Notes: 1) Variance statistics include any violations.

2) As of January 15, 2024 both ELS and ROS WTP converted back to Conventional Filtration mode. Aluminium limit changes from 0.1 mg/L to 0.2 mg/L (operational guideline), when in Direct Filtration.

2.1.4.6

Variations from EPCOR Water Services Water Quality Objectives in the Field Reservoirs and Distribution System

| Variance Category ¹ | This Month | YTD |
|---|--------------------|----------------------|
| Turbidity > 1 NTU | 17 | 128 |
| Chlorine < 1 mg/L or > 2.4 mg/L | 4 | 14 |
| Single Positive Coliform | 0 | 9 |
| THMs > 50 µg/L | 0 | 0 |
| Pipe Lube, Odour, UV positive | 0 | 1 |
| Aluminium ² > 0.20 (or 0.1) mg/L | 3 | 30 |
| Iron > 0.300 mg/L | 1 | 5 |
| Other | 0 | 3 |
| Total Variations + Violations | 25 + 0 = 25 | 190 + 3 = 193 |

Notes: 1) Variance statistics include any violations.

2) As of January 15, 2024 both ELS and ROS WTP converted back to Conventional Filtration mode. Aluminium limit changes from 0.1 mg/L to 0.2 mg/L (operational guideline), when in Direct Filtration.

2.1.4.7

Variations from EPCOR Water Services Water Quality Objectives (Lab Waste Streams)

No variations to report for lab waste streams.

2.2.1 Bacteriological Data: Water Treatment Plants

2024

| | Coliforms, total | | | | | E. coli | | | | | cATP (pg/mL) | | | | |
|---|------------------|-------|-------|------|-----|---------|-------|-------|------|-----|--------------|-------|------|------|------|
| | Count | # +ve | % +ve | Mean | Min | Max | # +ve | % +ve | Mean | Min | Max | Count | Mean | Min | Max |
| January | | | | | | | | | | | | | | | |
| Rossdale Raw (MPN/100mL) | 32 | | | 133 | 1 | 517 | | | 13 | 1 | 40 | 1 | 44.7 | 44.7 | 44.7 |
| E.L. Smith Raw (MPN/100mL) | 5 | | | 41 | 28 | 53 | | | 2 | 1 | 3 | 1 | 14.2 | 14.2 | 14.2 |
| Raw River Water Entering the Treatment Plants | 37 | | | 121 | 1 | 517 | | | 11 | 1 | 40 | 2 | 29.4 | 14.2 | 44.7 |
| Rossdale Treated (PA/100mL) | 31 | 0 | 0.0 | | | | 0 | 0.0 | | | | 31 | 0.44 | 0.10 | 1.00 |
| E.L. Smith Treated (PA/100mL) | 30 | 0 | 0.0 | | | | 0 | 0.0 | | | | 30 | 0.50 | 0.12 | 1.00 |
| Water Entering the Plant Reservoir | 61 | 0 | 0.0 | | | | 0 | 0.0 | | | | 61 | 0.47 | 0.10 | 1.00 |
| Rossdale Reservoir (PA/100mL) | 31 | 0 | 0.0 | | | | 0 | 0.0 | | | | 31 | 0.45 | 0.10 | 1.00 |
| E.L. Smith Reservoir (PA/100mL) | 30 | 0 | 0.0 | | | | 0 | 0.0 | | | | 30 | 0.52 | 0.10 | 1.00 |
| Treated Water Entering the Distribution System | 61 | 0 | 0.0 | | | | 0 | 0.0 | | | | 61 | 0.49 | 0.10 | 1.00 |
| February | | | | | | | | | | | | | | | |
| Rossdale Raw (MPN/100mL) | 29 | | | 144 | 1 | 816 | | | 12 | 1 | 44 | 1 | 17.0 | 17.0 | 17.0 |
| E.L. Smith Raw (MPN/100mL) | 4 | | | 18 | 12 | 28 | | | 1 | 1 | 2 | 1 | 11.8 | 11.8 | 11.8 |
| Raw River Water Entering the Treatment Plants | 33 | | | 129 | 1 | 816 | | | 10 | 1 | 44 | 2 | 14.4 | 11.8 | 17.0 |
| Rossdale Treated (PA/100mL) | 28 | 0 | 0.0 | | | | 0 | 0.0 | | | | 28 | 0.73 | 0.11 | 1.00 |
| E.L. Smith Treated (PA/100mL) | 29 | 0 | 0.0 | | | | 0 | 0.0 | | | | 29 | 0.64 | 0.11 | 1.48 |
| Water Entering the Plant Reservoir | 57 | 0 | 0.0 | | | | 0 | 0.0 | | | | 57 | 0.69 | 0.11 | 1.48 |
| Rossdale Reservoir (PA/100mL) | 28 | 0 | 0.0 | | | | 0 | 0.0 | | | | 28 | 0.74 | 0.11 | 1.00 |
| E.L. Smith Reservoir (PA/100mL) | 29 | 0 | 0.0 | | | | 0 | 0.0 | | | | 29 | 0.68 | 0.11 | 1.00 |
| Treated Water Entering the Distribution System | 57 | 0 | 0.0 | | | | 0 | 0.0 | | | | 57 | 0.71 | 0.11 | 1.00 |

2.2.1 Bacteriological Data: Water Treatment Plants

2024

| | Coliforms, total | | | | | | E. coli | | | | | cATP (pg/mL) | | | |
|---|------------------|----------|------------|--------------|----------|---------------|----------|------------|-----------|----------|--------------|--------------|-------------|-------------|-------------|
| | Count | # +ve | % +ve | Mean | Min | Max | # +ve | % +ve | Mean | Min | Max | Count | Mean | Min | Max |
| March | | | | | | | | | | | | | | | |
| Rossdale Raw (MPN/100mL) | 32 | | | 1,469 | 1 | 13,700 | | | 87 | 1 | 1,760 | 1 | 293 | 293 | 293 |
| E.L. Smith Raw (MPN/100mL) | 4 | | | 2,505 | 8 | 9,770 | | | 16 | 1 | 62 | 1 | 60.7 | 60.7 | 60.7 |
| Raw River Water Entering the Treatment Plants | 36 | | | 1,584 | 1 | 13,700 | | | 79 | 1 | 1,760 | 2 | 177 | 60.7 | 293 |
| Rossdale Treated (PA/100mL) | 31 | 0 | 0.0 | | | | 0 | 0.0 | | | | 31 | 0.70 | 0.12 | 1.00 |
| E.L. Smith Treated (PA/100mL) | 31 | 0 | 0.0 | | | | 0 | 0.0 | | | | 31 | 0.77 | 0.13 | 1.00 |
| Water Entering the Plant Reservoir | 62 | 0 | 0.0 | | | | 0 | 0.0 | | | | 62 | 0.74 | 0.12 | 1.00 |
| Rossdale Reservoir (PA/100mL) | 31 | 0 | 0.0 | | | | 0 | 0.0 | | | | 31 | 0.71 | 0.10 | 1.00 |
| E.L. Smith Reservoir (PA/100mL) | 31 | 0 | 0.0 | | | | 0 | 0.0 | | | | 31 | 0.67 | 0.11 | 1.00 |
| Treated Water Entering the Distribution System | 62 | 0 | 0.0 | | | | 0 | 0.0 | | | | 62 | 0.69 | 0.10 | 1.00 |
| April | | | | | | | | | | | | | | | |
| Rossdale Raw (MPN/100mL) | 31 | | | 208 | 1 | 1,120 | | | 9 | 1 | 58 | 1 | 92.2 | 92.2 | 92.2 |
| E.L. Smith Raw (MPN/100mL) | 4 | | | 353 | 91 | 980 | | | 2 | 1 | 5 | 1 | 126 | 126 | 126 |
| Raw River Water Entering the Treatment Plants | 35 | | | 225 | 1 | 1,120 | | | 8 | 1 | 58 | 2 | 109 | 92.2 | 126 |
| Rossdale Treated (PA/100mL) | 30 | 0 | 0.0 | | | | 0 | 0.0 | | | | 30 | 0.66 | 0.14 | 1.00 |
| E.L. Smith Treated (PA/100mL) | 30 | 0 | 0.0 | | | | 0 | 0.0 | | | | 30 | 0.57 | 0.10 | 1.00 |
| Water Entering the Plant Reservoir | 60 | 0 | 0.0 | | | | 0 | 0.0 | | | | 60 | 0.61 | 0.10 | 1.00 |
| Rossdale Reservoir (PA/100mL) | 30 | 0 | 0.0 | | | | 0 | 0.0 | | | | 30 | 0.58 | 0.11 | 1.00 |
| E.L. Smith Reservoir (PA/100mL) | 30 | 0 | 0.0 | | | | 0 | 0.0 | | | | 30 | 0.56 | 0.10 | 1.00 |
| Treated Water Entering the Distribution System | 60 | 0 | 0.0 | | | | 0 | 0.0 | | | | 60 | 0.57 | 0.10 | 1.00 |

2.2.1 Bacteriological Data: Water Treatment Plants

2024

| | Coliforms, total | | | | | E. coli | | | | | cATP (pg/mL) | | | | |
|---|------------------|-------|-------|------|-----|---------|-------|-------|------|-----|--------------|-------|------|------|------|
| | Count | # +ve | % +ve | Mean | Min | Max | # +ve | % +ve | Mean | Min | Max | Count | Mean | Min | Max |
| May | | | | | | | | | | | | | | | |
| Rossdale Raw (MPN/100mL) | 30 | | | 174 | 1 | 517 | | | 16 | 1 | 63 | 1 | 121 | 121 | 121 |
| E.L. Smith Raw (MPN/100mL) | 5 | | | 194 | 43 | 276 | | | 9 | 2 | 22 | 1 | 99.6 | 99.6 | 99.6 |
| Raw River Water Entering the Treatment Plants | 35 | | | 177 | 1 | 517 | | | 15 | 1 | 63 | 2 | 110 | 99.6 | 121 |
| Rossdale Treated (PA/100mL) | 29 | 0 | 0.0 | | | | 0 | 0.0 | | | | 29 | 0.49 | 0.10 | 1.02 |
| E.L. Smith Treated (PA/100mL) | 31 | 0 | 0.0 | | | | 0 | 0.0 | | | | 31 | 0.44 | 0.11 | 1.00 |
| Water Entering the Plant Reservoir | 60 | 0 | 0.0 | | | | 0 | 0.0 | | | | 60 | 0.46 | 0.10 | 1.02 |
| Rossdale Reservoir (PA/100mL) | 29 | 0 | 0.0 | | | | 0 | 0.0 | | | | 29 | 0.50 | 0.10 | 1.00 |
| E.L. Smith Reservoir (PA/100mL) | 31 | 0 | 0.0 | | | | 0 | 0.0 | | | | 31 | 0.42 | 0.11 | 1.00 |
| Treated Water Entering the Distribution System | 60 | 0 | 0.0 | | | | 0 | 0.0 | | | | 60 | 0.46 | 0.10 | 1.00 |
| June | | | | | | | | | | | | | | | |
| Rossdale Raw (MPN/100mL) | 31 | | | 158 | 1 | 1,410 | | | 8 | 1 | 45 | 1 | 77.0 | 77.0 | 77.0 |
| E.L. Smith Raw (MPN/100mL) | 4 | | | 131 | 48 | 249 | | | 7 | 2 | 15 | 1 | 66.5 | 66.5 | 66.5 |
| Raw River Water Entering the Treatment Plants | 35 | | | 155 | 1 | 1,410 | | | 8 | 1 | 45 | 2 | 71.8 | 66.5 | 77.0 |
| Rossdale Treated (PA/100mL) | 30 | 0 | 0.0 | | | | 0 | 0.0 | | | | 30 | 0.66 | 0.14 | 1.00 |
| E.L. Smith Treated (PA/100mL) | 30 | 0 | 0.0 | | | | 0 | 0.0 | | | | 30 | 0.61 | 0.10 | 1.00 |
| Water Entering the Plant Reservoir | 60 | 0 | 0.0 | | | | 0 | 0.0 | | | | 60 | 0.64 | 0.10 | 1.00 |
| Rossdale Reservoir (PA/100mL) | 30 | 0 | 0.0 | | | | 0 | 0.0 | | | | 30 | 0.73 | 0.12 | 1.00 |
| E.L. Smith Reservoir (PA/100mL) | 30 | 0 | 0.0 | | | | 0 | 0.0 | | | | 30 | 0.71 | 0.10 | 1.03 |
| Treated Water Entering the Distribution System | 60 | 0 | 0.0 | | | | 0 | 0.0 | | | | 60 | 0.72 | 0.10 | 1.03 |

2.2.1 Bacteriological Data: Water Treatment Plants

2024

| | Coliforms, total | | | | | | E. coli | | | | | cATP (pg/mL) | | | |
|---|------------------|----------|------------|--------------|------------|---------------|----------|------------|------------|----------|--------------|--------------|-------------|-------------|-------------|
| | Count | # +ve | % +ve | Mean | Min | Max | # +ve | % +ve | Mean | Min | Max | Count | Mean | Min | Max |
| July | | | | | | | | | | | | | | | |
| Rossdale Raw (MPN/100mL) | 31 | | | 1,838 | 179 | 22,400 | | | 51 | 1 | 538 | 1 | 80.6 | 80.6 | 80.6 |
| E.L. Smith Raw (MPN/100mL) | 5 | | | 912 | 162 | 1,990 | | | 38 | 1 | 115 | 1 | 50.6 | 50.6 | 50.6 |
| Raw River Water Entering the Treatment Plants | 36 | | | 1,709 | 162 | 22,400 | | | 50 | 1 | 538 | 2 | 65.6 | 50.6 | 80.6 |
| Rossdale Treated (PA/100mL) | 31 | 0 | 0.0 | | | | 0 | 0.0 | | | | 31 | 0.89 | 0.12 | 1.00 |
| E.L. Smith Treated (PA/100mL) | 31 | 0 | 0.0 | | | | 0 | 0.0 | | | | 31 | 0.89 | 0.12 | 1.00 |
| Water Entering the Plant Reservoir | 62 | 0 | 0.0 | | | | 0 | 0.0 | | | | 62 | 0.89 | 0.12 | 1.00 |
| Rossdale Reservoir (PA/100mL) | 31 | 0 | 0.0 | | | | 0 | 0.0 | | | | 31 | 0.91 | 0.10 | 1.00 |
| E.L. Smith Reservoir (PA/100mL) | 31 | 0 | 0.0 | | | | 0 | 0.0 | | | | 31 | 0.86 | 0.11 | 1.00 |
| Treated Water Entering the Distribution System | 62 | 0 | 0.0 | | | | 0 | 0.0 | | | | 62 | 0.89 | 0.10 | 1.00 |
| August | | | | | | | | | | | | | | | |
| Rossdale Raw (MPN/100mL) | 32 | | | 1,548 | 1 | 11,600 | | | 156 | 1 | 1,450 | 1 | 56.3 | 56.3 | 56.3 |
| E.L. Smith Raw (MPN/100mL) | 9 | | | 504 | 218 | 1,300 | | | 25 | 11 | 77 | 1 | 59.6 | 59.6 | 59.6 |
| Raw River Water Entering the Treatment Plants | 41 | | | 1,319 | 1 | 11,600 | | | 128 | 1 | 1,450 | 2 | 57.9 | 56.3 | 59.6 |
| Rossdale Treated (PA/100mL) | 31 | 0 | 0.0 | | | | 0 | 0.0 | | | | 31 | 0.97 | 0.11 | 1.00 |
| E.L. Smith Treated (PA/100mL) | 31 | 0 | 0.0 | | | | 0 | 0.0 | | | | 31 | 0.94 | 0.12 | 1.00 |
| Water Entering the Plant Reservoir | 62 | 0 | 0.0 | | | | 0 | 0.0 | | | | 62 | 0.96 | 0.11 | 1.00 |
| Rossdale Reservoir (PA/100mL) | 31 | 0 | 0.0 | | | | 0 | 0.0 | | | | 31 | 0.97 | 0.13 | 1.00 |
| E.L. Smith Reservoir (PA/100mL) | 31 | 0 | 0.0 | | | | 0 | 0.0 | | | | 31 | 0.97 | 0.10 | 1.00 |
| Treated Water Entering the Distribution System | 62 | 0 | 0.0 | | | | 0 | 0.0 | | | | 62 | 0.97 | 0.10 | 1.00 |

2.2.1 Bacteriological Data: Water Treatment Plants

2024

| | Coliforms, total | | | | | E. coli | | | | | cATP (pg/mL) | | | | |
|---|------------------|-------|-------|------|-----|---------|-------|-------|------|-----|--------------|-------|------|------|------|
| | Count | # +ve | % +ve | Mean | Min | Max | # +ve | % +ve | Mean | Min | Max | Count | Mean | Min | Max |
| September | | | | | | | | | | | | | | | |
| Rossdale Raw (MPN/100mL) | 30 | | | 373 | 1 | 1,414 | | | 25 | 1 | 124 | 1 | 29.3 | 29.3 | 29.3 |
| E.L. Smith Raw (MPN/100mL) | 4 | | | 215 | 53 | 579 | | | 17 | 6 | 34 | 0 | | | |
| Raw River Water Entering the Treatment Plants | 34 | | | 354 | 1 | 1,414 | | | 24 | 1 | 124 | 1 | 29.3 | 29.3 | 29.3 |
| Rossdale Treated (PA/100mL) | 30 | 0 | 0.0 | | | | 0 | 0.0 | | | | 30 | 1.47 | 0.11 | 18.5 |
| E.L. Smith Treated (PA/100mL) | 30 | 0 | 0.0 | | | | 0 | 0.0 | | | | 30 | 0.71 | 0.10 | 1.00 |
| Water Entering the Plant Reservoir | 60 | 0 | 0.0 | | | | 0 | 0.0 | | | | 60 | 1.09 | 0.10 | 18.5 |
| Rossdale Reservoir (PA/100mL) | 29 | 0 | 0.0 | | | | 0 | 0.0 | | | | 29 | 0.94 | 0.12 | 1.00 |
| E.L. Smith Reservoir (PA/100mL) | 30 | 0 | 0.0 | | | | 0 | 0.0 | | | | 30 | 0.86 | 0.12 | 1.00 |
| Treated Water Entering the Distribution System | 59 | 0 | 0.0 | | | | 0 | 0.0 | | | | 59 | 0.90 | 0.12 | 1.00 |

PA = present or absent, MPN = most probable number, cATP = cellular adenosine triphosphate

**2.2.2 Bacteriological Data: Distribution System
2024**

| | Coliforms, total (PA/100 mL) | | | E. coli (PA/100 mL) | | cATP (pg/mL) | | | |
|--|---------------------------------|-------|-------|------------------------|-------|-----------------|------|------|------|
| | Count | # +ve | % +ve | # +ve | % +ve | Count | Mean | Min | Max |
| January | | | | | | | | | |
| Complaint Water | 15 | 0 | 0.0 | 0 | 0.0 | 15 | 0.36 | 0.14 | 1.50 |
| FIELD DISTRIBUTION | 146 | 0 | 0.0 | 0 | 0.0 | 55 | 0.28 | 0.11 | 0.86 |
| FIELD DISTRIBUTION - PLPH | 55 | 1 | 1.8 | 0 | 0.0 | | | | |
| FIELD RESERVOIR | 63 | 0 | 0.0 | 0 | 0.0 | 63 | 0.36 | 0.11 | 1.26 |
| FIELD RESERVOIR - PLPH (duplicate-not counted) | 63 | 0 | 0.0 | 0 | 0.0 | | | | |
| Monthly | 224 | 1 | 0.4 | 0 | 0.0 | 133 | 0.33 | 0.11 | 1.50 |
| February | | | | | | | | | |
| Complaint Water | 7 | 0 | 0.0 | 0 | 0.0 | 7 | 0.17 | 0.12 | 0.32 |
| FIELD DISTRIBUTION | 153 | 0 | 0.0 | 0 | 0.0 | 54 | 0.21 | 0.10 | 1.09 |
| FIELD DISTRIBUTION - PLPH | 54 | 0 | 0.0 | 0 | 0.0 | | | | |
| FIELD RESERVOIR | 52 | 0 | 0.0 | 0 | 0.0 | 52 | 0.20 | 0.10 | 0.51 |
| FIELD RESERVOIR - PLPH (duplicate-not counted) | 52 | 0 | 0.0 | 0 | 0.0 | | | | |
| Monthly | 212 | 0 | 0.0 | 0 | 0.0 | 113 | 0.20 | 0.10 | 1.09 |
| March | | | | | | | | | |
| Complaint Water | 13 | 0 | 0.0 | 0 | 0.0 | 13 | 0.18 | 0.11 | 0.42 |
| FIELD DISTRIBUTION | 146 | 0 | 0.0 | 0 | 0.0 | 54 | 0.28 | 0.11 | 0.96 |
| FIELD DISTRIBUTION - PLPH | 54 | 0 | 0.0 | 0 | 0.0 | | | | |
| FIELD RESERVOIR | 52 | 0 | 0.0 | 0 | 0.0 | 52 | 0.23 | 0.10 | 0.80 |
| FIELD RESERVOIR - PLPH (duplicate-not counted) | 52 | 0 | 0.0 | 0 | 0.0 | | | | |
| Monthly | 211 | 0 | 0.0 | 0 | 0.0 | 119 | 0.25 | 0.10 | 0.96 |
| April | | | | | | | | | |
| Complaint Water | 16 | 0 | 0.0 | 0 | 0.0 | 16 | 0.35 | 0.12 | 0.75 |
| FIELD DISTRIBUTION | 153 | 1 | 0.7 | 0 | 0.0 | 55 | 0.29 | 0.10 | 2.48 |
| FIELD DISTRIBUTION - PLPH | 54 | 0 | 0.0 | 0 | 0.0 | | | | |
| FIELD RESERVOIR | 65 | 0 | 0.0 | 0 | 0.0 | 65 | 0.35 | 0.10 | 1.67 |
| FIELD RESERVOIR - PLPH (duplicate-not counted) | 64 | 0 | 0.0 | 0 | 0.0 | | | | |
| Monthly | 234 | 1 | 0.4 | 0 | 0.0 | 136 | 0.33 | 0.10 | 2.48 |

**2.2.2 Bacteriological Data: Distribution System
2024**

| | Coliforms, total (PA/100 mL) | | | E. coli (PA/100 mL) | | cATP (pg/mL) | | | |
|--|---------------------------------|-------|-------|------------------------|-------|-----------------|------|------|-------|
| | Count | # +ve | % +ve | # +ve | % +ve | Count | Mean | Min | Max |
| May | | | | | | | | | |
| Complaint Water | 11 | 0 | 0.0 | 0 | 0.0 | 11 | 0.27 | 0.10 | 0.49 |
| FIELD DISTRIBUTION | 144 | 0 | 0.0 | 0 | 0.0 | 54 | 0.43 | 0.12 | 1.46 |
| FIELD DISTRIBUTION - PLPH | 54 | 0 | 0.0 | 0 | 0.0 | | | | |
| FIELD RESERVOIR | 49 | 0 | 0.0 | 0 | 0.0 | 49 | 0.58 | 0.10 | 2.93 |
| FIELD RESERVOIR - PLPH (duplicate-not counted) | 49 | 0 | 0.0 | 0 | 0.0 | | | | |
| Monthly | 204 | 0 | 0.0 | 0 | 0.0 | 114 | 0.47 | 0.10 | 2.93 |
| June | | | | | | | | | |
| Complaint Water | 13 | 0 | 0.0 | 0 | 0.0 | 13 | 0.39 | 0.11 | 0.91 |
| FIELD DISTRIBUTION | 124 | 0 | 0.0 | 0 | 0.0 | 58 | 0.39 | 0.11 | 0.93 |
| FIELD DISTRIBUTION - PLPH | 54 | 0 | 0.0 | 0 | 0.0 | | | | |
| FIELD RESERVOIR | 52 | 0 | 0.0 | 0 | 0.0 | 52 | 0.49 | 0.10 | 3.85 |
| FIELD RESERVOIR - PLPH (duplicate-not counted) | 51 | 0 | 0.0 | 0 | 0.0 | | | | |
| Monthly | 189 | 0 | 0.0 | 0 | 0.0 | 123 | 0.43 | 0.10 | 3.85 |
| July | | | | | | | | | |
| Complaint Water | 11 | 0 | 0.0 | 0 | 0.0 | 11 | 0.64 | 0.24 | 1.66 |
| FIELD DISTRIBUTION | 99 | 2 | 2.0 | 0 | 0.0 | 59 | 0.19 | 0.11 | 0.41 |
| FIELD DISTRIBUTION - PLPH | 58 | 0 | 0.0 | 0 | 0.0 | | | | |
| FIELD RESERVOIR | 66 | 0 | 0.0 | 0 | 0.0 | 66 | 0.52 | 0.11 | 2.40 |
| FIELD RESERVOIR - PLPH (duplicate-not counted) | 65 | 0 | 0.0 | 0 | 0.0 | | | | |
| Monthly | 176 | 2 | 1.1 | 0 | 0.0 | 136 | 0.37 | 0.11 | 2.40 |
| August | | | | | | | | | |
| Complaint Water | 19 | 0 | 0.0 | 0 | 0.0 | 19 | 4.04 | 0.10 | 42.04 |
| FIELD DISTRIBUTION | 105 | 0 | 0.0 | 0 | 0.0 | 63 | 0.28 | 0.11 | 1.69 |
| FIELD DISTRIBUTION - PLPH | 56 | 0 | 0.0 | 0 | 0.0 | | | | |
| FIELD RESERVOIR | 53 | 0 | 0.0 | 0 | 0.0 | 53 | 0.59 | 0.10 | 4.37 |
| FIELD RESERVOIR - PLPH (duplicate-not counted) | 52 | 0 | 0.0 | 0 | 0.0 | | | | |
| Monthly | 177 | 0 | 0.0 | 0 | 0.0 | 135 | 0.88 | 0.10 | 42.04 |

**2.2.2 Bacteriological Data: Distribution System
2024**

| | Coliforms, total (PA/100 mL) | | | E. coli (PA/100 mL) | | cATP (pg/mL) | | | |
|--|---------------------------------|-------|-------|------------------------|-------|-----------------|------|------|-------|
| | Count | # +ve | % +ve | # +ve | % +ve | Count | Mean | Min | Max |
| September | | | | | | | | | |
| Complaint Water | 13 | 0 | 0.0 | 0 | 0.0 | 13 | 0.48 | 0.14 | 1.12 |
| FIELD DISTRIBUTION | 104 | 0 | 0.0 | 0 | 0.0 | 61 | 0.31 | 0.10 | 1.08 |
| FIELD DISTRIBUTION - PLPH | 58 | 0 | 0.0 | 0 | 0.0 | | | | |
| FIELD RESERVOIR | 52 | 0 | 0.0 | 0 | 0.0 | 52 | 0.56 | 0.10 | 2.76 |
| FIELD RESERVOIR - PLPH (duplicate-not counted) | 52 | 0 | 0.0 | 0 | 0.0 | | | | |
| Monthly | 169 | 0 | 0.0 | 0 | 0.0 | 126 | 0.42 | 0.10 | 2.76 |
| Year to Date | 2,293 | 4 | 0.2 | 0 | 0.0 | 1,135 | 0.42 | 0.10 | 42.04 |

Guidelines for Canadian Drinking Water Quality recommend 195 bacteriological samples for a city the size of Edmonton. Total Coliform and E.coli testing is required in the AEP Approval. At least 95 of the 195 samples must be tested at ProvLab each month according to our Operations Program.

Testing conducted by Laboratory for Provincial Laboratory for Public Health (ProvLAB) are labelled with PLPH.

**2.2.2 Bacteriological Data: Distribution System
2024**

| | Coliforms, total (PA/100 mL) | | | E. coli (PA/100 mL) | | cATP (pg/mL) | | | | |
|---------------------------------------|---------------------------------|-------|-------|------------------------|-------|-----------------|------|------|-------|-------|
| | Count | # +ve | % +ve | # +ve | % +ve | Count | Mean | Min | Max | |
| Samples from Complaints | | | | | | | | | | |
| January | 15 | 0 | 0.0 | 0 | 0.0 | 15 | 0.36 | 0.14 | 1.50 | |
| February | 7 | 0 | 0.0 | 0 | 0.0 | 7 | 0.17 | 0.12 | 0.32 | |
| March | 13 | 0 | 0.0 | 0 | 0.0 | 13 | 0.18 | 0.11 | 0.42 | |
| April | 16 | 0 | 0.0 | 0 | 0.0 | 16 | 0.35 | 0.12 | 0.75 | |
| May | 11 | 0 | 0.0 | 0 | 0.0 | 11 | 0.27 | 0.10 | 0.49 | |
| June | 13 | 0 | 0.0 | 0 | 0.0 | 13 | 0.39 | 0.11 | 0.91 | |
| July | 11 | 0 | 0.0 | 0 | 0.0 | 11 | 0.64 | 0.24 | 1.66 | |
| August | 19 | 0 | 0.0 | 0 | 0.0 | 19 | 4.04 | 0.10 | 42.04 | |
| September | 13 | 0 | 0.0 | 0 | 0.0 | 13 | 0.48 | 0.14 | 1.12 | |
| | Year to Date | 118 | 0 | 0.0 | 0 | 0.0 | 118 | 0.89 | 0.10 | 42.04 |
| Samples from Depressurizations | | | | | | | | | | |
| January | 70 | 0 | 0.0 | 0 | 0.0 | | | | | |
| February | 48 | 0 | 0.0 | 0 | 0.0 | | | | | |
| March | 37 | 0 | 0.0 | 0 | 0.0 | | | | | |
| April | 45 | 0 | 0.0 | 0 | 0.0 | | | | | |
| May | 44 | 0 | 0.0 | 0 | 0.0 | | | | | |
| June | 42 | 0 | 0.0 | 0 | 0.0 | | | | | |
| July | 42 | 0 | 0.0 | 0 | 0.0 | | | | | |
| August | 32 | 0 | 0.0 | 0 | 0.0 | | | | | |
| September | 48 | 0 | 0.0 | 0 | 0.0 | | | | | |
| | Year to Date | 408 | 0 | 0.0 | 0 | 0.0 | | | | |

2.2.3 Giardia and Cryptosporidium

2024

Treated Water entering the distribution system

| | Cryptosporidium | | Giardia | |
|----------|-----------------|----------|------------|----------|
| | oocysts/100L | | cysts/100L | |
| | E.L. Smith | Rossdale | E.L. Smith | Rossdale |
| 23 - Jan | <0.09 | <0.1 | <0.09 | <0.1 |
| 12 - Feb | <0.09 | <0.1 | <0.09 | <0.1 |
| 21 - Mar | <0.1 | <0.1 | <0.1 | <0.1 |
| 15 - Apr | <0.1 | | <0.1 | |
| 16 - Apr | | <0.1 | | <0.1 |
| 13 - May | <0.1 | | <0.1 | |
| 14 - May | | <0.1 | | <0.1 |
| 11 - Jun | <0.1 | | <0.1 | |
| 12 - Jun | | <0.1 | | <0.1 |
| 11 - Jul | <0.1 | <0.1 | <0.1 | <0.1 |
| 1 - Aug | <0.1 | <0.1 | <0.1 | <0.1 |
| 9 - Sep | | <0.1 | | <0.1 |
| 10 - Sep | <0.09 | | <0.09 | |
| 16 - Sep | | <0.1 | | <0.1 |
| 17 - Sep | <0.1 | | <0.1 | |
| 23 - Sep | | <0.09 | | <0.09 |
| 24 - Sep | <0.09 | | <0.09 | |

Raw Water

| | Cryptosporidium | | Giardia | |
|----------|-----------------|----------|------------|----------|
| | oocysts/100L | | cysts/100L | |
| | E.L. Smith | Rossdale | E.L. Smith | Rossdale |
| 23 - Jan | <1.28 | <6.93 | <1.28 | <6.93 |
| 12 - Feb | <1 | <39.6 | 9 | 158.4 |
| 21 - Mar | <4.2 | 5.5 | 8.3 | 39.0 |
| 15 - Apr | 13.0 | | 13.0 | |
| 16 - Apr | | <23.0 | | 23.0 |
| 13 - May | <13.0 | | 26.0 | |
| 14 - May | | <14.0 | | 14.0 |
| 11 - Jun | <3.7 | | <3.7 | |
| 12 - Jun | | <2.6 | | 7.8 |
| 11 - Jul | 19.0 | <9.5 | 19.0 | 9.5 |
| 1 - Aug | <2.5 | 2.4 | 5.0 | 23.0 |
| 9 - Sep | | <3.89 | | <3.89 |
| 10 - Sep | <6.62 | | 6.6 | |
| 16 - Sep | | 9.0 | | 86.0 |
| 17 - Sep | <6.5 | | 6.5 | |
| 23 - Sep | | <0.99 | | 3 |
| 24 - Sep | <1 | | 7 | |

2.2.4 Treated Water Entering the Distribution System: Physical, Inorganic, and Organic

September 2024

| | Current Month | | | | | | | | YTD | | | | | | | | Limits | |
|----------------------------------|---------------|----------|---------|-------|------------|----------|---------|-------|----------|----------|---------|-------|------------|----------|---------|-------|------------------------------------|---------------|
| | ROSSDALE | | | | E.L. SMITH | | | | ROSSDALE | | | | E.L. SMITH | | | | *Approval or GCDWQ MAC, (AO or OG) | EPCOR |
| | Mean | Min | Max | Count | Mean | Min | Max | Count | Mean | Min | Max | Count | Mean | Min | Max | Count | | |
| Microbiologicals | | | | | | | | | | | | | | | | | | |
| Microcystin | | | | 0 | | | | 0 | <0.2 | <0.2 | <0.2 | 3 | <0.2 | <0.2 | <0.2 | 3 | 1.5 | |
| Physical | | | | | | | | | | | | | | | | | | |
| Colour (TCU) | 0.9 | 0.6 | 1.3 | 29 | 1.0 | <0.5 | 1.6 | 30 | 0.9 | <0.5 | 1.9 | 270 | 1.0 | <0.5 | 1.8 | 273 | (15) | 10 |
| Conductivity (uS/cm) | 393 | 381 | 418 | 4 | 397 | 380 | 424 | 4 | 396 | 342 | 439 | 39 | 405 | 351 | 453 | 39 | | <1 |
| FPA-Intensity (N/A) | 0.81 | 0.62 | 0.94 | 4 | 0.89 | 0.56 | 1.06 | 4 | 1.13 | 0.62 | 1.88 | 49 | 1.02 | 0.56 | 2.12 | 49 | | |
| pH (N/A) | 7.9 | 7.8 | 8.1 | 29 | 7.8 | 7.5 | 7.9 | 30 | 7.9 | 7.7 | 8.3 | 271 | 7.8 | 7.5 | 8.2 | 273 | (7.0 - 10.5) | 7.3-8.3 |
| Total Dissolved Solids (mg/L) | 244 | 244 | 244 | 1 | 213 | 213 | 213 | 1 | 230 | 195 | 252 | 9 | 232 | 213 | 250 | 9 | (500) | |
| Turbidity (NTU) | <0.04 | <0.04 | 0.05 | 29 | 0.06 | <0.04 | 0.21 | 30 | <0.04 | <0.04 | 0.08 | 270 | 0.05 | <0.04 | 0.21 | 273 | | 0.3 |
| Primary Inorganics (mg/L) | | | | | | | | | | | | | | | | | | |
| Antimony | <0.0005 | <0.0005 | <0.0005 | 1 | <0.0005 | <0.0005 | <0.0005 | 1 | <0.0004 | <0.0002 | <0.0005 | 9 | <0.0004 | <0.0002 | <0.0005 | 9 | 0.006 | |
| Arsenic | 0.0002 | 0.0002 | 0.0002 | 1 | 0.0002 | 0.0002 | 0.0002 | 1 | <0.0002 | <0.0002 | 0.0002 | 9 | <0.0002 | <0.0002 | 0.0002 | 9 | 0.01 | |
| Barium | 0.064 | 0.064 | 0.064 | 1 | 0.065 | 0.065 | 0.065 | 1 | 0.062 | 0.050 | 0.073 | 9 | 0.061 | 0.049 | 0.072 | 9 | 2 | |
| Boron | 0.010 | 0.010 | 0.010 | 1 | 0.010 | 0.010 | 0.010 | 1 | 0.010 | 0.009 | 0.012 | 9 | 0.010 | 0.008 | 0.012 | 9 | 2 | |
| Bromate, dissolved | <0.005 | <0.005 | <0.005 | 4 | <0.005 | <0.005 | <0.005 | 4 | <0.005 | <0.003 | <0.005 | 39 | <0.005 | <0.003 | <0.005 | 39 | 0.01 | |
| Cadmium | <0.0002 | <0.0002 | <0.0002 | 1 | <0.0002 | <0.0002 | <0.0002 | 1 | <0.0002 | <0.0002 | <0.0002 | 9 | <0.0002 | <0.0002 | <0.0002 | 9 | 0.007 | |
| Chlorate Dissolved | 0.22 | 0.19 | 0.23 | 4 | 0.14 | 0.13 | 0.16 | 4 | 0.24 | 0.18 | 0.33 | 39 | 0.11 | <0.05 | 0.23 | 39 | 1 | |
| Chlorite Dissolved | <0.005 | <0.005 | <0.005 | 4 | <0.005 | <0.005 | <0.005 | 4 | <0.025 | <0.005 | <0.200 | 39 | <0.025 | <0.005 | <0.200 | 39 | 1 | |
| Chromium | <0.0002 | <0.0002 | <0.0002 | 1 | <0.0002 | <0.0002 | <0.0002 | 1 | <0.0002 | <0.0002 | <0.0002 | 9 | <0.0002 | <0.0002 | <0.0002 | 9 | 0.05 | |
| Copper | <0.002 | <0.002 | <0.002 | 1 | <0.002 | <0.002 | <0.002 | 1 | <0.003 | <0.002 | <0.005 | 9 | <0.003 | <0.002 | <0.005 | 9 | 2 (1) | |
| Fluoride | 0.66 | 0.61 | 0.69 | 29 | 0.71 | 0.68 | 0.73 | 30 | 0.68 | 0.61 | 0.76 | 270 | 0.69 | 0.62 | 0.79 | 273 | 1.5 | 0.6-0.8 |
| Lead | <0.0002 | <0.0002 | <0.0002 | 1 | <0.0002 | <0.0002 | <0.0002 | 1 | <0.0002 | <0.0002 | <0.0002 | 9 | <0.0002 | <0.0002 | <0.0002 | 9 | 0.005 | |
| Manganese | <0.002 | <0.002 | <0.002 | 1 | <0.002 | <0.002 | <0.002 | 1 | <0.002 | <0.002 | <0.002 | 9 | <0.002 | <0.002 | <0.002 | 9 | 0.12 (0.02) | |
| Mercury | <0.0002 | <0.00020 | <0.0002 | 1 | <0.0002 | <0.00020 | <0.0002 | 1 | <0.0010 | <0.00005 | <0.0050 | 12 | <0.0010 | <0.00005 | <0.0050 | 12 | 0.001 | |
| Nitrate (as N) Dissolved | <0.01 | <0.01 | 0.02 | 4 | <0.01 | <0.01 | 0.02 | 4 | 0.05 | <0.01 | 0.17 | 39 | 0.05 | <0.01 | 0.17 | 39 | 10 | |
| Nitrite (as N) Dissolved | <0.010 | <0.010 | <0.010 | 4 | <0.010 | <0.010 | <0.010 | 4 | <0.010 | <0.005 | 0.020 | 39 | <0.010 | <0.005 | 0.020 | 39 | 1 | |
| Selenium | 0.0003 | 0.0003 | 0.0003 | 1 | 0.0003 | 0.0003 | 0.0003 | 1 | 0.0003 | 0.0002 | 0.0004 | 9 | 0.0003 | 0.0002 | 0.0003 | 9 | 0.05 | |
| Total Chlorine | 2.27 | 2.15 | 2.38 | 29 | 2.26 | 2.02 | 2.35 | 30 | 2.19 | 1.91 | 2.40 | 270 | 2.14 | 1.87 | 2.35 | 273 | >1.0 | >1.0 and <2.4 |
| Uranium | <0.0005 | <0.0005 | <0.0005 | 1 | <0.0005 | <0.0005 | <0.0005 | 1 | <0.0005 | <0.0005 | 0.0006 | 9 | <0.0005 | <0.0005 | 0.0005 | 9 | 0.02 | |

