



North End Water Pollution Control Centre Monitoring Data
January 01, 2023 to January 31, 2023

| Licence # 2684 RRR | File # 1071.1 | Final Effluent 24 Hour Composite | | | | | | | Final Effluent Grab Sample | | | |
|-----------------------|------------------|-------------------------------------|----------------|-----------------|---------------------------|------------------------------|-------------------------------|-----------------------------|-------------------------------|---------------|------------------------------|----------------------|
| | | TSS (mg/L) | BOD5 (mg/L) | cBOD5 (mg/L) | Ammonia (kg NH3-N/day) | Ortho Phosphorus (mg/L-P) | Total Phosphorus (mg/L-P)* | Total Nitrogen (mg/L-N)* | Temp. (°C) | pH (units) | Fecal Coliform MPN/100 mL | E.Coli MPN/100 mL |
| 01-Jan-23 | 121.4 | 21 | 16 | 9 | 3,982 | 0.90 | 1.60 | 44.8 | 14.3 | 6.73 | 10 | 20 |
| 02-Jan-23 | 120.0 | 9 | 15 | 11 | 3,924 | 0.92 | 1.53 | 45.1 | 14.2 | 6.76 | 20 | 40 |
| 03-Jan-23 | 133.8 | 11 | 13 | 9 | 4,509 | 0.95 | 1.48 | 45.4 | 14.2 | 6.83 | 30 | 50 |
| 04-Jan-23 | 141.2 | 9 | 12 | 9 | 5,239 | 1.05 | 1.46 | 45.7 | 14.4 | 6.76 | 30 | 100 |
| 05-Jan-23 | 137.1 | 8 | 13 | 8 | 4,840 | 1.06 | 1.44 | 46.0 | 14.5 | 6.67 | 320 | 400 |
| 06-Jan-23 | 130.0 | 7 | 11 | 7 | 4,615 | 0.81 | 1.40 | 46.3 | 14.1 | 6.69 | 290 | 300 |
| 07-Jan-23 | 124.8 | 9 | 13 | 6 | 4,318 | 0.88 | 