2.2.4 Treated Water Entering the Distribution System: Physical, Inorganic, and Organic

September 2024

| | Current Month | | | | | | | | YTD | | | | | | | | Limits | |
|--------------------------------------|---------------|---------|---------|-------|------------|---------|---------|-------|----------|---------|---------|-------|------------|---------|---------|-------|------------------------------------|-------|
| | ROSSDALE | | | | E.L. SMITH | | | | ROSSDALE | | | | E.L. SMITH | | | | *Approval or GCDWQ MAC, (AO or OG) | EPCOR |
| | Mean | Min | Max | Count | Mean | Min | Max | Count | Mean | Min | Max | Count | Mean | Min | Max | Count | | |
| Primary Organics (ug/L) | | | | | | | | | | | | | | | | | | |
| 2,4-D | | | | 0 | | | | 0 | <0.12 | <0.05 | <0.25 | 3 | <0.12 | <0.05 | <0.25 | 3 | 100 | |
| Atrazine | | | | 0 | | | | 0 | <0.05 | <0.05 | <0.05 | 3 | <0.05 | <0.05 | <0.05 | 3 | 5 | |
| Benzene | <0.5 | <0.5 | <0.5 | 29 | <0.5 | <0.5 | <0.5 | 30 | <0.5 | <0.5 | 0.6 | 271 | <0.5 | <0.5 | <0.5 | 273 | 5 | |
| Benzo(a)pyrene | | | | 0 | | | | 0 | <0.005 | <0.005 | <0.005 | 3 | <0.005 | <0.005 | <0.005 | 3 | 0.04 | |
| Bromoxynil | | | | 0 | | | | 0 | <0.12 | <0.05 | <0.25 | 3 | <0.12 | <0.05 | <0.25 | 3 | 5 | |
| Carbon Tetrachloride | <0.5 | <0.5 | <0.5 | 12 | <0.5 | <0.5 | <0.5 | 11 | <0.5 | <0.5 | <1.0 | 254 | <0.5 | <0.5 | <1.0 | 254 | 2 | |
| Chlorobenzene | <0.5 | <0.5 | <0.5 | 29 | <0.5 | <0.5 | <0.5 | 30 | <0.5 | <0.5 | <0.5 | 271 | <0.5 | <0.5 | <0.5 | 273 | 80 (30) | |
| Chlorpyrifos | | | | 0 | | | | 0 | <0.1 | <0.1 | <0.1 | 3 | <0.1 | <0.1 | <0.1 | 3 | 90 | |
| Cyanazine | | | | 0 | | | | 0 | <0.1 | <0.1 | <0.1 | 3 | <0.1 | <0.1 | <0.1 | 3 | | |
| Diazinon | | | | 0 | | | | 0 | <0.025 | <0.025 | <0.025 | 3 | <0.025 | <0.025 | <0.025 | 3 | | |
| Dicamba | | | | 0 | | | | 0 | <0.2 | <0.1 | <0.5 | 3 | <0.2 | <0.1 | <0.5 | 3 | 110 | |
| Dichlorobenzene (1,2) | <0.5 | <0.5 | <0.5 | 12 | <0.5 | <0.5 | <0.5 | 11 | <0.5 | <0.5 | <0.5 | 254 | <0.5 | <0.5 | <0.5 | 254 | | |
| Dichlorobenzene (1,4) | <0.5 | <0.5 | <0.5 | 12 | <0.5 | <0.5 | <0.5 | 11 | <0.5 | <0.5 | <0.5 | 254 | <0.5 | <0.5 | <0.5 | 254 | 5 (1) | |
| Dichloroethane (1,2) | <0.5 | <0.5 | <0.5 | 12 | <0.5 | <0.5 | <0.5 | 11 | <0.5 | <0.5 | <0.5 | 253 | <0.5 | <0.5 | <0.5 | 253 | 5 | |
| Dichloroethylene (1,1) | <0.5 | <0.5 | <0.5 | 12 | <0.5 | <0.5 | <0.5 | 11 | <0.5 | <0.5 | <3.0 | 254 | <0.5 | <0.5 | <3.0 | 254 | 14 | |
| Dichlorophenol (2,4) | | | | 0 | | | | 0 | <0.2 | <0.2 | <0.3 | 3 | <0.2 | <0.2 | <0.3 | 3 | | |
| Diclofop-methyl | | | | 0 | | | | 0 | <0.1 | <0.1 | <0.1 | 3 | <0.1 | <0.1 | <0.1 | 3 | | |
| Dimethoate | | | | 0 | | | | 0 | <0.05 | <0.05 | <0.05 | 3 | <0.05 | <0.05 | <0.05 | 3 | 20 | |
| Diuron | | | | 0 | | | | 0 | <0.05 | <0.05 | <0.05 | 3 | <0.05 | <0.05 | <0.05 | 3 | | |
| Ethylbenzene | <0.5 | <0.5 | <0.5 | 29 | <0.5 | <0.5 | <0.5 | 30 | <0.5 | <0.5 | <0.5 | 271 | <0.5 | <0.5 | <0.5 | 273 | 140 (1.6) | |
| Glyphosate | | | | 0 | | | | 0 | <0.3 | <0.2 | <0.5 | 3 | <0.3 | <0.2 | <0.5 | 3 | 280 | |
| Haloacetic Acids, (HAA5) | 21.8 | 21.8 | 21.8 | 1 | 23.3 | 23.3 | 23.3 | 1 | 24.1 | 16.3 | 47.1 | 9 | 23.1 | 13.7 | 42.3 | 9 | 80 | 40 |
| Malathion | | | | 0 | | | | 0 | <0.025 | <0.025 | <0.025 | 3 | <0.025 | <0.025 | <0.025 | 3 | 190 | |
| MCPA | | | | 0 | | | | 0 | <0.12 | <0.05 | <0.25 | 3 | <0.12 | <0.05 | <0.25 | 3 | 100 | |
| Methylene Chloride | <0.5 | <0.5 | <0.5 | 12 | <0.5 | <0.5 | <0.5 | 11 | <0.5 | <0.5 | <0.5 | 254 | <0.5 | <0.5 | <0.5 | 254 | 50 | |
| Metolachlor | | | | 0 | | | | 0 | <0.025 | <0.025 | <0.025 | 3 | <0.025 | <0.025 | <0.025 | 3 | | |
| Metribuzin | | | | 0 | | | | 0 | <0.1 | <0.1 | <0.1 | 3 | <0.1 | <0.1 | <0.1 | 3 | 80 | |
| NDMA | <0.0039 | <0.0039 | <0.0039 | 1 | <0.0032 | <0.0032 | <0.0032 | 1 | <0.0028 | <0.0009 | <0.0060 | 9 | <0.0024 | <0.0009 | <0.0060 | 9 | 0.040 | 10 |
| NTA (mg/L) | | | | 0 | | | | 0 | <0.4 | <0.4 | <0.4 | 3 | <0.4 | <0.4 | <0.4 | 3 | 0.4 | |
| Pentachlorophenol | | | | 0 | | | | 0 | <0.5 | <0.5 | <0.5 | 3 | <0.5 | <0.5 | <0.5 | 3 | 60 (30) | |
| Perfluorooctane sulfonic acid (PFOS) | | | | 0 | | | | 0 | <0.008 | <0.002 | <0.020 | 3 | <0.008 | <0.002 | <0.020 | 3 | 0.6 | |
| Perfluorooctanoic acid (PFOA) | | | | 0 | | | | 0 | <0.008 | <0.002 | <0.020 | 3 | <0.008 | <0.002 | <0.020 | 3 | 0.0002 | |
| Phorate | | | | 0 | | | | 0 | <0.25 | <0.25 | <0.25 | 3 | <0.25 | <0.25 | <0.25 | 3 | | |
| Picloram | | | | 0 | | | | 0 | <0.2 | <0.1 | <0.5 | 3 | <0.2 | <0.1 | <0.5 | 3 | | |
| Simazine | | | | 0 | | | | 0 | <0.1 | <0.1 | <0.1 | 3 | <0.1 | <0.1 | <0.1 | 3 | | |
| Terbufos | | | | 0 | | | | 0 | <0.5 | <0.5 | <0.5 | 3 | <0.5 | <0.5 | <0.5 | 3 | | |
| Tetrachloroethylene | <0.5 | <0.5 | <0.5 | 29 | <0.5 | <0.5 | <0.5 | 30 | <0.5 | <0.5 | <0.5 | 271 | <0.5 | <0.5 | <0.5 | 273 | 10 | |
| Toluene | <0.5 | <0.5 | <0.5 | 29 | <0.5 | <0.5 | <0.5 | 30 | <0.5 | <0.5 | 1.6 | 271 | <0.5 | <0.5 | 3.3 | 273 | 60 (24) | |

2.2.4 Treated Water Entering the Distribution System: Physical, Inorganic, and Organic

September 2024

| | Current Month | | | | | | | | YTD | | | | | | | | Limits | |
|--------------------------------|---------------|------|------|-------|------------|------|------|-------|----------|--------|--------|-------|------------|--------|--------|-------|---|-------|
| | ROSSDALE | | | | E.L. SMITH | | | | ROSSDALE | | | | E.L. SMITH | | | | *Approval or GCDWQ MAC, (AO or OG) | EPCOR |
| | Mean | Min | Max | Count | Mean | Min | Max | Count | Mean | Min | Max | Count | Mean | Min | Max | Count | | |
| Primary Organics (ug/L) | | | | | | | | | | | | | | | | | | |
| Total Xylenes | <1.0 | <1.0 | <1.0 | 12 | <1.0 | <1.0 | <1.0 | 11 | <1.0 | <1.0 | <2.5 | 254 | <1.0 | <1.0 | <2.5 | 254 | 90 | 50 |
| Trichloroethylene | <0.5 | <0.5 | <0.5 | 29 | <0.5 | <0.5 | <0.5 | 30 | <0.5 | <0.5 | <0.5 | 271 | <0.5 | <0.5 | <0.5 | 273 | 5 | |
| Trifluralin | | | | 0 | | | | 0 | <0.1 | <0.1 | <0.1 | 3 | <0.1 | <0.1 | <0.1 | 3 | | |
| Trihalomethanes | 24.4 | 14.9 | 32.9 | 12 | 25.0 | 11.6 | 33.9 | 11 | 19.7 | 6.6 | 39.9 | 254 | 18.6 | 5.1 | 39.5 | 254 | 100 | |
| Vinyl Chloride | <0.7 | <0.5 | <1.0 | 29 | <0.7 | <0.5 | <1.0 | 30 | <1.0 | <0.5 | <1.0 | 270 | <1.0 | <0.5 | <1.0 | 272 | 2 | |
| Radionuclides (Bq/L) | | | | | | | | | | | | | | | | | | |
| Cesium-137 | | | | 0 | | | | 0 | <0.2 | <0.2 | <0.2 | 1 | <0.2 | <0.2 | <0.2 | 1 | 10 | 7000 |
| Gross Alpha | | | | 0 | | | | 0 | <0.12 | <0.12 | <0.12 | 1 | <0.15 | <0.15 | <0.15 | 1 | (0.5) | |
| Gross Beta | | | | 0 | | | | 0 | <0.07 | <0.07 | <0.07 | 1 | <0.07 | <0.07 | <0.07 | 1 | (1.0) | |
| Iodine-131 | | | | 0 | | | | 0 | <0.4 | <0.4 | <0.4 | 1 | <0.4 | <0.4 | <0.4 | 1 | 6 | |
| Lead-210 | | | | 0 | | | | 0 | <0.02 | <0.02 | <0.02 | 1 | <0.02 | <0.02 | <0.02 | 1 | 0.2 | |
| Radium-226 | | | | 0 | | | | 0 | <0.005 | <0.005 | <0.005 | 1 | <0.005 | <0.005 | <0.005 | 1 | 0.5 | |
| Strontium-90 | | | | 0 | | | | 0 | <0.05 | <0.05 | <0.05 | 1 | <0.05 | <0.05 | <0.05 | 1 | 5 | |
| Tritium | | | | 0 | | | | 0 | <40 | <40 | <40 | 1 | <40 | <40 | <40 | 1 | | |

2.2.4 Treated Water Entering the Distribution System: Physical, Inorganic, and Organic

September 2024

| | Current Month | | | | | | | | YTD | | | | | | | | Limits | |
|------------------------------------|---------------|---------|---------|-------|------------|---------|---------|-------|----------|---------|---------|-------|------------|---------|---------|-------|------------------------------------|---------|
| | ROSSDALE | | | | E.L. SMITH | | | | ROSSDALE | | | | E.L. SMITH | | | | *Approval or GCDWQ MAC, (AO or OG) | EPCOR |
| | Mean | Min | Max | Count | Mean | Min | Max | Count | Mean | Min | Max | Count | Mean | Min | Max | Count | | |
| Secondary Inorganics (mg/L) | | | | | | | | | | | | | | | | | | |
| Alkalinity Total (mg CaCO3/L) | 116 | 112 | 121 | 29 | 116 | 111 | 124 | 30 | 117 | 99 | 141 | 270 | 118 | 8 | 140 | 273 | | |
| Aluminum | 0.122 | 0.122 | 0.122 | 1 | 0.120 | 0.120 | 0.120 | 1 | 0.059 | 0.023 | 0.122 | 9 | 0.055 | 0.026 | 0.120 | 9 | 2.9 | 0.1/0.2 |
| Ammonia as NH3 | 0.12 | 0.09 | 0.15 | 14 | 0.12 | 0.10 | 0.15 | 14 | 0.13 | 0.08 | 0.17 | 89 | 0.12 | 0.08 | 0.17 | 89 | | |
| Beryllium | <0.0002 | <0.0002 | <0.0002 | 1 | <0.0002 | <0.0002 | <0.0002 | 1 | <0.0002 | <0.0002 | <0.0002 | 9 | <0.0002 | <0.0002 | <0.0002 | 9 | | |
| Bromide Dissolved | <0.03 | <0.03 | <0.03 | 4 | <0.03 | <0.03 | <0.03 | 4 | <0.02 | <0.01 | <0.05 | 39 | <0.02 | <0.01 | <0.05 | 39 | | |
| Calcium | 47.6 | 47.6 | 47.6 | 1 | 47.5 | 47.5 | 47.5 | 1 | 47.2 | 43.7 | 51.3 | 9 | 47.3 | 44.2 | 51.4 | 9 | | |
| Calcium Hardness Calculated | 119 | 119 | 119 | 1 | 119 | 119 | 119 | 1 | 117 | 109 | 125 | 5 | 116 | 110 | 124 | 5 | | |
| Chloride Dissolved | 5.33 | 4.80 | 6.06 | 4 | 7.17 | 6.64 | 7.93 | 4 | 6.21 | 4.78 | 11.40 | 39 | 7.02 | 4.85 | 12.10 | 39 | (250) | |
| Cobalt | <0.0002 | <0.0002 | <0.0002 | 1 | <0.0002 | <0.0002 | <0.0002 | 1 | <0.0002 | <0.0002 | <0.0002 | 9 | <0.0002 | <0.0002 | <0.0002 | 9 | | |
| Free Chlorine | <0.07 | <0.07 | <0.07 | 1 | <0.07 | <0.07 | <0.07 | 1 | <0.07 | <0.07 | <0.07 | 9 | <0.07 | <0.07 | <0.07 | 9 | | |
| Hardness, Ca (mg CaCO3/L) | 117 | 112 | 122 | 28 | 116 | 112 | 121 | 29 | 117 | 98 | 141 | 265 | 116 | 96 | 138 | 268 | | |
| Iron | 0.005 | 0.005 | 0.005 | 1 | <0.005 | <0.005 | <0.005 | 1 | <0.005 | <0.005 | 0.005 | 9 | <0.005 | <0.005 | <0.005 | 9 | (0.3) | 0.3 |
| Lanthanum | <0.001 | <0.001 | <0.001 | 1 | <0.001 | <0.001 | <0.001 | 1 | <0.001 | <0.001 | <0.001 | 9 | <0.001 | <0.001 | <0.001 | 9 | | |
| Lithium | 0.0040 | 0.0040 | 0.0040 | 1 | 0.004 | 0.004 | 0.004 | 1 | 0.0038 | 0.0031 | 0.0043 | 9 | 0.003 | 0.003 | 0.004 | 9 | | |
| Magnesium | 14.3 | 14.3 | 14.3 | 1 | 14.4 | 14.4 | 14.4 | 1 | 13.7 | 12.6 | 15.0 | 9 | 13.8 | 12.6 | 15.1 | 9 | | |
| Molybdenum | 0.0008 | 0.0008 | 0.0008 | 1 | 0.0008 | 0.0008 | 0.0008 | 1 | 0.0009 | 0.0007 | 0.0010 | 9 | 0.0008 | 0.0007 | 0.0009 | 9 | | |
| Nickel | <0.0005 | <0.0005 | <0.0005 | 1 | <0.0005 | <0.0005 | <0.0005 | 1 | <0.0005 | <0.0005 | 0.0005 | 9 | <0.0005 | <0.0005 | 0.0005 | 9 | | |
| Phosphate,Ortho (as P) | <0.02 | <0.02 | <0.02 | 2 | <0.02 | <0.02 | <0.02 | 2 | <0.02 | <0.02 | <0.02 | 18 | <0.02 | <0.02 | <0.02 | 16 | | |
| Phosphorus | <0.02 | <0.02 | <0.02 | 1 | <0.02 | <0.02 | <0.02 | 1 | <0.02 | <0.02 | <0.02 | 9 | <0.02 | <0.02 | <0.02 | 9 | | |
| Potassium | 0.8 | 0.8 | 0.8 | 1 | 0.7 | 0.7 | 0.7 | 1 | 0.8 | 0.7 | 1.1 | 9 | 0.8 | 0.7 | 1.0 | 9 | | |
| Silicon | 1.77 | 1.77 | 1.77 | 1 | 1.76 | 1.76 | 1.76 | 1 | 2.01 | 1.58 | 2.27 | 9 | 2.00 | 1.64 | 2.27 | 9 | | |
| Silver | <0.0002 | <0.0002 | <0.0002 | 1 | <0.0002 | <0.0002 | <0.0002 | 1 | <0.0002 | <0.0002 | <0.0002 | 9 | <0.0002 | <0.0002 | <0.0002 | 9 | | |
| Sodium | 7.7 | 7.7 | 7.7 | 1 | 8.9 | 8.9 | 8.9 | 1 | 10.5 | 6.8 | 16.1 | 9 | 13.4 | 7.4 | 18.9 | 9 | (200) | |
| Strontium | 0.440 | 0.440 | 0.440 | 1 | 0.444 | 0.444 | 0.444 | 1 | 0.440 | 0.385 | 0.488 | 9 | 0.438 | 0.408 | 0.478 | 9 | 7.0 | |
| Sulphate Dissolved | 72.9 | 68.2 | 83.4 | 4 | 73.8 | 68.0 | 84.5 | 4 | 72.7 | 59.5 | 86.8 | 39 | 75.4 | 60.4 | 95.1 | 39 | (500) | |
| Thallium | <0.0002 | <0.0002 | <0.0002 | 1 | <0.0002 | <0.0002 | <0.0002 | 1 | <0.0003 | <0.0002 | <0.0005 | 9 | <0.0003 | <0.0002 | <0.0005 | 9 | | |
| Tin | <0.0005 | <0.0005 | <0.0005 | 1 | <0.0005 | <0.0005 | <0.0005 | 1 | <0.0005 | <0.0005 | <0.0005 | 9 | <0.0005 | <0.0005 | <0.0005 | 9 | | |
| Titanium | <0.0005 | <0.0005 | <0.0005 | 1 | <0.0005 | <0.0005 | <0.0005 | 1 | <0.0005 | <0.0005 | <0.0005 | 9 | <0.0005 | <0.0005 | <0.0005 | 9 | | |
| Total Hardness (mg/L CaCO3) | 178 | 170 | 185 | 28 | 177 | 170 | 185 | 29 | 177 | 149 | 218 | 265 | 176 | 145 | 211 | 268 | | |
| Total Hardness Calculated | 178 | 178 | 178 | 1 | 178 | 178 | 178 | 1 | 172 | 162 | 182 | 5 | 172 | 162 | 180 | 5 | | |
| Vanadium | <0.0005 | <0.0005 | <0.0005 | 1 | <0.0005 | <0.0005 | <0.0005 | 1 | <0.0005 | <0.0005 | <0.0005 | 9 | <0.0005 | <0.0005 | <0.0005 | 9 | | |
| Zinc | <0.005 | <0.005 | <0.005 | 1 | <0.005 | <0.005 | <0.005 | 1 | <0.005 | <0.005 | <0.005 | 9 | <0.005 | <0.005 | <0.005 | 9 | (5.0) | |
| Zirconium | <0.001 | <0.001 | <0.001 | 1 | <0.001 | <0.001 | <0.001 | 1 | <0.001 | <0.001 | <0.001 | 9 | <0.001 | <0.001 | <0.001 | 9 | | |

2.2.4 Treated Water Entering the Distribution System: Physical, Inorganic, and Organic

September 2024

| | Current Month | | | | | | | | YTD | | | | | | | | Limits | |
|---------------------------------------|---------------|-------|-------|-------|------------|-------|-------|-------|----------|--------|--------|-------|------------|--------|--------|-------|------------------------------------|-------|
| | ROSSDALE | | | | E.L. SMITH | | | | ROSSDALE | | | | E.L. SMITH | | | | *Approval or GCDWQ MAC, (AO or OG) | EPCOR |
| | Mean | Min | Max | Count | Mean | Min | Max | Count | Mean | Min | Max | Count | Mean | Min | Max | Count | | |
| Secondary Organics (ug/L) | | | | | | | | | | | | | | | | | | |
| Aldicarb | | | | 0 | | | | 0 | <0.1 | <0.1 | <0.1 | 3 | <0.1 | <0.1 | <0.1 | 3 | | |
| Aldrin | | | | 0 | | | | 0 | <0.008 | <0.008 | <0.008 | 3 | <0.008 | <0.008 | <0.008 | 3 | | |
| Azinphos-methyl | | | | 0 | | | | 0 | <0.1 | <0.1 | <0.1 | 3 | <0.1 | <0.1 | <0.1 | 3 | | |
| Bromochloroacetic acid | <1 | <1 | <1 | 1 | <1 | <1 | <1 | 1 | <1 | <1 | <1 | 9 | <1 | <1 | <1 | 9 | | |
| Bromodichloromethane | 1.1 | 0.8 | 1.4 | 29 | 1.0 | 0.7 | 1.7 | 30 | 1.2 | <0.5 | 2.6 | 271 | 1.0 | <0.5 | 2.4 | 273 | | 16 |
| Bromoform | <0.5 | <0.5 | <0.5 | 29 | <0.5 | <0.5 | <0.5 | 30 | <0.5 | <0.5 | <1.0 | 271 | <0.5 | <0.5 | <1.0 | 273 | | |
| Bromomethane | <0.5 | <0.5 | <0.5 | 17 | <0.5 | <0.5 | <0.5 | 19 | <0.5 | <0.5 | <0.5 | 17 | <0.5 | <0.5 | <0.5 | 19 | | |
| Carbaryl | | | | 0 | | | | 0 | <0.05 | <0.05 | <0.05 | 3 | <0.05 | <0.05 | <0.05 | 3 | | |
| Carbofuran | | | | 0 | | | | 0 | <0.025 | <0.025 | <0.025 | 3 | <0.025 | <0.025 | <0.025 | 3 | | |
| Chloroethane | <0.5 | <0.5 | <0.5 | 17 | <0.5 | <0.5 | <0.5 | 19 | <0.5 | <0.5 | <0.5 | 17 | <0.5 | <0.5 | <0.5 | 19 | | |
| Chloroform | 25.9 | 13.50 | 31.7 | 29 | 26.4 | 10.50 | 32.5 | 30 | 18.8 | 5.70 | 38.7 | 271 | 18.0 | 4.30 | 37.7 | 273 | | |
| Chloromethane | <5 | <5 | <5 | 17 | <5 | <5 | <5 | 19 | <5 | <5 | <5 | 17 | <5 | <5 | <5 | 19 | | |
| Dibromoacetic acid | <1 | <1 | <1 | 1 | <1 | <1 | <1 | 1 | <1 | <1 | <1 | 9 | <1 | <1 | <1 | 9 | | |
| Dibromochloromethane | <0.5 | <0.5 | <0.5 | 29 | <0.5 | <0.5 | <0.5 | 30 | <0.5 | <0.5 | <0.5 | 271 | <0.5 | <0.5 | <0.5 | 273 | | |
| Dichloroacetic acid | 10.30 | 10.30 | 10.30 | 1 | 11.4 | 11.4 | 11.4 | 1 | 11.68 | 7.98 | 21.10 | 9 | 11.6 | 7.0 | 19.8 | 9 | | |
| Dichlorobenzene (1,3) | <0.5 | <0.5 | <0.5 | 12 | <0.5 | <0.5 | <0.5 | 11 | <0.5 | <0.5 | <0.5 | 254 | <0.5 | <0.5 | <0.5 | 254 | | |
| Dichloroethylene, cis (1,2) | <0.5 | <0.5 | <0.5 | 12 | <0.5 | <0.5 | <0.5 | 11 | <0.5 | <0.5 | <0.5 | 254 | <0.5 | <0.5 | <0.5 | 254 | | |
| Dichloroethylene, trans (1,2) | <0.5 | <0.5 | <0.5 | 12 | <0.5 | <0.5 | <0.5 | 11 | <0.5 | <0.5 | <0.5 | 254 | <0.5 | <0.5 | <0.5 | 254 | | |
| Dichloropropane (1,2) | <0.5 | <0.5 | <0.5 | 12 | <0.5 | <0.5 | <0.5 | 11 | <0.5 | <0.5 | <0.5 | 254 | <0.5 | <0.5 | <0.5 | 254 | | |
| Dieldrin | | | | 0 | | | | 0 | <0.008 | <0.008 | <0.008 | 3 | <0.008 | <0.008 | <0.008 | 3 | | |
| Methyl t-Butyl Ether (MTBE) | <0.5 | <0.5 | <0.5 | 12 | <0.5 | <0.5 | <0.5 | 11 | <0.5 | <0.5 | 0.5 | 254 | <0.5 | <0.5 | <0.5 | 254 | (15) | |
| MIBK | <1 | <1 | <1 | 12 | <1 | <1 | <1 | 11 | <1 | <1 | <1 | 254 | <1 | <1 | <1 | 254 | | |
| Monobromoacetic acid | <1 | <1 | <1 | 1 | <1 | <1 | <1 | 1 | <1 | <1 | <1 | 9 | <1 | <1 | <1 | 9 | | |
| Monochloroacetic acid | <1.00 | <1.00 | <1.00 | 1 | <1.00 | <1.00 | <1.00 | 1 | <1.08 | <1.00 | 1.58 | 9 | <1.10 | <1.00 | 1.68 | 9 | | |
| Parathion | | | | 0 | | | | 0 | <0.1 | <0.1 | <0.1 | 3 | <0.1 | <0.1 | <0.1 | 3 | | |
| Perfluorobutane Sulfonate (PFBS) | | | | 0 | | | | 0 | <2 | <2 | <2 | 1 | <2 | <2 | <2 | 1 | | |
| Perfluorobutanoic acid (PFBA) | | | | 0 | | | | 0 | <0.83 | <0.02 | <2.00 | 5 | <0.83 | <0.02 | <2.00 | 5 | | |
| Perfluorodecanoic Acid (PFDA) | | | | 0 | | | | 0 | <2 | <2 | <2 | 2 | <2 | <2 | <2 | 2 | | |
| Perfluorododecanoic Acid (PFDoA) | | | | 0 | | | | 0 | <2 | <2 | <2 | 2 | <2 | <2 | <2 | 2 | | |
| Perfluoroheptanoic acid (PFHpA) | | | | 0 | | | | 0 | <0.805 | <0.002 | <2.000 | 5 | <0.805 | <0.002 | <2.000 | 5 | | |
| Perfluorohexane sulfonic acid (PFHxS) | | | | 0 | | | | 0 | <0.008 | <0.002 | <0.020 | 3 | <0.008 | <0.002 | <0.020 | 3 | | |
| Perfluorohexanoic acid (PFHxA) | | | | 0 | | | | 0 | <0.805 | <0.002 | <2.000 | 5 | <0.805 | <0.002 | <2.000 | 5 | | |
| Perfluorononanoic acid (PFNA) | | | | 0 | | | | 0 | <0.805 | <0.002 | <2.000 | 5 | <0.805 | <0.002 | <2.000 | 5 | | |
| Perfluoropentanoic Acid (PFPeA) | | | | 0 | | | | 0 | <0.805 | <0.002 | <2.000 | 5 | <0.805 | <0.002 | <2.000 | 5 | | |
| Perfluoroundecanoic Acid (PFUnA) | | | | 0 | | | | 0 | <2 | <2 | <2 | 2 | <2 | <2 | <2 | 2 | | |
| Styrene | <0.5 | <0.5 | <0.5 | 29 | <0.5 | <0.5 | <0.5 | 30 | <0.5 | <0.5 | <0.5 | 271 | <0.5 | <0.5 | <0.5 | 273 | | |
| Tetrachloroethane (1,1,2,2) | <0.5 | <0.5 | <0.5 | 12 | <0.5 | <0.5 | <0.5 | 11 | <0.5 | <0.5 | <1.0 | 254 | <0.5 | <0.5 | <1.0 | 254 | | |
| Total Organic Carbon | 1.6 | 1.3 | 2.1 | 4 | 1.6 | 1.2 | 2.1 | 4 | 1.6 | 1.0 | 2.8 | 39 | 1.5 | 0.9 | 2.5 | 39 | | |

2.2.4 Treated Water Entering the Distribution System: Physical, Inorganic, and Organic

September 2024

| | Current Month | | | | | | | | YTD | | | | | | | | Limits | |
|-----------------------------------|---------------|-------|-------|-------|------------|-------|-------|-------|----------|------|-------|-------|------------|------|-------|-------|---|-------|
| | ROSSDALE | | | | E.L. SMITH | | | | ROSSDALE | | | | E.L. SMITH | | | | *Approval or GCDWQ MAC, (AO or OG) | EPCOR |
| | Mean | Min | Max | Count | Mean | Min | Max | Count | Mean | Min | Max | Count | Mean | Min | Max | Count | | |
| Secondary Organics (ug/L) | | | | | | | | | | | | | | | | | | |
| Total Volatile Organics (NonTHM) | 2.5 | 1.4 | 4.2 | 12 | 2 | 1 | 4 | 11 | 2.0 | <1.0 | 6.1 | 254 | 2 | <1 | 6 | 254 | | |
| Total Volatile Organics (Unknown) | | | | 0 | | | | 0 | 1.3 | <0.5 | 7.7 | 41 | 1.3 | <0.5 | 3.6 | 43 | | |
| Triallate | | | | 0 | | | | 0 | <0.1 | <0.1 | <0.1 | 3 | <0.1 | <0.1 | <0.1 | 3 | | |
| Trichloroacetic acid | 11.50 | 11.50 | 11.50 | 1 | 11.90 | 11.90 | 11.90 | 1 | 12.04 | 7.95 | 24.40 | 9 | 11.16 | 6.22 | 20.80 | 9 | | |
| Trichlorobenzene (1,2,4) | <0.5 | <0.5 | <0.5 | 12 | <0.5 | <0.5 | <0.5 | 11 | <0.5 | <0.5 | <0.5 | 254 | <0.5 | <0.5 | <0.5 | 254 | | |
| Trichloroethane (1,1,1) | <0.5 | <0.5 | <0.5 | 12 | <0.5 | <0.5 | <0.5 | 11 | <0.5 | <0.5 | <0.5 | 254 | <0.5 | <0.5 | <0.5 | 254 | | |
| Xylene (1,2) | <0.5 | <0.5 | <0.5 | 12 | <0.5 | <0.5 | <0.5 | 11 | <0.5 | <0.5 | <0.5 | 254 | <0.5 | <0.5 | <0.5 | 254 | | |
| Xylene (1,4) | <0.5 | <0.5 | <0.5 | 12 | <0.5 | <0.5 | <0.5 | 11 | <0.5 | <0.5 | 0.6 | 254 | <0.5 | <0.5 | 0.9 | 254 | | |

TABLE EXPLANATIONS:

* Numbers with no brackets are Health Canada Guidelines for Canadian Drinking Water Quality (GCDWQ) Maximum Acceptable Concentrations (MAC) and/or a limit set out in the Alberta Environment and Parks (AEP) Operating Approval 638-04-01. Limits in brackets indicate Aesthetic Objectives or Operational Guidelines (OG) and are not Approval limits. The EPCOR limits are internal limits set by EPCOR in the Operations Program.

** Primary parameters are those that have health-based limits (MACs) according the AEP Operating Approval 638-04-01

*** Secondary parameters do not have health-based limits but may have aesthetic or operational objectives

2.2.5 ROSSDALE AND E.L. SMITH TREATED WATER ENTERING PLANT RESERVOIR

September 2024

| | Current Month | | | | | | | | YTD | | | | | | | | Limits | |
|------------------------------------|---------------|--------|--------|-------|------------|--------|--------|-------|----------|--------|--------|-------|------------|--------|--------|-------|------------------------------------|-------|
| | ROSSDALE | | | | E.L. SMITH | | | | ROSSDALE | | | | E.L. SMITH | | | | *Approval or GCDWQ MAC, (AO or OG) | EPCOR |
| | Mean | Min | Max | Count | Mean | Min | Max | Count | Mean | Min | Max | Count | Mean | Min | Max | Count | | |
| Physical | | | | | | | | | | | | | | | | | | |
| Turbidity (NTU) | 0.47 | <0.04 | 12.90 | 30 | 0.05 | <0.04 | 0.25 | 30 | 0.09 | <0.04 | 12.90 | 271 | 0.05 | <0.04 | 0.25 | 273 | | 0.3 |
| UV 254 %T **** | <94.9 | <91.7 | <96.1 | 29 | <94.5 | <90.7 | <96.1 | 30 | <94.3 | <90.1 | <96.9 | 270 | <94.3 | <90.7 | <98.9 | 273 | | |
| Primary Inorganics (mg/L) | | | | | | | | | | | | | | | | | | |
| Bromate, dissolved | <0.005 | <0.005 | <0.005 | 4 | <0.005 | <0.005 | <0.005 | 4 | <0.005 | <0.003 | <0.005 | 39 | <0.005 | <0.003 | <0.005 | 39 | 0.01 | |
| Chlorate Dissolved | 0.21 | 0.19 | 0.24 | 4 | 0.14 | 0.12 | 0.18 | 4 | 0.23 | 0.18 | 0.34 | 39 | 0.11 | <0.05 | 0.20 | 39 | 1 | |
| Chlorite Dissolved | <0.005 | <0.005 | <0.005 | 4 | <0.005 | <0.005 | <0.005 | 4 | <0.025 | <0.005 | <0.200 | 39 | <0.025 | <0.005 | <0.200 | 39 | 1 | |
| Nitrate (as N) Dissolved | <0.01 | <0.01 | 0.02 | 4 | <0.01 | <0.01 | 0.02 | 4 | 0.05 | <0.01 | 0.17 | 39 | 0.05 | <0.01 | 0.16 | 39 | 10 | |
| Nitrite (as N) Dissolved | <0.010 | <0.010 | <0.010 | 4 | <0.010 | <0.010 | <0.010 | 4 | <0.010 | <0.005 | 0.020 | 39 | <0.010 | <0.005 | 0.020 | 39 | 1 | |
| Primary Organics (ug/L) | | | | | | | | | | | | | | | | | | |
| Benzene | <0.5 | <0.5 | <0.5 | 29 | <0.5 | <0.5 | <0.5 | 30 | <0.5 | <0.5 | <0.5 | 271 | <0.5 | <0.5 | <0.5 | 273 | 5 | |
| Carbon Tetrachloride | <0.5 | <0.5 | <0.5 | 12 | <0.5 | <0.5 | <0.5 | 11 | <0.5 | <0.5 | <1.0 | 254 | <0.5 | <0.5 | <1.0 | 254 | 2 | |
| Chlorobenzene | <0.5 | <0.5 | <0.5 | 29 | <0.5 | <0.5 | <0.5 | 30 | <0.5 | <0.5 | <0.5 | 271 | <0.5 | <0.5 | <0.5 | 273 | 80 (30) | |
| Dichlorobenzene (1,2) | <0.5 | <0.5 | <0.5 | 12 | <0.5 | <0.5 | <0.5 | 11 | <0.5 | <0.5 | <0.5 | 254 | <0.5 | <0.5 | <0.5 | 254 | | |
| Dichlorobenzene (1,4) | <0.5 | <0.5 | <0.5 | 12 | <0.5 | <0.5 | <0.5 | 11 | <0.5 | <0.5 | <0.5 | 254 | <0.5 | <0.5 | <0.5 | 254 | 5 (1) | |
| Dichloroethane (1,2) | <0.5 | <0.5 | <0.5 | 12 | <0.5 | <0.5 | <0.5 | 11 | <0.5 | <0.5 | <0.5 | 253 | <0.5 | <0.5 | <0.5 | 253 | 5 | |
| Dichloroethylene (1,1) | <0.5 | <0.5 | <0.5 | 12 | <0.5 | <0.5 | <0.5 | 11 | <0.5 | <0.5 | <3.0 | 254 | <0.5 | <0.5 | <3.0 | 254 | 14 | |
| Ethylbenzene | <0.5 | <0.5 | <0.5 | 29 | <0.5 | <0.5 | <0.5 | 30 | <0.5 | <0.5 | <0.5 | 271 | <0.5 | <0.5 | <0.5 | 273 | 140 (1.6) | |
| Methylene Chloride | <0.5 | <0.5 | <0.5 | 12 | <0.5 | <0.5 | <0.5 | 11 | <0.5 | <0.5 | <0.5 | 254 | <0.5 | <0.5 | <0.5 | 254 | 50 | |
| Tetrachloroethylene | <0.5 | <0.5 | <0.5 | 29 | <0.5 | <0.5 | <0.5 | 30 | <0.5 | <0.5 | <0.5 | 271 | <0.5 | <0.5 | <0.5 | 273 | 10 | |
| Toluene | <0.5 | <0.5 | <0.5 | 29 | <0.5 | <0.5 | <0.5 | 30 | <0.5 | <0.5 | 4.1 | 271 | <0.5 | <0.5 | 1.8 | 273 | 60 (24) | |
| Total Xylenes | <1.0 | <1.0 | <1.0 | 12 | <1.0 | <1.0 | <1.0 | 11 | <1.0 | <1.0 | <2.5 | 254 | <1.0 | <1.0 | <2.5 | 254 | 90 | |
| Trichloroethylene | <0.5 | <0.5 | <0.5 | 29 | <0.5 | <0.5 | <0.5 | 30 | <0.5 | <0.5 | <0.5 | 271 | <0.5 | <0.5 | <0.5 | 273 | 5 | |
| Trihalomethanes | 22.1 | 13.3 | 28.5 | 12 | 19.4 | 9.1 | 27.6 | 11 | 16.2 | 5.3 | 38.4 | 254 | 14.5 | 3.7 | 33.7 | 254 | 100 | 50 |
| Vinyl Chloride | <0.7 | <0.5 | <1.0 | 29 | <0.7 | <0.5 | <1.0 | 30 | <1.0 | <0.5 | <1.0 | 270 | <1.0 | <0.5 | <1.0 | 272 | 2 | |
| Secondary Inorganics (mg/L) | | | | | | | | | | | | | | | | | | |
| Ammonia as NH3 | 0.12 | 0.08 | 0.15 | 14 | 0.11 | 0.08 | 0.15 | 14 | 0.12 | 0.08 | 0.18 | 89 | 0.11 | 0.06 | 0.17 | 89 | | |
| Bromide Dissolved | <0.03 | <0.03 | <0.03 | 4 | <0.03 | <0.03 | <0.03 | 4 | <0.02 | <0.01 | <0.05 | 39 | <0.02 | <0.01 | <0.05 | 39 | | |
| Chloride Dissolved | 5.42 | 4.67 | 6.57 | 4 | 6.96 | 6.05 | 7.86 | 4 | 6.47 | 4.65 | 19.90 | 39 | 7.00 | 4.63 | 12.90 | 39 | (250) | |
| Sulphate Dissolved | 72.4 | 67.3 | 81.5 | 4 | 73.5 | 67.1 | 83.0 | 4 | 73.2 | 59.2 | 95.8 | 39 | 75.4 | 59.8 | 95.3 | 39 | (500) | |

2.2.5 ROSSDALE AND E.L. SMITH TREATED WATER ENTERING PLANT RESERVOIR

September 2024

| | Current Month | | | | | | | | YTD | | | | | | | | Limits | |
|-----------------------------------|---------------|-------|------|-------|------------|------|------|-------|----------|------|------|-------|------------|------|------|-------|------------------------------------|-------|
| | ROSSDALE | | | | E.L. SMITH | | | | ROSSDALE | | | | E.L. SMITH | | | | *Approval or GCDWQ MAC, (AO or OG) | EPCOR |
| | Mean | Min | Max | Count | Mean | Min | Max | Count | Mean | Min | Max | Count | Mean | Min | Max | Count | | |
| Secondary Organics (ug/L) | | | | | | | | | | | | | | | | | | |
| Bromodichloromethane | 1.0 | 0.8 | 1.3 | 29 | 0.9 | 0.6 | 1.5 | 30 | 1.0 | <0.5 | 2.3 | 271 | 0.9 | <0.5 | 2.1 | 273 | (15) | 16 |
| Bromoform | <0.5 | <0.5 | <0.5 | 29 | <0.5 | <0.5 | <0.5 | 30 | <0.5 | <0.5 | <1.0 | 271 | <0.5 | <0.5 | <1.0 | 273 | | |
| Bromomethane | <0.5 | <0.5 | <0.5 | 17 | <0.5 | <0.5 | <0.5 | 19 | <0.5 | <0.5 | <0.5 | 17 | <0.5 | <0.5 | <0.5 | 19 | | |
| Chloroethane | <0.5 | <0.5 | <0.5 | 17 | <0.5 | <0.5 | <0.5 | 19 | <0.5 | <0.5 | <0.5 | 17 | <0.5 | <0.5 | <0.5 | 19 | | |
| Chloroform | 24.9 | 11.90 | 32.4 | 29 | 23.5 | 8.00 | 31.5 | 30 | 15.8 | 4.60 | 37.4 | 271 | 14.3 | 3.00 | 33.2 | 273 | | |
| Chloromethane | <5 | <5 | <5 | 17 | <5 | <5 | <5 | 19 | <5 | <5 | <5 | 17 | <5 | <5 | <5 | 19 | | |
| Dibromochloromethane | <0.5 | <0.5 | <0.5 | 29 | <0.5 | <0.5 | <0.5 | 30 | <0.5 | <0.5 | 0.5 | 271 | <0.5 | <0.5 | <0.5 | 273 | | |
| Dichlorobenzene (1,3) | <0.5 | <0.5 | <0.5 | 12 | <0.5 | <0.5 | <0.5 | 11 | <0.5 | <0.5 | <0.5 | 254 | <0.5 | <0.5 | <0.5 | 254 | | |
| Dichloroethylene, cis (1,2) | <0.5 | <0.5 | <0.5 | 12 | <0.5 | <0.5 | <0.5 | 11 | <0.5 | <0.5 | <0.5 | 254 | <0.5 | <0.5 | <0.5 | 254 | | |
| Dichloroethylene, trans (1,2) | <0.5 | <0.5 | <0.5 | 12 | <0.5 | <0.5 | <0.5 | 11 | <0.5 | <0.5 | <0.5 | 254 | <0.5 | <0.5 | <0.5 | 254 | | |
| Dichloropropane (1,2) | <0.5 | <0.5 | <0.5 | 12 | <0.5 | <0.5 | <0.5 | 11 | <0.5 | <0.5 | <0.5 | 254 | <0.5 | <0.5 | <0.5 | 254 | | |
| Methyl t-Butyl Ether (MTBE) | <0.5 | <0.5 | <0.5 | 12 | <0.5 | <0.5 | <0.5 | 11 | <0.5 | <0.5 | <0.5 | 254 | <0.5 | <0.5 | <0.5 | 254 | | |
| MIBK | <1 | <1 | <1 | 12 | <1 | <1 | <1 | 11 | <1 | <1 | <1 | 254 | <1 | <1 | <1 | 254 | | |
| Styrene | <0.5 | <0.5 | <0.5 | 29 | <0.5 | <0.5 | <0.5 | 30 | <0.5 | <0.5 | <0.5 | 271 | <0.5 | <0.5 | <0.5 | 273 | | |
| Tetrachloroethane (1,1,2,2) | <0.5 | <0.5 | <0.5 | 12 | <0.5 | <0.5 | <0.5 | 11 | <0.5 | <0.5 | <1.0 | 254 | <0.5 | <0.5 | <1.0 | 254 | | |
| Total Volatile Organics (NonTHM) | 2.4 | 1.3 | 4.1 | 12 | 2.7 | 1.5 | 4.3 | 11 | 2.0 | <1.0 | 6.5 | 254 | 2.0 | <1.0 | 6.7 | 254 | | |
| Total Volatile Organics (Unknown) | | | | 0 | | | | 0 | 1.1 | <0.5 | 2.4 | 38 | 1.1 | <0.5 | 2.8 | 42 | | |
| Trichlorobenzene (1,2,4) | <0.5 | <0.5 | <0.5 | 12 | <0.5 | <0.5 | <0.5 | 11 | <0.5 | <0.5 | <0.5 | 254 | <0.5 | <0.5 | <0.5 | 254 | | |
| Trichloroethane (1,1,1) | <0.5 | <0.5 | <0.5 | 12 | <0.5 | <0.5 | <0.5 | 11 | <0.5 | <0.5 | <0.5 | 254 | <0.5 | <0.5 | <0.5 | 254 | | |
| Xylene (1,2) | <0.5 | <0.5 | <0.5 | 12 | <0.5 | <0.5 | <0.5 | 11 | <0.5 | <0.5 | <0.5 | 254 | <0.5 | <0.5 | <0.5 | 254 | | |
| Xylene (1,4) | <0.5 | <0.5 | <0.5 | 12 | <0.5 | <0.5 | <0.5 | 11 | <0.5 | <0.5 | 1.3 | 254 | <0.5 | <0.5 | 0.6 | 254 | | |

TABLE EXPLANATIONS:

* Numbers with no brackets are Health Canada Guidelines for Canadian Drinking Water Quality (GCDWQ) Maximum Acceptable Concentrations (MAC) and/or a limit set out in the Alberta Environment and Parks (AEP) Operating Approval 638-04-01. Limits in brackets indicate Aesthetic Objectives or Operational Guidelines (OG) and are not Approval Limits. The EPCOR limits are internal limits set by EPCOR in the Operations Program.

** Primary parameters are those that have health-based limits (MACs) according to the AEP Operating Approval 638-04-01

*** Secondary parameters do not have health-based limits but may have aesthetic or operational objectives

**** UV 254 %T for Rosedale based on a sample collected daily from one of the nine filters selected randomly. For E.L. Smith it is based on a daily sample of Combined Filter Effluent

2.2.6.a Routine Distribution System (does not include Field Reservoirs)

September 2024

| | | | | | | | | | Limits | |
|-------------------------------------|----------|----------|----------|-------|----------|----------|----------|-------|------------------------------------|---------------|
| | Monthly | | | | YTD | | | | *Approval or GCDWQ MAC, (AO or OG) | EPCOR |
| | Mean | Min | Max | Count | Mean | Min | Max | Count | | |
| Microbiological | | | | | | | | | | |
| Microcystin | <0.2 | <0.2 | <0.2 | 1 | <0.2 | <0.2 | <0.2 | 5 | 1.5 | |
| Physical | | | | | | | | | | |
| Colour (TCU) | | | | 0 | 0.8 | 0.6 | 1.1 | 3 | (15) | 10 |
| pH (N/A) | 7.8 | 7.6 | 7.9 | 60 | 7.8 | 7.6 | 8.0 | 281 | (7.0 - 10.5) | 7.3 - 8.3 |
| Total Dissolved Solids (mg/L) | | | | 0 | 240 | 227 | 261 | 3 | (500) | |
| Turbidity (NTU) | 0.21 | <0.04 | 3.16 | 102 | 0.25 | <0.04 | 5.03 | 1172 | | 1.0 |
| UV 254 %T | | | | 0 | <92.2 | <90.1 | <93.7 | 3 | | |
| Primary Inorganics (mg/L) ** | | | | | | | | | | |
| Antimony | <0.0005 | <0.0005 | <0.0005 | 1 | <0.0004 | <0.0002 | <0.0005 | 4 | 0.006 | |
| Arsenic | <0.0002 | <0.0002 | <0.0002 | 1 | <0.0002 | <0.0002 | <0.0002 | 4 | 0.01 | |
| Barium | 0.063 | 0.063 | 0.063 | 1 | 0.064 | 0.057 | 0.074 | 4 | 2 | |
| Boron | 0.010 | 0.010 | 0.010 | 1 | 0.010 | 0.009 | 0.011 | 4 | 2 | |
| Bromate Dissolved | <0.005 | <0.005 | <0.005 | 2 | <0.005 | <0.003 | <0.005 | 19 | 0.01 | |
| Cadmium | <0.0002 | <0.0002 | <0.0002 | 1 | <0.0002 | <0.0002 | <0.0002 | 4 | 0.007 | |
| Chlorate Dissolved | 0.16 | 0.12 | 0.21 | 2 | 0.18 | <0.08 | 0.30 | 19 | 1 | |
| Chlorite Dissolved | <0.005 | <0.005 | <0.005 | 2 | <0.036 | <0.005 | <0.200 | 19 | 1 | |
| Chromium | <0.0002 | <0.0002 | <0.0002 | 1 | 0.0002 | <0.0002 | 0.0003 | 4 | 0.05 | |
| Copper | <0.002 | <0.002 | <0.002 | 1 | <0.003 | <0.002 | <0.005 | 4 | 2 (1) | |
| Fluoride | | | | 0 | 0.68 | 0.65 | 0.74 | 3 | 1.5 | 0.6 - 0.8 |
| Lead | <0.0002 | <0.0002 | <0.0002 | 1 | <0.0002 | <0.0002 | <0.0002 | 4 | 0.005 | |
| Manganese | <0.002 | <0.002 | <0.002 | 1 | <0.002 | <0.002 | <0.002 | 4 | 0.12 (0.02) | |
| Mercury | <0.00020 | <0.00020 | <0.00020 | 1 | <0.00160 | <0.00005 | <0.00500 | 7 | 0.001 | |
| Nitrate (as N) Dissolved | 0.02 | <0.01 | 0.07 | 62 | 0.04 | <0.01 | 0.18 | 302 | 10 | |
| Nitrite (as N) Dissolved | 0.011 | <0.010 | 0.040 | 62 | <0.009 | <0.005 | 0.040 | 302 | 1 | |
| Selenium | <0.0002 | <0.0002 | <0.0002 | 1 | 0.0003 | <0.0002 | 0.0003 | 4 | 0.05 | |
| Strontium | 0.455 | 0.455 | 0.455 | 1 | 0.451 | 0.438 | 0.466 | 4 | 7.0 | |
| Total Chlorine | 1.76 | 0.52 | 2.27 | 103 | 1.88 | 0.52 | 2.44 | 1171 | >0.5 and <3.0 | >1.0 and <2.4 |
| Uranium | <0.0005 | <0.0005 | <0.0005 | 1 | <0.0005 | <0.0005 | <0.0005 | 4 | 0.02 | |

2.2.6.a Routine Distribution System (does not include Field Reservoirs)

September 2024

| | | | | | | | | | Limits | |
|--------------------------------------|----------|----------|----------|-------|----------|----------|---------|-------|------------------------------------|-------|
| | Monthly | | | | YTD | | | | *Approval or GCDWQ MAC, (AO or OG) | EPCOR |
| | Mean | Min | Max | Count | Mean | Min | Max | Count | | |
| Primary Organics (ug/L) ** | | | | | | | | | | |
| 2,4-D | | | | 0 | <0.12 | <0.05 | <0.25 | 3 | 100 | |
| Atrazine | | | | 0 | <0.05 | <0.05 | <0.05 | 3 | 5 | |
| Atrazine+N-Dealkylated Metabolites | | | | 0 | <0.1 | <0.1 | <0.1 | 1 | 0.005 | |
| Azinphos-methyl | | | | 0 | <0.1 | <0.1 | <0.1 | 3 | 0.02 | |
| Benzene | <0.5 | <0.5 | <0.5 | 7 | <0.5 | <0.5 | <0.5 | 56 | 5 | |
| Benzo(a)pyrene | | | | 0 | <0.005 | <0.005 | <0.005 | 3 | 0.04 | |
| Bromoxynil | | | | 0 | <0.12 | <0.05 | <0.25 | 3 | 5 | |
| Carbon tetrachloride | <0.5 | <0.5 | <0.5 | 7 | <0.5 | <0.5 | <0.5 | 56 | 0.002 | |
| Chlorobenzene | <0.5 | <0.5 | <0.5 | 7 | <0.5 | <0.5 | <0.5 | 56 | 80 (30) | |
| Chlorpyrifos | | | | 0 | <0.1 | <0.1 | <0.1 | 3 | 90 | |
| Cyanazine | | | | 0 | <0.1 | <0.1 | <0.1 | 3 | | |
| Diazinon | | | | 0 | <0.025 | <0.025 | <0.025 | 3 | | |
| Dicamba | | | | 0 | <0.2 | <0.1 | <0.5 | 3 | 110 | |
| Dichlorobenzene (1,2) | <0.5 | <0.5 | <0.5 | 7 | <0.5 | <0.5 | <0.5 | 56 | | |
| Dichlorobenzene (1,4) | <0.5 | <0.5 | <0.5 | 7 | <0.5 | <0.5 | <0.5 | 56 | 5 (1) | |
| Dichloroethane (1,2) | <0.5 | <0.5 | <0.5 | 7 | <0.5 | <0.5 | <0.5 | 56 | 5 | |
| Dichloroethylene (1,1) | | | | 0 | <0.5 | <0.5 | <0.5 | 49 | 14 | |
| Dichlorophenol (2,4) | | | | 0 | <0.2 | <0.2 | <0.3 | 3 | | |
| Diclofop-methyl | | | | 0 | <0.1 | <0.1 | <0.1 | 3 | | |
| Dimethoate | | | | 0 | <0.05 | <0.05 | <0.05 | 3 | 20 | |
| Diquat | | | | 0 | <1 | <1 | <1 | 3 | 0.05 | |
| Diuron | | | | 0 | <0.05 | <0.05 | <0.05 | 3 | | |
| Ethylbenzene | <0.5 | <0.5 | <0.5 | 7 | <0.5 | <0.5 | <0.5 | 56 | 140 (1.6) | |
| Glyphosate | | | | 0 | <0.3 | <0.2 | <0.5 | 3 | 280 | |
| Malathion | | | | 0 | <0.025 | <0.025 | <0.025 | 3 | 190 | |
| MCPA | | | | 0 | <0.12 | <0.05 | <0.25 | 3 | 100 | |
| Methylene Chloride | | | | 0 | <0.5 | <0.5 | <0.5 | 49 | 50 | |
| Metolachlor | | | | 0 | <0.025 | <0.025 | <0.025 | 3 | | |
| Metribuzin | | | | 0 | <0.1 | <0.1 | <0.1 | 3 | 80 | |
| NDMA (µg/L) | <0.00530 | <0.00390 | <0.00620 | 3 | <0.00350 | <0.00100 | 0.00690 | 27 | 0.040 | 10 |
| Nitritotriacetic acid | | | | 0 | <0.4 | <0.4 | <0.4 | 3 | 0.4 | |
| Paraquat | | | | 0 | <1 | <1 | <1 | 1 | 0.07 | |
| Pentachlorophenol | | | | 0 | <0.7 | <0.5 | <1.0 | 3 | 60 (30) | |
| Perfluorooctane sulfonic acid (PFOS) | | | | 0 | <0.008 | <0.002 | <0.020 | 3 | 0.0006 | |
| Perfluorooctanoic acid (PFOA) | | | | 0 | <0.008 | <0.002 | <0.020 | 3 | 0.0002 | |
| Phorate | | | | 0 | <0.25 | <0.25 | <0.25 | 3 | | |
| Picloram | | | | 0 | <0.2 | <0.1 | <0.5 | 3 | | |
| Simazine | | | | 0 | <0.1 | <0.1 | <0.1 | 3 | | |
| Terbufos | | | | 0 | <0.5 | <0.5 | <0.5 | 3 | | |

2.2.6.a Routine Distribution System (does not include Field Reservoirs)

September 2024

| | | | | | | | | | Limits | |
|-----------------------------------|---------|------|------|-------|------|------|------|-------|--|-------|
| | Monthly | | | | YTD | | | | *Approval or GCDWQ MAC, (AO or OG) | EPCOR |
| | Mean | Min | Max | Count | Mean | Min | Max | Count | | |
| Primary Organics (ug/L) ** | | | | | | | | | | |
| Tetrachloroethylene | <0.5 | <0.5 | <0.5 | 7 | <0.5 | <0.5 | <0.5 | 56 | 10 | |
| Tetrachlorophenol (2,3,4,6) | | | | 0 | <0.5 | <0.5 | <0.5 | 3 | 100 (1) | |
| Toluene | <0.5 | <0.5 | <0.5 | 7 | <0.5 | <0.5 | <0.5 | 56 | 60 (24) | |
| Total Xylenes | | | | 0 | <1 | <1 | <1 | 49 | 90 | |
| Trichloroethylene | <0.5 | <0.5 | <0.5 | 7 | <0.5 | <0.5 | <0.5 | 56 | 5 | |
| Trichlorophenol (2,4,6) | | | | 0 | <0.3 | <0.2 | <0.5 | 3 | 5 (2) | |
| Trifluralin | | | | 0 | <0.1 | <0.1 | <0.1 | 3 | | |
| Vinyl Chloride | | | | 0 | <1 | <1 | <1 | 49 | 2 | |

2.2.6.a Routine Distribution System (does not include Field Reservoirs)

September 2024

| | | | | | | | | | Limits | |
|--|---------|---------|---------|-------|---------|---------|---------|-------|------------------------------------|---------|
| | Monthly | | | | YTD | | | | *Approval or GCDWQ MAC, (AO or OG) | EPCOR |
| | Mean | Min | Max | Count | Mean | Min | Max | Count | | |
| Secondary Inorganics (mg/L) *** | | | | | | | | | | |
| Alkalinity Total | | | | 0 | 119 | 116 | 121 | 3 | | |
| Alkalinity, PHP (mg CaCO3/L) | | | | 0 | <3 | <3 | <3 | 3 | | |
| Aluminum | 0.080 | 0.080 | 0.080 | 1 | 0.051 | 0.014 | 0.093 | 4 | 2.9 | 0.1/0.2 |
| Ammonia as N | 0.13 | 0.11 | 0.15 | 2 | 0.15 | 0.09 | 0.24 | 22 | | |
| Beryllium | <0.0002 | <0.0002 | <0.0002 | 1 | <0.0002 | <0.0002 | <0.0002 | 4 | | |
| Bromide Dissolved | <0.03 | <0.03 | <0.03 | 2 | <0.03 | <0.01 | <0.05 | 19 | | |
| Calcium | 48.9 | 48.9 | 48.9 | 1 | 48.7 | 46.5 | 51.8 | 4 | | |
| Chloride Dissolved | 7.15 | 6.53 | 7.76 | 2 | 6.67 | 4.87 | 8.73 | 19 | (250) | |
| Cobalt | <0.0002 | <0.0002 | <0.0002 | 1 | <0.0002 | <0.0002 | <0.0002 | 4 | | |
| Free Chlorine | | | | 0 | <0.07 | <0.07 | <0.07 | 3 | | |
| Iron | 0.009 | 0.009 | 0.009 | 1 | 0.008 | <0.005 | 0.013 | 4 | (0.3) | 0.3 |
| Lanthanum | <0.001 | <0.001 | <0.001 | 1 | <0.001 | <0.001 | <0.001 | 4 | | |
| Lithium | 0.0041 | 0.0041 | 0.0041 | 1 | 0.0038 | 0.0034 | 0.0042 | 4 | | |
| Magnesium | 13.8 | 13.8 | 13.8 | 1 | 14.2 | 13.4 | 15.3 | 4 | | |
| Molybdenum | 0.0006 | 0.0006 | 0.0006 | 1 | 0.0008 | 0.0006 | 0.0010 | 4 | | |
| Nickel | <0.0005 | <0.0005 | <0.0005 | 1 | 0.0006 | <0.0005 | 0.0010 | 4 | | |
| Phosphorus | 0.99 | 0.99 | 0.99 | 1 | 1.00 | 0.91 | 1.05 | 4 | | |
| Potassium | 0.7 | 0.7 | 0.7 | 1 | 0.8 | 0.7 | 0.9 | 4 | | |
| Silicon | 1.69 | 1.69 | 1.69 | 1 | 2.12 | 1.69 | 2.59 | 4 | | |
| Silver | <0.0002 | <0.0002 | <0.0002 | 1 | <0.0002 | <0.0002 | <0.0002 | 4 | | |
| Sodium | 6.9 | 6.9 | 6.9 | 1 | 11.2 | 6.9 | 13.5 | 4 | (200) | |
| Sulphate Dissolved | 72.1 | 71.9 | 72.2 | 2 | 71.5 | 59.0 | 82.4 | 19 | (500) | |
| Thallium | <0.0002 | <0.0002 | <0.0002 | 1 | <0.0003 | <0.0002 | <0.0005 | 4 | | |
| Tin | <0.0005 | <0.0005 | <0.0005 | 1 | <0.0005 | <0.0005 | <0.0005 | 4 | | |
| Titanium | <0.0005 | <0.0005 | <0.0005 | 1 | <0.0005 | <0.0005 | <0.0005 | 4 | | |
| Total Hardness (mg/L CaCO3) | | | | 0 | 179 | 171 | 183 | 3 | | |
| Total Kjeldahl Nitrogen | | | | 0 | 0.5 | 0.4 | 0.5 | 2 | | |
| Total Kjeldahl Nitrogen (TKN) | | | | 0 | 0.4 | 0.4 | 0.4 | 1 | | |
| Vanadium | <0.0005 | <0.0005 | <0.0005 | 1 | <0.0005 | <0.0005 | <0.0005 | 4 | | |
| Zinc | 0.037 | 0.037 | 0.037 | 1 | 0.013 | <0.005 | 0.037 | 4 | (5.0) | |
| Zirconium | <0.001 | <0.001 | <0.001 | 1 | <0.001 | <0.001 | <0.001 | 4 | | |

2.2.6.a Routine Distribution System (does not include Field Reservoirs)

September 2024

| | | | | | | | | | Limits | |
|--|---------|-------|-------|-------|--------|--------|--------|-------|--|-------|
| | Monthly | | | | YTD | | | | *Approval or GCDWQ MAC, (AO or OG) | EPCOR |
| | Mean | Min | Max | Count | Mean | Min | Max | Count | | |
| Secondary Organics (ug/L) *** | | | | | | | | | | |
| 2,4,5-T | | | | 0 | <0.12 | <0.05 | <0.25 | 3 | | |
| 6:2 Fluorotelomer sulfonic acid(6:2 FTS) | | | | 0 | <0.008 | <0.002 | <0.020 | 3 | | |
| 8:2 Fluorotelomer sulfonic acid(8:2 FTS) | | | | 0 | <0.008 | <0.002 | <0.020 | 3 | | |
| a-chlordane | | | | 0 | <0.008 | <0.008 | <0.008 | 3 | | |
| Alachlor | | | | 0 | <0.05 | <0.05 | <0.05 | 3 | | |
| Aldicarb | | | | 0 | <0.1 | <0.1 | <0.1 | 3 | | |
| Aldrin | | | | 0 | <0.008 | <0.008 | <0.008 | 3 | | |
| Ametryn | | | | 0 | <0.025 | <0.025 | <0.025 | 3 | | |
| Atrazine Desethyl | | | | 0 | <0.025 | <0.025 | <0.025 | 3 | | |
| Bendiocarb | | | | 0 | <0.025 | <0.025 | <0.025 | 3 | | |
| Bromochloroacetic acid | <1 | <1 | <1 | 6 | <1 | <1 | <1 | 54 | | |
| Bromodichloromethane | 1.3 | 0.8 | 1.5 | 7 | 1.2 | <0.5 | 2.1 | 56 | | 16 |
| Bromoform | <0.5 | <0.5 | <0.5 | 7 | <0.5 | <0.5 | <0.5 | 56 | | |
| Carbaryl | | | | 0 | <0.05 | <0.05 | <0.05 | 3 | | |
| Carbofuran | | | | 0 | <0.025 | <0.025 | <0.025 | 3 | | |
| Chloroform | 29.5 | 22.7 | 32.2 | 7 | 21.8 | 7.6 | 39.1 | 56 | | |
| Dibromoacetic acid | <1 | <1 | <1 | 6 | <1 | <1 | <1 | 54 | | |
| Dibromochloromethane | <0.5 | <0.5 | <0.5 | 7 | <0.5 | <0.5 | <0.5 | 56 | | |
| Dibromoethane (1,2) | <0.5 | <0.5 | <0.5 | 7 | <0.5 | <0.5 | <0.5 | 7 | | |
| Dichloroacetic acid | 12.98 | 11.60 | 13.60 | 6 | 11.50 | 5.90 | 23.50 | 54 | | |
| Dichlorobenzene (1,3) | | | | 0 | <0.5 | <0.5 | <0.5 | 49 | | |
| Dichloroethylene, cis (1,2) | | | | 0 | <0.5 | <0.5 | <0.5 | 49 | | |
| Dichloroethylene, trans (1,2) | | | | 0 | <0.5 | <0.5 | <0.5 | 49 | | |
| Dichloropropane (1,2) | | | | 0 | <0.5 | <0.5 | <0.5 | 49 | | |
| Dieldrin | | | | 0 | <0.008 | <0.008 | <0.008 | 3 | | |
| Dinoseb | | | | 0 | <0.12 | <0.05 | <0.25 | 3 | | |
| gamma-hexachlorocyclohexane | | | | 0 | <0.008 | <0.008 | <0.008 | 3 | | |
| g-chlordane | | | | 0 | <0.008 | <0.008 | <0.008 | 3 | | |
| Heptachlor | | | | 0 | <0.008 | <0.008 | <0.008 | 3 | | |
| Heptachlor Epoxide | | | | 0 | <0.008 | <0.008 | <0.008 | 3 | | |
| Methoxychlor | | | | 0 | <0.008 | <0.008 | <0.008 | 3 | | |
| Methyl Parathion | | | | 0 | <0.1 | <0.1 | <0.1 | 3 | | |
| Methyl t-Butyl Ether (MTBE) | | | | 0 | <0.5 | <0.5 | <0.5 | 49 | (15) | |
| MIBK | | | | 0 | <1 | <1 | <1 | 49 | | |
| Monobromoacetic acid | <1 | <1 | <1 | 6 | <1 | <1 | <1 | 54 | | |
| Monochloroacetic acid | <1 | <1 | <1 | 6 | 1 | <1 | 2 | 54 | | |
| op-DDT | | | | 0 | <0.004 | <0.004 | <0.004 | 3 | | |
| Oxychlordane | | | | 0 | <0.008 | <0.008 | <0.008 | 3 | | |
| Parathion | | | | 0 | <0.1 | <0.1 | <0.1 | 3 | | |

2.2.6.a Routine Distribution System (does not include Field Reservoirs)

September 2024

| | | | | | | | | | Limits | |
|---------------------------------------|---------|-------|-------|-------|--------|--------|--------|-------|--|-------|
| | Monthly | | | | YTD | | | | *Approval or GCDWQ MAC, (AO or OG) | EPCOR |
| | Mean | Min | Max | Count | Mean | Min | Max | Count | | |
| Secondary Organics (ug/L) *** | | | | | | | | | | |
| Perfluorobutane sulfonic acid (PFBS) | | | | 0 | <0.008 | <0.002 | <0.020 | 3 | | |
| Perfluorobutanoic acid (PFBA) | | | | 0 | <0.05 | <0.02 | <0.10 | 3 | | |
| Perfluoroheptanoic acid (PFHpA) | | | | 0 | <0.008 | <0.002 | <0.020 | 3 | | |
| Perfluorohexane sulfonic acid (PFHxS) | | | | 0 | <0.008 | <0.002 | <0.020 | 3 | | |
| Perfluorohexanoic acid (PFHxA) | | | | 0 | <0.008 | <0.002 | <0.020 | 3 | | |
| Perfluorononanoic acid (PFNA) | | | | 0 | <0.008 | <0.002 | <0.020 | 3 | | |
| Perfluoropentanoic acid (PFPeA) | | | | 0 | <0.008 | <0.002 | <0.020 | 3 | | |
| pp-DDD | | | | 0 | <0.004 | <0.004 | <0.004 | 3 | | |
| pp-DDE | | | | 0 | <0.004 | <0.004 | <0.004 | 3 | | |
| pp-DDT | | | | 0 | <0.004 | <0.004 | <0.004 | 3 | | |
| Prometon | | | | 0 | <0.025 | <0.025 | <0.025 | 3 | | |
| Prometryne | | | | 0 | <0.025 | <0.025 | <0.025 | 1 | | |
| Propazine | | | | 0 | <0.025 | <0.025 | <0.025 | 3 | | |
| Styrene | <0.5 | <0.5 | <0.5 | 7 | <0.5 | <0.5 | <0.5 | 56 | | |
| Temephos | | | | 0 | <0.25 | <0.25 | <0.25 | 3 | | |
| Terbutryn | | | | 0 | <0.025 | <0.025 | <0.025 | 3 | | |
| Tetrachloroethane (1,1,2,2) | | | | 0 | <0.5 | <0.5 | <0.5 | 49 | | |
| Total Organic Carbon | 1.5 | 1.5 | 1.5 | 2 | 1.8 | 1.2 | 2.7 | 214 | | |
| Total Volatile Organics (NonTHM) | | | | 0 | 2 | <1 | 5 | 49 | | |
| Total Volatile Organics (Unknown) | | | | 0 | 1.0 | <0.5 | 1.9 | 11 | | |
| Triallate | | | | 0 | <0.1 | <0.1 | <0.1 | 3 | | |
| Trichloroacetic acid | 12.85 | 12.30 | 13.40 | 6 | 11.06 | 5.40 | 24.30 | 54 | | |
| Trichlorobenzene (1,2,4) | <0.5 | <0.5 | <0.5 | 14 | <0.5 | <0.5 | <0.5 | 63 | | |
| Trichloroethane (1,1,1) | | | | 0 | <0.5 | <0.5 | <0.5 | 49 | | |
| Trichloroethane (1,1,2) | <0.5 | <0.5 | <0.5 | 7 | <0.5 | <0.5 | <0.5 | 7 | | |
| Trichloropropane (1,2,3) | <0.5 | <0.5 | <0.5 | 7 | <0.5 | <0.5 | <0.5 | 7 | | |
| Xylene (1,2) | | | | 0 | <0.5 | <0.5 | <0.5 | 49 | | |
| Xylene (1,4) | | | | 0 | <0.5 | <0.5 | <0.5 | 49 | | |

TABLE EXPLANATIONS:

- * Numbers with no brackets are Health Canada Guidelines for Canadian Drinking Water Quality (GCDWQ) Maximum Acceptable Concentrations (MAC) and/or a limit set out in the Alberta Environment and Parks (AEP) Operating Approval 638-04-01. Limits in brackets indicate Aesthetic Objectives or Operational Guidelines (OG) and are not Approval Limits. The EPCOR limits are internal limits set by EPCOR in the Operations Program.
- ** Primary parameters are those that have health-based limits (MACs) according to the AEP Operating Approval 638-04-01
- *** Secondary parameters do not have health-based limits but may have aesthetic or operational objectives

2.2.6.b Additional Distribution System Samples Collected from Water Quality Complaint Investigations

September 2024

| | | | | | | | | | Limits | |
|-------------------------------------|----------|----------|----------|-------|----------|----------|----------|-------|------------------------------------|---------------|
| | Monthly | | | | YTD | | | | *Approval or GCDWQ MAC, (AO or OG) | EPCOR |
| | Mean | Min | Max | Count | Mean | Min | Max | Count | | |
| Physical | | | | | | | | | | |
| Colour (TCU) | 1.0 | 0.7 | 1.3 | 13 | 0.9 | <0.5 | 1.9 | 118 | (15) | 10 |
| pH (N/A) | 7.8 | 7.7 | 7.9 | 13 | 7.8 | 7.6 | 8.1 | 118 | (7.0 - 10.5) | 7.3 - 8.3 |
| Turbidity (NTU) | 0.46 | 0.06 | 2.25 | 13 | 0.45 | <0.04 | 2.89 | 118 | | 1.0 |
| Primary Inorganics (mg/L) ** | | | | | | | | | | |
| Antimony | <0.0005 | <0.0005 | <0.0005 | 13 | <0.0005 | <0.0002 | <0.0005 | 118 | 0.006 | |
| Arsenic | <0.0002 | <0.0002 | <0.0002 | 13 | <0.0002 | <0.0002 | <0.0002 | 118 | 0.01 | |
| Barium | 0.066 | 0.061 | 0.076 | 13 | 0.062 | <0.002 | 0.093 | 118 | 2 | |
| Boron | 0.011 | 0.010 | 0.015 | 13 | 0.012 | 0.007 | 0.036 | 118 | 2 | |
| Cadmium | <0.0002 | <0.0002 | <0.0002 | 13 | <0.0002 | <0.0002 | <0.0002 | 118 | 0.007 | |
| Chromium | <0.0002 | <0.0002 | <0.0002 | 13 | <0.0002 | <0.0002 | <0.0002 | 118 | 0.05 | |
| Copper | 0.017 | <0.002 | 0.192 | 13 | 0.006 | <0.002 | 0.192 | 118 | 2 (1) | |
| Lead | 0.0004 | <0.0002 | 0.0025 | 13 | 0.0002 | <0.0002 | 0.0025 | 118 | 0.005 | |
| Manganese | 0.002 | <0.002 | 0.006 | 13 | 0.002 | <0.002 | 0.008 | 118 | 0.12 (0.02) | |
| Mercury | <0.00020 | <0.00020 | <0.00020 | 13 | <0.00020 | <0.00020 | <0.00020 | 112 | 0.001 | |
| Nitrate (as N) Dissolved | | | | 0 | 0.03 | 0.03 | 0.03 | 1 | 10 | |
| Nitrite (as N) Dissolved | | | | 0 | <0.01 | <0.01 | <0.01 | 1 | 1 | |
| Selenium | 0.0003 | <0.0002 | 0.0003 | 13 | 0.0003 | <0.0002 | 0.0004 | 118 | 0.05 | |
| Strontium | 0.438 | 0.421 | 0.451 | 13 | 0.443 | <0.002 | 0.501 | 118 | 7.0 | |
| Total Chlorine | 1.74 | 1.39 | 2.27 | 13 | 1.80 | 0.75 | 2.27 | 118 | >0.5 and <3.0 | >1.0 and <2.4 |
| Uranium | <0.0005 | <0.0005 | <0.0005 | 13 | 0.0005 | <0.0005 | 0.0006 | 118 | 0.02 | |
| Primary Organics (ug/L) ** | | | | | | | | | | |
| Benzene | <0.5 | <0.5 | <0.5 | 13 | <0.5 | <0.5 | <0.5 | 118 | 5 | |
| Carbon Tetrachloride | <0.5 | <0.5 | <0.5 | 13 | <0.5 | <0.5 | <0.5 | 118 | 2 | |
| Chlorobenzene | <0.5 | <0.5 | <0.5 | 13 | <0.5 | <0.5 | <0.5 | 118 | 80 (30) | |
| Dichlorobenzene (1,2) | <0.5 | <0.5 | <0.5 | 13 | <0.5 | <0.5 | <0.5 | 118 | | |
| Dichlorobenzene (1,4) | <0.5 | <0.5 | <0.5 | 13 | <0.5 | <0.5 | <0.5 | 118 | 5 (1) | |
| Dichloroethane (1,2) | <0.5 | <0.5 | <0.5 | 13 | <0.5 | <0.5 | <0.5 | 118 | 5 | |
| Dichloroethylene (1,1) | <0.5 | <0.5 | <0.5 | 6 | <0.5 | <0.5 | <0.5 | 111 | 14 | |
| Ethylbenzene | <0.5 | <0.5 | <0.5 | 13 | <0.5 | <0.5 | <0.5 | 118 | 140 (1.6) | |
| Methylene Chloride | <0.5 | <0.5 | <0.5 | 6 | <0.5 | <0.5 | <0.5 | 111 | 50 | |
| Tetrachloroethylene | <0.5 | <0.5 | <0.5 | 13 | <0.5 | <0.5 | <0.5 | 118 | 10 | |
| Toluene | <0.5 | <0.5 | <0.5 | 13 | 0.6 | <0.5 | 3.4 | 118 | 60 (24) | |
| Total Xylenes | <1.0 | <1.0 | <1.0 | 6 | 1.0 | <1.0 | 1.2 | 111 | 90 | |
| Trichloroethylene | <0.5 | <0.5 | <0.5 | 13 | <0.5 | <0.5 | <0.5 | 118 | 5 | |
| Vinyl Chloride | <1 | <1 | <1 | 6 | <1 | <1 | <1 | 111 | 2 | |

2.2.6.b Additional Distribution System Samples Collected from Water Quality Complaint Investigations

September 2024

| | | | | | | | | | Limits | |
|--|---------|---------|---------|-------|---------|---------|---------|-------|--|---------|
| | Monthly | | | | YTD | | | | *Approval or GCDWQ MAC, (AO or OG) | EPCOR |
| | Mean | Min | Max | Count | Mean | Min | Max | Count | | |
| Secondary Inorganics (mg/L) *** | | | | | | | | | | |
| Aluminum | 0.092 | 0.034 | 0.468 | 13 | 0.079 | 0.012 | 0.955 | 118 | 2.9 | 0.1/0.2 |
| Beryllium | <0.0002 | <0.0002 | <0.0002 | 13 | <0.0002 | <0.0002 | <0.0002 | 118 | | |
| Calcium | 48.9 | 48.0 | 50.5 | 13 | 48.1 | <0.1 | 54.3 | 118 | | |
| Cobalt | 0.0002 | <0.0002 | 0.0003 | 13 | 0.0002 | <0.0002 | 0.0006 | 118 | | |
| Iron | 0.078 | <0.005 | 0.497 | 13 | 0.064 | <0.005 | 0.497 | 118 | (0.3) | 0.3 |
| Lanthanum | <0.001 | <0.001 | <0.001 | 13 | <0.001 | <0.001 | <0.001 | 118 | | |
| Lithium | 0.0041 | 0.0034 | 0.0053 | 13 | 0.0039 | <0.0002 | 0.0076 | 118 | | |
| Magnesium | 13.8 | 13.4 | 14.4 | 13 | 13.7 | <0.1 | 16.4 | 118 | | |
| Molybdenum | 0.0008 | 0.0007 | 0.0009 | 13 | 0.0008 | 0.0006 | 0.0011 | 118 | | |
| Nickel | 0.0005 | <0.0005 | 0.0010 | 13 | 0.0006 | <0.0005 | 0.0028 | 118 | | |
| Phosphorus | 0.97 | 0.88 | 1.25 | 13 | 0.98 | 0.33 | 1.62 | 118 | | |
| Potassium | 0.8 | 0.7 | 0.8 | 13 | 0.9 | 0.3 | 2.8 | 118 | | |
| Silicon | 2.08 | 1.76 | 2.45 | 13 | 2.10 | 1.63 | 2.69 | 118 | | |
| Silver | <0.0002 | <0.0002 | <0.0002 | 13 | <0.0002 | <0.0002 | <0.0002 | 118 | | |
| Sodium | 10.0 | 7.5 | 14.9 | 13 | 12.2 | 6.6 | 98.7 | 118 | (200) | |
| Thallium | <0.0002 | <0.0002 | <0.0002 | 13 | <0.0002 | <0.0002 | <0.0005 | 118 | | |
| Tin | <0.0005 | <0.0005 | <0.0005 | 13 | <0.0005 | <0.0005 | <0.0005 | 118 | | |
| Titanium | <0.0005 | <0.0005 | <0.0005 | 13 | <0.0005 | <0.0005 | <0.0005 | 118 | | |
| Total Hardness (mg/L CaCO3) | 179 | 176 | 183 | 13 | 176 | <2 | 201 | 118 | | |
| Vanadium | <0.0005 | <0.0005 | <0.0005 | 13 | <0.0005 | <0.0005 | <0.0005 | 118 | | |
| Zinc | 0.006 | <0.005 | 0.011 | 13 | 0.005 | <0.005 | 0.023 | 118 | (5.0) | |
| Zirconium | <0.001 | <0.001 | <0.001 | 13 | <0.001 | <0.001 | <0.001 | 118 | | |

2.2.6.b Additional Distribution System Samples Collected from Water Quality Complaint Investigations

September 2024

| | | | | | | | | | Limits | |
|--------------------------------------|---------|------|------|-------|------|------|------|-------|------------------------------------|-------|
| | Monthly | | | | YTD | | | | *Approval or GCDWQ MAC, (AO or OG) | EPCOR |
| | Mean | Min | Max | Count | Mean | Min | Max | Count | | |
| Secondary Organics (ug/L) *** | | | | | | | | | | |
| Bromodichloromethane | 1.2 | 1.0 | 1.7 | 13 | 1.3 | <0.5 | 2.1 | 118 | (15) | 16 |
| Bromoform | <0.5 | <0.5 | <0.5 | 13 | <0.5 | <0.5 | <0.5 | 118 | | |
| Chloroform | 28.2 | 16.4 | 31.0 | 13 | 20.8 | 5.6 | 37.6 | 118 | | |
| Dibromochloromethane | <0.5 | <0.5 | <0.5 | 13 | <0.5 | <0.5 | <0.5 | 118 | | |
| Dibromoethane (1,2) | <0.5 | <0.5 | <0.5 | 7 | <0.5 | <0.5 | <0.5 | 7 | | |
| Dichlorobenzene (1,3) | <0.5 | <0.5 | <0.5 | 6 | <0.5 | <0.5 | <0.5 | 111 | | |
| Dichloroethylene, cis (1,2) | <0.5 | <0.5 | <0.5 | 6 | <0.5 | <0.5 | <0.5 | 111 | | |
| Dichloroethylene, trans (1,2) | <0.5 | <0.5 | <0.5 | 6 | <0.5 | <0.5 | <0.5 | 111 | | |
| Dichloropropane (1,2) | <0.5 | <0.5 | <0.5 | 6 | <0.5 | <0.5 | <0.5 | 111 | | |
| Methyl t-Butyl Ether (MTBE) | <0.5 | <0.5 | <0.5 | 6 | <0.5 | <0.5 | <0.5 | 111 | | |
| MIBK | <1 | <1 | <1 | 6 | <1 | <1 | <1 | 111 | | |
| Styrene | <0.5 | <0.5 | <0.5 | 13 | <0.5 | <0.5 | <0.5 | 118 | | |
| Tetrachloroethane (1,1,2,2) | <0.5 | <0.5 | <0.5 | 6 | <0.5 | <0.5 | <0.5 | 111 | | |
| Total Volatile Organics (NonTHM) | 2.7 | 1.8 | 4.5 | 6 | 2.3 | <1.0 | 6.9 | 111 | | |
| Total Volatile Organics (Unknown) | | | | 0 | 3.2 | <0.5 | 13.8 | 17 | | |
| Trichlorobenzene (1,2,4) | <0.5 | <0.5 | <0.5 | 20 | <0.5 | <0.5 | <0.5 | 125 | | |
| Trichloroethane (1,1,1) | <0.5 | <0.5 | <0.5 | 6 | <0.5 | <0.5 | <0.5 | 111 | | |
| Trichloroethane (1,1,2) | <0.5 | <0.5 | <0.5 | 7 | <0.5 | <0.5 | <0.5 | 7 | | |
| Trichloropropane (1,2,3) | <0.5 | <0.5 | <0.5 | 7 | <0.5 | <0.5 | <0.5 | 7 | | |
| Xylene (1,2) | <0.5 | <0.5 | <0.5 | 6 | <0.5 | <0.5 | <0.5 | 111 | | |
| Xylene (1,4) | <0.5 | <0.5 | <0.5 | 6 | 0.5 | <0.5 | 1.1 | 111 | | |

TABLE EXPLANATIONS:

* Numbers with no brackets are Health Canada Guidelines for Canadian Drinking Water Quality (GCDWQ) Maximum Acceptable Concentrations (MAC) and/or a limit set out in the Alberta Environment and Parks (AEP) Operating Approval 638-04-01. Limits in brackets indicate Aesthetic Objectives or Operational Guidelines (OG) and are not Approval Limits. The EPCOR limits are internal limits set by EPCOR in the Operations Program.

** Primary parameters are those that have health-based limits (MACs) according the AEP Operating Approval 638-04-01

*** Secondary parameters do not have health-based limits but may have aesthetic or operational objectives

2.2.7 Castledowns Reservoir

September 2024

| Parameter | | | | | | | | | Limits | |
|-------------------------------------|---------|---------|---------|-------|---------|---------|---------|-------|------------------------------------|---------------|
| | Monthly | | | | YTD | | | | *Approval or GCDWQ MAC, (AO or OG) | EPCOR |
| | Mean | Min | Max | Count | Mean | Min | Max | Count | | |
| Physical | | | | | | | | | | |
| Colour (TCU) | 1.3 | 1.3 | 1.3 | 1 | 1.3 | 0.6 | 2.0 | 4 | (15) | 10 |
| Conductivity (uS/cm) | 423 | 423 | 423 | 1 | 409 | 391 | 423 | 4 | | |
| Odour | Inoff | Inoff | Inoff | 1 | Inoff | Inoff | Inoff | 4 | | |
| pH (N/A) | 7.8 | 7.7 | 7.8 | 4 | 7.8 | 7.7 | 8.1 | 19 | (7.0 - 10.5) | 7.3 - 8.3 |
| Turbidity (NTU) | 0.13 | 0.06 | 0.22 | 4 | 0.13 | 0.06 | 0.46 | 35 | | 1 |
| Primary Inorganics (mg/L) ** | | | | | | | | | | |
| Antimony | <0.0005 | <0.0005 | <0.0005 | 1 | <0.0004 | <0.0002 | <0.0005 | 4 | 0.006 | |
| Arsenic | 0.0002 | 0.0002 | 0.0002 | 1 | <0.0002 | <0.0002 | 0.0002 | 4 | 0.01 | |
| Barium | 0.068 | 0.068 | 0.068 | 1 | 0.061 | 0.051 | 0.069 | 4 | 2 | |
| Boron | 0.011 | 0.011 | 0.011 | 1 | 0.010 | 0.009 | 0.011 | 4 | 2 | |
| Bromate Dissolved | <0.005 | <0.005 | <0.005 | 1 | <0.005 | <0.005 | <0.005 | 5 | 0.01 | |
| Cadmium | <0.0002 | <0.0002 | <0.0002 | 1 | <0.0002 | <0.0002 | <0.0002 | 4 | 0.007 | |
| Chlorate Dissolved | 0.136 | 0.136 | 0.136 | 1 | 0.123 | 0.050 | 0.143 | 5 | 1 | |
| Chlorite Dissolved | <0.005 | <0.005 | <0.005 | 1 | <0.005 | <0.005 | <0.005 | 5 | 1 | |
| Chromium | <0.0002 | <0.0002 | <0.0002 | 1 | <0.0002 | <0.0002 | <0.0002 | 4 | 0.05 | |
| Copper | <0.002 | <0.002 | <0.002 | 1 | <0.003 | <0.002 | <0.005 | 4 | 2 (1) | |
| Fluoride | 0.69 | 0.69 | 0.69 | 1 | 0.70 | 0.66 | 0.75 | 4 | 1.5 | 0.6 - 0.8 |
| Lead | <0.0002 | <0.0002 | <0.0002 | 1 | <0.0002 | <0.0002 | <0.0002 | 4 | 0.005 | |
| Manganese | <0.002 | <0.002 | <0.002 | 1 | <0.002 | <0.002 | 0.003 | 4 | 0.12 (0.02) | |
| Mercury | <0.0002 | <0.0002 | <0.0002 | 1 | <0.0002 | <0.0002 | <0.0002 | 4 | 0.001 | |
| Nitrate (as N) Dissolved | 0.020 | 0.020 | 0.020 | 4 | 0.041 | 0.010 | 0.170 | 21 | 10 | |
| Nitrite (as N) Dissolved | <0.010 | <0.010 | <0.010 | 4 | <0.009 | <0.005 | 0.010 | 21 | 1 | |
| Selenium | 0.0003 | 0.0003 | 0.0003 | 1 | 0.0003 | 0.0002 | 0.0004 | 4 | 0.05 | |
| Strontium | 0.423 | 0.423 | 0.423 | 1 | 0.436 | 0.423 | 0.453 | 4 | 7.0 | |
| Total Chlorine | 1.83 | 1.71 | 1.91 | 4 | 1.78 | 1.27 | 2.06 | 35 | >0.5 and <3.0 | >1.0 and <2.4 |
| Uranium | <0.0005 | <0.0005 | <0.0005 | 1 | <0.0005 | <0.0005 | <0.0005 | 4 | 0.02 | |
| Primary Organics (ug/L) ** | | | | | | | | | | |
| Benzene | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 4 | 5 | |
| Carbon Tetrachloride | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 4 | 2 | |
| Chlorobenzene | <0.50 | <0.50 | <0.50 | 1 | <0.63 | <0.50 | 1.00 | 4 | 80 (30) | |
| Dichlorobenzene (1,2) | <0.50 | <0.50 | <0.50 | 1 | <0.63 | <0.50 | 1.00 | 4 | | |
| Dichlorobenzene (1,4) | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 4 | 5 (1) | |
| Dichloroethane (1,2) | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 4 | 5 | |
| Dichloroethylene (1,1) | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 4 | 14 | |
| Ethylbenzene | <0.50 | <0.50 | <0.50 | 1 | <0.63 | <0.50 | 1.00 | 4 | 140 (1.6) | |
| Methylene Chloride | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 4 | 50 | |
| Tetrachloroethylene | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 4 | 10 | |
| Toluene | <0.50 | <0.50 | <0.50 | 1 | <0.63 | <0.50 | 1.00 | 4 | 60 (24) | |
| Total Xylenes | <1 | <1 | <1 | 1 | <1 | <1 | <1 | 4 | 90 | |
| Trichloroethylene | <0.50 | <0.50 | <0.50 | 1 | <0.63 | <0.50 | 1.00 | 4 | 5 | |
| Vinyl Chloride | <1.0 | <1.0 | <1.0 | 1 | <1.3 | <1.0 | 2.0 | 4 | 2 | |

2.2.7 Castledowns Reservoir

September 2024

| Parameter | | | | | | | | | Limits | |
|--|---------|---------|---------|-------|---------|---------|---------|-------|------------------------------------|---------|
| | Monthly | | | | YTD | | | | *Approval or GCDWQ MAC, (AO or OG) | EPCOR |
| | Mean | Min | Max | Count | Mean | Min | Max | Count | | |
| Secondary Inorganics (mg/L) *** | | | | | | | | | | |
| Alkalinity Total | 117 | 117 | 117 | 1 | 118 | 112 | 122 | 4 | | |
| Aluminum | 0.055 | 0.055 | 0.055 | 1 | 0.050 | 0.022 | 0.090 | 4 | 2.9 | 0.1/0.2 |
| Ammonia as NH3 | 0.17 | 0.16 | 0.17 | 4 | 0.18 | 0.14 | 0.28 | 18 | | |
| Beryllium | <0.0002 | <0.0002 | <0.0002 | 1 | <0.0002 | <0.0002 | <0.0002 | 4 | | |
| Bromide Dissolved | <0.030 | <0.030 | <0.030 | 1 | <0.022 | <0.010 | <0.030 | | 5 | |
| Calcium | 47.5 | 47.5 | 47.5 | 1 | 47.6 | 45.5 | 49.5 | | 4 | |
| Calcium Hardness | | | | 0 | 121 | 121 | 121 | 1 | | |
| Calcium Hardness Calculated | 119 | 119 | 119 | 1 | 119 | 114 | 124 | 3 | | |
| Chloride Dissolved | 8.0 | 8.0 | 8.0 | 1 | 7.4 | 6.2 | 8.0 | 5 | (250) | |
| Cobalt | <0.0002 | <0.0002 | <0.0002 | 1 | <0.0002 | <0.0002 | <0.0002 | 4 | | |
| Iron | <0.005 | <0.005 | <0.005 | 1 | 0.023 | <0.005 | 0.078 | 4 | (0.3) | 0.3 |
| Lanthanum | <0.0010 | <0.0010 | <0.0010 | 1 | <0.0010 | <0.0010 | <0.0010 | 4 | | |
| Lithium | 0.0040 | 0.0040 | 0.0040 | 1 | 0.0036 | 0.0030 | 0.0040 | 4 | | |
| Magnesium | 13.7 | 13.7 | 13.7 | 1 | 13.7 | 13.3 | 14.0 | 4 | | |
| Molybdenum | 0.0007 | 0.0007 | 0.0007 | 1 | 0.0008 | 0.0007 | 0.0009 | | 4 | |
| Nickel | <0.0005 | <0.0005 | <0.0005 | 1 | <0.0005 | <0.0005 | <0.0005 | | 4 | |
| Ortho_P | 0.91 | 0.88 | 0.94 | 8 | 0.89 | 0.86 | 0.94 | 32 | | |
| Phosphorus | 1.00 | 1.00 | 1.00 | 1 | 0.97 | 0.87 | 1.02 | 4 | | |
| Potassium | 0.90 | 0.90 | 0.90 | 1 | 0.93 | 0.80 | 1.20 | 4 | | |
| Silicon | 2.36 | 2.36 | 2.36 | 1 | 2.14 | 1.67 | 2.36 | 4 | | |
| Silver | <0.0002 | <0.0002 | <0.0002 | 1 | <0.0002 | <0.0002 | <0.0002 | 4 | | |
| Sodium | 17.1 | 17.1 | 17.1 | 1 | 13.6 | 9.9 | 17.1 | 4 | (200) | |
| Sulphate Dissolved | 80.2 | 80.2 | 80.2 | 1 | 74.8 | 69.6 | 80.2 | 5 | (500) | |
| Thallium | <0.0002 | <0.0002 | <0.0002 | 1 | <0.0003 | <0.0002 | <0.0005 | 4 | | |
| Tin | <0.0005 | <0.0005 | <0.0005 | 1 | <0.0005 | <0.0005 | <0.0005 | 4 | | |
| Titanium | <0.0005 | <0.0005 | <0.0005 | 1 | <0.0005 | <0.0005 | <0.0005 | 4 | | |
| Total Hardness (mg/L CaCO3) | | | | 0 | 184 | 184 | 184 | 1 | | |
| Total Hardness Calculated | 175 | 175 | 175 | 1 | 175 | 168 | 181 | | 3 | |
| Vanadium | <0.0005 | <0.0005 | <0.0005 | 1 | <0.0005 | <0.0005 | <0.0005 | | 4 | |
| Zinc | <0.005 | <0.005 | <0.005 | 1 | <0.005 | <0.005 | <0.005 | 4 | (5.0) | |
| Zirconium | <0.0010 | <0.0010 | <0.0010 | 1 | <0.0010 | <0.0010 | <0.0010 | 4 | | |

2.2.7 Castledowns Reservoir

September 2024

| Parameter | | | | | | | | | Limits | |
|--------------------------------------|---------|-------|-------|-------|-------|-------|------|-------|------------------------------------|-------|
| | Monthly | | | | YTD | | | | *Approval or GCDWQ MAC, (AO or OG) | EPCOR |
| | Mean | Min | Max | Count | Mean | Min | Max | Count | | |
| Secondary Organics (ug/L) *** | | | | | | | | | | |
| Bromodichloromethane | 0.9 | 0.9 | 0.9 | 1 | 0.9 | 0.6 | 1.2 | 4 | (15) | 16 |
| Bromoform | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 4 | | |
| Chloroform | 30.5 | 30.5 | 30.5 | 1 | 22.9 | 6.9 | 35.6 | 4 | | |
| Dibromochloromethane | <0.50 | <0.50 | <0.50 | 1 | <0.63 | <0.50 | 1.00 | 4 | | |
| Dichlorobenzene (1,3) | <0.50 | <0.50 | <0.50 | 1 | <0.63 | <0.50 | 1.00 | 4 | | |
| Dichloroethylene, cis (1,2) | <0.50 | <0.50 | <0.50 | 1 | <0.63 | <0.50 | 1.00 | 4 | | |
| Dichloroethylene, trans (1,2) | <0.50 | <0.50 | <0.50 | 1 | <0.63 | <0.50 | 1.00 | 4 | | |
| Dichloropropane (1,2) | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 4 | | |
| Methyl t-Butyl Ether (MTBE) | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 4 | | |
| MIBK | <1.0 | <1.0 | <1.0 | 1 | <1.3 | <1.0 | 2.0 | 4 | | |
| Styrene | <0.50 | <0.50 | <0.50 | 1 | <0.63 | <0.50 | 1.00 | 4 | | |
| Tetrachloroethane (1,1,2,2) | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 4 | | |
| Total Organic Carbon | 2.0 | 2.0 | 2.0 | 1 | 1.7 | 0.9 | 2.3 | 16 | | |
| Total Volatile Organics (NonTHM) | 1.9 | 1.9 | 1.9 | 1 | <1.2 | <1.0 | 1.9 | 4 | | |
| Total Volatile Organics (Unknown) | | | | 0 | 0.7 | 0.7 | 0.7 | 1 | | |
| Trichlorobenzene (1,2,4) | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 4 | | |
| Trichloroethane (1,1,1) | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 4 | | |
| Xylene (1,2) | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 4 | | |
| Xylene (1,4) | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 4 | | |

TABLE EXPLANATIONS:

* Numbers with no brackets are Health Canada Guidelines for Canadian Drinking Water Quality (GCDWQ) Maximum Acceptable Concentrations (MAC) and/or a limit set out in the Alberta Environment and Parks (AEP) Operating Approval 638-04-01. Limits in brackets indicate Aesthetic Objectives or Operational Guidelines (OG) and are not Approval Limits. The EPCOR limits are internal limits set by EPCOR in the Operations Program.

** Primary parameters are those that have health-based limits (MACs) according the AEP Operating Approval 638-04-01

*** Secondary parameters do not have health-based limits but may have aesthetic or operational objectives

2.2.8 Clareview Reservoir

September 2024

| Parameter | | | | | | | | | Limits | |
|-------------------------------------|---------|--------|--------|-------|---------|---------|---------|-------|------------------------------------|---------------|
| | Monthly | | | | YTD | | | | *Approval or GCDWQ MAC, (AO or OG) | EPCOR |
| | Mean | Min | Max | Count | Mean | Min | Max | Count | | |
| Physical | | | | | | | | | | |
| Colour (TCU) | | | | 0 | 0.8 | 0.7 | 1.0 | 5 | (15) | 10 |
| Conductivity (uS/cm) | | | | 0 | 397 | 368 | 421 | 5 | | |
| Odour | | | | 0 | Inoff | Inoff | Inoff | 5 | | |
| pH (N/A) | 7.8 | 7.8 | 7.9 | 4 | 7.8 | 7.7 | 8.1 | 22 | (7.0 - 10.5) | 7.3 - 8.3 |
| Turbidity (NTU) | 0.21 | 0.12 | 0.43 | 4 | 0.15 | 0.10 | 0.43 | 39 | | 1 |
| Primary Inorganics (mg/L) ** | | | | | | | | | | |
| Antimony | | | | 0 | <0.0004 | <0.0002 | <0.0005 | 5 | 0.006 | |
| Arsenic | | | | 0 | <0.0002 | <0.0002 | 0.0003 | 5 | 0.01 | |
| Barium | | | | 0 | 0.063 | 0.056 | 0.068 | 5 | 2 | |
| Boron | | | | 0 | 0.010 | 0.008 | 0.013 | 5 | 2 | |
| Bromate Dissolved | | | | 0 | <0.005 | <0.003 | <0.005 | 6 | 0.01 | |
| Cadmium | | | | 0 | <0.0002 | <0.0002 | <0.0002 | 5 | 0.007 | |
| Chlorate Dissolved | | | | 0 | 0.205 | 0.172 | 0.229 | 6 | 1 | |
| Chlorite Dissolved | | | | 0 | <0.038 | <0.005 | <0.200 | 6 | 1 | |
| Chromium | | | | 0 | <0.0002 | <0.0002 | <0.0002 | 5 | 0.05 | |
| Copper | | | | 0 | <0.003 | <0.002 | <0.005 | 5 | 2 (1) | |
| Fluoride | | | | 0 | 0.68 | 0.65 | 0.71 | 5 | 1.5 | 0.6 - 0.8 |
| Lead | | | | 0 | <0.0002 | <0.0002 | <0.0002 | 5 | 0.005 | |
| Manganese | | | | 0 | <0.002 | <0.002 | <0.002 | 5 | 0.12 (0.02) | |
| Mercury | | | | 0 | <0.0002 | <0.0002 | <0.0002 | 5 | 0.001 | |
| Nitrate (as N) Dissolved | 0.020 | 0.020 | 0.020 | 4 | 0.047 | 0.020 | 0.180 | 23 | 10 | |
| Nitrite (as N) Dissolved | <0.010 | <0.010 | <0.010 | 4 | <0.009 | <0.005 | 0.010 | 23 | 1 | |
| Selenium | | | | 0 | 0.0003 | 0.0002 | 0.0003 | 5 | 0.05 | |
| Strontium | | | | 0 | 0.447 | 0.405 | 0.481 | 5 | 7.0 | |
| Total Chlorine | 1.69 | 1.60 | 1.78 | 4 | 1.84 | 1.60 | 2.09 | 39 | >0.5 and <3.0 | >1.0 and <2.4 |
| Uranium | | | | 0 | <0.0005 | <0.0005 | 0.0005 | 5 | 0.02 | |
| Primary Organics (ug/L) ** | | | | | | | | | | |
| Benzene | | | | 0 | <0.5 | <0.5 | <0.5 | 5 | 5 | |
| Carbon Tetrachloride | | | | 0 | <0.5 | <0.5 | <0.5 | 5 | 2 | |
| Chlorobenzene | | | | 0 | <0.50 | <0.50 | <0.50 | 5 | 80 (30) | |
| Dichlorobenzene (1,2) | | | | 0 | <0.50 | <0.50 | <0.50 | 5 | | |
| Dichlorobenzene (1,4) | | | | 0 | <0.5 | <0.5 | <0.5 | 5 | 5 (1) | |
| Dichloroethane (1,2) | | | | 0 | <0.5 | <0.5 | <0.5 | 5 | 5 | |
| Dichloroethylene (1,1) | | | | 0 | <0.5 | <0.5 | <0.5 | 5 | 14 | |
| Ethylbenzene | | | | 0 | <0.50 | <0.50 | <0.50 | 5 | 140 (1.6) | |
| Methylene Chloride | | | | 0 | <0.5 | <0.5 | <0.5 | 5 | 50 | |
| Tetrachloroethylene | | | | 0 | <0.5 | <0.5 | <0.5 | 5 | 10 | |
| Toluene | | | | 0 | <0.50 | <0.50 | <0.50 | 5 | 60 (24) | |
| Total Xylenes | | | | 0 | <1 | <1 | <1 | 5 | 90 | |
| Trichloroethylene | | | | 0 | <0.50 | <0.50 | <0.50 | 5 | 5 | |
| Vinyl Chloride | | | | 0 | <1.0 | <1.0 | <1.0 | 5 | 2 | |

2.2.8 Clareview Reservoir

September 2024

| Parameter | | | | | | | | | Limits | |
|--|---------|------|------|-------|---------|---------|---------|-------|------------------------------------|---------|
| | Monthly | | | | YTD | | | | *Approval or GCDWQ MAC, (AO or OG) | EPCOR |
| | Mean | Min | Max | Count | Mean | Min | Max | Count | | |
| Secondary Inorganics (mg/L) *** | | | | | | | | | | |
| Alkalinity Total | | | | 0 | 118 | 109 | 129 | 5 | | |
| Aluminum | | | | 0 | 0.065 | 0.023 | 0.173 | 5 | 2.9 | 0.1/0.2 |
| Ammonia as NH3 | 0.19 | 0.18 | 0.20 | 4 | 0.20 | 0.15 | 0.22 | 5 | 20 | |
| Beryllium | | | | 0 | <0.0002 | <0.0002 | <0.0002 | 5 | | |
| Bromide Dissolved | | | | 0 | <0.027 | <0.010 | <0.050 | 6 | | |
| Calcium | | | | 0 | 47.3 | 43.7 | 51.3 | 5 | | |
| Calcium Hardness | | | | 0 | 124 | 118 | 130 | 2 | | |
| Calcium Hardness Calculated | | | | 0 | 114 | 109 | 117 | 3 | | |
| Chloride Dissolved | | | | 0 | 6.2 | 5.5 | 7.0 | 6 | (250) | |
| Cobalt | | | | 0 | <0.0002 | <0.0002 | <0.0002 | 5 | | |
| Iron | | | | 0 | 0.014 | 0.012 | 0.018 | 5 | (0.3) | 0.3 |
| Lanthanum | | | | 0 | <0.0010 | <0.0010 | <0.0010 | 5 | | |
| Lithium | | | | 0 | 0.0037 | 0.0032 | 0.0043 | 5 | | |
| Magnesium | | | | 0 | 13.9 | 12.2 | 14.9 | 5 | | |
| Molybdenum | | | | 0 | 0.0008 | 0.0006 | 0.0010 | 5 | | |
| Nickel | | | | 0 | <0.0005 | <0.0005 | <0.0005 | 5 | | |
| Ortho_P | 0.84 | 0.74 | 0.90 | 8 | 0.87 | 0.74 | 0.92 | 34 | | |
| Phosphorus | | | | 0 | 0.95 | 0.91 | 0.96 | 5 | | |
| Potassium | | | | 0 | 0.86 | 0.70 | 1.10 | 5 | | |
| Silicon | | | | 0 | 1.95 | 1.61 | 2.13 | 5 | | |
| Silver | | | | 0 | <0.0002 | <0.0002 | <0.0002 | 5 | | |
| Sodium | | | | 0 | 11.3 | 7.2 | 16.2 | 5 | (200) | |
| Sulphate Dissolved | | | | 0 | 70.9 | 59.6 | 76.4 | 6 | (500) | |
| Thallium | | | | 0 | <0.0003 | <0.0002 | <0.0005 | 5 | | |
| Tin | | | | 0 | <0.0005 | <0.0005 | <0.0005 | 5 | | |
| Titanium | | | | 0 | <0.0005 | <0.0005 | <0.0005 | 5 | | |
| Total Hardness (mg/L CaCO3) | | | | 0 | 188 | 177 | 198 | 2 | | |
| Total Hardness Calculated | | | | 0 | 169 | 160 | 177 | 3 | | |
| Vanadium | | | | 0 | <0.0005 | <0.0005 | <0.0005 | 5 | | |
| Zinc | | | | 0 | <0.005 | <0.005 | <0.005 | 5 | (5.0) | |
| Zirconium | | | | 0 | <0.0010 | <0.0010 | <0.0010 | 5 | | |

2.2.8 Clareview Reservoir

September 2024

| Parameter | | | | | | | | | Limits | |
|--------------------------------------|---------|-----|-----|-------|-------|-------|-------|-------|------------------------------------|-------|
| | Monthly | | | | YTD | | | | *Approval or GCDWQ MAC, (AO or OG) | EPCOR |
| | Mean | Min | Max | Count | Mean | Min | Max | Count | | |
| Secondary Organics (ug/L) *** | | | | | | | | | | |
| Bromodichloromethane | | | | 0 | 1.6 | 0.9 | 2.2 | 5 | (15) | 16 |
| Bromoform | | | | 0 | <0.5 | <0.5 | <0.5 | 5 | | |
| Chloroform | | | | 0 | 23.4 | 13.9 | 34.8 | 5 | | |
| Dibromochloromethane | | | | 0 | <0.50 | <0.50 | <0.50 | 5 | | |
| Dichlorobenzene (1,3) | | | | 0 | <0.50 | <0.50 | <0.50 | 5 | | |
| Dichloroethylene, cis (1,2) | | | | 0 | <0.50 | <0.50 | <0.50 | 5 | | |
| Dichloroethylene, trans (1,2) | | | | 0 | <0.50 | <0.50 | <0.50 | 5 | | |
| Dichloropropane (1,2) | | | | 0 | <0.5 | <0.5 | <0.5 | 5 | | |
| Methyl t-Butyl Ether (MTBE) | | | | 0 | <0.5 | <0.5 | <0.5 | 5 | | |
| MIBK | | | | 0 | <1.0 | <1.0 | <1.0 | 5 | | |
| Styrene | | | | 0 | <0.50 | <0.50 | <0.50 | 5 | | |
| Tetrachloroethane (1,1,2,2) | | | | 0 | <0.5 | <0.5 | <0.5 | 5 | | |
| Total Organic Carbon | | | | 0 | 1.8 | 1.3 | 2.5 | 18 | | |
| Total Volatile Organics (NonTHM) | | | | 0 | 2.3 | <1.0 | 4.0 | 5 | | |
| Total Volatile Organics (Unknown) | | | | 0 | 1.0 | 1.0 | 1.0 | 1 | | |
| Trichlorobenzene (1,2,4) | | | | 0 | <0.5 | <0.5 | <0.5 | 5 | | |
| Trichloroethane (1,1,1) | | | | 0 | <0.5 | <0.5 | <0.5 | 5 | | |
| Xylene (1,2) | | | | 0 | <0.5 | <0.5 | <0.5 | 5 | | |
| Xylene (1,4) | | | | 0 | <0.5 | <0.5 | <0.5 | 5 | | |

TABLE EXPLANATIONS:

* Numbers with no brackets are Health Canada Guidelines for Canadian Drinking Water Quality (GCDWQ) Maximum Acceptable Concentrations (MAC) and/or a limit set out in the Alberta Environment and Parks (AEP) Operating Approval 638-04-01. Limits in brackets indicate Aesthetic Objectives or Operational Guidelines (OG) and are not Approval Limits. The EPCOR limits are internal limits set by EPCOR in the Operations Program.

** Primary parameters are those that have health-based limits (MACs) according the AEP Operating Approval 638-04-01

*** Secondary parameters do not have health-based limits but may have aesthetic or operational objectives

2.2.9 Discovery Park Reservoir

September 2024

| Parameter | | | | | | | | | Limits | |
|-------------------------------------|---------|--------|--------|-------|---------|---------|---------|-------|------------------------------------|---------------|
| | Monthly | | | | YTD | | | | *Approval or GCDWQ MAC, (AO or OG) | EPCOR |
| | Mean | Min | Max | Count | Mean | Min | Max | Count | | |
| Physical | | | | | | | | | | |
| Colour (TCU) | | | | 0 | 0.7 | <0.5 | 1.0 | 6 | (15) | 10 |
| Conductivity (uS/cm) | | | | 0 | 398 | 367 | 420 | 6 | | |
| Odour | | | | 0 | Inoff | Inoff | Inoff | 6 | | |
| pH (N/A) | 7.9 | 7.9 | 7.9 | 4 | 7.9 | 7.8 | 8.1 | 23 | (7.0 - 10.5) | 7.3 - 8.3 |
| Turbidity (NTU) | 0.13 | 0.10 | 0.17 | 4 | 0.14 | 0.06 | 1.09 | 41 | | 1 |
| Primary Inorganics (mg/L) ** | | | | | | | | | | |
| Antimony | | | | 0 | <0.0005 | <0.0002 | <0.0005 | 6 | 0.006 | |
| Arsenic | | | | 0 | <0.0002 | <0.0002 | 0.0003 | 6 | 0.01 | |
| Barium | | | | 0 | 0.062 | 0.054 | 0.069 | 6 | 2 | |
| Boron | | | | 0 | 0.010 | 0.008 | 0.012 | 6 | 2 | |
| Bromate Dissolved | | | | 0 | <0.005 | <0.003 | <0.005 | 6 | 0.01 | |
| Cadmium | | | | 0 | <0.0002 | <0.0002 | <0.0002 | 6 | 0.007 | |
| Chlorate Dissolved | | | | 0 | 0.120 | <0.090 | 0.163 | 6 | 1 | |
| Chlorite Dissolved | | | | 0 | <0.038 | <0.005 | <0.200 | 6 | 1 | |
| Chromium | | | | 0 | <0.0002 | <0.0002 | <0.0002 | 6 | 0.05 | |
| Copper | | | | 0 | <0.003 | <0.002 | <0.005 | 6 | 2 (1) | |
| Fluoride | | | | 0 | 0.69 | 0.65 | 0.77 | 6 | 1.5 | 0.6 - 0.8 |
| Lead | | | | 0 | <0.0002 | <0.0002 | <0.0002 | 6 | 0.005 | |
| Manganese | | | | 0 | <0.002 | <0.002 | <0.002 | 6 | 0.12 (0.02) | |
| Mercury | | | | 0 | <0.0002 | <0.0002 | <0.0002 | 6 | 0.001 | |
| Nitrate (as N) Dissolved | 0.035 | 0.030 | 0.040 | 4 | 0.047 | 0.020 | 0.190 | 24 | 10 | |
| Nitrite (as N) Dissolved | <0.010 | <0.010 | <0.010 | 4 | <0.009 | <0.005 | 0.010 | 24 | 1 | |
| Selenium | | | | 0 | 0.0003 | 0.0002 | 0.0003 | 6 | 0.05 | |
| Strontium | | | | 0 | 0.441 | 0.410 | 0.474 | 6 | 7.0 | |
| Total Chlorine | 1.13 | 1.03 | 1.30 | 4 | 1.37 | 1.03 | 1.68 | 41 | >0.5 and <3.0 | >1.0 and <2.4 |
| Uranium | | | | 0 | <0.0005 | <0.0005 | <0.0005 | 6 | 0.02 | |
| Primary Organics (ug/L) ** | | | | | | | | | | |
| Benzene | | | | 0 | <0.5 | <0.5 | <0.5 | 6 | 5 | |
| Carbon Tetrachloride | | | | 0 | <0.5 | <0.5 | <0.5 | 6 | 2 | |
| Chlorobenzene | | | | 0 | <0.50 | <0.50 | <0.50 | 6 | 80 (30) | |
| Dichlorobenzene (1,2) | | | | 0 | <0.50 | <0.50 | <0.50 | 6 | | |
| Dichlorobenzene (1,4) | | | | 0 | <0.5 | <0.5 | <0.5 | 6 | 5 (1) | |
| Dichloroethane (1,2) | | | | 0 | <0.5 | <0.5 | <0.5 | 6 | 5 | |
| Dichloroethylene (1,1) | | | | 0 | <0.5 | <0.5 | <0.5 | 6 | 14 | |
| Ethylbenzene | | | | 0 | <0.50 | <0.50 | <0.50 | 6 | 140 (1.6) | |
| Methylene Chloride | | | | 0 | <0.5 | <0.5 | <0.5 | 6 | 50 | |
| Tetrachloroethylene | | | | 0 | <0.5 | <0.5 | <0.5 | 6 | 10 | |
| Toluene | | | | 0 | <0.50 | <0.50 | <0.50 | 6 | 60 (24) | |
| Total Xylenes | | | | 0 | <1 | <1 | <1 | 6 | 90 | |
| Trichloroethylene | | | | 0 | <0.50 | <0.50 | <0.50 | 6 | 5 | |
| Vinyl Chloride | | | | 0 | <1.0 | <1.0 | <1.0 | 6 | 2 | |

2.2.9 Discovery Park Reservoir

September 2024

| Parameter | | | | | | | | | Limits | |
|--|---------|------|------|-------|---------|---------|---------|-------|--|---------|
| | Monthly | | | | YTD | | | | *Approval or GCDWQ MAC, (AO or OG) | EPCOR |
| | Mean | Min | Max | Count | Mean | Min | Max | Count | | |
| Secondary Inorganics (mg/L) *** | | | | | | | | | | |
| Alkalinity Total | | | | 0 | 118 | 111 | 126 | 6 | | |
| Aluminum | | | | 0 | 0.072 | 0.021 | 0.200 | 6 | 2.9 | 0.1/0.2 |
| Ammonia as NH3 | 0.27 | 0.24 | 0.31 | 4 | 0.22 | <0.05 | 0.31 | 22 | | |
| Beryllium | | | | 0 | <0.0002 | <0.0002 | <0.0002 | 6 | | |
| Bromide Dissolved | | | | 0 | <0.027 | <0.010 | <0.050 | 6 | | |
| Calcium | | | | 0 | 46.0 | 43.9 | 48.3 | 6 | | |
| Calcium Hardness | | | | 0 | 119 | 113 | 124 | 2 | | |
| Calcium Hardness Calculated | | | | 0 | 115 | 110 | 121 | 4 | | |
| Chloride Dissolved | | | | 0 | 7.1 | 6.0 | 8.4 | 6 | (250) | |
| Cobalt | | | | 0 | <0.0002 | <0.0002 | <0.0002 | 6 | | |
| Iron | | | | 0 | <0.005 | <0.005 | 0.005 | 6 | (0.3) | 0.3 |
| Lanthanum | | | | 0 | <0.0010 | <0.0010 | <0.0010 | 6 | | |
| Lithium | | | | 0 | 0.0033 | 0.0030 | 0.0041 | 6 | | |
| Magnesium | | | | 0 | 13.6 | 12.7 | 14.4 | 6 | | |
| Molybdenum | | | | 0 | 0.0008 | 0.0006 | 0.0009 | 6 | | |
| Nickel | | | | 0 | <0.0005 | <0.0005 | 0.0006 | 6 | | |
| Ortho_P | 0.90 | 0.86 | 0.92 | 8 | 0.91 | 0.86 | 1.04 | 34 | | |
| Phosphorus | | | | 0 | 0.98 | 0.91 | 1.02 | 6 | | |
| Potassium | | | | 0 | 0.87 | 0.80 | 1.00 | 6 | | |
| Silicon | | | | 0 | 1.92 | 1.57 | 2.21 | 6 | | |
| Silver | | | | 0 | <0.0002 | <0.0002 | <0.0002 | 6 | | |
| Sodium | | | | 0 | 13.3 | 7.4 | 19.4 | 6 | (200) | |
| Sulphate Dissolved | | | | 0 | 73.2 | 58.6 | 81.0 | 6 | (500) | |
| Thallium | | | | 0 | <0.0003 | <0.0002 | <0.0005 | 6 | | |
| Tin | | | | 0 | <0.0005 | <0.0005 | <0.0005 | 6 | | |
| Titanium | | | | 0 | <0.0005 | <0.0005 | <0.0005 | 6 | | |
| Total Hardness (mg/L CaCO3) | | | | 0 | 178 | 174 | 182 | 2 | | |
| Total Hardness Calculated | | | | 0 | 170 | 162 | 180 | 4 | | |
| Vanadium | | | | 0 | <0.0005 | <0.0005 | <0.0005 | 6 | | |
| Zinc | | | | 0 | <0.005 | <0.005 | <0.005 | 6 | (5.0) | |
| Zirconium | | | | 0 | <0.0010 | <0.0010 | <0.0010 | 6 | | |

2.2.9 Discovery Park Reservoir

September 2024

| Parameter | | | | | | | | | Limits | |
|--------------------------------------|---------|-----|-----|-------|-------|-------|-------|-------|------------------------------------|-------|
| | Monthly | | | | YTD | | | | *Approval or GCDWQ MAC, (AO or OG) | EPCOR |
| | Mean | Min | Max | Count | Mean | Min | Max | Count | | |
| Secondary Organics (ug/L) *** | | | | | | | | | | |
| Bromodichloromethane | | | | 0 | 1.3 | 0.7 | 1.8 | 6 | (15) | 16 |
| Bromoform | | | | 0 | <0.5 | <0.5 | <0.5 | 6 | | |
| Chloroform | | | | 0 | 23.5 | 11.7 | 37.8 | 6 | | |
| Dibromochloromethane | | | | 0 | <0.50 | <0.50 | <0.50 | 6 | | |
| Dichlorobenzene (1,3) | | | | 0 | <0.50 | <0.50 | <0.50 | 6 | | |
| Dichloroethylene, cis (1,2) | | | | 0 | <0.50 | <0.50 | <0.50 | 6 | | |
| Dichloroethylene, trans (1,2) | | | | 0 | <0.50 | <0.50 | <0.50 | 6 | | |
| Dichloropropane (1,2) | | | | 0 | <0.5 | <0.5 | <0.5 | 6 | | |
| Methyl t-Butyl Ether (MTBE) | | | | 0 | <0.5 | <0.5 | <0.5 | 6 | | |
| MIBK | | | | 0 | <1.0 | <1.0 | <1.0 | 6 | | |
| Styrene | | | | 0 | <0.50 | <0.50 | <0.50 | 6 | | |
| Tetrachloroethane (1,1,2,2) | | | | 0 | <0.5 | <0.5 | <0.5 | 6 | | |
| Total Organic Carbon | | | | 0 | 1.7 | 1.2 | 2.4 | 19 | | |
| Total Volatile Organics (NonTHM) | | | | 0 | 2.4 | <1.0 | 3.8 | 6 | | |
| Total Volatile Organics (Unknown) | | | | 0 | 1.2 | 1.2 | 1.2 | 1 | | |
| Trichlorobenzene (1,2,4) | | | | 0 | <0.5 | <0.5 | <0.5 | 6 | | |
| Trichloroethane (1,1,1) | | | | 0 | <0.5 | <0.5 | <0.5 | 6 | | |
| Xylene (1,2) | | | | 0 | <0.5 | <0.5 | <0.5 | 6 | | |
| Xylene (1,4) | | | | 0 | <0.5 | <0.5 | <0.5 | 6 | | |

TABLE EXPLANATIONS:

* Numbers with no brackets are Health Canada Guidelines for Canadian Drinking Water Quality (GCDWQ) Maximum Acceptable Concentrations (MAC) and/or a limit set out in the Alberta Environment and Parks (AEP) Operating Approval 638-04-01. Limits in brackets indicate Aesthetic Objectives or Operational Guidelines (OG) and are not Approval Limits. The EPCOR limits are internal limits set by EPCOR in the Operations Program.

** Primary parameters are those that have health-based limits (MACs) according the AEP Operating Approval 638-04-01

*** Secondary parameters do not have health-based limits but may have aesthetic or operational objectives

Footnote: The Discovery Park reservoir was officially included as part of EWSI's Approval to Operate, Approval 638-04-00, starting on January 19, 2021. From January 1 - 18, 2021 the Discovery Park Waterworks System operated under the Environmental Protection and Enhancement Act (EPEA) Registration no. 462525-00-00. This Registration was issued for Discovery Park Waterworks System to follow the Code of Practice for a Waterworks System Consisting Solely of a Water Distribution System.

2.2.10 Kaskitayo Reservoir

September 2024

| Parameter | | | | | | | | | Limits | |
|-------------------------------------|---------|--------|--------|-------|---------|---------|---------|-------|------------------------------------|---------------|
| | Monthly | | | | YTD | | | | *Approval or GCDWQ MAC, (AO or OG) | EPCOR |
| | Mean | Min | Max | Count | Mean | Min | Max | Count | | |
| Physical | | | | | | | | | | |
| Colour (TCU) | | | | 0 | 1.1 | 0.5 | 1.6 | 4 | (15) | 10 |
| Conductivity (uS/cm) | | | | 0 | 405 | 370 | 426 | 4 | | |
| Odour | | | | 0 | Inoff | Inoff | Inoff | 4 | | |
| pH (N/A) | 7.7 | 7.7 | 7.7 | 4 | 7.7 | 7.6 | 7.9 | 22 | (7.0 - 10.5) | 7.3 - 8.3 |
| Turbidity (NTU) | 0.09 | 0.04 | 0.12 | 4 | 0.09 | 0.04 | 0.19 | 39 | | 1 |
| Primary Inorganics (mg/L) ** | | | | | | | | | | |
| Antimony | | | | 0 | <0.0004 | <0.0002 | <0.0005 | 4 | 0.006 | |
| Arsenic | | | | 0 | <0.0002 | <0.0002 | 0.0002 | 4 | 0.01 | |
| Barium | | | | 0 | 0.063 | 0.056 | 0.069 | 4 | 2 | |
| Boron | | | | 0 | 0.009 | 0.008 | 0.010 | 4 | 2 | |
| Bromate Dissolved | | | | 0 | <0.005 | <0.003 | <0.005 | 4 | 0.01 | |
| Cadmium | | | | 0 | <0.0002 | <0.0002 | <0.0002 | 4 | 0.007 | |
| Chlorate Dissolved | | | | 0 | <0.102 | <0.080 | 0.126 | 4 | 1 | |
| Chlorite Dissolved | | | | 0 | <0.054 | <0.005 | <0.200 | 4 | 1 | |
| Chromium | | | | 0 | <0.0002 | <0.0002 | <0.0002 | 4 | 0.05 | |
| Copper | | | | 0 | <0.003 | <0.002 | <0.005 | 4 | 2 (1) | |
| Fluoride | | | | 0 | 0.69 | 0.65 | 0.74 | 4 | 1.5 | 0.6 - 0.8 |
| Lead | | | | 0 | <0.0002 | <0.0002 | <0.0002 | 4 | 0.005 | |
| Manganese | | | | 0 | <0.002 | <0.002 | <0.002 | 4 | 0.12 (0.02) | |
| Mercury | | | | 0 | <0.0002 | <0.0002 | <0.0002 | 4 | 0.001 | |
| Nitrate (as N) Dissolved | 0.018 | 0.010 | 0.020 | 4 | 0.039 | <0.010 | 0.170 | 23 | 10 | |
| Nitrite (as N) Dissolved | <0.010 | <0.010 | <0.010 | 4 | <0.009 | <0.005 | 0.010 | 23 | 1 | |
| Selenium | | | | 0 | 0.0003 | 0.0002 | 0.0003 | 4 | 0.05 | |
| Strontium | | | | 0 | 0.442 | 0.385 | 0.483 | 4 | 7.0 | |
| Total Chlorine | 1.85 | 1.52 | 1.97 | 4 | 1.97 | 1.52 | 2.23 | 39 | >0.5 and <3.0 | >1.0 and <2.4 |
| Uranium | | | | 0 | <0.0005 | <0.0005 | 0.0005 | 4 | 0.02 | |
| Primary Organics (ug/L) ** | | | | | | | | | | |
| Benzene | | | | 0 | <0.5 | <0.5 | <0.5 | 4 | 5 | |
| Carbon Tetrachloride | | | | 0 | <0.5 | <0.5 | <0.5 | 4 | 2 | |
| Chlorobenzene | | | | 0 | <0.50 | <0.50 | <0.50 | 4 | 80 (30) | |
| Dichlorobenzene (1,2) | | | | 0 | <0.50 | <0.50 | <0.50 | 4 | | |
| Dichlorobenzene (1,4) | | | | 0 | <0.5 | <0.5 | <0.5 | 4 | 5 (1) | |
| Dichloroethane (1,2) | | | | 0 | <0.5 | <0.5 | <0.5 | 4 | 5 | |
| Dichloroethylene (1,1) | | | | 0 | <0.5 | <0.5 | <0.5 | 4 | 14 | |
| Ethylbenzene | | | | 0 | <0.50 | <0.50 | <0.50 | 4 | 140 (1.6) | |
| Methylene Chloride | | | | 0 | <0.5 | <0.5 | <0.5 | 4 | 50 | |
| Tetrachloroethylene | | | | 0 | <0.5 | <0.5 | <0.5 | 4 | 10 | |
| Toluene | | | | 0 | <0.50 | <0.50 | <0.50 | 4 | 60 (24) | |
| Total Xylenes | | | | 0 | <1 | <1 | <1 | 4 | 90 | |
| Trichloroethylene | | | | 0 | <0.50 | <0.50 | <0.50 | 4 | 5 | |
| Vinyl Chloride | | | | 0 | <1.0 | <1.0 | <1.0 | 4 | 2 | |

2.2.10 Kaskitayo Reservoir

September 2024

| Parameter | | | | | | | | | Limits | |
|--|---------|------|------|-------|---------|---------|---------|-------|------------------------------------|---------|
| | Monthly | | | | YTD | | | | *Approval or GCDWQ MAC, (AO or OG) | EPCOR |
| | Mean | Min | Max | Count | Mean | Min | Max | Count | | |
| Secondary Inorganics (mg/L) *** | | | | | | | | | | |
| Alkalinity Total | | | | 0 | 123 | 118 | 128 | 4 | | |
| Aluminum | | | | 0 | 0.045 | 0.022 | 0.097 | 4 | 2.9 | 0.1/0.2 |
| Ammonia as NH3 | 0.19 | 0.16 | 0.20 | 4 | 0.17 | 0.11 | 0.20 | 4 | 21 | |
| Beryllium | | | | 0 | <0.0002 | <0.0002 | <0.0002 | 4 | 4 | |
| Bromide Dissolved | | | | 0 | <0.025 | <0.010 | <0.050 | 4 | | |
| Calcium | | | | 0 | 47.3 | 43.3 | 51.2 | 4 | | |
| Calcium Hardness | | | | 0 | 124 | 118 | 129 | 2 | | |
| Calcium Hardness Calculated | | | | 0 | 113 | 108 | 118 | 2 | | |
| Chloride Dissolved | | | | 0 | 7.2 | 6.0 | 8.2 | 4 | (250) | |
| Cobalt | | | | 0 | <0.0002 | <0.0002 | <0.0002 | 4 | | |
| Iron | | | | 0 | <0.005 | <0.005 | <0.005 | 4 | (0.3) | 0.3 |
| Lanthanum | | | | 0 | <0.0010 | <0.0010 | <0.0010 | 4 | | |
| Lithium | | | | 0 | 0.0032 | 0.0029 | 0.0036 | 4 | | |
| Magnesium | | | | 0 | 13.7 | 11.8 | 15.1 | 4 | | |
| Molybdenum | | | | 0 | 0.0008 | 0.0006 | 0.0009 | 4 | | |
| Nickel | | | | 0 | <0.0005 | <0.0005 | <0.0005 | 4 | | |
| Ortho_P | 0.90 | 0.86 | 0.92 | 8 | 0.91 | 0.82 | 1.02 | 34 | | |
| Phosphorus | | | | 0 | 0.94 | 0.87 | 0.98 | 4 | | |
| Potassium | | | | 0 | 0.88 | 0.70 | 1.10 | 4 | | |
| Silicon | | | | 0 | 2.04 | 1.93 | 2.16 | 4 | | |
| Silver | | | | 0 | <0.0002 | <0.0002 | <0.0002 | 4 | | |
| Sodium | | | | 0 | 14.2 | 7.4 | 22.0 | 4 | (200) | |
| Sulphate Dissolved | | | | 0 | 73.7 | 60.7 | 79.6 | 4 | (500) | |
| Thallium | | | | 0 | <0.0003 | <0.0002 | <0.0005 | 4 | | |
| Tin | | | | 0 | <0.0005 | <0.0005 | <0.0005 | 4 | | |
| Titanium | | | | 0 | <0.0005 | <0.0005 | <0.0005 | 4 | | |
| Total Hardness (mg/L CaCO3) | | | | 0 | 184 | 178 | 190 | 2 | | |
| Total Hardness Calculated | | | | 0 | 166 | 157 | 175 | 2 | | |
| Vanadium | | | | 0 | <0.0005 | <0.0005 | <0.0005 | 4 | | |
| Zinc | | | | 0 | <0.005 | <0.005 | <0.005 | 4 | (5.0) | |
| Zirconium | | | | 0 | <0.0010 | <0.0010 | <0.0010 | 4 | | |

2.2.10 Kaskitayo Reservoir

September 2024

| Parameter | | | | | | | | | Limits | |
|--------------------------------------|---------|-----|-----|-------|-------|-------|-------|-------|------------------------------------|-------|
| | Monthly | | | | YTD | | | | *Approval or GCDWQ MAC, (AO or OG) | EPCOR |
| | Mean | Min | Max | Count | Mean | Min | Max | Count | | |
| Secondary Organics (ug/L) *** | | | | | | | | | | |
| Bromodichloromethane | | | | 0 | 1.2 | 0.7 | 1.8 | 4 | (15) | 16 |
| Bromoform | | | | 0 | <0.5 | <0.5 | <0.5 | 4 | | |
| Chloroform | | | | 0 | 20.8 | 9.8 | 31.6 | 4 | | |
| Dibromochloromethane | | | | 0 | <0.50 | <0.50 | <0.50 | 4 | | |
| Dichlorobenzene (1,3) | | | | 0 | <0.50 | <0.50 | <0.50 | 4 | | |
| Dichloroethylene, cis (1,2) | | | | 0 | <0.50 | <0.50 | <0.50 | 4 | | |
| Dichloroethylene, trans (1,2) | | | | 0 | <0.50 | <0.50 | <0.50 | 4 | | |
| Dichloropropane (1,2) | | | | 0 | <0.5 | <0.5 | <0.5 | 4 | | |
| Methyl t-Butyl Ether (MTBE) | | | | 0 | <0.5 | <0.5 | <0.5 | 4 | | |
| MIBK | | | | 0 | <1.0 | <1.0 | <1.0 | 4 | | |
| Styrene | | | | 0 | <0.50 | <0.50 | <0.50 | 4 | | |
| Tetrachloroethane (1,1,2,2) | | | | 0 | <0.5 | <0.5 | <0.5 | 4 | | |
| Total Organic Carbon | | | | 0 | 1.8 | 1.2 | 2.6 | 18 | | |
| Total Volatile Organics (NonTHM) | | | | 0 | 2.1 | <1.0 | 4.1 | 4 | | |
| Total Volatile Organics (Unknown) | | | | 0 | 1.1 | 1.1 | 1.1 | 1 | | |
| Trichlorobenzene (1,2,4) | | | | 0 | <0.5 | <0.5 | <0.5 | 4 | | |
| Trichloroethane (1,1,1) | | | | 0 | <0.5 | <0.5 | <0.5 | 4 | | |
| Xylene (1,2) | | | | 0 | <0.5 | <0.5 | <0.5 | 4 | | |
| Xylene (1,4) | | | | 0 | <0.5 | <0.5 | <0.5 | 4 | | |

TABLE EXPLANATIONS:

* Numbers with no brackets are Health Canada Guidelines for Canadian Drinking Water Quality (GCDWQ) Maximum Acceptable Concentrations (MAC) and/or a limit set out in the Alberta Environment and Parks (AEP) Operating Approval 638-04-01. Limits in brackets indicate Aesthetic Objectives or Operational Guidelines (OG) and are not Approval Limits. The EPCOR limits are internal limits set by EPCOR in the Operations Program.

** Primary parameters are those that have health-based limits (MACs) according to the AEP Operating Approval 638-04-01

*** Secondary parameters do not have health-based limits but may have aesthetic or operational objectives

2.2.11 Londonderry Reservoir

September 2024

| Parameter | | | | | | | | | Limits | |
|-------------------------------------|---------|---------|---------|-------|---------|---------|---------|-------|------------------------------------|---------------|
| | Monthly | | | | YTD | | | | *Approval or GCDWQ MAC, (AO or OG) | EPCOR |
| | Mean | Min | Max | Count | Mean | Min | Max | Count | | |
| Physical | | | | | | | | | | |
| Colour (TCU) | 1.1 | 1.1 | 1.1 | 1 | 1.1 | 0.7 | 1.2 | 4 | (15) | 10 |
| Conductivity (uS/cm) | 397 | 397 | 397 | 1 | 396 | 390 | 405 | 4 | | |
| Odour | Inoff | Inoff | Inoff | 1 | Inoff | Inoff | Inoff | 4 | | |
| pH (N/A) | 7.8 | 7.8 | 7.8 | 4 | 7.8 | 7.7 | 8.1 | 21 | (7.0 - 10.5) | 7.3 - 8.3 |
| Turbidity (NTU) | 0.10 | 0.09 | 0.12 | 4 | 0.13 | 0.06 | 0.52 | 39 | | 1 |
| Primary Inorganics (mg/L) ** | | | | | | | | | | |
| Antimony | <0.0005 | <0.0005 | <0.0005 | 1 | <0.0004 | <0.0002 | <0.0005 | 4 | 0.006 | |
| Arsenic | 0.0002 | 0.0002 | 0.0002 | 1 | <0.0002 | <0.0002 | 0.0002 | 4 | 0.01 | |
| Barium | 0.066 | 0.066 | 0.066 | 1 | 0.061 | 0.052 | 0.068 | 4 | 2 | |
| Boron | 0.011 | 0.011 | 0.011 | 1 | 0.011 | 0.010 | 0.012 | 4 | 2 | |
| Bromate Dissolved | <0.005 | <0.005 | <0.005 | 1 | <0.005 | <0.005 | <0.005 | 5 | 0.01 | |
| Cadmium | <0.0002 | <0.0002 | <0.0002 | 1 | <0.0002 | <0.0002 | <0.0002 | 4 | 0.007 | |
| Chlorate Dissolved | 0.219 | 0.219 | 0.219 | 1 | 0.220 | 0.188 | 0.238 | 5 | 1 | |
| Chlorite Dissolved | <0.005 | <0.005 | <0.005 | 1 | <0.005 | <0.005 | <0.005 | 5 | 1 | |
| Chromium | <0.0002 | <0.0002 | <0.0002 | 1 | <0.0002 | <0.0002 | <0.0002 | 4 | 0.05 | |
| Copper | <0.002 | <0.002 | <0.002 | 1 | <0.003 | <0.002 | <0.005 | 4 | 2 (1) | |
| Fluoride | 0.68 | 0.68 | 0.68 | 1 | 0.69 | 0.66 | 0.73 | 4 | 1.5 | 0.6 - 0.8 |
| Lead | <0.0002 | <0.0002 | <0.0002 | 1 | <0.0002 | <0.0002 | <0.0002 | 4 | 0.005 | |
| Manganese | <0.002 | <0.002 | <0.002 | 1 | <0.002 | <0.002 | <0.002 | 4 | 0.12 (0.02) | |
| Mercury | <0.0002 | <0.0002 | <0.0002 | 1 | <0.0002 | <0.0002 | <0.0002 | 4 | 0.001 | |
| Nitrate (as N) Dissolved | 0.015 | 0.010 | 0.020 | 4 | 0.046 | 0.010 | 0.180 | 23 | 10 | |
| Nitrite (as N) Dissolved | <0.010 | <0.010 | <0.010 | 4 | <0.009 | <0.005 | 0.010 | 23 | 1 | |
| Selenium | 0.0002 | 0.0002 | 0.0002 | 1 | 0.0003 | 0.0002 | 0.0003 | 4 | 0.05 | |
| Strontium | 0.427 | 0.427 | 0.427 | 1 | 0.434 | 0.412 | 0.459 | 4 | 7.0 | |
| Total Chlorine | 1.74 | 1.63 | 1.83 | 4 | 1.90 | 1.63 | 2.25 | 39 | >0.5 and <3.0 | >1.0 and <2.4 |
| Uranium | <0.0005 | <0.0005 | <0.0005 | 1 | <0.0005 | <0.0005 | <0.0005 | 4 | 0.02 | |
| Primary Organics (ug/L) ** | | | | | | | | | | |
| Benzene | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 4 | 5 | |
| Carbon Tetrachloride | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 4 | 2 | |
| Chlorobenzene | <0.50 | <0.50 | <0.50 | 1 | <0.63 | <0.50 | 1.00 | 4 | 80 (30) | |
| Dichlorobenzene (1,2) | <0.50 | <0.50 | <0.50 | 1 | <0.63 | <0.50 | 1.00 | 4 | | |
| Dichlorobenzene (1,4) | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 4 | 5 (1) | |
| Dichloroethane (1,2) | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 4 | 5 | |
| Dichloroethylene (1,1) | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 4 | 14 | |
| Ethylbenzene | <0.50 | <0.50 | <0.50 | 1 | <0.63 | <0.50 | 1.00 | 4 | 140 (1.6) | |
| Methylene Chloride | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 4 | 50 | |
| Tetrachloroethylene | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 4 | 10 | |
| Toluene | <0.50 | <0.50 | <0.50 | 1 | <0.63 | <0.50 | 1.00 | 4 | 60 (24) | |
| Total Xylenes | <1 | <1 | <1 | 1 | <1 | <1 | <1 | 4 | 90 | |
| Trichloroethylene | <0.50 | <0.50 | <0.50 | 1 | <0.63 | <0.50 | 1.00 | 4 | 5 | |
| Vinyl Chloride | <1.0 | <1.0 | <1.0 | 1 | <1.3 | <1.0 | 2.0 | 4 | 2 | |

2.2.11 Londonderry Reservoir

September 2024

| Parameter | | | | | | | | | Limits | |
|--|---------|---------|---------|-------|---------|---------|---------|-------|------------------------------------|---------|
| | Monthly | | | | YTD | | | | *Approval or GCDWQ MAC, (AO or OG) | EPCOR |
| | Mean | Min | Max | Count | Mean | Min | Max | Count | | |
| Secondary Inorganics (mg/L) *** | | | | | | | | | | |
| Alkalinity Total | 113 | 113 | 113 | 1 | 115 | 110 | 121 | 4 | | |
| Aluminum | 0.070 | 0.070 | 0.070 | 1 | 0.048 | 0.018 | 0.082 | 4 | 2.9 | 0.1/0.2 |
| Ammonia as NH3 | 0.18 | 0.18 | 0.19 | 4 | 0.19 | 0.14 | 0.22 | 20 | | |
| Beryllium | <0.0002 | <0.0002 | <0.0002 | 1 | <0.0002 | <0.0002 | <0.0002 | 4 | | |
| Bromide Dissolved | <0.030 | <0.030 | <0.030 | 1 | <0.022 | <0.010 | <0.030 | | 5 | |
| Calcium | 46.4 | 46.4 | 46.4 | 1 | 47.4 | 44.6 | 49.5 | | 4 | |
| Calcium Hardness | | | | 0 | 122 | 122 | 122 | 1 | | |
| Calcium Hardness Calculated | 116 | 116 | 116 | 1 | 117 | 111 | 124 | 3 | | |
| Chloride Dissolved | 6.2 | 6.2 | 6.2 | 1 | 6.4 | 5.7 | 7.2 | 5 | (250) | |
| Cobalt | <0.0002 | <0.0002 | <0.0002 | 1 | <0.0002 | <0.0002 | <0.0002 | 4 | | |
| Iron | <0.005 | <0.005 | <0.005 | 1 | <0.005 | <0.005 | <0.005 | 4 | (0.3) | 0.3 |
| Lanthanum | <0.0010 | <0.0010 | <0.0010 | 1 | <0.0010 | <0.0010 | <0.0010 | 4 | | |
| Lithium | 0.0043 | 0.0043 | 0.0043 | 1 | 0.0040 | 0.0033 | 0.0043 | 4 | | |
| Magnesium | 13.5 | 13.5 | 13.5 | 1 | 13.8 | 13.3 | 14.3 | 4 | | |
| Molybdenum | 0.0007 | 0.0007 | 0.0007 | 1 | 0.0008 | 0.0007 | 0.0010 | | 4 | |
| Nickel | <0.0005 | <0.0005 | <0.0005 | 1 | <0.0005 | <0.0005 | <0.0005 | | 4 | |
| Ortho_P | 0.88 | 0.86 | 0.94 | 8 | 0.89 | 0.86 | 0.94 | 34 | | |
| Phosphorus | 0.97 | 0.97 | 0.97 | 1 | 0.97 | 0.89 | 1.03 | 4 | | |
| Potassium | 0.80 | 0.80 | 0.80 | 1 | 0.95 | 0.80 | 1.40 | 4 | | |
| Silicon | 2.21 | 2.21 | 2.21 | 1 | 2.17 | 1.83 | 2.35 | 4 | | |
| Silver | <0.0002 | <0.0002 | <0.0002 | 1 | <0.0002 | <0.0002 | <0.0002 | 4 | | |
| Sodium | 11.9 | 11.9 | 11.9 | 1 | 11.2 | 9.8 | 13.0 | 4 | (200) | |
| Sulphate Dissolved | 74.6 | 74.6 | 74.6 | 1 | 73.6 | 72.9 | 74.6 | 5 | (500) | |
| Thallium | <0.0002 | <0.0002 | <0.0002 | 1 | <0.0003 | <0.0002 | <0.0005 | 4 | | |
| Tin | <0.0005 | <0.0005 | <0.0005 | 1 | <0.0005 | <0.0005 | <0.0005 | 4 | | |
| Titanium | <0.0005 | <0.0005 | <0.0005 | 1 | <0.0005 | <0.0005 | <0.0005 | 4 | | |
| Total Hardness (mg/L CaCO3) | | | | 0 | 184 | 184 | 184 | 1 | | |
| Total Hardness Calculated | 171 | 171 | 171 | 1 | 173 | 166 | 182 | | 3 | |
| Vanadium | <0.0005 | <0.0005 | <0.0005 | 1 | <0.0005 | <0.0005 | <0.0005 | | 4 | |
| Zinc | <0.005 | <0.005 | <0.005 | 1 | <0.005 | <0.005 | <0.005 | 4 | (5.0) | |
| Zirconium | <0.0010 | <0.0010 | <0.0010 | 1 | <0.0010 | <0.0010 | <0.0010 | 4 | | |

2.2.11 Londonderry Reservoir

September 2024

| Parameter | | | | | | | | | Limits | |
|--------------------------------------|---------|-------|-------|-------|-------|-------|------|-------|------------------------------------|-------|
| | Monthly | | | | YTD | | | | *Approval or GCDWQ MAC, (AO or OG) | EPCOR |
| | Mean | Min | Max | Count | Mean | Min | Max | Count | | |
| Secondary Organics (ug/L) *** | | | | | | | | | | |
| Bromodichloromethane | 1.3 | 1.3 | 1.3 | 1 | 1.2 | 1.0 | 1.4 | 4 | (15) | 16 |
| Bromoform | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 4 | | |
| Chloroform | 34.3 | 34.3 | 34.3 | 1 | 22.9 | 8.5 | 34.3 | 4 | | |
| Dibromochloromethane | <0.50 | <0.50 | <0.50 | 1 | <0.63 | <0.50 | 1.00 | 4 | | |
| Dichlorobenzene (1,3) | <0.50 | <0.50 | <0.50 | 1 | <0.63 | <0.50 | 1.00 | 4 | | |
| Dichloroethylene, cis (1,2) | <0.50 | <0.50 | <0.50 | 1 | <0.63 | <0.50 | 1.00 | 4 | | |
| Dichloroethylene, trans (1,2) | <0.50 | <0.50 | <0.50 | 1 | <0.63 | <0.50 | 1.00 | 4 | | |
| Dichloropropane (1,2) | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 4 | | |
| Methyl t-Butyl Ether (MTBE) | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 4 | | |
| MIBK | <1.0 | <1.0 | <1.0 | 1 | <1.3 | <1.0 | 2.0 | 4 | | |
| Styrene | <0.50 | <0.50 | <0.50 | 1 | <0.63 | <0.50 | 1.00 | 4 | | |
| Tetrachloroethane (1,1,2,2) | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 4 | | |
| Total Organic Carbon | 1.7 | 1.7 | 1.7 | 1 | 1.7 | 1.0 | 2.5 | 18 | | |
| Total Volatile Organics (NonTHM) | 2.4 | 2.4 | 2.4 | 1 | <1.4 | <1.0 | 2.4 | 4 | | |
| Trichlorobenzene (1,2,4) | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 4 | | |
| Trichloroethane (1,1,1) | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 4 | | |
| Xylene (1,2) | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 4 | | |
| Xylene (1,4) | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 4 | | |

TABLE EXPLANATIONS:

- * Numbers with no brackets are Health Canada Guidelines for Canadian Drinking Water Quality (GCDWQ) Maximum Acceptable Concentrations (MAC) and/or a limit set out in the Alberta Environment and Parks (AEP) Operating Approval 638-04-01. Limits in brackets indicate Aesthetic Objectives or Operational Guidelines (OG) and are not Approval Limits. The EPCOR limits are internal limits set by EPCOR in the Operations Program.
- ** Primary parameters are those that have health-based limits (MACs) according to the AEP Operating Approval 638-04-01.
- *** Secondary parameters do not have health-based limits but may have aesthetic or operational objectives.

2.2.12 Millwoods Reservoir

September 2024

| Parameter | | | | | | | | | Limits | |
|-------------------------------------|---------|---------|---------|-------|---------|---------|---------|-------|------------------------------------|---------------|
| | Monthly | | | | YTD | | | | *Approval or GCDWQ MAC, (AO or OG) | EPCOR |
| | Mean | Min | Max | Count | Mean | Min | Max | Count | | |
| Physical | | | | | | | | | | |
| Colour (TCU) | 0.8 | 0.8 | 0.8 | 1 | 0.9 | <0.5 | 1.2 | 5 | (15) | 10 |
| Conductivity (uS/cm) | 421 | 421 | 421 | 1 | 403 | 384 | 421 | 5 | | |
| Odour | Inoff | Inoff | Inoff | 1 | Inoff | Inoff | Inoff | 5 | | |
| pH (N/A) | 7.7 | 7.7 | 7.8 | 4 | 7.8 | 7.7 | 8.0 | 21 | (7.0 - 10.5) | 7.3 - 8.3 |
| Turbidity (NTU) | 0.11 | 0.09 | 0.12 | 4 | 0.10 | 0.06 | 0.20 | 39 | | 1 |
| Primary Inorganics (mg/L) ** | | | | | | | | | | |
| Antimony | <0.0005 | <0.0005 | <0.0005 | 1 | <0.0004 | <0.0002 | <0.0005 | 5 | 0.006 | |
| Arsenic | 0.0002 | 0.0002 | 0.0002 | 1 | <0.0002 | <0.0002 | 0.0003 | 5 | 0.01 | |
| Barium | 0.069 | 0.069 | 0.069 | 1 | 0.062 | 0.051 | 0.071 | 5 | 2 | |
| Boron | 0.011 | 0.011 | 0.011 | 1 | 0.011 | 0.009 | 0.013 | 5 | 2 | |
| Bromate Dissolved | <0.005 | <0.005 | <0.005 | 1 | <0.005 | <0.005 | <0.005 | 5 | 0.01 | |
| Cadmium | <0.0002 | <0.0002 | <0.0002 | 1 | <0.0002 | <0.0002 | <0.0002 | 5 | 0.007 | |
| Chlorate Dissolved | 0.168 | 0.168 | 0.168 | 1 | 0.138 | 0.090 | 0.171 | 5 | 1 | |
| Chlorite Dissolved | <0.005 | <0.005 | <0.005 | 1 | <0.005 | <0.005 | <0.005 | 5 | 1 | |
| Chromium | <0.0002 | <0.0002 | <0.0002 | 1 | <0.0002 | <0.0002 | <0.0002 | 5 | 0.05 | |
| Copper | <0.002 | <0.002 | <0.002 | 1 | <0.003 | <0.002 | <0.005 | 5 | 2 (1) | |
| Fluoride | 0.65 | 0.65 | 0.65 | 1 | 0.68 | 0.65 | 0.72 | 5 | 1.5 | 0.6 - 0.8 |
| Lead | <0.0002 | <0.0002 | <0.0002 | 1 | <0.0002 | <0.0002 | <0.0002 | 5 | 0.005 | |
| Manganese | <0.002 | <0.002 | <0.002 | 1 | <0.002 | <0.002 | <0.002 | 5 | 0.12 (0.02) | |
| Mercury | <0.0002 | <0.0002 | <0.0002 | 1 | <0.0002 | <0.0002 | <0.0002 | 5 | 0.001 | |
| Nitrate (as N) Dissolved | 0.015 | 0.010 | 0.020 | 4 | 0.038 | 0.010 | 0.160 | 23 | 10 | |
| Nitrite (as N) Dissolved | <0.010 | <0.010 | <0.010 | 4 | <0.009 | <0.005 | 0.010 | 23 | 1 | |
| Selenium | 0.0003 | 0.0003 | 0.0003 | 1 | 0.0003 | 0.0002 | 0.0004 | 5 | 0.05 | |
| Strontium | 0.430 | 0.430 | 0.430 | 1 | 0.447 | 0.422 | 0.481 | 5 | 7.0 | |
| Total Chlorine | 1.96 | 1.89 | 2.05 | 4 | 1.99 | 1.79 | 2.21 | 39 | >0.5 and <3.0 | >1.0 and <2.4 |
| Uranium | <0.0005 | <0.0005 | <0.0005 | 1 | <0.0005 | <0.0005 | <0.0005 | 5 | 0.02 | |
| Primary Organics (ug/L) ** | | | | | | | | | | |
| Benzene | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 6 | 5 | |
| Carbon Tetrachloride | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 6 | 2 | |
| Chlorobenzene | <0.50 | <0.50 | <0.50 | 1 | <0.58 | <0.50 | 1.00 | 6 | 80 (30) | |
| Dichlorobenzene (1,2) | <0.50 | <0.50 | <0.50 | 1 | <0.58 | <0.50 | 1.00 | 6 | | |
| Dichlorobenzene (1,4) | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 6 | 5 (1) | |
| Dichloroethane (1,2) | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 6 | 5 | |
| Dichloroethylene (1,1) | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 6 | 14 | |
| Ethylbenzene | <0.50 | <0.50 | <0.50 | 1 | <0.58 | <0.50 | 1.00 | 6 | 140 (1.6) | |
| Methylene Chloride | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 6 | 50 | |
| Tetrachloroethylene | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 6 | 10 | |
| Toluene | <0.50 | <0.50 | <0.50 | 1 | <0.58 | <0.50 | 1.00 | 6 | 60 (24) | |
| Total Xylenes | <1 | <1 | <1 | 1 | <1 | <1 | <1 | 6 | 90 | |
| Trichloroethylene | <0.50 | <0.50 | <0.50 | 1 | <0.58 | <0.50 | 1.00 | 6 | 5 | |
| Vinyl Chloride | <1.0 | <1.0 | <1.0 | 1 | <1.2 | <1.0 | 2.0 | 6 | 2 | |

2.2.12 Millwoods Reservoir

September 2024

| Parameter | | | | | | | | | Limits | |
|--|---------|---------|---------|-------|---------|---------|---------|-------|------------------------------------|---------|
| | Monthly | | | | YTD | | | | *Approval or GCDWQ MAC, (AO or OG) | EPCOR |
| | Mean | Min | Max | Count | Mean | Min | Max | Count | | |
| Secondary Inorganics (mg/L) *** | | | | | | | | | | |
| Alkalinity Total | 116 | 116 | 116 | 1 | 117 | 112 | 123 | 5 | | |
| Aluminum | 0.063 | 0.063 | 0.063 | 1 | 0.071 | 0.022 | 0.168 | 5 | 2.9 | 0.1/0.2 |
| Ammonia as NH3 | 0.17 | 0.16 | 0.18 | 4 | 0.17 | 0.11 | 0.19 | 21 | | |
| Beryllium | <0.0002 | <0.0002 | <0.0002 | 1 | <0.0002 | <0.0002 | <0.0002 | 5 | | |
| Bromide Dissolved | <0.030 | <0.030 | <0.030 | 1 | <0.022 | <0.010 | <0.030 | | 5 | |
| Calcium | 47.8 | 47.8 | 47.8 | 1 | 47.5 | 45.2 | 49.6 | | 5 | |
| Calcium Hardness | | | | 0 | 122 | 122 | 122 | 1 | | |
| Calcium Hardness Calculated | 119 | 119 | 119 | 1 | 118 | 113 | 124 | 4 | | |
| Chloride Dissolved | 7.4 | 7.4 | 7.4 | 1 | 6.7 | 5.6 | 7.4 | 5 | (250) | |
| Cobalt | <0.0002 | <0.0002 | <0.0002 | 1 | <0.0002 | <0.0002 | <0.0002 | 5 | | |
| Iron | <0.005 | <0.005 | <0.005 | 1 | <0.005 | <0.005 | <0.005 | 5 | (0.3) | 0.3 |
| Lanthanum | <0.0010 | <0.0010 | <0.0010 | 1 | <0.0010 | <0.0010 | <0.0010 | 5 | | |
| Lithium | 0.0045 | 0.0045 | 0.0045 | 1 | 0.0038 | 0.0031 | 0.0045 | 5 | | |
| Magnesium | 13.6 | 13.6 | 13.6 | 1 | 14.0 | 13.3 | 14.5 | 5 | | |
| Molybdenum | 0.0007 | 0.0007 | 0.0007 | 1 | 0.0009 | 0.0007 | 0.0011 | | 5 | |
| Nickel | 0.0005 | 0.0005 | 0.0005 | 1 | <0.0005 | <0.0005 | 0.0005 | | 5 | |
| Ortho_P | 0.88 | 0.82 | 0.92 | 8 | 0.89 | 0.82 | 1.00 | 34 | | |
| Phosphorus | 0.99 | 0.99 | 0.99 | 1 | 0.97 | 0.90 | 1.01 | 5 | | |
| Potassium | 0.90 | 0.90 | 0.90 | 1 | 0.88 | 0.80 | 1.10 | 5 | | |
| Silicon | 2.43 | 2.43 | 2.43 | 1 | 2.07 | 1.56 | 2.43 | 5 | | |
| Silver | <0.0002 | <0.0002 | <0.0002 | 1 | <0.0002 | <0.0002 | <0.0002 | 5 | | |
| Sodium | 16.4 | 16.4 | 16.4 | 1 | 12.8 | 8.9 | 16.4 | 5 | (200) | |
| Sulphate Dissolved | 80.4 | 80.4 | 80.4 | 1 | 75.0 | 71.5 | 80.4 | 5 | (500) | |
| Thallium | <0.0002 | <0.0002 | <0.0002 | 1 | <0.0003 | <0.0002 | <0.0005 | 5 | | |
| Tin | <0.0005 | <0.0005 | <0.0005 | 1 | <0.0005 | <0.0005 | <0.0005 | 5 | | |
| Titanium | <0.0005 | <0.0005 | <0.0005 | 1 | <0.0005 | <0.0005 | <0.0005 | 5 | | |
| Total Hardness (mg/L CaCO3) | | | | 0 | 185 | 185 | 185 | 1 | | |
| Total Hardness Calculated | 176 | 176 | 176 | 1 | 176 | 168 | 184 | | 4 | |
| Vanadium | <0.0005 | <0.0005 | <0.0005 | 1 | <0.0005 | <0.0005 | <0.0005 | | 5 | |
| Zinc | <0.005 | <0.005 | <0.005 | 1 | <0.005 | <0.005 | <0.005 | 5 | (5.0) | |
| Zirconium | <0.0010 | <0.0010 | <0.0010 | 1 | <0.0010 | <0.0010 | <0.0010 | 5 | | |

2.2.12 Millwoods Reservoir

September 2024

| Parameter | | | | | | | | | Limits | |
|--------------------------------------|---------|-------|-------|-------|-------|-------|------|-------|------------------------------------|-------|
| | Monthly | | | | YTD | | | | *Approval or GCDWQ MAC, (AO or OG) | EPCOR |
| | Mean | Min | Max | Count | Mean | Min | Max | Count | | |
| Secondary Organics (ug/L) *** | | | | | | | | | | |
| Bromodichloromethane | 1.1 | 1.1 | 1.1 | 1 | 1.2 | 0.7 | 2.2 | 6 | (15) | 16 |
| Bromoform | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 6 | | |
| Chloroform | 33.7 | 33.7 | 33.7 | 1 | 19.4 | 6.8 | 37.4 | 6 | | |
| Dibromochloromethane | <0.50 | <0.50 | <0.50 | 1 | <0.58 | <0.50 | 1.00 | 6 | | |
| Dichlorobenzene (1,3) | <0.50 | <0.50 | <0.50 | 1 | <0.58 | <0.50 | 1.00 | 6 | | |
| Dichloroethylene, cis (1,2) | <0.50 | <0.50 | <0.50 | 1 | <0.58 | <0.50 | 1.00 | 6 | | |
| Dichloroethylene, trans (1,2) | <0.50 | <0.50 | <0.50 | 1 | <0.58 | <0.50 | 1.00 | 6 | | |
| Dichloropropane (1,2) | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 6 | | |
| Methyl t-Butyl Ether (MTBE) | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 6 | | |
| MIBK | <1.0 | <1.0 | <1.0 | 1 | <1.2 | <1.0 | 2.0 | 6 | | |
| Styrene | <0.50 | <0.50 | <0.50 | 1 | <0.58 | <0.50 | 1.00 | 6 | | |
| Tetrachloroethane (1,1,2,2) | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 6 | | |
| Total Organic Carbon | 2.3 | 2.3 | 2.3 | 1 | 1.8 | 0.9 | 2.6 | 18 | | |
| Total Volatile Organics (NonTHM) | 2.1 | 2.1 | 2.1 | 1 | 1.6 | <1.0 | 3.6 | 6 | | |
| Total Volatile Organics (Unknown) | | | | 0 | 1.3 | 1.3 | 1.3 | 1 | | |
| Trichlorobenzene (1,2,4) | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 6 | | |
| Trichloroethane (1,1,1) | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 6 | | |
| Xylene (1,2) | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 6 | | |
| Xylene (1,4) | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 6 | | |

TABLE EXPLANATIONS:

* Numbers with no brackets are Health Canada Guidelines for Canadian Drinking Water Quality (GCDWQ) Maximum Acceptable Concentrations (MAC) and/or a limit set out in the Alberta Environment and Parks (AEP) Operating Approval 638-04-01. Limits in brackets indicate Aesthetic Objectives or Operational Guidelines (OG) and are not Approval Limits. The EPCOR limits are internal limits set by EPCOR in the Operations Program.

** Primary parameters are those that have health-based limits (MACs) according the AEP Operating Approval 638-04-01

*** Secondary parameters do not have health-based limits but may have aesthetic or operational objectives

2.2.13 North Jasper Place Reservoir

September 2024

| Parameter | | | | | | | | | Limits | |
|-------------------------------------|---------|--------|--------|-------|---------|---------|---------|-------|------------------------------------|---------------|
| | Monthly | | | | YTD | | | | *Approval or GCDWQ MAC, (AO or OG) | EPCOR |
| | Mean | Min | Max | Count | Mean | Min | Max | Count | | |
| Physical | | | | | | | | | | |
| Colour (TCU) | | | | 0 | 0.8 | 0.6 | 1.0 | 5 | (15) | 10 |
| Conductivity (uS/cm) | | | | 0 | 402 | 367 | 421 | 5 | | |
| Odour | | | | 0 | Inoff | Inoff | Inoff | 5 | | |
| pH (N/A) | 7.9 | 7.7 | 7.9 | 4 | 7.8 | 7.7 | 8.0 | 22 | (7.0 - 10.5) | 7.3 - 8.3 |
| Turbidity (NTU) | 0.19 | 0.08 | 0.37 | 4 | 0.12 | 0.05 | 0.37 | 39 | | 1 |
| Primary Inorganics (mg/L) ** | | | | | | | | | | |
| Antimony | | | | 0 | <0.0004 | <0.0002 | <0.0005 | 5 | 0.006 | |
| Arsenic | | | | 0 | <0.0002 | <0.0002 | 0.0003 | 5 | 0.01 | |
| Barium | | | | 0 | 0.061 | 0.054 | 0.068 | 5 | 2 | |
| Boron | | | | 0 | 0.010 | 0.008 | 0.014 | 5 | 2 | |
| Bromate Dissolved | | | | 0 | <0.005 | <0.003 | <0.005 | 6 | 0.01 | |
| Cadmium | | | | 0 | <0.0002 | <0.0002 | <0.0002 | 5 | 0.007 | |
| Chlorate Dissolved | | | | 0 | 0.116 | <0.080 | 0.147 | 6 | 1 | |
| Chlorite Dissolved | | | | 0 | <0.038 | <0.005 | <0.200 | 6 | 1 | |
| Chromium | | | | 0 | <0.0002 | <0.0002 | <0.0002 | 5 | 0.05 | |
| Copper | | | | 0 | <0.003 | <0.002 | <0.005 | 5 | 2 (1) | |
| Fluoride | | | | 0 | 0.68 | 0.64 | 0.71 | 5 | 1.5 | 0.6 - 0.8 |
| Lead | | | | 0 | <0.0002 | <0.0002 | <0.0002 | 5 | 0.005 | |
| Manganese | | | | 0 | <0.002 | <0.002 | <0.002 | 5 | 0.12 (0.02) | |
| Mercury | | | | 0 | <0.0002 | <0.0002 | <0.0002 | 5 | 0.001 | |
| Nitrate (as N) Dissolved | 0.020 | 0.020 | 0.020 | 4 | 0.049 | 0.020 | 0.190 | 23 | 10 | |
| Nitrite (as N) Dissolved | <0.010 | <0.010 | <0.010 | 4 | <0.009 | <0.005 | 0.010 | 23 | 1 | |
| Selenium | | | | 0 | 0.0003 | 0.0002 | 0.0003 | 5 | 0.05 | |
| Strontium | | | | 0 | 0.444 | 0.416 | 0.481 | 5 | 7.0 | |
| Total Chlorine | 1.42 | 1.32 | 1.55 | 4 | 1.65 | 1.25 | 2.07 | 39 | >0.5 and <3.0 | >1.0 and <2.4 |
| Uranium | | | | 0 | <0.0005 | <0.0005 | <0.0005 | 5 | 0.02 | |
| Primary Organics (ug/L) ** | | | | | | | | | | |
| Benzene | | | | 0 | <0.5 | <0.5 | <0.5 | 5 | 5 | |
| Carbon Tetrachloride | | | | 0 | <0.5 | <0.5 | <0.5 | 5 | 2 | |
| Chlorobenzene | | | | 0 | <0.50 | <0.50 | <0.50 | 5 | 80 (30) | |
| Dichlorobenzene (1,2) | | | | 0 | <0.50 | <0.50 | <0.50 | 5 | | |
| Dichlorobenzene (1,4) | | | | 0 | <0.5 | <0.5 | <0.5 | 5 | 5 (1) | |
| Dichloroethane (1,2) | | | | 0 | <0.5 | <0.5 | <0.5 | 5 | 5 | |
| Dichloroethylene (1,1) | | | | 0 | <0.5 | <0.5 | <0.5 | 5 | 14 | |
| Ethylbenzene | | | | 0 | <0.50 | <0.50 | <0.50 | 5 | 140 (1.6) | |
| Methylene Chloride | | | | 0 | <0.5 | <0.5 | <0.5 | 5 | 50 | |
| Tetrachloroethylene | | | | 0 | <0.5 | <0.5 | <0.5 | 5 | 10 | |
| Toluene | | | | 0 | <0.50 | <0.50 | <0.50 | 5 | 60 (24) | |
| Total Xylenes | | | | 0 | <1 | <1 | <1 | 5 | 90 | |
| Trichloroethylene | | | | 0 | <0.50 | <0.50 | <0.50 | 5 | 5 | |
| Vinyl Chloride | | | | 0 | <1.0 | <1.0 | <1.0 | 5 | 2 | |

2.2.13 North Jasper Place Reservoir

September 2024

| Parameter | | | | | | | | | Limits | |
|--|---------|------|------|-------|---------|---------|---------|-------|------------------------------------|---------|
| | Monthly | | | | YTD | | | | *Approval or GCDWQ MAC, (AO or OG) | EPCOR |
| | Mean | Min | Max | Count | Mean | Min | Max | Count | | |
| Secondary Inorganics (mg/L) *** | | | | | | | | | | |
| Alkalinity Total | | | | 0 | 118 | 112 | 128 | 5 | | |
| Aluminum | | | | 0 | 0.053 | 0.024 | 0.102 | 5 | 2.9 | 0.1/0.2 |
| Ammonia as NH3 | 0.22 | 0.21 | 0.24 | 4 | 0.21 | 0.16 | 0.25 | 4 | 20 | |
| Beryllium | | | | 0 | <0.0002 | <0.0002 | <0.0002 | 5 | 5 | |
| Bromide Dissolved | | | | 0 | <0.027 | <0.010 | <0.050 | 6 | | |
| Calcium | | | | 0 | 46.6 | 43.9 | 51.0 | 5 | | |
| Calcium Hardness | | | | 0 | 122 | 116 | 128 | 2 | | |
| Calcium Hardness Calculated | | | | 0 | 113 | 110 | 117 | 3 | | |
| Chloride Dissolved | | | | 0 | 7.0 | 6.0 | 8.0 | 6 | (250) | |
| Cobalt | | | | 0 | <0.0002 | <0.0002 | <0.0002 | 5 | | |
| Iron | | | | 0 | <0.005 | <0.005 | <0.005 | 5 | (0.3) | 0.3 |
| Lanthanum | | | | 0 | <0.0010 | <0.0010 | <0.0010 | 5 | | |
| Lithium | | | | 0 | 0.0034 | 0.0030 | 0.0041 | 5 | | |
| Magnesium | | | | 0 | 13.6 | 12.2 | 14.7 | 5 | | |
| Molybdenum | | | | 0 | 0.0008 | 0.0005 | 0.0009 | 5 | | |
| Nickel | | | | 0 | <0.0005 | <0.0005 | 0.0005 | 5 | | |
| Ortho_P | 0.90 | 0.86 | 0.94 | 8 | 0.89 | 0.82 | 0.96 | 34 | | |
| Phosphorus | | | | 0 | 0.97 | 0.92 | 1.00 | 5 | | |
| Potassium | | | | 0 | 0.84 | 0.70 | 1.00 | 5 | | |
| Silicon | | | | 0 | 1.96 | 1.78 | 2.09 | 5 | | |
| Silver | | | | 0 | <0.0002 | <0.0002 | <0.0002 | 5 | | |
| Sodium | | | | 0 | 13.3 | 7.2 | 19.0 | 5 | (200) | |
| Sulphate Dissolved | | | | 0 | 72.9 | 59.5 | 80.4 | 6 | (500) | |
| Thallium | | | | 0 | <0.0003 | <0.0002 | <0.0005 | 5 | | |
| Tin | | | | 0 | <0.0005 | <0.0005 | <0.0005 | 5 | | |
| Titanium | | | | 0 | <0.0005 | <0.0005 | <0.0005 | 5 | | |
| Total Hardness (mg/L CaCO3) | | | | 0 | 184 | 173 | 194 | 2 | | |
| Total Hardness Calculated | | | | 0 | 167 | 160 | 175 | 3 | | |
| Vanadium | | | | 0 | <0.0005 | <0.0005 | <0.0005 | 5 | | |
| Zinc | | | | 0 | <0.005 | <0.005 | <0.005 | 5 | (5.0) | |
| Zirconium | | | | 0 | <0.0010 | <0.0010 | <0.0010 | 5 | | |

2.2.13 North Jasper Place Reservoir

September 2024

| Parameter | | | | | | | | | Limits | |
|--------------------------------------|---------|-----|-----|-------|-------|-------|-------|-------|------------------------------------|-------|
| | Monthly | | | | YTD | | | | *Approval or GCDWQ MAC, (AO or OG) | EPCOR |
| | Mean | Min | Max | Count | Mean | Min | Max | Count | | |
| Secondary Organics (ug/L) *** | | | | | | | | | | |
| Bromodichloromethane | | | | 0 | 1.4 | 0.9 | 1.8 | 5 | (15) | 16 |
| Bromoform | | | | 0 | <0.5 | <0.5 | <0.5 | 5 | | |
| Chloroform | | | | 0 | 22.7 | 12.7 | 36.0 | 5 | | |
| Dibromochloromethane | | | | 0 | <0.50 | <0.50 | <0.50 | 5 | | |
| Dichlorobenzene (1,3) | | | | 0 | <0.50 | <0.50 | <0.50 | 5 | | |
| Dichloroethylene, cis (1,2) | | | | 0 | <0.50 | <0.50 | <0.50 | 5 | | |
| Dichloroethylene, trans (1,2) | | | | 0 | <0.50 | <0.50 | <0.50 | 5 | | |
| Dichloropropane (1,2) | | | | 0 | <0.5 | <0.5 | <0.5 | 5 | | |
| Methyl t-Butyl Ether (MTBE) | | | | 0 | <0.5 | <0.5 | <0.5 | 5 | | |
| MIBK | | | | 0 | <1.0 | <1.0 | <1.0 | 5 | | |
| Styrene | | | | 0 | <0.50 | <0.50 | <0.50 | 5 | | |
| Tetrachloroethane (1,1,2,2) | | | | 0 | <0.5 | <0.5 | <0.5 | 5 | | |
| Total Organic Carbon | | | | 0 | 1.8 | 1.2 | 2.4 | 17 | | |
| Total Volatile Organics (NonTHM) | | | | 0 | 2.2 | <1.0 | 3.4 | 5 | | |
| Total Volatile Organics (Unknown) | | | | 0 | 1.7 | 1.7 | 1.7 | 1 | | |
| Trichlorobenzene (1,2,4) | | | | 0 | <0.5 | <0.5 | <0.5 | 5 | | |
| Trichloroethane (1,1,1) | | | | 0 | <0.5 | <0.5 | <0.5 | 5 | | |
| Xylene (1,2) | | | | 0 | <0.5 | <0.5 | <0.5 | 5 | | |
| Xylene (1,4) | | | | 0 | <0.5 | <0.5 | <0.5 | 5 | | |

TABLE EXPLANATIONS:

* Numbers with no brackets are Health Canada Guidelines for Canadian Drinking Water Quality (GCDWQ) Maximum Acceptable Concentrations (MAC) and/or a limit set out in the Alberta Environment and Parks (AEP) Operating Approval 638-04-01. Limits in brackets indicate Aesthetic Objectives or Operational Guidelines (OG) and are not Approval Limits. The EPCOR limits are internal limits set by EPCOR in the Operations Program.

** Primary parameters are those that have health-based limits (MACs) according the AEP Operating Approval 638-04-01

*** Secondary parameters do not have health-based limits but may have aesthetic or operational objectives

2.2.14 Ormsby Reservoir

September 2024

| Parameter | | | | | | | | | Limits | |
|-------------------------------------|---------|---------|---------|-------|---------|---------|---------|-------|------------------------------------|---------------|
| | Monthly | | | | YTD | | | | *Approval or GCDWQ MAC, (AO or OG) | EPCOR |
| | Mean | Min | Max | Count | Mean | Min | Max | Count | | |
| Physical | | | | | | | | | | |
| Colour (TCU) | 1.1 | 1.1 | 1.1 | 1 | 0.9 | 0.6 | 1.1 | 4 | (15) | 10 |
| Conductivity (uS/cm) | 415 | 415 | 415 | 1 | 411 | 395 | 424 | 4 | | |
| Odour | Inoff | Inoff | Inoff | 1 | Inoff | Inoff | Inoff | 4 | | |
| pH (N/A) | 7.8 | 7.6 | 7.9 | 4 | 7.8 | 7.6 | 8.0 | 21 | (7.0 - 10.5) | 7.3 - 8.3 |
| Turbidity (NTU) | 0.10 | 0.07 | 0.12 | 4 | 0.11 | 0.05 | 0.28 | 39 | | 1 |
| Primary Inorganics (mg/L) ** | | | | | | | | | | |
| Antimony | <0.0005 | <0.0005 | <0.0005 | 1 | <0.0004 | <0.0002 | <0.0005 | 4 | 0.006 | |
| Arsenic | 0.0002 | 0.0002 | 0.0002 | 1 | <0.0002 | <0.0002 | 0.0002 | 4 | 0.01 | |
| Barium | 0.068 | 0.068 | 0.068 | 1 | 0.062 | 0.051 | 0.071 | 4 | 2 | |
| Boron | 0.011 | 0.011 | 0.011 | 1 | 0.011 | 0.010 | 0.011 | 4 | 2 | |
| Bromate Dissolved | <0.005 | <0.005 | <0.005 | 1 | <0.005 | <0.005 | <0.005 | 4 | 0.01 | |
| Cadmium | <0.0002 | <0.0002 | <0.0002 | 1 | <0.0002 | <0.0002 | <0.0002 | 4 | 0.007 | |
| Chlorate Dissolved | 0.139 | 0.139 | 0.139 | 1 | 0.103 | 0.060 | 0.139 | 4 | 1 | |
| Chlorite Dissolved | <0.005 | <0.005 | <0.005 | 1 | <0.005 | <0.005 | <0.005 | 4 | 1 | |
| Chromium | <0.0002 | <0.0002 | <0.0002 | 1 | <0.0002 | <0.0002 | <0.0002 | 4 | 0.05 | |
| Copper | <0.002 | <0.002 | <0.002 | 1 | <0.003 | <0.002 | <0.005 | 4 | 2 (1) | |
| Fluoride | 0.66 | 0.66 | 0.66 | 1 | 0.68 | 0.66 | 0.71 | 4 | 1.5 | 0.6 - 0.8 |
| Lead | <0.0002 | <0.0002 | <0.0002 | 1 | <0.0002 | <0.0002 | <0.0002 | 4 | 0.005 | |
| Manganese | <0.002 | <0.002 | <0.002 | 1 | <0.002 | <0.002 | <0.002 | 4 | 0.12 (0.02) | |
| Mercury | <0.0002 | <0.0002 | <0.0002 | 1 | <0.0002 | <0.0002 | <0.0002 | 4 | 0.001 | |
| Nitrate (as N) Dissolved | 0.018 | 0.010 | 0.020 | 4 | 0.038 | 0.010 | 0.170 | 23 | 10 | |
| Nitrite (as N) Dissolved | <0.010 | <0.010 | <0.010 | 4 | <0.009 | <0.005 | 0.010 | 23 | 1 | |
| Selenium | 0.0003 | 0.0003 | 0.0003 | 1 | 0.0003 | 0.0002 | 0.0003 | 4 | 0.05 | |
| Strontium | 0.429 | 0.429 | 0.429 | 1 | 0.437 | 0.424 | 0.458 | 4 | 7.0 | |
| Total Chlorine | 1.84 | 1.71 | 1.97 | 4 | 1.91 | 1.62 | 2.15 | 39 | >0.5 and <3.0 | >1.0 and <2.4 |
| Uranium | <0.0005 | <0.0005 | <0.0005 | 1 | <0.0005 | <0.0005 | <0.0005 | 4 | 0.02 | |
| Primary Organics (ug/L) ** | | | | | | | | | | |
| Benzene | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 5 | 5 | |
| Carbon Tetrachloride | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 5 | 2 | |
| Chlorobenzene | <0.50 | <0.50 | <0.50 | 1 | <0.60 | <0.50 | 1.00 | 5 | 80 (30) | |
| Dichlorobenzene (1,2) | <0.50 | <0.50 | <0.50 | 1 | <0.60 | <0.50 | 1.00 | 5 | | |
| Dichlorobenzene (1,4) | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 5 | 5 (1) | |
| Dichloroethane (1,2) | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 5 | 5 | |
| Dichloroethylene (1,1) | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 5 | 14 | |
| Ethylbenzene | <0.50 | <0.50 | <0.50 | 1 | <0.60 | <0.50 | 1.00 | 5 | 140 (1.6) | |
| Methylene Chloride | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 5 | 50 | |
| Tetrachloroethylene | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 5 | 10 | |
| Toluene | <0.50 | <0.50 | <0.50 | 1 | <0.60 | <0.50 | 1.00 | 5 | 60 (24) | |
| Total Xylenes | <1 | <1 | <1 | 1 | <1 | <1 | <1 | 5 | 90 | |
| Trichloroethylene | <0.50 | <0.50 | <0.50 | 1 | <0.60 | <0.50 | 1.00 | 5 | 5 | |
| Vinyl Chloride | <1.0 | <1.0 | <1.0 | 1 | <1.2 | <1.0 | 2.0 | 5 | 2 | |

2.2.14 Ormsby Reservoir

September 2024

| Parameter | | | | | | | | | Limits | |
|--|---------|---------|---------|-------|---------|---------|---------|-------|------------------------------------|---------|
| | Monthly | | | | YTD | | | | *Approval or GCDWQ MAC, (AO or OG) | EPCOR |
| | Mean | Min | Max | Count | Mean | Min | Max | Count | | |
| Secondary Inorganics (mg/L) *** | | | | | | | | | | |
| Alkalinity Total | 114 | 114 | 114 | 1 | 118 | 112 | 123 | 4 | | |
| Aluminum | 0.067 | 0.067 | 0.067 | 1 | 0.063 | 0.023 | 0.130 | 4 | 2.9 | 0.1/0.2 |
| Ammonia as NH3 | 0.17 | 0.16 | 0.18 | 4 | 0.17 | 0.11 | 0.20 | 21 | | |
| Beryllium | <0.0002 | <0.0002 | <0.0002 | 1 | <0.0002 | <0.0002 | <0.0002 | 4 | | |
| Bromide Dissolved | <0.030 | <0.030 | <0.030 | 1 | <0.020 | <0.010 | <0.030 | | 4 | |
| Calcium | 47.1 | 47.1 | 47.1 | 1 | 47.0 | 43.9 | 49.6 | | 4 | |
| Calcium Hardness | | | | 0 | 122 | 122 | 122 | 1 | | |
| Calcium Hardness Calculated | 118 | 118 | 118 | 1 | 117 | 110 | 124 | 3 | | |
| Chloride Dissolved | 7.9 | 7.9 | 7.9 | 1 | 7.3 | 6.3 | 7.9 | 4 | (250) | |
| Cobalt | <0.0002 | <0.0002 | <0.0002 | 1 | <0.0002 | <0.0002 | <0.0002 | 4 | | |
| Iron | <0.005 | <0.005 | <0.005 | 1 | <0.005 | <0.005 | <0.005 | 4 | (0.3) | 0.3 |
| Lanthanum | <0.0010 | <0.0010 | <0.0010 | 1 | <0.0010 | <0.0010 | <0.0010 | 4 | | |
| Lithium | 0.0039 | 0.0039 | 0.0039 | 1 | 0.0035 | 0.0030 | 0.0040 | 4 | | |
| Magnesium | 13.6 | 13.6 | 13.6 | 1 | 13.7 | 13.1 | 14.2 | 4 | | |
| Molybdenum | 0.0007 | 0.0007 | 0.0007 | 1 | 0.0008 | 0.0007 | 0.0011 | | 4 | |
| Nickel | <0.0005 | <0.0005 | <0.0005 | 1 | <0.0005 | <0.0005 | <0.0005 | | 4 | |
| Ortho_P | 0.88 | 0.74 | 0.96 | 8 | 0.89 | 0.74 | 0.98 | 34 | | |
| Phosphorus | 1.00 | 1.00 | 1.00 | 1 | 0.98 | 0.88 | 1.04 | 4 | | |
| Potassium | 0.80 | 0.80 | 0.80 | 1 | 0.93 | 0.80 | 1.30 | 4 | | |
| Silicon | 2.29 | 2.29 | 2.29 | 1 | 2.17 | 1.68 | 2.39 | 4 | | |
| Silver | <0.0002 | <0.0002 | <0.0002 | 1 | <0.0002 | <0.0002 | <0.0002 | 4 | | |
| Sodium | 16.2 | 16.2 | 16.2 | 1 | 14.4 | 12.9 | 16.2 | 4 | (200) | |
| Sulphate Dissolved | 78.0 | 78.0 | 78.0 | 1 | 76.1 | 73.6 | 78.0 | 4 | (500) | |
| Thallium | <0.0002 | <0.0002 | <0.0002 | 1 | <0.0003 | <0.0002 | <0.0005 | 4 | | |
| Tin | <0.0005 | <0.0005 | <0.0005 | 1 | <0.0005 | <0.0005 | <0.0005 | 4 | | |
| Titanium | <0.0005 | <0.0005 | <0.0005 | 1 | <0.0005 | <0.0005 | <0.0005 | 4 | | |
| Total Hardness (mg/L CaCO3) | | | | 0 | 185 | 185 | 185 | 1 | | |
| Total Hardness Calculated | 174 | 174 | 174 | 1 | 173 | 164 | 182 | | 3 | |
| Vanadium | <0.0005 | <0.0005 | <0.0005 | 1 | <0.0005 | <0.0005 | <0.0005 | | 4 | |
| Zinc | <0.005 | <0.005 | <0.005 | 1 | <0.005 | <0.005 | <0.005 | 4 | (5.0) | |
| Zirconium | <0.0010 | <0.0010 | <0.0010 | 1 | <0.0010 | <0.0010 | <0.0010 | 4 | | |

2.2.14 Ormsby Reservoir

September 2024

| Parameter | | | | | | | | | Limits | |
|--------------------------------------|---------|-------|-------|-------|-------|-------|------|-------|------------------------------------|-------|
| | Monthly | | | | YTD | | | | *Approval or GCDWQ MAC, (AO or OG) | EPCOR |
| | Mean | Min | Max | Count | Mean | Min | Max | Count | | |
| Secondary Organics (ug/L) *** | | | | | | | | | | |
| Bromodichloromethane | 1.0 | 1.0 | 1.0 | 1 | 1.0 | 0.8 | 1.1 | 5 | (15) | 16 |
| Bromoform | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 5 | | |
| Chloroform | 31.3 | 31.3 | 31.3 | 1 | 18.9 | 6.6 | 38.1 | 5 | | |
| Dibromochloromethane | <0.50 | <0.50 | <0.50 | 1 | <0.60 | <0.50 | 1.00 | 5 | | |
| Dichlorobenzene (1,3) | <0.50 | <0.50 | <0.50 | 1 | <0.60 | <0.50 | 1.00 | 5 | | |
| Dichloroethylene, cis (1,2) | <0.50 | <0.50 | <0.50 | 1 | <0.60 | <0.50 | 1.00 | 5 | | |
| Dichloroethylene, trans (1,2) | <0.50 | <0.50 | <0.50 | 1 | <0.60 | <0.50 | 1.00 | 5 | | |
| Dichloropropane (1,2) | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 5 | | |
| Methyl t-Butyl Ether (MTBE) | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 5 | | |
| MIBK | <1.0 | <1.0 | <1.0 | 1 | <1.2 | <1.0 | 2.0 | 5 | | |
| Styrene | <0.50 | <0.50 | <0.50 | 1 | <0.60 | <0.50 | 1.00 | 5 | | |
| Tetrachloroethane (1,1,2,2) | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 5 | | |
| Total Organic Carbon | 2.0 | 2.0 | 2.0 | 1 | 1.8 | 0.9 | 2.5 | 18 | | |
| Total Volatile Organics (NonTHM) | 1.9 | 1.9 | 1.9 | 1 | <1.2 | <1.0 | 1.9 | 5 | | |
| Total Volatile Organics (Unknown) | | | | 0 | 0.9 | 0.6 | 1.2 | 2 | | |
| Trichlorobenzene (1,2,4) | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 5 | | |
| Trichloroethane (1,1,1) | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 5 | | |
| Xylene (1,2) | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 5 | | |
| Xylene (1,4) | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 5 | | |

TABLE EXPLANATIONS:

* Numbers with no brackets are Health Canada Guidelines for Canadian Drinking Water Quality (GCDWQ) Maximum Acceptable Concentrations (MAC) and/or a limit set out in the Alberta Environment and Parks (AEP) Operating Approval 638-04-01. Limits in brackets indicate Aesthetic Objectives or Operational Guidelines (OG) and are not Approval Limits. The EPCOR limits are internal limits set by EPCOR in the Operations Program.

** Primary parameters are those that have health-based limits (MACs) according the AEP Operating Approval 638-04-01

*** Secondary parameters do not have health-based limits but may have aesthetic or operational objectives

2.2.15 Papaschase 1 Reservoir

September 2024

| Parameter | | | | | | | | | Limits | |
|-------------------------------------|---------|---------|---------|-------|---------|---------|---------|-------|------------------------------------|---------------|
| | Monthly | | | | YTD | | | | *Approval or GCDWQ MAC, (AO or OG) | EPCOR |
| | Mean | Min | Max | Count | Mean | Min | Max | Count | | |
| Physical | | | | | | | | | | |
| Colour (TCU) | 0.9 | 0.9 | 0.9 | 1 | 0.9 | 0.7 | 1.0 | 4 | (15) | 10 |
| Conductivity (uS/cm) | 381 | 381 | 381 | 1 | 394 | 379 | 408 | 4 | | |
| Odour | Inoff | Inoff | Inoff | 1 | Inoff | Inoff | Inoff | 4 | | |
| pH (N/A) | 7.8 | 7.7 | 7.8 | 4 | 7.8 | 7.6 | 8.0 | 21 | (7.0 - 10.5) | 7.3 - 8.3 |
| Turbidity (NTU) | 0.12 | 0.06 | 0.15 | 4 | 0.15 | 0.06 | 0.26 | 39 | | 1 |
| Primary Inorganics (mg/L) ** | | | | | | | | | | |
| Antimony | <0.0005 | <0.0005 | <0.0005 | 1 | <0.0004 | <0.0002 | <0.0005 | 4 | 0.006 | |
| Arsenic | 0.0003 | 0.0003 | 0.0003 | 1 | <0.0002 | <0.0002 | 0.0003 | 4 | 0.01 | |
| Barium | 0.064 | 0.064 | 0.064 | 1 | 0.061 | 0.050 | 0.071 | 4 | 2 | |
| Boron | 0.011 | 0.011 | 0.011 | 1 | 0.010 | 0.008 | 0.011 | 4 | 2 | |
| Bromate Dissolved | <0.005 | <0.005 | <0.005 | 1 | <0.005 | <0.005 | <0.005 | 4 | 0.01 | |
| Cadmium | <0.0002 | <0.0002 | <0.0002 | 1 | <0.0002 | <0.0002 | <0.0002 | 4 | 0.007 | |
| Chlorate Dissolved | 0.224 | 0.224 | 0.224 | 1 | 0.233 | 0.190 | 0.261 | 4 | 1 | |
| Chlorite Dissolved | <0.005 | <0.005 | <0.005 | 1 | <0.005 | <0.005 | <0.005 | 4 | 1 | |
| Chromium | <0.0002 | <0.0002 | <0.0002 | 1 | <0.0002 | <0.0002 | <0.0002 | 4 | 0.05 | |
| Copper | <0.002 | <0.002 | <0.002 | 1 | <0.003 | <0.002 | <0.005 | 4 | 2 (1) | |
| Fluoride | 0.64 | 0.64 | 0.64 | 1 | 0.69 | 0.64 | 0.75 | 4 | 1.5 | 0.6 - 0.8 |
| Lead | <0.0002 | <0.0002 | <0.0002 | 1 | <0.0002 | <0.0002 | <0.0002 | 4 | 0.005 | |
| Manganese | <0.002 | <0.002 | <0.002 | 1 | <0.002 | <0.002 | <0.002 | 4 | 0.12 (0.02) | |
| Mercury | <0.0002 | <0.0002 | <0.0002 | 1 | <0.0002 | <0.0002 | <0.0002 | 4 | 0.001 | |
| Nitrate (as N) Dissolved | 0.020 | 0.010 | 0.030 | 4 | 0.041 | 0.010 | 0.160 | 23 | 10 | |
| Nitrite (as N) Dissolved | <0.010 | <0.010 | <0.010 | 4 | <0.009 | <0.005 | 0.010 | 23 | 1 | |
| Selenium | 0.0002 | 0.0002 | 0.0002 | 1 | 0.0003 | 0.0002 | 0.0003 | 4 | 0.05 | |
| Strontium | 0.429 | 0.429 | 0.429 | 1 | 0.435 | 0.423 | 0.455 | 4 | 7.0 | |
| Total Chlorine | 1.59 | 1.35 | 2.03 | 4 | 1.87 | 1.35 | 2.15 | 39 | >0.5 and <3.0 | >1.0 and <2.4 |
| Uranium | <0.0005 | <0.0005 | <0.0005 | 1 | <0.0005 | <0.0005 | <0.0005 | 4 | 0.02 | |
| Primary Organics (ug/L) ** | | | | | | | | | | |
| Benzene | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 5 | 5 | |
| Carbon Tetrachloride | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 5 | 2 | |
| Chlorobenzene | <0.50 | <0.50 | <0.50 | 1 | <0.60 | <0.50 | 1.00 | 5 | 80 (30) | |
| Dichlorobenzene (1,2) | <0.50 | <0.50 | <0.50 | 1 | <0.60 | <0.50 | 1.00 | 5 | | |
| Dichlorobenzene (1,4) | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 5 | 5 (1) | |
| Dichloroethane (1,2) | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 5 | 5 | |
| Dichloroethylene (1,1) | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 5 | 14 | |
| Ethylbenzene | <0.50 | <0.50 | <0.50 | 1 | <0.60 | <0.50 | 1.00 | 5 | 140 (1.6) | |
| Methylene Chloride | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 5 | 50 | |
| Tetrachloroethylene | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 5 | 10 | |
| Toluene | <0.50 | <0.50 | <0.50 | 1 | <0.60 | <0.50 | 1.00 | 5 | 60 (24) | |
| Total Xylenes | <1 | <1 | <1 | 1 | <1 | <1 | <1 | 5 | 90 | |
| Trichloroethylene | <0.50 | <0.50 | <0.50 | 1 | <0.60 | <0.50 | 1.00 | 5 | 5 | |
| Vinyl Chloride | <1.0 | <1.0 | <1.0 | 1 | <1.2 | <1.0 | 2.0 | 5 | 2 | |

2.2.15 Papaschase 1 Reservoir

September 2024

| Parameter | | | | | | | | | Limits | |
|--|---------|---------|---------|-------|---------|---------|---------|-------|------------------------------------|---------|
| | Monthly | | | | YTD | | | | *Approval or GCDWQ MAC, (AO or OG) | EPCOR |
| | Mean | Min | Max | Count | Mean | Min | Max | Count | | |
| Secondary Inorganics (mg/L) *** | | | | | | | | | | |
| Alkalinity Total | 110 | 110 | 110 | 1 | 115 | 110 | 120 | 4 | | |
| Aluminum | 0.096 | 0.096 | 0.096 | 1 | 0.057 | 0.019 | 0.096 | 4 | 2.9 | 0.1/0.2 |
| Ammonia as NH3 | 0.21 | 0.16 | 0.28 | 4 | 0.19 | 0.11 | 0.28 | 21 | | |
| Beryllium | <0.0002 | <0.0002 | <0.0002 | 1 | <0.0002 | <0.0002 | <0.0002 | 4 | | |
| Bromide Dissolved | <0.030 | <0.030 | <0.030 | 1 | <0.020 | <0.010 | <0.030 | | 4 | |
| Calcium | 46.5 | 46.5 | 46.5 | 1 | 47.7 | 45.1 | 50.1 | | 4 | |
| Calcium Hardness | | | | 0 | 123 | 123 | 123 | 1 | | |
| Calcium Hardness Calculated | 116 | 116 | 116 | 1 | 117 | 113 | 123 | 3 | | |
| Chloride Dissolved | 6.0 | 6.0 | 6.0 | 1 | 6.4 | 5.8 | 7.5 | 4 | (250) | |
| Cobalt | <0.0002 | <0.0002 | <0.0002 | 1 | <0.0002 | <0.0002 | <0.0002 | 4 | | |
| Iron | 0.011 | 0.011 | 0.011 | 1 | 0.013 | 0.010 | 0.016 | 4 | (0.3) | 0.3 |
| Lanthanum | <0.0010 | <0.0010 | <0.0010 | 1 | <0.0010 | <0.0010 | <0.0010 | 4 | | |
| Lithium | 0.0042 | 0.0042 | 0.0042 | 1 | 0.0039 | 0.0033 | 0.0045 | 4 | | |
| Magnesium | 13.5 | 13.5 | 13.5 | 1 | 13.9 | 13.1 | 14.5 | 4 | | |
| Molybdenum | 0.0008 | 0.0008 | 0.0008 | 1 | 0.0009 | 0.0007 | 0.0011 | | 4 | |
| Nickel | <0.0005 | <0.0005 | <0.0005 | 1 | <0.0005 | <0.0005 | <0.0005 | | 4 | |
| Ortho_P | 0.85 | 0.76 | 0.90 | 8 | 0.86 | 0.76 | 0.90 | 34 | | |
| Phosphorus | 0.95 | 0.95 | 0.95 | 1 | 0.94 | 0.88 | 0.97 | 4 | | |
| Potassium | 0.80 | 0.80 | 0.80 | 1 | 0.88 | 0.80 | 1.10 | 4 | | |
| Silicon | 1.95 | 1.95 | 1.95 | 1 | 2.10 | 1.68 | 2.39 | 4 | | |
| Silver | <0.0002 | <0.0002 | <0.0002 | 1 | <0.0002 | <0.0002 | <0.0002 | 4 | | |
| Sodium | 9.2 | 9.2 | 9.2 | 1 | 10.3 | 9.2 | 11.4 | 4 | (200) | |
| Sulphate Dissolved | 69.2 | 69.2 | 69.2 | 1 | 72.0 | 69.2 | 75.2 | 4 | (500) | |
| Thallium | <0.0002 | <0.0002 | <0.0002 | 1 | <0.0003 | <0.0002 | <0.0005 | 4 | | |
| Tin | <0.0005 | <0.0005 | <0.0005 | 1 | <0.0005 | <0.0005 | <0.0005 | 4 | | |
| Titanium | <0.0005 | <0.0005 | <0.0005 | 1 | <0.0005 | <0.0005 | <0.0005 | 4 | | |
| Total Hardness (mg/L CaCO3) | | | | 0 | 185 | 185 | 185 | 1 | | |
| Total Hardness Calculated | 172 | 172 | 172 | 1 | 174 | 167 | 182 | | 3 | |
| Vanadium | <0.0005 | <0.0005 | <0.0005 | 1 | <0.0005 | <0.0005 | <0.0005 | | 4 | |
| Zinc | <0.005 | <0.005 | <0.005 | 1 | <0.005 | <0.005 | <0.005 | 4 | (5.0) | |
| Zirconium | <0.0010 | <0.0010 | <0.0010 | 1 | <0.0010 | <0.0010 | <0.0010 | 4 | | |

2.2.15 Papaschase 1 Reservoir

September 2024

| Parameter | | | | | | | | | Limits | |
|--------------------------------------|---------|-------|-------|-------|-------|-------|------|-------|------------------------------------|-------|
| | Monthly | | | | YTD | | | | *Approval or GCDWQ MAC, (AO or OG) | EPCOR |
| | Mean | Min | Max | Count | Mean | Min | Max | Count | | |
| Secondary Organics (ug/L) *** | | | | | | | | | | |
| Bromodichloromethane | 0.9 | 0.9 | 0.9 | 1 | 1.0 | 0.7 | 1.6 | 5 | (15) | 16 |
| Bromoform | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 5 | | |
| Chloroform | 28.0 | 28.0 | 28.0 | 1 | 18.8 | 7.8 | 35.1 | 5 | | |
| Dibromochloromethane | <0.50 | <0.50 | <0.50 | 1 | <0.60 | <0.50 | 1.00 | 5 | | |
| Dichlorobenzene (1,3) | <0.50 | <0.50 | <0.50 | 1 | <0.60 | <0.50 | 1.00 | 5 | | |
| Dichloroethylene, cis (1,2) | <0.50 | <0.50 | <0.50 | 1 | <0.60 | <0.50 | 1.00 | 5 | | |
| Dichloroethylene, trans (1,2) | <0.50 | <0.50 | <0.50 | 1 | <0.60 | <0.50 | 1.00 | 5 | | |
| Dichloropropane (1,2) | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 5 | | |
| Methyl t-Butyl Ether (MTBE) | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 5 | | |
| MIBK | <1.0 | <1.0 | <1.0 | 1 | <1.2 | <1.0 | 2.0 | 5 | | |
| Styrene | <0.50 | <0.50 | <0.50 | 1 | <0.60 | <0.50 | 1.00 | 5 | | |
| Tetrachloroethane (1,1,2,2) | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 5 | | |
| Total Organic Carbon | 1.7 | 1.7 | 1.7 | 1 | 1.7 | 0.9 | 2.5 | 18 | | |
| Total Volatile Organics (NonTHM) | 1.8 | 1.8 | 1.8 | 1 | <1.2 | <1.0 | 1.8 | 5 | | |
| Total Volatile Organics (Unknown) | | | | 0 | <0.5 | <0.5 | <0.5 | 1 | | |
| Trichlorobenzene (1,2,4) | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 5 | | |
| Trichloroethane (1,1,1) | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 5 | | |
| Xylene (1,2) | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 5 | | |
| Xylene (1,4) | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 5 | | |

TABLE EXPLANATIONS:

* Numbers with no brackets are Health Canada Guidelines for Canadian Drinking Water Quality (GCDWQ) Maximum Acceptable Concentrations (MAC) and/or a limit set out in the Alberta Environment and Parks (AEP) Operating Approval 638-04-01. Limits in brackets indicate Aesthetic Objectives or Operational Guidelines (OG) and are not Approval Limits. The EPCOR limits are internal limits set by EPCOR in the Operations Program.

** Primary parameters are those that have health-based limits (MACs) according the AEP Operating Approval 638-04-01

*** Secondary parameters do not have health-based limits but may have aesthetic or operational objectives

2.2.16 Papaschase 2 Reservoir

September 2024

| Parameter | | | | | | | | | Limits | |
|-------------------------------------|---------|--------|--------|-------|---------|---------|---------|-------|------------------------------------|---------------|
| | Monthly | | | | YTD | | | | *Approval or GCDWQ MAC, (AO or OG) | EPCOR |
| | Mean | Min | Max | Count | Mean | Min | Max | Count | | |
| Physical | | | | | | | | | | |
| Colour (TCU) | | | | 0 | 1.0 | 0.7 | 1.4 | 5 | (15) | 10 |
| Conductivity (uS/cm) | | | | 0 | 397 | 375 | 430 | 5 | | |
| Odour | | | | 0 | Inoff | Inoff | Inoff | 5 | | |
| pH (N/A) | 7.8 | 7.7 | 7.8 | 4 | 7.8 | 7.6 | 7.9 | 22 | (7.0 - 10.5) | 7.3 - 8.3 |
| Turbidity (NTU) | 0.15 | 0.11 | 0.23 | 4 | 0.11 | 0.05 | 0.26 | 39 | | 1 |
| Primary Inorganics (mg/L) ** | | | | | | | | | | |
| Antimony | | | | 0 | <0.0004 | <0.0002 | <0.0005 | 5 | 0.006 | |
| Arsenic | | | | 0 | <0.0002 | <0.0002 | 0.0003 | 5 | 0.01 | |
| Barium | | | | 0 | 0.062 | 0.055 | 0.067 | 5 | 2 | |
| Boron | | | | 0 | 0.010 | 0.008 | 0.013 | 5 | 2 | |
| Bromate Dissolved | | | | 0 | <0.005 | <0.003 | <0.005 | 5 | 0.01 | |
| Cadmium | | | | 0 | <0.0002 | <0.0002 | <0.0002 | 5 | 0.007 | |
| Chlorate Dissolved | | | | 0 | 0.200 | 0.108 | 0.300 | 5 | 1 | |
| Chlorite Dissolved | | | | 0 | <0.044 | <0.005 | <0.200 | 5 | 1 | |
| Chromium | | | | 0 | <0.0002 | <0.0002 | <0.0002 | 5 | 0.05 | |
| Copper | | | | 0 | <0.003 | <0.002 | <0.005 | 5 | 2 (1) | |
| Fluoride | | | | 0 | 0.70 | 0.66 | 0.74 | 5 | 1.5 | 0.6 - 0.8 |
| Lead | | | | 0 | <0.0002 | <0.0002 | <0.0002 | 5 | 0.005 | |
| Manganese | | | | 0 | <0.002 | <0.002 | <0.002 | 5 | 0.12 (0.02) | |
| Mercury | | | | 0 | <0.0002 | <0.0002 | <0.0002 | 5 | 0.001 | |
| Nitrate (as N) Dissolved | 0.015 | 0.010 | 0.020 | 4 | 0.043 | <0.010 | 0.170 | 23 | 10 | |
| Nitrite (as N) Dissolved | <0.010 | <0.010 | <0.010 | 4 | <0.009 | <0.005 | 0.010 | 23 | 1 | |
| Selenium | | | | 0 | 0.0003 | <0.0002 | 0.0003 | 5 | 0.05 | |
| Strontium | | | | 0 | 0.448 | 0.400 | 0.477 | 5 | 7.0 | |
| Total Chlorine | 1.90 | 1.78 | 2.06 | 4 | 1.95 | 1.73 | 2.17 | 39 | >0.5 and <3.0 | >1.0 and <2.4 |
| Uranium | | | | 0 | <0.0005 | <0.0005 | 0.0005 | 5 | 0.02 | |
| Primary Organics (ug/L) ** | | | | | | | | | | |
| Benzene | | | | 0 | <0.5 | <0.5 | <0.5 | 5 | 5 | |
| Carbon Tetrachloride | | | | 0 | <0.5 | <0.5 | <0.5 | 5 | 2 | |
| Chlorobenzene | | | | 0 | <0.50 | <0.50 | <0.50 | 5 | 80 (30) | |
| Dichlorobenzene (1,2) | | | | 0 | <0.50 | <0.50 | <0.50 | 5 | | |
| Dichlorobenzene (1,4) | | | | 0 | <0.5 | <0.5 | <0.5 | 5 | 5 (1) | |
| Dichloroethane (1,2) | | | | 0 | <0.5 | <0.5 | <0.5 | 5 | 5 | |
| Dichloroethylene (1,1) | | | | 0 | <0.5 | <0.5 | <0.5 | 5 | 14 | |
| Ethylbenzene | | | | 0 | <0.50 | <0.50 | <0.50 | 5 | 140 (1.6) | |
| Methylene Chloride | | | | 0 | <0.5 | <0.5 | <0.5 | 5 | 50 | |
| Tetrachloroethylene | | | | 0 | <0.5 | <0.5 | <0.5 | 5 | 10 | |
| Toluene | | | | 0 | <0.50 | <0.50 | <0.50 | 5 | 60 (24) | |
| Total Xylenes | | | | 0 | <1 | <1 | <1 | 5 | 90 | |
| Trichloroethylene | | | | 0 | <0.50 | <0.50 | <0.50 | 5 | 5 | |
| Vinyl Chloride | | | | 0 | <1.0 | <1.0 | <1.0 | 5 | 2 | |

2.2.16 Papaschase 2 Reservoir

September 2024

| Parameter | | | | | | | | | Limits | |
|--|---------|------|------|-------|---------|---------|---------|-------|--|---------|
| | Monthly | | | | YTD | | | | *Approval or GCDWQ MAC, (AO or OG) | EPCOR |
| | Mean | Min | Max | Count | Mean | Min | Max | Count | | |
| Secondary Inorganics (mg/L) *** | | | | | | | | | | |
| Alkalinity Total | | | | 0 | 117 | 109 | 128 | 5 | | |
| Aluminum | | | | 0 | 0.072 | 0.023 | 0.157 | 5 | 2.9 | 0.1/0.2 |
| Ammonia as NH3 | 0.18 | 0.15 | 0.20 | 4 | 0.18 | 0.13 | 0.21 | 21 | | |
| Beryllium | | | | 0 | <0.0002 | <0.0002 | <0.0002 | 5 | | |
| Bromide Dissolved | | | | 0 | <0.026 | <0.010 | <0.050 | 5 | | |
| Calcium | | | | 0 | 47.7 | 43.0 | 52.2 | 5 | | |
| Calcium Hardness | | | | 0 | 123 | 116 | 130 | 2 | | |
| Calcium Hardness Calculated | | | | 0 | 116 | 107 | 124 | 3 | | |
| Chloride Dissolved | | | | 0 | 6.6 | 5.8 | 7.2 | 5 | (250) | |
| Cobalt | | | | 0 | <0.0002 | <0.0002 | <0.0002 | 5 | | |
| Iron | | | | 0 | <0.005 | <0.005 | <0.005 | 5 | (0.3) | 0.3 |
| Lanthanum | | | | 0 | <0.0010 | <0.0010 | <0.0010 | 5 | | |
| Lithium | | | | 0 | 0.0038 | 0.0030 | 0.0044 | 5 | | |
| Magnesium | | | | 0 | 13.8 | 12.2 | 14.8 | 5 | | |
| Molybdenum | | | | 0 | 0.0008 | 0.0006 | 0.0010 | 5 | | |
| Nickel | | | | 0 | <0.0005 | <0.0005 | <0.0005 | 5 | | |
| Ortho_P | 0.88 | 0.84 | 0.92 | 8 | 0.87 | 0.80 | 0.92 | 34 | | |
| Phosphorus | | | | 0 | 0.95 | 0.89 | 0.98 | 5 | | |
| Potassium | | | | 0 | 0.84 | 0.70 | 1.10 | 5 | | |
| Silicon | | | | 0 | 1.95 | 1.55 | 2.14 | 5 | | |
| Silver | | | | 0 | <0.0002 | <0.0002 | <0.0002 | 5 | | |
| Sodium | | | | 0 | 11.0 | 7.0 | 17.1 | 5 | (200) | |
| Sulphate Dissolved | | | | 0 | 70.5 | 59.9 | 79.4 | 5 | (500) | |
| Thallium | | | | 0 | <0.0003 | <0.0002 | <0.0005 | 5 | | |
| Tin | | | | 0 | <0.0005 | <0.0005 | <0.0005 | 5 | | |
| Titanium | | | | 0 | <0.0005 | <0.0005 | <0.0005 | 5 | | |
| Total Hardness (mg/L CaCO3) | | | | 0 | 186 | 177 | 194 | 2 | | |
| Total Hardness Calculated | | | | 0 | 171 | 158 | 181 | 3 | | |
| Vanadium | | | | 0 | <0.0005 | <0.0005 | <0.0005 | 5 | | |
| Zinc | | | | 0 | <0.005 | <0.005 | <0.005 | 5 | (5.0) | |
| Zirconium | | | | 0 | <0.0010 | <0.0010 | <0.0010 | 5 | | |

2.2.16 Papaschase 2 Reservoir

September 2024

| Parameter | | | | | | | | | Limits | |
|--------------------------------------|---------|-----|-----|-------|-------|-------|-------|-------|------------------------------------|-------|
| | Monthly | | | | YTD | | | | *Approval or GCDWQ MAC, (AO or OG) | EPCOR |
| | Mean | Min | Max | Count | Mean | Min | Max | Count | | |
| Secondary Organics (ug/L) *** | | | | | | | | | | |
| Bromodichloromethane | | | | 0 | 1.4 | 0.8 | 2.2 | 5 | (15) | 16 |
| Bromoform | | | | 0 | <0.5 | <0.5 | <0.5 | 5 | | |
| Chloroform | | | | 0 | 19.5 | 9.9 | 26.9 | 5 | | |
| Dibromochloromethane | | | | 0 | <0.50 | <0.50 | <0.50 | 5 | | |
| Dichlorobenzene (1,3) | | | | 0 | <0.50 | <0.50 | <0.50 | 5 | | |
| Dichloroethylene, cis (1,2) | | | | 0 | <0.50 | <0.50 | <0.50 | 5 | | |
| Dichloroethylene, trans (1,2) | | | | 0 | <0.50 | <0.50 | <0.50 | 5 | | |
| Dichloropropane (1,2) | | | | 0 | <0.5 | <0.5 | <0.5 | 5 | | |
| Methyl t-Butyl Ether (MTBE) | | | | 0 | <0.5 | <0.5 | <0.5 | 5 | | |
| MIBK | | | | 0 | <1.0 | <1.0 | <1.0 | 5 | | |
| Styrene | | | | 0 | <0.50 | <0.50 | <0.50 | 5 | | |
| Tetrachloroethane (1,1,2,2) | | | | 0 | <0.5 | <0.5 | <0.5 | 5 | | |
| Total Organic Carbon | | | | 0 | 1.8 | 1.2 | 2.6 | 18 | | |
| Total Volatile Organics (NonTHM) | | | | 0 | 2.8 | <1.0 | 5.9 | 5 | | |
| Total Volatile Organics (Unknown) | | | | 0 | 0.6 | 0.6 | 0.6 | 1 | | |
| Trichlorobenzene (1,2,4) | | | | 0 | <0.5 | <0.5 | <0.5 | 5 | | |
| Trichloroethane (1,1,1) | | | | 0 | <0.5 | <0.5 | <0.5 | 5 | | |
| Xylene (1,2) | | | | 0 | <0.5 | <0.5 | <0.5 | 5 | | |
| Xylene (1,4) | | | | 0 | <0.5 | <0.5 | <0.5 | 5 | | |

TABLE EXPLANATIONS:

* Numbers with no brackets are Health Canada Guidelines for Canadian Drinking Water Quality (GCDWQ) Maximum Acceptable Concentrations (MAC) and/or a limit set out in the Alberta Environment and Parks (AEP) Operating Approval 638-04-01. Limits in brackets indicate Aesthetic Objectives or Operational Guidelines (OG) and are not Approval Limits. The EPCOR limits are internal limits set by EPCOR in the Operations Program.

** Primary parameters are those that have health-based limits (MACs) according the AEP Operating Approval 638-04-01

*** Secondary parameters do not have health-based limits but may have aesthetic or operational objectives

2.2.17 Rosslyn 1 Reservoir

September 2024

| Parameter | | | | | | | | | Limits | |
|-------------------------------------|---------|---------|---------|-------|---------|---------|---------|-------|------------------------------------|---------------|
| | Monthly | | | | YTD | | | | *Approval or GCDWQ MAC, (AO or OG) | EPCOR |
| | Mean | Min | Max | Count | Mean | Min | Max | Count | | |
| Physical | | | | | | | | | | |
| Colour (TCU) | 1.2 | 1.2 | 1.2 | 1 | 1.0 | 0.6 | 1.4 | 4 | (15) | 10 |
| Conductivity (uS/cm) | 404 | 404 | 404 | 1 | 402 | 397 | 408 | 4 | | |
| Odour | Inoff | Inoff | Inoff | 1 | Inoff | Inoff | Inoff | 4 | | |
| pH (N/A) | 7.8 | 7.8 | 7.8 | 4 | 7.8 | 7.7 | 8.1 | 20 | (7.0 - 10.5) | 7.3 - 8.3 |
| Turbidity (NTU) | 0.14 | 0.10 | 0.16 | 4 | 0.15 | 0.08 | 0.53 | 37 | | 1 |
| Primary Inorganics (mg/L) ** | | | | | | | | | | |
| Antimony | <0.0005 | <0.0005 | <0.0005 | 1 | <0.0004 | <0.0002 | <0.0005 | 4 | 0.006 | |
| Arsenic | 0.0002 | 0.0002 | 0.0002 | 1 | <0.0002 | <0.0002 | 0.0002 | 4 | 0.01 | |
| Barium | 0.067 | 0.067 | 0.067 | 1 | 0.061 | 0.053 | 0.069 | 4 | 2 | |
| Boron | 0.011 | 0.011 | 0.011 | 1 | 0.012 | 0.010 | 0.014 | 4 | 2 | |
| Bromate Dissolved | <0.005 | <0.005 | <0.005 | 1 | <0.005 | <0.005 | <0.005 | 5 | 0.01 | |
| Cadmium | <0.0002 | <0.0002 | <0.0002 | 1 | <0.0002 | <0.0002 | <0.0002 | 4 | 0.007 | |
| Chlorate Dissolved | 0.201 | 0.201 | 0.201 | 1 | 0.187 | 0.158 | 0.204 | 5 | 1 | |
| Chlorite Dissolved | <0.005 | <0.005 | <0.005 | 1 | <0.005 | <0.005 | <0.005 | 5 | 1 | |
| Chromium | <0.0002 | <0.0002 | <0.0002 | 1 | <0.0002 | <0.0002 | <0.0002 | 4 | 0.05 | |
| Copper | 0.002 | 0.002 | 0.002 | 1 | <0.003 | <0.002 | <0.005 | 4 | 2 (1) | |
| Fluoride | 0.67 | 0.67 | 0.67 | 1 | 0.69 | 0.66 | 0.73 | 4 | 1.5 | 0.6 - 0.8 |
| Lead | <0.0002 | <0.0002 | <0.0002 | 1 | <0.0002 | <0.0002 | <0.0002 | 4 | 0.005 | |
| Manganese | <0.002 | <0.002 | <0.002 | 1 | <0.002 | <0.002 | <0.002 | 4 | 0.12 (0.02) | |
| Mercury | <0.0002 | <0.0002 | <0.0002 | 1 | <0.0002 | <0.0002 | <0.0002 | 4 | 0.001 | |
| Nitrate (as N) Dissolved | 0.020 | 0.020 | 0.020 | 4 | 0.041 | 0.020 | 0.190 | 21 | 10 | |
| Nitrite (as N) Dissolved | <0.010 | <0.010 | <0.010 | 4 | <0.009 | <0.005 | 0.010 | 21 | 1 | |
| Selenium | 0.0002 | 0.0002 | 0.0002 | 1 | 0.0003 | 0.0002 | 0.0003 | 4 | 0.05 | |
| Strontium | 0.428 | 0.428 | 0.428 | 1 | 0.437 | 0.426 | 0.459 | 4 | 7.0 | |
| Total Chlorine | 1.66 | 1.56 | 1.76 | 4 | 1.80 | 1.55 | 2.07 | 37 | >0.5 and <3.0 | >1.0 and <2.4 |
| Uranium | <0.0005 | <0.0005 | <0.0005 | 1 | <0.0005 | <0.0005 | <0.0005 | 4 | 0.02 | |
| Primary Organics (ug/L) ** | | | | | | | | | | |
| Benzene | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 4 | 5 | |
| Carbon Tetrachloride | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 4 | 2 | |
| Chlorobenzene | <0.50 | <0.50 | <0.50 | 1 | <0.63 | <0.50 | 1.00 | 4 | 80 (30) | |
| Dichlorobenzene (1,2) | <0.50 | <0.50 | <0.50 | 1 | <0.63 | <0.50 | 1.00 | 4 | | |
| Dichlorobenzene (1,4) | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 4 | 5 (1) | |
| Dichloroethane (1,2) | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 4 | 5 | |
| Dichloroethylene (1,1) | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 4 | 14 | |
| Ethylbenzene | <0.50 | <0.50 | <0.50 | 1 | <0.63 | <0.50 | 1.00 | 4 | 140 (1.6) | |
| Methylene Chloride | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 4 | 50 | |
| Tetrachloroethylene | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 4 | 10 | |
| Toluene | <0.50 | <0.50 | <0.50 | 1 | <0.63 | <0.50 | 1.00 | 4 | 60 (24) | |
| Total Xylenes | <1 | <1 | <1 | 1 | <1 | <1 | <1 | 4 | 90 | |
| Trichloroethylene | <0.50 | <0.50 | <0.50 | 1 | <0.63 | <0.50 | 1.00 | 4 | 5 | |
| Vinyl Chloride | <1.0 | <1.0 | <1.0 | 1 | <1.3 | <1.0 | 2.0 | 4 | 2 | |

2.2.17 Rosslyn 1 Reservoir

September 2024

| Parameter | | | | | | | | | Limits | |
|--|---------|---------|---------|-------|---------|---------|---------|-------|------------------------------------|---------|
| | Monthly | | | | YTD | | | | *Approval or GCDWQ MAC, (AO or OG) | EPCOR |
| | Mean | Min | Max | Count | Mean | Min | Max | Count | | |
| Secondary Inorganics (mg/L) *** | | | | | | | | | | |
| Alkalinity Total | 114 | 114 | 114 | 1 | 117 | 112 | 122 | 4 | | |
| Aluminum | 0.073 | 0.073 | 0.073 | 1 | 0.055 | 0.020 | 0.096 | 4 | 2.9 | 0.1/0.2 |
| Ammonia as NH3 | 0.19 | 0.18 | 0.21 | 4 | 0.20 | 0.14 | 0.23 | 18 | | |
| Beryllium | <0.0002 | <0.0002 | <0.0002 | 1 | <0.0002 | <0.0002 | <0.0002 | 4 | | |
| Bromide Dissolved | <0.030 | <0.030 | <0.030 | 1 | <0.022 | <0.010 | <0.030 | | 5 | |
| Calcium | 47.1 | 47.1 | 47.1 | 1 | 47.8 | 45.2 | 49.8 | | 4 | |
| Calcium Hardness | | | | 0 | 122 | 122 | 122 | 1 | | |
| Calcium Hardness Calculated | 118 | 118 | 118 | 1 | 118 | 113 | 123 | 3 | | |
| Chloride Dissolved | 6.7 | 6.7 | 6.7 | 1 | 6.7 | 5.8 | 7.6 | 5 | (250) | |
| Cobalt | <0.0002 | <0.0002 | <0.0002 | 1 | <0.0002 | <0.0002 | <0.0002 | 4 | | |
| Iron | 0.007 | 0.007 | 0.007 | 1 | 0.008 | 0.007 | 0.011 | 4 | (0.3) | 0.3 |
| Lanthanum | <0.0010 | <0.0010 | <0.0010 | 1 | <0.0010 | <0.0010 | <0.0010 | 4 | | |
| Lithium | 0.0042 | 0.0042 | 0.0042 | 1 | 0.0038 | 0.0032 | 0.0042 | 4 | | |
| Magnesium | 13.3 | 13.3 | 13.3 | 1 | 13.9 | 13.3 | 14.6 | 4 | | |
| Molybdenum | 0.0007 | 0.0007 | 0.0007 | 1 | 0.0008 | 0.0007 | 0.0010 | | 4 | |
| Nickel | <0.0005 | <0.0005 | <0.0005 | 1 | <0.0005 | <0.0005 | <0.0005 | | 4 | |
| Ortho_P | 0.89 | 0.86 | 0.90 | 8 | 0.88 | 0.86 | 0.90 | 34 | | |
| Phosphorus | 1.00 | 1.00 | 1.00 | 1 | 0.97 | 0.91 | 1.00 | 4 | | |
| Potassium | 0.80 | 0.80 | 0.80 | 1 | 1.00 | 0.80 | 1.50 | 4 | | |
| Silicon | 2.29 | 2.29 | 2.29 | 1 | 2.17 | 1.76 | 2.35 | 4 | | |
| Silver | <0.0002 | <0.0002 | <0.0002 | 1 | <0.0002 | <0.0002 | <0.0002 | 4 | | |
| Sodium | 13.4 | 13.4 | 13.4 | 1 | 12.3 | 10.7 | 14.4 | 4 | (200) | |
| Sulphate Dissolved | 76.5 | 76.5 | 76.5 | 1 | 74.5 | 73.4 | 76.5 | 5 | (500) | |
| Thallium | <0.0002 | <0.0002 | <0.0002 | 1 | <0.0003 | <0.0002 | <0.0005 | 4 | | |
| Tin | <0.0005 | <0.0005 | <0.0005 | 1 | <0.0005 | <0.0005 | <0.0005 | 4 | | |
| Titanium | <0.0005 | <0.0005 | <0.0005 | 1 | <0.0005 | <0.0005 | <0.0005 | 4 | | |
| Total Hardness (mg/L CaCO3) | | | | 0 | 183 | 183 | 183 | 1 | | |
| Total Hardness Calculated | 172 | 172 | 172 | 1 | 174 | 168 | 181 | | 3 | |
| Vanadium | <0.0005 | <0.0005 | <0.0005 | 1 | <0.0005 | <0.0005 | <0.0005 | | 4 | |
| Zinc | <0.005 | <0.005 | <0.005 | 1 | <0.005 | <0.005 | <0.005 | 4 | (5.0) | |
| Zirconium | <0.0010 | <0.0010 | <0.0010 | 1 | <0.0010 | <0.0010 | <0.0010 | 4 | | |

2.2.17 Rosslyn 1 Reservoir

September 2024

| Parameter | | | | | | | | | Limits | |
|--------------------------------------|---------|-------|-------|-------|-------|-------|------|-------|------------------------------------|-------|
| | Monthly | | | | YTD | | | | *Approval or GCDWQ MAC, (AO or OG) | EPCOR |
| | Mean | Min | Max | Count | Mean | Min | Max | Count | | |
| Secondary Organics (ug/L) *** | | | | | | | | | | |
| Bromodichloromethane | 1.3 | 1.3 | 1.3 | 1 | 1.2 | 0.8 | 1.5 | 4 | (15) | 16 |
| Bromoform | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 4 | | |
| Chloroform | 34.2 | 34.2 | 34.2 | 1 | 22.6 | 8.9 | 34.2 | 4 | | |
| Dibromochloromethane | <0.50 | <0.50 | <0.50 | 1 | <0.63 | <0.50 | 1.00 | 4 | | |
| Dichlorobenzene (1,3) | <0.50 | <0.50 | <0.50 | 1 | <0.63 | <0.50 | 1.00 | 4 | | |
| Dichloroethylene, cis (1,2) | <0.50 | <0.50 | <0.50 | 1 | <0.63 | <0.50 | 1.00 | 4 | | |
| Dichloroethylene, trans (1,2) | <0.50 | <0.50 | <0.50 | 1 | <0.63 | <0.50 | 1.00 | 4 | | |
| Dichloropropane (1,2) | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 4 | | |
| Methyl t-Butyl Ether (MTBE) | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 4 | | |
| MIBK | <1.0 | <1.0 | <1.0 | 1 | <1.3 | <1.0 | 2.0 | 4 | | |
| Styrene | <0.50 | <0.50 | <0.50 | 1 | <0.63 | <0.50 | 1.00 | 4 | | |
| Tetrachloroethane (1,1,2,2) | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 4 | | |
| Total Organic Carbon | 1.9 | 1.9 | 1.9 | 1 | 1.7 | 1.0 | 2.5 | 17 | | |
| Total Volatile Organics (NonTHM) | 2.1 | 2.1 | 2.1 | 1 | <1.3 | <1.0 | 2.1 | 4 | | |
| Total Volatile Organics (Unknown) | | | | 0 | 1.0 | 1.0 | 1.0 | 1 | | |
| Trichlorobenzene (1,2,4) | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 4 | | |
| Trichloroethane (1,1,1) | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 4 | | |
| Xylene (1,2) | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 4 | | |
| Xylene (1,4) | <0.5 | <0.5 | <0.5 | 1 | <0.6 | <0.5 | 1.0 | 4 | | |

TABLE EXPLANATIONS:

* Numbers with no brackets are Health Canada Guidelines for Canadian Drinking Water Quality (GCDWQ) Maximum Acceptable Concentrations (MAC) and/or a limit set out in the Alberta Environment and Parks (AEP) Operating Approval 638-04-01. Limits in brackets indicate Aesthetic Objectives or Operational Guidelines (OG) and are not Approval Limits. The EPCOR limits are internal limits set by EPCOR in the Operations Program.

** Primary parameters are those that have health-based limits (MACs) according the AEP Operating Approval 638-04-01

*** Secondary parameters do not have health-based limits but may have aesthetic or operational objectives

2.2.18 Rosslyn 2 Reservoir

September 2024

| Parameter | | | | | | | | | Limits | |
|-------------------------------------|---------|--------|--------|-------|---------|---------|---------|-------|------------------------------------|---------------|
| | Monthly | | | | YTD | | | | *Approval or GCDWQ MAC, (AO or OG) | EPCOR |
| | Mean | Min | Max | Count | Mean | Min | Max | Count | | |
| Physical | | | | | | | | | | |
| Colour (TCU) | | | | 0 | 0.8 | 0.6 | 0.9 | 5 | (15) | 10 |
| Conductivity (uS/cm) | | | | 0 | 396 | 369 | 419 | 5 | | |
| Odour | | | | 0 | Inoff | Inoff | Inoff | 5 | | |
| pH (N/A) | 7.8 | 7.8 | 7.9 | 4 | 7.8 | 7.7 | 8.1 | 22 | (7.0 - 10.5) | 7.3 - 8.3 |
| Turbidity (NTU) | 0.10 | 0.07 | 0.12 | 4 | 0.11 | 0.07 | 0.18 | 39 | | 1 |
| Primary Inorganics (mg/L) ** | | | | | | | | | | |
| Antimony | | | | 0 | <0.0004 | <0.0002 | <0.0005 | 5 | 0.006 | |
| Arsenic | | | | 0 | <0.0002 | <0.0002 | 0.0003 | 5 | 0.01 | |
| Barium | | | | 0 | 0.062 | 0.054 | 0.067 | 5 | 2 | |
| Boron | | | | 0 | 0.010 | 0.008 | 0.012 | 5 | 2 | |
| Bromate Dissolved | | | | 0 | <0.005 | <0.003 | <0.005 | 6 | 0.01 | |
| Cadmium | | | | 0 | <0.0002 | <0.0002 | <0.0002 | 5 | 0.007 | |
| Chlorate Dissolved | | | | 0 | 0.190 | 0.147 | 0.206 | 6 | 1 | |
| Chlorite Dissolved | | | | 0 | <0.038 | <0.005 | <0.200 | 6 | 1 | |
| Chromium | | | | 0 | <0.0002 | <0.0002 | <0.0002 | 5 | 0.05 | |
| Copper | | | | 0 | <0.003 | <0.002 | <0.005 | 5 | 2 (1) | |
| Fluoride | | | | 0 | 0.68 | 0.67 | 0.71 | 5 | 1.5 | 0.6 - 0.8 |
| Lead | | | | 0 | <0.0002 | <0.0002 | <0.0002 | 5 | 0.005 | |
| Manganese | | | | 0 | <0.002 | <0.002 | <0.002 | 5 | 0.12 (0.02) | |
| Mercury | | | | 0 | <0.0002 | <0.0002 | <0.0002 | 5 | 0.001 | |
| Nitrate (as N) Dissolved | 0.020 | 0.020 | 0.020 | 4 | 0.042 | 0.020 | 0.170 | 22 | 10 | |
| Nitrite (as N) Dissolved | <0.010 | <0.010 | <0.010 | 4 | <0.009 | <0.005 | 0.010 | 22 | 1 | |
| Selenium | | | | 0 | 0.0003 | <0.0002 | 0.0003 | 5 | 0.05 | |
| Strontium | | | | 0 | 0.452 | 0.419 | 0.482 | 5 | 7.0 | |
| Total Chlorine | 1.43 | 1.30 | 1.62 | 4 | 1.68 | 1.30 | 2.08 | 39 | >0.5 and <3.0 | >1.0 and <2.4 |
| Uranium | | | | 0 | <0.0005 | <0.0005 | 0.0005 | 5 | 0.02 | |
| Primary Organics (ug/L) ** | | | | | | | | | | |
| Benzene | | | | 0 | <0.5 | <0.5 | <0.5 | 6 | 5 | |
| Carbon Tetrachloride | | | | 0 | <0.5 | <0.5 | <0.5 | 6 | 2 | |
| Chlorobenzene | | | | 0 | <0.50 | <0.50 | <0.50 | 6 | 80 (30) | |
| Dichlorobenzene (1,2) | | | | 0 | <0.50 | <0.50 | <0.50 | 6 | | |
| Dichlorobenzene (1,4) | | | | 0 | <0.5 | <0.5 | <0.5 | 6 | 5 (1) | |
| Dichloroethane (1,2) | | | | 0 | <0.5 | <0.5 | <0.5 | 6 | 5 | |
| Dichloroethylene (1,1) | | | | 0 | <0.5 | <0.5 | <0.5 | 6 | 14 | |
| Ethylbenzene | | | | 0 | <0.50 | <0.50 | <0.50 | 6 | 140 (1.6) | |
| Methylene Chloride | | | | 0 | <0.5 | <0.5 | <0.5 | 6 | 50 | |
| Tetrachloroethylene | | | | 0 | <0.5 | <0.5 | <0.5 | 6 | 10 | |
| Toluene | | | | 0 | <0.50 | <0.50 | <0.50 | 6 | 60 (24) | |
| Total Xylenes | | | | 0 | <1 | <1 | <1 | 6 | 90 | |
| Trichloroethylene | | | | 0 | <0.50 | <0.50 | <0.50 | 6 | 5 | |
| Vinyl Chloride | | | | 0 | <1.0 | <1.0 | <1.0 | 6 | 2 | |

2.2.18 Rosslyn 2 Reservoir

September 2024

| Parameter | | | | | | | | | Limits | |
|--|---------|------|------|-------|---------|---------|---------|-------|------------------------------------|---------|
| | Monthly | | | | YTD | | | | *Approval or GCDWQ MAC, (AO or OG) | EPCOR |
| | Mean | Min | Max | Count | Mean | Min | Max | Count | | |
| Secondary Inorganics (mg/L) *** | | | | | | | | | | |
| Alkalinity Total | | | | 0 | 119 | 111 | 127 | 5 | | |
| Aluminum | | | | 0 | 0.067 | 0.025 | 0.170 | 5 | 2.9 | 0.1/0.2 |
| Ammonia as NH3 | 0.23 | 0.20 | 0.25 | 4 | 0.22 | 0.17 | 0.27 | | 20 | |
| Beryllium | | | | 0 | <0.0002 | <0.0002 | <0.0002 | | 5 | |
| Bromide Dissolved | | | | 0 | <0.027 | <0.010 | <0.050 | 6 | | |
| Calcium | | | | 0 | 47.2 | 44.5 | 51.0 | 5 | | |
| Calcium Hardness | | | | 0 | 122 | 116 | 128 | 2 | | |
| Calcium Hardness Calculated | | | | 0 | 115 | 111 | 120 | 3 | | |
| Chloride Dissolved | | | | 0 | 6.4 | 5.6 | 7.4 | 6 | (250) | |
| Cobalt | | | | 0 | <0.0002 | <0.0002 | <0.0002 | 5 | | |
| Iron | | | | 0 | <0.005 | <0.005 | 0.007 | 5 | (0.3) | 0.3 |
| Lanthanum | | | | 0 | <0.0010 | <0.0010 | <0.0010 | 5 | | |
| Lithium | | | | 0 | 0.0036 | 0.0031 | 0.0042 | 5 | | |
| Magnesium | | | | 0 | 13.9 | 12.7 | 14.9 | 5 | | |
| Molybdenum | | | | 0 | 0.0008 | 0.0006 | 0.0009 | 5 | | |
| Nickel | | | | 0 | <0.0005 | <0.0005 | 0.0005 | 5 | | |
| Ortho_P | 0.88 | 0.86 | 0.90 | 8 | 0.88 | 0.84 | 0.92 | 34 | | |
| Phosphorus | | | | 0 | 0.96 | 0.90 | 0.99 | 5 | | |
| Potassium | | | | 0 | 0.84 | 0.70 | 1.00 | 5 | | |
| Silicon | | | | 0 | 1.93 | 1.70 | 2.14 | 5 | | |
| Silver | | | | 0 | <0.0002 | <0.0002 | <0.0002 | 5 | | |
| Sodium | | | | 0 | 11.3 | 7.1 | 16.5 | 5 | (200) | |
| Sulphate Dissolved | | | | 0 | 71.8 | 59.4 | 78.7 | 6 | (500) | |
| Thallium | | | | 0 | <0.0003 | <0.0002 | <0.0005 | 5 | | |
| Tin | | | | 0 | <0.0005 | <0.0005 | <0.0005 | 5 | | |
| Titanium | | | | 0 | <0.0005 | <0.0005 | <0.0005 | 5 | | |
| Total Hardness (mg/L CaCO3) | | | | 0 | 186 | 178 | 194 | 2 | | |
| Total Hardness Calculated | | | | 0 | 170 | 163 | 179 | 3 | | |
| Vanadium | | | | 0 | <0.0005 | <0.0005 | <0.0005 | 5 | | |
| Zinc | | | | 0 | <0.005 | <0.005 | <0.005 | 5 | (5.0) | |
| Zirconium | | | | 0 | <0.0010 | <0.0010 | <0.0010 | 5 | | |

2.2.18 Rosslyn 2 Reservoir

September 2024

| Parameter | | | | | | | | | Limits | |
|--------------------------------------|---------|-----|-----|-------|-------|-------|-------|-------|------------------------------------|-------|
| | Monthly | | | | YTD | | | | *Approval or GCDWQ MAC, (AO or OG) | EPCOR |
| | Mean | Min | Max | Count | Mean | Min | Max | Count | | |
| Secondary Organics (ug/L) *** | | | | | | | | | | |
| Bromodichloromethane | | | | 0 | 1.4 | 1.0 | 1.9 | 6 | (15) | 16 |
| Bromoform | | | | 0 | <0.5 | <0.5 | <0.5 | 6 | | |
| Chloroform | | | | 0 | 23.4 | 14.6 | 35.3 | 6 | | |
| Dibromochloromethane | | | | 0 | <0.50 | <0.50 | <0.50 | 6 | | |
| Dichlorobenzene (1,3) | | | | 0 | <0.50 | <0.50 | <0.50 | 6 | | |
| Dichloroethylene, cis (1,2) | | | | 0 | <0.50 | <0.50 | <0.50 | 6 | | |
| Dichloroethylene, trans (1,2) | | | | 0 | <0.50 | <0.50 | <0.50 | 6 | | |
| Dichloropropane (1,2) | | | | 0 | <0.5 | <0.5 | <0.5 | 6 | | |
| Methyl t-Butyl Ether (MTBE) | | | | 0 | <0.5 | <0.5 | <0.5 | 6 | | |
| MIBK | | | | 0 | <1.0 | <1.0 | <1.0 | 6 | | |
| Styrene | | | | 0 | <0.50 | <0.50 | <0.50 | 6 | | |
| Tetrachloroethane (1,1,2,2) | | | | 0 | <0.5 | <0.5 | <0.5 | 6 | | |
| Total Organic Carbon | | | | 0 | 1.8 | 1.3 | 2.4 | 18 | | |
| Total Volatile Organics (NonTHM) | | | | 0 | 2.1 | <1.0 | 3.8 | 6 | | |
| Total Volatile Organics (Unknown) | | | | 0 | 1.9 | 1.9 | 1.9 | 1 | | |
| Trichlorobenzene (1,2,4) | | | | 0 | <0.5 | <0.5 | <0.5 | 6 | | |
| Trichloroethane (1,1,1) | | | | 0 | <0.5 | <0.5 | <0.5 | 6 | | |
| Xylene (1,2) | | | | 0 | <0.5 | <0.5 | <0.5 | 6 | | |
| Xylene (1,4) | | | | 0 | <0.5 | <0.5 | <0.5 | 6 | | |

TABLE EXPLANATIONS:

* Numbers with no brackets are Health Canada Guidelines for Canadian Drinking Water Quality (GCDWQ) Maximum Acceptable Concentrations (MAC) and/or a limit set out in the Alberta Environment and Parks (AEP) Operating Approval 638-04-01. Limits in brackets indicate Aesthetic Objectives or Operational Guidelines (OG) and are not Approval Limits. The EPCOR limits are internal limits set by EPCOR in the Operations Program.

** Primary parameters are those that have health-based limits (MACs) according the AEP Operating Approval 638-04-01

*** Secondary parameters do not have health-based limits but may have aesthetic or operational objectives

2.2.19 Thornclyff Reservoir

September 2024

| Parameter | | | | | | | | | Limits | |
|-------------------------------------|---------|--------|--------|-------|---------|---------|---------|-------|------------------------------------|---------------|
| | Monthly | | | | YTD | | | | *Approval or GCDWQ MAC, (AO or OG) | EPCOR |
| | Mean | Min | Max | Count | Mean | Min | Max | Count | | |
| Physical | | | | | | | | | | |
| Colour (TCU) | | | | 0 | 0.8 | <0.5 | 1.1 | 5 | (15) | 10 |
| Conductivity (uS/cm) | | | | 0 | 400 | 368 | 420 | 5 | | |
| Odour | | | | 0 | Inoff | Inoff | Inoff | 5 | | |
| pH (N/A) | 7.8 | 7.7 | 7.8 | 4 | 7.8 | 7.6 | 8.0 | 22 | (7.0 - 10.5) | 7.3 - 8.3 |
| Turbidity (NTU) | 0.12 | 0.10 | 0.14 | 4 | 0.12 | 0.05 | 0.33 | 40 | | 1 |
| Primary Inorganics (mg/L) ** | | | | | | | | | | |
| Antimony | | | | 0 | <0.0004 | <0.0002 | <0.0005 | 5 | 0.006 | |
| Arsenic | | | | 0 | <0.0002 | <0.0002 | 0.0003 | 5 | 0.01 | |
| Barium | | | | 0 | 0.062 | 0.055 | 0.067 | 5 | 2 | |
| Boron | | | | 0 | 0.010 | 0.008 | 0.012 | 5 | 2 | |
| Bromate Dissolved | | | | 0 | <0.005 | <0.003 | <0.005 | 5 | 0.01 | |
| Cadmium | | | | 0 | <0.0002 | <0.0002 | <0.0002 | 5 | 0.007 | |
| Chlorate Dissolved | | | | 0 | 0.110 | <0.080 | 0.143 | 5 | 1 | |
| Chlorite Dissolved | | | | 0 | <0.044 | <0.005 | <0.200 | 5 | 1 | |
| Chromium | | | | 0 | <0.0002 | <0.0002 | <0.0002 | 5 | 0.05 | |
| Copper | | | | 0 | <0.003 | <0.002 | <0.005 | 5 | 2 (1) | |
| Fluoride | | | | 0 | 0.69 | 0.64 | 0.77 | 5 | 1.5 | 0.6 - 0.8 |
| Lead | | | | 0 | <0.0002 | <0.0002 | <0.0002 | 5 | 0.005 | |
| Manganese | | | | 0 | <0.002 | <0.002 | <0.002 | 5 | 0.12 (0.02) | |
| Mercury | | | | 0 | <0.0002 | <0.0002 | <0.0002 | 5 | 0.001 | |
| Nitrate (as N) Dissolved | 0.020 | 0.020 | 0.020 | 4 | 0.043 | <0.010 | 0.180 | 23 | 10 | |
| Nitrite (as N) Dissolved | <0.010 | <0.010 | <0.010 | 4 | <0.009 | <0.005 | 0.010 | 23 | 1 | |
| Selenium | | | | 0 | 0.0003 | 0.0002 | 0.0003 | 5 | 0.05 | |
| Strontium | | | | 0 | 0.446 | 0.413 | 0.476 | 5 | 7.0 | |
| Total Chlorine | 1.57 | 1.43 | 1.70 | 4 | 1.71 | 1.26 | 2.23 | 40 | >0.5 and <3.0 | >1.0 and <2.4 |
| Uranium | | | | 0 | <0.0005 | <0.0005 | 0.0005 | 5 | 0.02 | |
| Primary Organics (ug/L) ** | | | | | | | | | | |
| Benzene | | | | 0 | <0.6 | <0.5 | 1.0 | 5 | 5 | |
| Carbon Tetrachloride | | | | 0 | <0.6 | <0.5 | 1.0 | 5 | 2 | |
| Chlorobenzene | | | | 0 | <0.60 | <0.50 | 1.00 | 5 | 80 (30) | |
| Dichlorobenzene (1,2) | | | | 0 | <0.60 | <0.50 | 1.00 | 5 | | |
| Dichlorobenzene (1,4) | | | | 0 | <0.6 | <0.5 | 1.0 | 5 | 5 (1) | |
| Dichloroethane (1,2) | | | | 0 | <0.6 | <0.5 | 1.0 | 5 | 5 | |
| Dichloroethylene (1,1) | | | | 0 | <0.6 | <0.5 | 1.0 | 5 | 14 | |
| Ethylbenzene | | | | 0 | <0.60 | <0.50 | 1.00 | 5 | 140 (1.6) | |
| Methylene Chloride | | | | 0 | <0.6 | <0.5 | 1.0 | 5 | 50 | |
| Tetrachloroethylene | | | | 0 | <0.6 | <0.5 | 1.0 | 5 | 10 | |
| Toluene | | | | 0 | <0.60 | <0.50 | 1.00 | 5 | 60 (24) | |
| Total Xylenes | | | | 0 | <1 | <1 | <1 | 5 | 90 | |
| Trichloroethylene | | | | 0 | <0.60 | <0.50 | 1.00 | 5 | 5 | |
| Vinyl Chloride | | | | 0 | <1.2 | <1.0 | 2.0 | 5 | 2 | |

2.2.19 Thornclyff Reservoir

September 2024

| Parameter | | | | | | | | | Limits | |
|--|---------|------|------|-------|---------|---------|---------|-------|------------------------------------|---------|
| | Monthly | | | | YTD | | | | *Approval or GCDWQ MAC, (AO or OG) | EPCOR |
| | Mean | Min | Max | Count | Mean | Min | Max | Count | | |
| Secondary Inorganics (mg/L) *** | | | | | | | | | | |
| Alkalinity Total | | | | 0 | 117 | 110 | 129 | 5 | | |
| Aluminum | | | | 0 | 0.079 | 0.027 | 0.194 | 5 | 2.9 | 0.1/0.2 |
| Ammonia as NH3 | 0.20 | 0.18 | 0.22 | 4 | 0.20 | 0.15 | 0.26 | 4 | 21 | |
| Beryllium | | | | 0 | <0.0002 | <0.0002 | <0.0002 | 5 | 5 | |
| Bromide Dissolved | | | | 0 | <0.026 | <0.010 | <0.050 | 5 | | |
| Calcium | | | | 0 | 46.9 | 43.7 | 50.4 | 5 | | |
| Calcium Hardness | | | | 0 | 122 | 116 | 128 | 2 | | |
| Calcium Hardness Calculated | | | | 0 | 114 | 109 | 119 | 3 | | |
| Chloride Dissolved | | | | 0 | 6.9 | 6.0 | 8.1 | 5 | (250) | |
| Cobalt | | | | 0 | <0.0002 | <0.0002 | <0.0002 | 5 | | |
| Iron | | | | 0 | <0.005 | <0.005 | <0.005 | 5 | (0.3) | 0.3 |
| Lanthanum | | | | 0 | <0.0010 | <0.0010 | <0.0010 | 5 | | |
| Lithium | | | | 0 | 0.0034 | 0.0030 | 0.0040 | 5 | | |
| Magnesium | | | | 0 | 13.8 | 12.4 | 14.7 | 5 | | |
| Molybdenum | | | | 0 | 0.0008 | 0.0006 | 0.0009 | 5 | | |
| Nickel | | | | 0 | <0.0005 | <0.0005 | 0.0005 | 5 | | |
| Ortho_P | 0.91 | 0.88 | 0.94 | 8 | 0.89 | 0.66 | 0.94 | 40 | | |
| Phosphorus | | | | 0 | 0.98 | 0.93 | 1.01 | 5 | | |
| Potassium | | | | 0 | 0.84 | 0.70 | 1.00 | 5 | | |
| Silicon | | | | 0 | 1.94 | 1.72 | 2.11 | 5 | | |
| Silver | | | | 0 | <0.0002 | <0.0002 | <0.0002 | 5 | | |
| Sodium | | | | 0 | 13.0 | 7.3 | 18.3 | 5 | (200) | |
| Sulphate Dissolved | | | | 0 | 72.7 | 59.6 | 79.7 | 5 | (500) | |
| Thallium | | | | 0 | <0.0003 | <0.0002 | <0.0005 | 5 | | |
| Tin | | | | 0 | <0.0005 | <0.0005 | <0.0005 | 5 | | |
| Titanium | | | | 0 | <0.0005 | <0.0005 | <0.0005 | 5 | | |
| Total Hardness (mg/L CaCO3) | | | | 0 | 182 | 174 | 189 | 2 | | |
| Total Hardness Calculated | | | | 0 | 169 | 160 | 178 | 3 | | |
| Vanadium | | | | 0 | <0.0005 | <0.0005 | <0.0005 | 5 | | |
| Zinc | | | | 0 | <0.005 | <0.005 | <0.005 | 5 | (5.0) | |
| Zirconium | | | | 0 | <0.0010 | <0.0010 | <0.0010 | 5 | | |

2.2.19 Thornclyff Reservoir

September 2024

| Parameter | | | | | | | | | Limits | |
|--------------------------------------|---------|-----|-----|-------|-------|-------|------|-------|------------------------------------|-------|
| | Monthly | | | | YTD | | | | *Approval or GCDWQ MAC, (AO or OG) | EPCOR |
| | Mean | Min | Max | Count | Mean | Min | Max | Count | | |
| Secondary Organics (ug/L) *** | | | | | | | | | | |
| Bromodichloromethane | | | | 0 | 1.4 | 0.8 | 2.1 | 5 | (15) | 16 |
| Bromoform | | | | 0 | <0.6 | <0.5 | 1.0 | 5 | | |
| Chloroform | | | | 0 | 21.6 | 10.9 | 31.1 | 5 | | |
| Dibromochloromethane | | | | 0 | <0.60 | <0.50 | 1.00 | 5 | | |
| Dichlorobenzene (1,3) | | | | 0 | <0.60 | <0.50 | 1.00 | 5 | | |
| Dichloroethylene, cis (1,2) | | | | 0 | <0.60 | <0.50 | 1.00 | 5 | | |
| Dichloroethylene, trans (1,2) | | | | 0 | <0.60 | <0.50 | 1.00 | 5 | | |
| Dichloropropane (1,2) | | | | 0 | <0.6 | <0.5 | 1.0 | 5 | | |
| Methyl t-Butyl Ether (MTBE) | | | | 0 | <0.6 | <0.5 | 1.0 | 5 | | |
| MIBK | | | | 0 | <1.2 | <1.0 | 2.0 | 5 | | |
| Styrene | | | | 0 | <0.60 | <0.50 | 1.00 | 5 | | |
| Tetrachloroethane (1,1,2,2) | | | | 0 | <0.6 | <0.5 | 1.0 | 5 | | |
| Total Organic Carbon | | | | 0 | 1.8 | 1.2 | 2.3 | 18 | | |
| Total Volatile Organics (NonTHM) | | | | 0 | 2.2 | <1.0 | 3.7 | 5 | | |
| Total Volatile Organics (Unknown) | | | | 0 | 1.2 | 1.2 | 1.2 | 1 | | |
| Trichlorobenzene (1,2,4) | | | | 0 | <0.6 | <0.5 | 1.0 | 5 | | |
| Trichloroethane (1,1,1) | | | | 0 | <0.6 | <0.5 | 1.0 | 5 | | |
| Xylene (1,2) | | | | 0 | <0.6 | <0.5 | 1.0 | 5 | | |
| Xylene (1,4) | | | | 0 | <0.6 | <0.5 | 1.0 | 5 | | |

TABLE EXPLANATIONS:

* Numbers with no brackets are Health Canada Guidelines for Canadian Drinking Water Quality (GCDWQ) Maximum Acceptable Concentrations (MAC) and/or a limit set out in the Alberta Environment and Parks (AEP) Operating Approval 638-04-01. Limits in brackets indicate Aesthetic Objectives or Operational Guidelines (OG) and are not Approval Limits. The EPCOR limits are internal limits set by EPCOR in the Operations Program.

** Primary parameters are those that have health-based limits (MACs) according the AEP Operating Approval 638-04-01

*** Secondary parameters do not have health-based limits but may have aesthetic or operational objectives

**2.2.20 Routine Distribution System, Field Reservoirs, Fire stations and Staff Residences
Disinfection Byproducts, THM, HAA, NDMA**

September 2024

| Parameter or Location | | | | | | | | | | | | | Limits | |
|-----------------------|---------|------|------|-------------|------|------|------|-------|-------------------|------|------|-------|--|---------------------|
| | Monthly | | | | YTD | | | | 12 months running | | | | GCDWQ or Approval or MAC* or (AO or OG) 12 month running | EPCOR single result |
| | Mean | Min | Max | Count | Mean | Min | Max | Count | Mean | Min | Max | Count | | |
| HAA (ug/L) | | | | | | | | | | | | | 80 | 40 |
| | 25.6 | 23.9 | 26.9 | 4 | 21.7 | 13.9 | 32.7 | 12 | 21.7 | 13.9 | 32.7 | 12 | | |
| 01-SR | | | | 0 | 21.8 | 16.8 | 26.7 | 2 | 21.8 | 16.8 | 26.7 | 2 | | |
| 02-SR | | | | 0 | 30.5 | 19.8 | 41.1 | 2 | 28.8 | 19.8 | 41.1 | 3 | | |
| 03-SR | | | | 0 | | | | 0 | 19.6 | 19.6 | 19.6 | 1 | | |
| 04-SR | | | | 0 | 26.3 | 19.1 | 36.2 | 4 | 24.9 | 19.1 | 36.2 | 5 | | |
| 07-RI | | | | 0 | 16.6 | 14.2 | 19.0 | 2 | 16.2 | 14.2 | 19.0 | 3 | | |
| 07-SR | | | | 0 | 15.0 | 12.9 | 17.0 | 2 | 18.1 | 12.9 | 24.5 | 3 | | |
| 10-SR | | | | 0 | | | | 0 | 21.5 | 21.5 | 21.5 | 1 | | |
| 15-SR | | | | 0 | | | | 0 | 14.2 | 14.2 | 14.2 | 1 | | |
| 19-SR | | | | 0 | 49.3 | 49.3 | 49.3 | 1 | 49.3 | 49.3 | 49.3 | 1 | | |
| 20-DE | | | | 0 | 29.3 | 29.3 | 29.3 | 1 | 29.3 | 29.3 | 29.3 | 1 | | |
| 21-DE | | | | 0 | 16.3 | 16.3 | 16.3 | 1 | 16.3 | 16.3 | 16.3 | 1 | | |
| 21-SR | | | | 0 | | | | 0 | 19.0 | 16.8 | 21.1 | 2 | | |
| 22-DE | 25.9 | 25.9 | 25.9 | 1 | 25.9 | 25.9 | 25.9 | 1 | 25.9 | 25.9 | 25.9 | 1 | | |
| 24-SR | | | | 0 | 17.3 | 14.0 | 20.5 | 2 | 17.3 | 14.0 | 20.5 | 2 | | |
| 26-DE | | | | 0 | | | | 0 | 19.7 | 17.7 | 21.7 | 2 | | |
| 27-SR | | | | 0 | | | | 0 | 18.0 | 18.0 | 18.0 | 1 | | |
| 30-SR | | | | 0 | 23.0 | 11.3 | 33.1 | 4 | 23.0 | 11.3 | 33.1 | 4 | | |
| 31-DE | | | | 0 | 17.6 | 14.7 | 20.5 | 2 | 18.2 | 13.4 | 24.0 | 4 | | |
| 31-RI | | | | 0 | 23.7 | 14.0 | 34.8 | 4 | 23.9 | 14.0 | 34.8 | 5 | | |
| 32-SR | | | | 0 | 27.9 | 18.4 | 37.4 | 2 | 28.5 | 18.4 | 37.4 | 3 | | |
| 37-SR | | | | 0 | 27.3 | 27.3 | 27.3 | 1 | 27.3 | 27.3 | 27.3 | 1 | | |
| 40-SR | | | | 0 | 19.8 | 12.0 | 29.5 | 5 | 20.8 | 12.0 | 29.5 | 7 | | |
| 41-DE | 26.9 | 26.9 | 26.9 | 1 | 26.9 | 26.9 | 26.9 | 1 | 26.9 | 26.9 | 26.9 | 1 | | |
| 41-SR | | | | 0 | 12.6 | 12.6 | 12.6 | 1 | 12.6 | 12.6 | 12.6 | 1 | | |
| 7-RI | | | | 0 | 24.8 | 24.8 | 24.8 | 1 | 24.8 | 24.8 | 24.8 | 1 | | |
| EDMONTON S4 | | | | 0 | 32.7 | 15.7 | 49.6 | 2 | 32.7 | 15.7 | 49.6 | 2 | | |
| | | | | Total Count | | | | 6 | | | | 53 | | 71 |

**2.2.20 Routine Distribution System, Field Reservoirs, Fire stations and Staff Residences
Disinfection Byproducts, THM, HAA, NDMA**

September 2024

| Parameter or Location | | | | | | | | | | | | | Limits | |
|-----------------------|---------|--------|--------|-------------|--------|--------|--------|-------|-------------------|--------|--------|-------|--|---------------------|
| | Monthly | | | | YTD | | | | 12 months running | | | | GCDWQ or Approval or MAC* or (AO or OG) 12 month running | EPCOR single result |
| | Mean | Min | Max | Count | Mean | Min | Max | Count | Mean | Min | Max | Count | | |
| NDMA (ug/L) | | | | | | | | | | | | | 0.040 | 0.01 |
| | <0.006 | <0.006 | <0.006 | 1 | <0.003 | <0.001 | <0.006 | 6 | <0.003 | <0.001 | <0.006 | 6 | | |
| 03-SR | | | | 0 | | | | 0 | 0.002 | 0.002 | 0.002 | 1 | | |
| 04-SR | | | | 0 | <0.006 | <0.006 | <0.006 | 1 | <0.006 | <0.006 | <0.006 | 1 | | |
| 07-RI | | | | 0 | <0.001 | <0.001 | <0.001 | 1 | <0.001 | <0.001 | <0.001 | 1 | | |
| 07-SR | | | | 0 | <0.002 | <0.002 | <0.002 | 1 | <0.002 | <0.002 | <0.002 | 1 | | |
| 20-DE | | | | 0 | <0.003 | <0.003 | <0.003 | 1 | <0.003 | <0.003 | <0.003 | 1 | | |
| 20-OF | | | | 0 | | | | 0 | <0.002 | <0.002 | <0.002 | 1 | | |
| 21-DE | | | | 0 | <0.005 | <0.005 | <0.005 | 1 | <0.005 | <0.005 | <0.005 | 1 | | |
| 21-SR | | | | 0 | | | | 0 | <0.001 | <0.001 | <0.001 | 1 | | |
| 22-DE | <0.004 | <0.004 | <0.004 | 1 | <0.004 | <0.004 | <0.004 | 1 | <0.004 | <0.004 | <0.004 | 1 | | |
| 24-SR | | | | 0 | <0.002 | <0.001 | <0.002 | 2 | <0.002 | <0.001 | <0.002 | 2 | | |
| 26-DE | | | | 0 | | | | 0 | <0.002 | <0.001 | <0.002 | 2 | | |
| 30-SR | | | | 0 | <0.004 | <0.003 | <0.005 | 2 | <0.004 | <0.003 | <0.005 | 2 | | |
| 31-DE | | | | 0 | <0.006 | <0.006 | <0.006 | 1 | <0.006 | <0.002 | 0.011 | 3 | | |
| 31-RI | | | | 0 | <0.005 | <0.003 | 0.007 | 3 | <0.005 | <0.003 | 0.007 | 3 | | |
| 40-SR | | | | 0 | <0.004 | <0.002 | <0.006 | 3 | <0.003 | <0.002 | <0.006 | 5 | | |
| 41-DE | <0.006 | <0.006 | <0.006 | 1 | <0.006 | <0.006 | <0.006 | 1 | <0.006 | <0.006 | <0.006 | 1 | | |
| 7-RI | | | | 0 | <0.005 | <0.005 | <0.005 | 1 | <0.005 | <0.005 | <0.005 | 1 | | |
| EDMONTON S4 | | | | 0 | <0.001 | <0.001 | <0.002 | 2 | <0.001 | <0.001 | <0.002 | 2 | | |
| | | | | Total Count | | | | 3 | | | | 27 | | |
| | | | | | | | | | | | | 36 | | |

**2.2.20 Routine Distribution System, Field Reservoirs, Fire stations and Staff Residences
Disinfection Byproducts, THM, HAA, NDMA**

September 2024

| Parameter or Location | | | | | | | | | | | | | Limits | |
|-------------------------------|-------------|------|------|-------|------|------|------|-------|-------------------|------|------|-------|--|---------------------|
| | Monthly | | | | YTD | | | | 12 months running | | | | GCDWQ or Approval or MAC* or (AO or OG) 12 month running | EPCOR single result |
| | Mean | Min | Max | Count | Mean | Min | Max | Count | Mean | Min | Max | Count | | |
| Trihalomethanes (ug/L) | | | | | | | | | | | | | 100 | 50 |
| Castledowns Reservoir | 31.5 | 31.5 | 31.5 | 1 | 23.8 | 7.8 | 36.2 | 4 | 21.9 | 7.8 | 36.2 | 6 | | |
| Clareview Reservoir | | | | 0 | 25.1 | 15.4 | 36.9 | 5 | 24.4 | 15.4 | 36.9 | 6 | | |
| Discovery Park Reservoir | | | | 0 | 25.0 | 13.1 | 39.7 | 6 | 24.5 | 13.1 | 39.7 | 7 | | |
| Kaskitayo Reservoir | | | | 0 | 22.2 | 10.8 | 33.4 | 4 | 21.8 | 10.8 | 33.4 | 5 | | |
| Londonderry Reservoir | 35.8 | 35.8 | 35.8 | 1 | 24.1 | 9.8 | 35.8 | 4 | 23.0 | 9.8 | 35.8 | 6 | | |
| Millwoods Reservoir | 34.9 | 34.9 | 34.9 | 1 | 20.7 | 7.8 | 38.3 | 6 | 20.3 | 7.8 | 38.3 | 8 | | |
| North Jasper Place Reservoir | | | | 0 | 24.4 | 14.0 | 37.9 | 5 | 24.2 | 14.0 | 37.9 | 6 | | |
| Ormsby Reservoir | 32.4 | 32.4 | 32.4 | 1 | 20.0 | 7.7 | 39.0 | 5 | 19.9 | 7.7 | 39.0 | 7 | | |
| Papaschase Reservoir 1 | 29.1 | 29.1 | 29.1 | 1 | 19.8 | 8.8 | 35.4 | 5 | 20.4 | 8.8 | 35.4 | 8 | | |
| Papaschase Reservoir 2 | | | | 0 | 21.2 | 11.0 | 28.8 | 5 | 21.1 | 11.0 | 28.8 | 6 | | |
| Rosslyn Reservoir 1 | 35.7 | 35.7 | 35.7 | 1 | 23.8 | 10.0 | 35.7 | 4 | 23.1 | 10.0 | 35.7 | 6 | | |
| Rosslyn Reservoir 2 | | | | 0 | 25.2 | 16.1 | 37.5 | 6 | 24.4 | 16.1 | 37.5 | 7 | | |
| Thornclyff Reservoir | | | | 0 | 23.2 | 12.2 | 32.9 | 5 | 23.1 | 12.2 | 32.9 | 6 | | |
| | Total Count | | | 6 | | | | 64 | | | | 84 | | |

**2.2.20 Routine Distribution System, Field Reservoirs, Fire stations and Staff Residences
Disinfection Byproducts, THM, HAA, NDMA**

September 2024

| Parameter or Location | | | | | | | | | | | | | Limits | |
|-----------------------|---------|-----|-----|-------|------|------|------|-------|-------------------|------|------|-------|--|---------------------|
| | Monthly | | | | YTD | | | | 12 months running | | | | GCDWQ or Approval or MAC* or (AO or OG) 12 month running | EPCOR single result |
| | Mean | Min | Max | Count | Mean | Min | Max | Count | Mean | Min | Max | Count | | |
| | | | | 0 | 20.0 | 12.5 | 40.7 | 8 | 20.0 | 12.5 | 40.7 | 8 | | |
| | | | | 0 | | | | 8 | | | | 8 | | |
| | | | | 0 | | | | 8 | | | | 8 | | |

Location Code: City is divided into 28 zones by population. Location is coded by zone and site type.

- DE - Dead End
- FS - Firestation
- KT - Key Tap
- OF - Other Facilities (stores / Restaurant)
- PF - Plant First Customer (Guardhouse)
- PR - Private Residence (Non-Staff)
- RI - Regional Influent

2.2.21 Raw River Water: Physical, Inorganic, Organic and Pesticide Parameters

September 2024

| | Current Month | | | | | | | | YTD | | | | | | | |
|-------------------------------|---------------|----------|----------|-------|------------|---------|---------|-------|----------|----------|---------|-------|------------|----------|---------|-------|
| | ROSSDALE | | | | E.L. SMITH | | | | ROSSDALE | | | | E.L. SMITH | | | |
| | Mean | Min | Max | Count | Mean | Min | Max | Count | Mean | Min | Max | Count | Mean | Min | Max | Count |
| Microbiologicals | | | | | | | | | | | | | | | | |
| Microcystin | | | | 0 | | | | 0 | <0.2 | <0.2 | <0.2 | 3 | <0.2 | <0.2 | <0.2 | 3 |
| Physical | | | | | | | | | | | | | | | | |
| Colour (TCU) | 7.0 | 3.9 | 18.4 | 29 | 7.4 | 4.3 | 23.4 | 30 | 9.9 | 3.9 | 43.8 | 270 | 10.1 | 4.2 | 43.6 | 273 |
| Conductivity (uS/cm) | 357 | 351 | 362 | 4 | 354 | 348 | 361 | 4 | 361 | 311 | 415 | 39 | 355 | 311 | 416 | 39 |
| FPA-Intensity (N/A) | 0.53 | 0.31 | 0.69 | 4 | 0.63 | 0.31 | 0.94 | 4 | 0.78 | 0.25 | 2.38 | 49 | 0.83 | 0.31 | 2.25 | 49 |
| pH (N/A) | 8.4 | 8.4 | 8.4 | 1 | 8.4 | 8.4 | 8.4 | 1 | 8.2 | 8.1 | 8.4 | 9 | 8.3 | 8.1 | 8.4 | 9 |
| Total Dissolved Solids (mg/L) | 292 | 292 | 292 | 1 | 185 | 185 | 185 | 1 | 219 | 186 | 292 | 9 | 207 | 184 | 240 | 9 |
| Total Suspended Solids | <2.5 | <2.5 | <2.5 | 1 | 3.4 | 3.4 | 3.4 | 1 | 16.4 | <2.5 | 53.7 | 9 | 31.0 | <2.5 | 154.0 | 9 |
| Turbidity (NTU) | 5 | 1 | 49 | 29 | 8 | 2 | 43 | 30 | 10 | 1 | 367 | 270 | 13 | 1 | 257 | 273 |
| Primary Inorganics (mg/L) ** | | | | | | | | | | | | | | | | |
| Antimony | <0.0005 | <0.0005 | <0.0005 | 1 | <0.0005 | <0.0005 | <0.0005 | 1 | <0.0004 | <0.0002 | 0.0005 | 9 | <0.0004 | <0.0002 | <0.0005 | 9 |
| Arsenic | 0.0003 | 0.0003 | 0.0003 | 1 | 0.0003 | 0.0003 | 0.0003 | 1 | 0.0005 | 0.0002 | 0.0011 | 9 | 0.0006 | 0.0002 | 0.0022 | 9 |
| Barium | 0.068 | 0.068 | 0.068 | 1 | 0.068 | 0.068 | 0.068 | 1 | 0.077 | 0.058 | 0.125 | 9 | 0.084 | 0.057 | 0.180 | 9 |
| Boron | 0.010 | 0.010 | 0.010 | 1 | 0.010 | 0.010 | 0.010 | 1 | 0.012 | 0.009 | 0.018 | 9 | 0.012 | 0.008 | 0.022 | 9 |
| Cadmium^ | | | | 0 | | | | 0 | <0.0002 | <0.0002 | <0.0002 | 3 | <0.0002 | <0.0002 | <0.0002 | 3 |
| Cadmium^^ | <0.00002 | <0.00002 | <0.00002 | 1 | 0.00003 | 0.00003 | 0.00003 | 1 | <0.00003 | <0.00002 | 0.00004 | 6 | 0.00004 | <0.00002 | 0.00008 | 6 |
| Chromium | <0.0002 | <0.0002 | <0.0002 | 1 | 0.0004 | 0.0004 | 0.0004 | 1 | 0.0013 | <0.0002 | 0.0053 | 9 | 0.0019 | <0.0002 | 0.0099 | 9 |
| Copper | <0.002 | <0.002 | <0.002 | 1 | <0.002 | <0.002 | <0.002 | 1 | <0.004 | <0.002 | 0.005 | 9 | <0.004 | <0.002 | 0.006 | 9 |
| Fluoride | 0.12 | 0.10 | 0.15 | 4 | 0.12 | 0.11 | 0.12 | 4 | 0.11 | 0.08 | 0.15 | 39 | 0.11 | 0.08 | 0.13 | 39 |
| Lead | <0.0002 | <0.0002 | <0.0002 | 1 | <0.0002 | <0.0002 | <0.0002 | 1 | 0.0005 | <0.0002 | 0.0013 | 9 | 0.0006 | <0.0002 | 0.0027 | 9 |
| Manganese | 0.003 | 0.003 | 0.003 | 1 | 0.005 | 0.005 | 0.005 | 1 | 0.015 | <0.002 | 0.050 | 9 | 0.021 | 0.003 | 0.080 | 9 |
| Mercury | <0.0002 | <0.0002 | <0.0002 | 1 | <0.0002 | <0.0002 | <0.0002 | 1 | <0.0010 | <0.0001 | <0.0050 | 12 | <0.0010 | <0.0001 | <0.0050 | 12 |
| Nitrate (as N) Dissolved | <0.01 | <0.01 | 0.02 | 4 | <0.01 | <0.01 | 0.01 | 4 | 0.06 | <0.01 | 0.19 | 39 | 0.05 | <0.01 | 0.18 | 39 |
| Nitrite (as N) Dissolved | <0.010 | <0.010 | <0.010 | 4 | <0.010 | <0.010 | <0.010 | 4 | <0.009 | <0.005 | <0.010 | 39 | <0.009 | <0.005 | <0.010 | 39 |
| Selenium | 0.0003 | 0.0003 | 0.0003 | 1 | 0.0003 | 0.0003 | 0.0003 | 1 | 0.0003 | 0.0002 | 0.0004 | 9 | 0.0003 | <0.0002 | 0.0005 | 9 |
| Total Chlorine | <0.03 | <0.03 | <0.03 | 1 | <0.03 | <0.03 | <0.03 | 1 | <0.03 | <0.03 | <0.03 | 9 | <0.03 | <0.03 | <0.03 | 9 |
| Uranium | <0.0005 | <0.0005 | <0.0005 | 1 | <0.0005 | <0.0005 | <0.0005 | 1 | 0.0006 | <0.0005 | 0.0007 | 9 | <0.0006 | <0.0005 | 0.0008 | 9 |

2.2.21 Raw River Water: Physical, Inorganic, Organic and Pesticide Parameters

September 2024

| | Current Month | | | | | | | | YTD | | | | | | | |
|--------------------------------------|---------------|------|------|-------|------------|------|------|-------|----------|-----------|---------|-------|------------|----------|----------|-------|
| | ROSSDALE | | | | E.L. SMITH | | | | ROSSDALE | | | | E.L. SMITH | | | |
| | Mean | Min | Max | Count | Mean | Min | Max | Count | Mean | Min | Max | Count | Mean | Min | Max | Count |
| Primary Organics (ug/L) ** | | | | | | | | | | | | | | | | |
| 2,4-D | | | | 0 | | | | 0 | <0.12 | <0.05 | <0.25 | 3 | <0.12 | <0.05 | <0.25 | 3 |
| Atrazine | | | | 0 | | | | 0 | <0.05 | <0.05 | <0.05 | 3 | <0.05 | <0.05 | <0.05 | 3 |
| Benzene | <0.5 | <0.5 | <0.5 | 29 | <0.5 | <0.5 | <0.5 | 30 | <0.5 | <0.5 | <0.5 | 271 | <0.5 | <0.5 | <0.5 | 273 |
| Benzo(a)pyrene | | | | 0 | | | | 0 | <0.005 | <0.005 | <0.005 | 3 | <0.005 | <0.005 | <0.005 | 3 |
| Bromoxynil | | | | 0 | | | | 0 | <0.12 | <0.05 | <0.25 | 3 | <0.12 | <0.05 | <0.25 | 3 |
| Carbon Tetrachloride | <0.5 | <0.5 | <0.5 | 12 | <0.5 | <0.5 | <0.5 | 11 | <0.5 | <0.5 | <1.0 | 254 | <0.5 | <0.5 | <1.0 | 254 |
| Chlorobenzene | <0.5 | <0.5 | <0.5 | 29 | <0.5 | <0.5 | <0.5 | 30 | <0.5 | <0.5 | <0.5 | 271 | <0.5 | <0.5 | <0.5 | 273 |
| Chlorpyrifos | | | | 0 | | | | 0 | <0.1 | <0.1 | <0.1 | 3 | <0.1 | <0.1 | <0.1 | 3 |
| Cyanazine | | | | 0 | | | | 0 | <0.1 | <0.1 | <0.1 | 3 | <0.1 | <0.1 | <0.1 | 3 |
| Diazinon | | | | 0 | | | | 0 | <0.025 | <0.025 | <0.025 | 3 | <0.025 | <0.025 | <0.025 | 3 |
| Dicamba | | | | 0 | | | | 0 | <0.2 | <0.1 | <0.5 | 3 | <0.2 | <0.1 | <0.5 | 3 |
| Dichlorobenzene (1,2) | <0.5 | <0.5 | <0.5 | 12 | <0.5 | <0.5 | <0.5 | 11 | <0.5 | <0.5 | <0.5 | 254 | <0.5 | <0.5 | <0.5 | 254 |
| Dichlorobenzene (1,4) | <0.5 | <0.5 | <0.5 | 12 | <0.5 | <0.5 | <0.5 | 11 | <0.5 | <0.5 | <0.5 | 254 | <0.5 | <0.5 | <0.5 | 254 |
| Dichloroethane (1,2) | <0.5 | <0.5 | <0.5 | 12 | <0.5 | <0.5 | <0.5 | 11 | <0.5 | <0.5 | <0.5 | 253 | <0.5 | <0.5 | <0.5 | 253 |
| Dichloroethylene (1,1) | <0.5 | <0.5 | <0.5 | 12 | <0.5 | <0.5 | <0.5 | 11 | <0.5 | <0.5 | <3.0 | 254 | <0.5 | <0.5 | <3.0 | 254 |
| Dichlorophenol (2,4) | | | | 0 | | | | 0 | <0.2 | <0.2 | <0.3 | 3 | <0.2 | <0.2 | <0.3 | 3 |
| Diclofop-methyl | | | | 0 | | | | 0 | <0.1 | <0.1 | <0.1 | 3 | <0.1 | <0.1 | <0.1 | 3 |
| Dimethoate | | | | 0 | | | | 0 | <0.05 | <0.05 | <0.05 | 3 | <0.05 | <0.05 | <0.05 | 3 |
| Diuron | | | | 0 | | | | 0 | <0.05 | <0.05 | <0.05 | 3 | <0.05 | <0.05 | <0.05 | 3 |
| Ethylbenzene | <0.5 | <0.5 | <0.5 | 29 | <0.5 | <0.5 | <0.5 | 30 | <0.5 | <0.5 | <0.5 | 271 | <0.5 | <0.5 | <0.5 | 273 |
| Glyphosate | | | | 0 | | | | 0 | <0.3 | <0.2 | <0.5 | 3 | <0.3 | <0.2 | <0.5 | 3 |
| Malathion | | | | 0 | | | | 0 | <0.025 | <0.025 | <0.025 | 3 | <0.025 | <0.025 | <0.025 | 3 |
| MCPA | | | | 0 | | | | 0 | <0.12 | <0.05 | <0.25 | 3 | <0.12 | <0.05 | <0.25 | 3 |
| Methylene Chloride | <0.5 | <0.5 | <0.5 | 12 | <0.5 | <0.5 | <0.5 | 11 | <0.5 | <0.5 | <0.5 | 254 | <0.5 | <0.5 | <0.5 | 254 |
| Metolachlor | | | | 0 | | | | 0 | <0.025 | <0.025 | <0.025 | 3 | <0.025 | <0.025 | <0.025 | 3 |
| Metribuzin | | | | 0 | | | | 0 | <0.1 | <0.1 | <0.1 | 3 | <0.1 | <0.1 | <0.1 | 3 |
| NDMA (µg/L) | | | | 0 | | | | 0 | <0.0009 | <0.0009 | <0.0009 | 1 | <0.00099 | <0.00099 | <0.00099 | 1 |
| Nitriiotriacetic acid | | | | 0 | | | | 0 | <0.40000 | <0.400000 | <0.40 | 3 | <0.40 | <0.40 | <0.40 | 3 |
| Pentachlorophenol | | | | 0 | | | | 0 | <0.5 | <0.5 | <0.5 | 3 | <0.5 | <0.5 | <0.5 | 3 |
| Perfluorooctane sulfonic acid (PFOS) | | | | 0 | | | | 0 | <0.008 | <0.002 | <0.020 | 3 | <0.008 | <0.002 | <0.020 | 3 |
| Perfluorooctanoic acid (PFOA) | | | | 0 | | | | 0 | <0.008 | <0.002 | <0.020 | 3 | <0.008 | <0.002 | <0.020 | 3 |
| Phorate | | | | 0 | | | | 0 | <0.25 | <0.25 | <0.25 | 3 | <0.25 | <0.25 | <0.25 | 3 |
| Picloram | | | | 0 | | | | 0 | <0.2 | <0.1 | <0.5 | 3 | <0.2 | <0.1 | <0.5 | 3 |
| Simazine | | | | 0 | | | | 0 | <0.1 | <0.1 | <0.1 | 3 | <0.1 | <0.1 | <0.1 | 3 |
| Terbufos | | | | 0 | | | | 0 | <0.5 | <0.5 | <0.5 | 3 | <0.5 | <0.5 | <0.5 | 3 |
| Tetrachloroethylene | <0.5 | <0.5 | <0.5 | 29 | <0.5 | <0.5 | <0.5 | 30 | <0.5 | <0.5 | <0.5 | 271 | <0.5 | <0.5 | <0.5 | 273 |
| Toluene | <0.5 | <0.5 | <0.5 | 29 | <0.5 | <0.5 | <0.5 | 30 | <0.5 | <0.5 | 1.7 | 271 | <0.5 | <0.5 | 2.9 | 273 |
| Total Xylenes | <1.0 | <1.0 | <1.0 | 12 | <1.0 | <1.0 | <1.0 | 11 | <1.0 | <1.0 | <2.5 | 254 | <1.0 | <1.0 | <2.5 | 254 |
| Trichloroethylene | <0.5 | <0.5 | <0.5 | 29 | <0.5 | <0.5 | <0.5 | 30 | <0.5 | <0.5 | <0.5 | 271 | <0.5 | <0.5 | <0.5 | 273 |
| Trifluralin | | | | 0 | | | | 0 | <0.1 | <0.1 | <0.1 | 3 | <0.1 | <0.1 | <0.1 | 3 |

2.2.21 Raw River Water: Physical, Inorganic, Organic and Pesticide Parameters

September 2024

| | Current Month | | | | | | | | YTD | | | | | | | |
|----------------------------|---------------|------|-----|-------|------------|-----|-----|-------|----------|--------|--------|-------|------------|--------|--------|-------|
| | ROSSDALE | | | | E.L. SMITH | | | | ROSSDALE | | | | E.L. SMITH | | | |
| | Mean | Min | Max | Count | Mean | Min | Max | Count | Mean | Min | Max | Count | Mean | Min | Max | Count |
| Primary Organics (ug/L) ** | | | | | | | | | | | | | | | | |
| Trihalomethanes | <1.4 | <1.0 | 5.8 | 12 | <1 | <1 | <1 | 11 | <1.0 | <1.0 | 5.8 | 254 | <1 | <1 | 1 | 254 |
| Vinyl Chloride | <1 | <1 | <1 | 12 | <1 | <1 | <1 | 11 | <1 | <1 | <1 | 253 | <1 | <1 | <1 | 253 |
| Radionuclides (Bq/L) | | | | | | | | | | | | | | | | |
| Cesium-137 | | | | 0 | | | | 0 | <0.2 | <0.2 | <0.2 | 1 | <0.1 | <0.1 | <0.1 | 1 |
| Gross Alpha | | | | 0 | | | | 0 | <0.14 | <0.14 | <0.14 | 1 | <0.15 | <0.15 | <0.15 | 1 |
| Gross Beta | | | | 0 | | | | 0 | 0.07 | 0.07 | 0.07 | 1 | <0.07 | <0.07 | <0.07 | 1 |
| Iodine-131 | | | | 0 | | | | 0 | <0.3 | <0.3 | <0.3 | 1 | <0.2 | <0.2 | <0.2 | 1 |
| Lead-210 | | | | 0 | | | | 0 | <0.02 | <0.02 | <0.02 | 1 | <0.02 | <0.02 | <0.02 | 1 |
| Radium-226 | | | | 0 | | | | 0 | <0.005 | <0.005 | <0.005 | 1 | <0.005 | <0.005 | <0.005 | 1 |
| Strontium-90 | | | | 0 | | | | 0 | <0.05 | <0.05 | <0.05 | 1 | <0.05 | <0.05 | <0.05 | 1 |
| Tritium | | | | 0 | | | | 0 | <40 | <40 | <40 | 1 | <40 | <40 | <40 | 1 |

2.2.21 Raw River Water: Physical, Inorganic, Organic and Pesticide Parameters

September 2024

| | Current Month | | | | | | | | YTD | | | | | | | |
|---------------------------------|---------------|----------|----------|-------|------------|----------|----------|-------|----------|----------|----------|-------|------------|----------|---------|-------|
| | ROSSDALE | | | | E.L. SMITH | | | | ROSSDALE | | | | E.L. SMITH | | | |
| | Mean | Min | Max | Count | Mean | Min | Max | Count | Mean | Min | Max | Count | Mean | Min | Max | Count |
| Secondary Inorganics (mg/L) *** | | | | | | | | | | | | | | | | |
| Alkalinity Total | 128 | 124 | 130 | 4 | 130 | 125 | 135 | 4 | 129 | 117 | 149 | 39 | 129 | 112 | 152 | 39 |
| Alkalinity, PHP (mg CaCO3/L) | <3 | <3 | <3 | 1 | <3 | <3 | <3 | 1 | <3 | <3 | <3 | 9 | <3 | <3 | <3 | 9 |
| Aluminum | 0.114 | 0.114 | 0.114 | 1 | 0.178 | 0.178 | 0.178 | 1 | 0.955 | 0.108 | 4.200 | 9 | 1.364 | 0.078 | 7.370 | 9 |
| Ammonia as NH3 | <0.05 | <0.05 | <0.05 | 4 | <0.05 | <0.05 | <0.05 | 5 | <0.05 | <0.05 | 0.09 | 50 | <0.06 | <0.05 | 0.14 | 51 |
| Beryllium | <0.0002 | <0.0002 | <0.0002 | 1 | <0.0002 | <0.0002 | <0.0002 | 1 | <0.0002 | <0.0002 | <0.0002 | 9 | <0.0002 | <0.0002 | 0.0002 | 9 |
| Calcium Hardness | 114 | 112 | 116 | 3 | 115 | 109 | 120 | 3 | 117 | 102 | 138 | 34 | 116 | 99 | 140 | 34 |
| Calcium Hardness Calculated | 121 | 121 | 121 | 1 | 121 | 121 | 121 | 1 | 120 | 115 | 127 | 5 | 123 | 114 | 147 | 5 |
| Cobalt | <0.0002 | <0.0002 | <0.0002 | 1 | <0.0002 | <0.0002 | <0.0002 | 1 | 0.0003 | <0.0002 | 0.0008 | 9 | 0.0005 | <0.0002 | 0.0018 | 9 |
| Free Chlorine | <0.07 | <0.07 | <0.07 | 1 | <0.07 | <0.07 | <0.07 | 1 | <0.07 | <0.07 | <0.07 | 9 | <0.07 | <0.07 | <0.07 | 9 |
| Iron | 0.074 | 0.074 | 0.074 | 1 | 0.133 | 0.133 | 0.133 | 1 | 0.635 | 0.051 | 2.110 | 9 | 0.979 | 0.075 | 4.850 | 9 |
| Lanthanum | <0.001 | <0.001 | <0.001 | 1 | <0.001 | <0.001 | <0.001 | 1 | <0.001 | <0.001 | 0.001 | 9 | <0.001 | <0.001 | 0.003 | 9 |
| Lithium | 0.0043 | 0.0043 | 0.0043 | 1 | 0.0042 | 0.0042 | 0.0042 | 1 | 0.0046 | 0.0033 | 0.0076 | 9 | 0.0048 | 0.0033 | 0.0104 | 9 |
| Magnesium | 14.2 | 14.2 | 14.2 | 1 | 14.6 | 14.6 | 14.6 | 1 | 14.1 | 13.3 | 15.4 | 9 | 14.4 | 13.2 | 16.6 | 9 |
| Molybdenum | 0.0007 | 0.0007 | 0.0007 | 1 | 0.0007 | 0.0007 | 0.0007 | 1 | 0.0009 | 0.0007 | 0.0010 | 9 | 0.0009 | 0.0007 | 0.0011 | 9 |
| Nickel | <0.0005 | <0.0005 | <0.0005 | 1 | 0.0005 | 0.0005 | 0.0005 | 1 | 0.0014 | <0.0005 | 0.0034 | 9 | 0.0017 | <0.0005 | 0.0066 | 9 |
| Ortho_P | <0.02 | <0.02 | <0.02 | 1 | <0.02 | <0.02 | <0.02 | 1 | <0.02 | <0.02 | <0.02 | 8 | <0.02 | <0.02 | <0.02 | 8 |
| Orthophosphate, total | | | | 0 | | | | 0 | 0.03 | <0.02 | 0.04 | 2 | 0.03 | <0.02 | 0.04 | 2 |
| Phosphorus | 0.02 | 0.02 | 0.02 | 1 | 0.02 | 0.02 | 0.02 | 1 | 0.04 | <0.02 | 0.09 | 9 | 0.04 | <0.02 | 0.15 | 9 |
| Potassium | 0.7 | 0.7 | 0.7 | 1 | 0.8 | 0.8 | 0.8 | 1 | 1.1 | 0.7 | 2.2 | 9 | 1.2 | 0.7 | 3.2 | 9 |
| Silicon | 1.83 | 1.83 | 1.83 | 1 | 1.96 | 1.96 | 1.96 | 1 | 3.81 | 1.83 | 11.20 | 9 | 4.77 | 1.74 | 18.10 | 9 |
| Silver^ | | | | 0 | | | | 0 | <0.0002 | <0.0002 | <0.0002 | 3 | <0.0002 | <0.0002 | <0.0002 | 3 |
| Silver^^ | <0.00002 | <0.00002 | <0.00002 | 1 | <0.00002 | <0.00002 | <0.00002 | 1 | <0.00002 | <0.00002 | <0.00002 | 6 | <0.00002 | <0.00002 | 0.00003 | 6 |
| Sodium | 3.9 | 3.9 | 3.9 | 1 | 3.8 | 3.8 | 3.8 | 1 | 4.8 | 3.8 | 7.0 | 9 | 4.3 | 3.8 | 5.1 | 9 |
| Strontium | 0.456 | 0.456 | 0.456 | 1 | 0.462 | 0.462 | 0.462 | 1 | 0.450 | 0.419 | 0.499 | 9 | 0.451 | 0.418 | 0.504 | 9 |
| Thallium | <0.0002 | <0.0002 | <0.0002 | 1 | <0.0002 | <0.0002 | <0.0002 | 1 | <0.0003 | <0.0002 | <0.0005 | 9 | <0.0003 | <0.0002 | <0.0005 | 9 |
| Tin | <0.0005 | <0.0005 | <0.0005 | 1 | <0.0005 | <0.0005 | <0.0005 | 1 | <0.0005 | <0.0005 | <0.0005 | 9 | <0.0005 | <0.0005 | <0.0005 | 9 |
| Titanium | 0.0019 | 0.0019 | 0.0019 | 1 | 0.0070 | 0.0070 | 0.0070 | 1 | 0.0254 | 0.0015 | 0.1140 | 9 | 0.0381 | 0.0017 | 0.2010 | 9 |
| Total Hardness (mg/L CaCO3) | 175 | 171 | 177 | 3 | 175 | 169 | 181 | 3 | 176 | 153 | 211 | 34 | 176 | 155 | 203 | 34 |
| Total Hardness Calculated | 180 | 180 | 180 | 1 | 181 | 181 | 181 | 1 | 177 | 170 | 187 | 5 | 183 | 169 | 216 | 5 |
| Total Kjeldahl Nitrogen | 0.2 | 0.2 | 0.2 | 1 | 0.2 | 0.2 | 0.2 | 1 | 0.2 | 0.1 | 0.4 | 8 | 0.2 | <0.1 | 0.5 | 8 |
| Total Kjeldahl Nitrogen (TKN) | | | | 0 | | | | 0 | 0.3 | <0.1 | 1.0 | 27 | 0.6 | <0.1 | 9.4 | 28 |
| Vanadium | <0.0005 | <0.0005 | <0.0005 | 1 | <0.0005 | <0.0005 | <0.0005 | 1 | 0.0024 | <0.0005 | 0.0106 | 9 | 0.0036 | <0.0005 | 0.0198 | 9 |
| Zinc | <0.005 | <0.005 | <0.005 | 1 | <0.005 | <0.005 | <0.005 | 1 | <0.006 | <0.005 | 0.011 | 9 | 0.007 | <0.005 | 0.020 | 9 |
| Zirconium | <0.001 | <0.001 | <0.001 | 1 | <0.001 | <0.001 | <0.001 | 1 | <0.001 | <0.001 | 0.003 | 9 | 0.002 | <0.001 | 0.005 | 9 |

2.2.21 Raw River Water: Physical, Inorganic, Organic and Pesticide Parameters

September 2024

| | Current Month | | | | | | | | YTD | | | | | | | |
|---------------------------------------|---------------|------|------|-------|------------|------|------|-------|----------|--------|--------|-------|------------|--------|--------|-------|
| | ROSSDALE | | | | E.L. SMITH | | | | ROSSDALE | | | | E.L. SMITH | | | |
| | Mean | Min | Max | Count | Mean | Min | Max | Count | Mean | Min | Max | Count | Mean | Min | Max | Count |
| Secondary Organics (ug/L) *** | | | | | | | | | | | | | | | | |
| Aldicarb | | | | 0 | | | | 0 | <0.1 | <0.1 | <0.1 | 3 | <0.1 | <0.1 | <0.1 | 3 |
| Aldrin | | | | 0 | | | | 0 | <0.008 | <0.008 | <0.008 | 3 | <0.008 | <0.008 | <0.008 | 3 |
| Azinphos-methyl | | | | 0 | | | | 0 | <0.1 | <0.1 | <0.1 | 3 | <0.1 | <0.1 | <0.1 | 3 |
| Bromodichloromethane | <0.5 | <0.5 | <0.5 | 29 | <0.5 | <0.5 | <0.5 | 30 | <0.5 | <0.5 | <0.5 | 271 | <0.5 | <0.5 | <0.5 | 273 |
| Bromoform | <0.5 | <0.5 | <0.5 | 29 | <0.5 | <0.5 | <0.5 | 30 | <0.5 | <0.5 | <1.0 | 271 | <0.5 | <0.5 | <1.0 | 273 |
| Bromomethane | <0.5 | <0.5 | <0.5 | 17 | <0.5 | <0.5 | <0.5 | 19 | <0.5 | <0.5 | <0.5 | 17 | <0.5 | <0.5 | <0.5 | 19 |
| Carbaryl | | | | 0 | | | | 0 | <0.05 | <0.05 | <0.05 | 3 | <0.05 | <0.05 | <0.05 | 3 |
| Carbofuran | | | | 0 | | | | 0 | <0.025 | <0.025 | <0.025 | 3 | <0.025 | <0.025 | <0.025 | 3 |
| Chloroethane | <0.5 | <0.5 | <0.5 | 17 | <0.5 | <0.5 | <0.5 | 19 | <0.5 | <0.5 | <0.5 | 17 | <0.5 | <0.5 | <0.5 | 19 |
| Chloroform | <0.7 | <0.5 | 5.7 | 29 | <0.5 | <0.5 | <0.5 | 30 | <0.5 | <0.5 | 5.7 | 271 | <0.5 | <0.5 | <0.5 | 273 |
| Chloromethane | <5 | <5 | <5 | 17 | <5 | <5 | <5 | 19 | <5 | <5 | <5 | 17 | <5 | <5 | <5 | 19 |
| Dibromochloromethane | <0.5 | <0.5 | <0.5 | 29 | <0.5 | <0.5 | <0.5 | 30 | <0.5 | <0.5 | <0.5 | 271 | <0.5 | <0.5 | <0.5 | 273 |
| Dichlorobenzene (1,3) | <0.5 | <0.5 | <0.5 | 12 | <0.5 | <0.5 | <0.5 | 11 | <0.5 | <0.5 | <0.5 | 254 | <0.5 | <0.5 | <0.5 | 254 |
| Dichloroethylene, cis (1,2) | <0.5 | <0.5 | <0.5 | 12 | <0.5 | <0.5 | <0.5 | 11 | <0.5 | <0.5 | <0.5 | 254 | <0.5 | <0.5 | <0.5 | 254 |
| Dichloroethylene, trans (1,2) | <0.5 | <0.5 | <0.5 | 12 | <0.5 | <0.5 | <0.5 | 11 | <0.5 | <0.5 | <0.5 | 254 | <0.5 | <0.5 | <0.5 | 254 |
| Dichloropropane (1,2) | <0.5 | <0.5 | <0.5 | 12 | <0.5 | <0.5 | <0.5 | 11 | <0.5 | <0.5 | <0.5 | 254 | <0.5 | <0.5 | <0.5 | 254 |
| Dieldrin | | | | 0 | | | | 0 | <0.008 | <0.008 | <0.008 | 3 | <0.008 | <0.008 | <0.008 | 3 |
| Methyl t-Butyl Ether (MTBE) | <0.5 | <0.5 | <0.5 | 12 | <0.5 | <0.5 | <0.5 | 11 | <0.5 | <0.5 | <0.5 | 254 | <0.5 | <0.5 | <0.5 | 254 |
| MIBK | <1 | <1 | <1 | 12 | <1 | <1 | <1 | 11 | <1 | <1 | <1 | 254 | <1 | <1 | <1 | 254 |
| Parathion | | | | 0 | | | | 0 | <0.1 | <0.1 | <0.1 | 3 | <0.1 | <0.1 | <0.1 | 3 |
| Perfluorobutane Sulfonate (PFBS) | | | | 0 | | | | 0 | <2 | <2 | <2 | 1 | <2 | <2 | <2 | 1 |
| Perfluorobutanoic acid (PFBA) | | | | 0 | | | | 0 | <0.83 | <0.02 | <2.00 | 5 | <0.83 | <0.02 | <2.00 | 5 |
| Perfluorodecanoic Acid (PFDA) | | | | 0 | | | | 0 | <2 | <2 | <2 | 2 | <2 | <2 | <2 | 2 |
| Perfluorododecanoic Acid (PFDoA) | | | | 0 | | | | 0 | <2 | <2 | <2 | 2 | <2 | <2 | <2 | 2 |
| Perfluoroheptanoic Acid (PFHpA) | | | | 0 | | | | 0 | <0.805 | <0.002 | <2.000 | 5 | <0.805 | <0.002 | <2.000 | 5 |
| Perfluorohexane sulfonic acid (PFHxS) | | | | 0 | | | | 0 | <0.008 | <0.002 | <0.020 | 3 | <0.008 | <0.002 | <0.020 | 3 |
| Perfluorohexanoic acid (PFHxA) | | | | 0 | | | | 0 | <0.805 | <0.002 | <2.000 | 5 | <0.805 | <0.002 | <2.000 | 5 |
| Perfluorononanoic acid (PFNA) | | | | 0 | | | | 0 | <0.805 | <0.002 | <2.000 | 5 | <0.805 | <0.002 | <2.000 | 5 |
| Perfluoropentanoic Acid (PFPeA) | | | | 0 | | | | 0 | <0.805 | <0.002 | <2.000 | 5 | <0.805 | <0.002 | <2.000 | 5 |
| Perfluoroundecanoic Acid (PFUnA) | | | | 0 | | | | 0 | <2 | <2 | <2 | 2 | <2 | <2 | <2 | 2 |
| Styrene | <0.5 | <0.5 | <0.5 | 29 | <0.5 | <0.5 | <0.5 | 30 | <0.5 | <0.5 | <0.5 | 271 | <0.5 | <0.5 | <0.5 | 273 |
| Tetrachloroethane (1,1,2,2) | <0.5 | <0.5 | <0.5 | 12 | <0.5 | <0.5 | <0.5 | 11 | <0.5 | <0.5 | <1.0 | 254 | <0.5 | <0.5 | <1.0 | 254 |
| Total Organic Carbon | 2.4 | 1.5 | 3.7 | 4 | 2.3 | 1.5 | 3.7 | 4 | 2.6 | 1.1 | 5.4 | 39 | 2.6 | 1.2 | 5.9 | 39 |
| Total Volatile Organics (NonTHM) | 2.4 | 1.4 | 4.1 | 12 | 2.7 | 1.5 | 4.5 | 11 | 2.0 | <1.0 | 6.2 | 254 | 2.0 | <1.0 | 6.1 | 254 |
| Total Volatile Organics (Unknown) | | | | 0 | | | | 0 | <0.8 | <0.5 | 2.1 | 23 | <0.8 | <0.5 | 2.1 | 31 |
| Triallate | | | | 0 | | | | 0 | <0.1 | <0.1 | <0.1 | 3 | <0.1 | <0.1 | <0.1 | 3 |
| Trichloroacetic acid | | | | 0 | | | | 0 | <1 | <1 | <1 | 1 | <1 | <1 | <1 | 1 |
| Trichlorobenzene (1,2,4) | <0.5 | <0.5 | <0.5 | 12 | <0.5 | <0.5 | <0.5 | 11 | <0.5 | <0.5 | <0.5 | 254 | <0.5 | <0.5 | <0.5 | 254 |
| Trichloroethane (1,1,1) | <0.5 | <0.5 | <0.5 | 12 | <0.5 | <0.5 | <0.5 | 11 | <0.5 | <0.5 | <0.5 | 254 | <0.5 | <0.5 | <0.5 | 254 |
| Xylene (1,2) | <0.5 | <0.5 | <0.5 | 12 | <0.5 | <0.5 | <0.5 | 11 | <0.5 | <0.5 | <0.5 | 254 | <0.5 | <0.5 | <0.5 | 254 |

| Secondary Organics (ug/L) *** | | | | | | | | | | | | | | | | |
|-------------------------------|------|------|------|----|------|------|------|----|------|------|-----|-----|------|------|-----|-----|
| Xylene (1,4) | <0.5 | <0.5 | <0.5 | 12 | <0.5 | <0.5 | <0.5 | 11 | <0.5 | <0.5 | 0.6 | 254 | <0.5 | <0.5 | 0.9 | 254 |

Table Explanations:

^: Data from January 1 until March 31

^^: Data from April 1 onwards

**2.2.22 EFFLUENT WASTESTREAM TO SANITARY SEWER
(PLANTS) - REGULATED (EPCOR Drainage Bylaw)**

(Lab Neutralization Tank in Water Excellence Lab Building)

| Date | pH** |
|-------------|------|
| 05-Sep-2024 | 7.9 |
| 12-Sep-2024 | 6.05 |
| 19-Sep-2024 | 9.93 |
| 27-Sep-2024 | 7.91 |

**Drainage By-Law 18093 Acceptable Range is 6.0 to 11.5

2.2.23 REPORTABLE DETECTION LIMITS

| Analyte | RDL | Unit |
|--------------------------|--------|-----------|
| Aluminum | 0.005 | mg/L |
| Ammonia as N | 0.05 | mg/L |
| Ammonia as NH3 | 0.05 | mg/L |
| Antimony | 0.0005 | mg/L |
| Arsenic | 0.0002 | mg/L |
| Barium | 0.002 | mg/L |
| Beryllium | 0.0002 | mg/L |
| Boron | 0.005 | mg/L |
| Bromate Dissolved | 0.005 | mg/L |
| Bromide Dissolved | 0.03 | mg/L |
| Cadmium | 0.0002 | mg/L |
| Calcium | 0.1 | mg/L |
| Cellular ATP | 0.1 | pg/mL |
| Chlorate Dissolved | 0.01 | mg/L |
| Chloride Dissolved | 0.3 | mg/L |
| Chlorite Dissolved | 0.005 | mg/L |
| Chromium | 0.0002 | mg/L |
| Cobalt | 0.0002 | mg/L |
| Coliforms, total | 1 | PA/100mL |
| Copper | 0.002 | mg/L |
| E. coli | 1 | PA/100mL |
| Free Chlorine | 0.07 | mg/L |
| Iron | 0.005 | mg/L |
| Lanthanum | 0.001 | mg/L |
| Lead | 0.0002 | mg/L |
| Lithium | 0.0002 | mg/L |
| Magnesium | 0.1 | mg/L |
| Manganese | 0.002 | mg/L |
| Mercury | 0.0002 | mg/L |
| Molybdenum | 0.0002 | mg/L |
| Nickel | 0.0005 | mg/L |
| Nitrate (as N) Dissolved | 0.01 | mg/L |
| Nitrite (as N) Dissolved | 0.01 | mg/L |
| Ortho_P | 0.02 | mg/L as P |
| Phosphorus | 0.02 | mg/L |
| Potassium | 0.1 | mg/L |
| Run1 | 10 | RLU |
| Run2 | 10 | RLU |
| Run3 | 10 | RLU |
| Selenium | 0.0002 | mg/L |
| Silicon | 0.05 | mg/L |
| Silver | 0.0002 | mg/L |
| Sodium | 0.1 | mg/L |
| Strontium | 0.002 | mg/L |
| Sulphate Dissolved | 0.5 | mg/L |
| Thallium | 0.0002 | mg/L |
| Tin | 0.0005 | mg/L |
| Titanium | 0.0005 | mg/L |
| Total Organic Carbon | 0.6 | mg/L |
| Turbidity | 0.04 | NTU |
| Uranium | 0.0005 | mg/L |
| Vanadium | 0.0005 | mg/L |

2.2.23 REPORTABLE DETECTION LIMITS

| Analyte | RDL | Unit |
|-----------|-------|------|
| Zinc | 0.005 | mg/L |
| Zirconium | 0.001 | mg/L |

2.2.23 REPORTABLE DETECTION LIMITS

| Analyte | RDL | Unit |
|--------------------------------|------|------|
| Contract Lab Analysis | | |
| 1,1,1-Trichloroethane | 0.50 | ug/L |
| 1,1,2,2-Tetrachloroethane | 0.50 | ug/L |
| 1,1,2-Trichloroethane | 0.50 | ug/L |
| 1,1-Dichloroethane | 0.50 | ug/L |
| 1,1-Dichloroethylene | 0.50 | ug/L |
| 1,2,3-Trichlorobenzene | 0.50 | ug/L |
| 1,2,3-Trichloropropane | 0.50 | ug/L |
| 1,2,4-Trichlorobenzene | 0.50 | ug/L |
| 1,2-Dibromoethane | 0.50 | ug/L |
| 1,2-Dichlorobenzene | 0.50 | ug/L |
| 1,2-Dichloroethane | 0.50 | ug/L |
| 1,2-Dichloroethylene, cis | 0.50 | ug/L |
| 1,2-Dichloroethylene, trans | 0.50 | ug/L |
| 1,2-Dichloropropane | 0.50 | ug/L |
| 1,3,5-Trichlorobenzene | 0.50 | ug/L |
| 1,3-Dichlorobenzene | 0.50 | ug/L |
| 1,3-Dichloropropylene, trans | 0.50 | ug/L |
| 1,3-Dichloropropylene, cis | 0.50 | ug/L |
| 1,4-Dichloro-2-butene, cis | 5.0 | ug/L |
| 1,4-Dichloro-2-butene, trans | 5.0 | ug/L |
| 1,4-Dichlorobenzene | 0.50 | ug/L |
| 2-Hexanone | 20 | ug/L |
| Acetone | 20 | ug/L |
| Acrolein | 50 | ug/L |
| Acrylonitrile | 20 | ug/L |
| Benzene | 0.50 | ug/L |
| Bromochloroacetic acid | 1.00 | ug/L |
| Bromodichloromethane | 0.50 | ug/L |
| Bromoform | 0.50 | ug/L |
| Bromomethane | 0.50 | ug/L |
| BTEX, Total | 1.00 | ug/L |
| Carbon Disulfide | 0.50 | ug/L |
| Carbon tetrachloride | 0.50 | ug/L |
| Chlorobenzene | 0.50 | ug/L |
| Chloroethane | 0.50 | ug/L |
| Chloroform | 0.50 | ug/L |
| Chloromethane | 5.00 | ug/L |
| Dibromoacetic acid | 1.00 | ug/L |
| Dibromochloromethane | 0.50 | ug/L |
| Dibromoethane | 0.50 | ug/L |
| Dichloroacetic acid | 1.00 | ug/L |
| Dichlorodifluoromethane | 0.50 | ug/L |
| Dichloromethane | 1.00 | ug/L |
| Ethanol | 250 | ug/L |
| Ethyl Methacrylate | 5.0 | ug/L |
| Ethylbenzene | 0.50 | ug/L |
| Haloacetic Acids, total (HAA5) | 5.00 | ug/L |
| Iodomethane | 0.50 | ug/L |
| m+p-Xylene | 0.40 | ug/L |
| Methyl Ethyl Ketone (MEK) | 20 | ug/L |
| Methyl Isobutyl Ketone (MIBK) | 20 | ug/L |
| Methyl-tert-butyl ether (MTBE) | 0.50 | ug/L |
| Microcystin | 0.20 | µg/L |

2.2.23 REPORTABLE DETECTION LIMITS

| Analyte | RDL | Unit |
|-------------------------------|---------|------|
| Monobromoacetic acid | 1.00 | ug/L |
| Monochloroacetic acid | 1.00 | ug/L |
| NDMA | 0.00390 | µg/L |
| o-Xylene | 0.30 | ug/L |
| Styrene | 0.50 | ug/L |
| Tetrachloroethylene | 0.50 | ug/L |
| Toluene | 0.50 | ug/L |
| Trichlorofluoromethane | 0.50 | ug/L |
| Trichloroacetic acid | 1.00 | ug/L |
| Trichloroethylene | 0.50 | ug/L |
| Trihalomethanes (THMs), Total | 1.0 | ug/L |
| Vinyl chloride | 0.50 | ug/L |
| Xylenes, Total | 0.50 | ug/L |

2.2.24 EXPLANATION OF NOTATIONS USED

Concentrations are reported as mg/L unless otherwise indicated.
Alkalinity and Hardness (Ca and Total) are reported as mg CaCO₃/L

| | |
|-------|---|
| %T | = % Transmission |
| - ve | = Absent |
| + ve | = Present |
| µg/L | = Micrograms per litre (1 µg/L = 0.001 mg/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 |
| HPC | = Heterotrophic Plate Count |
| 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 |
| WL | = Water Laboratory |
| WTP | = Water Treatment Plant |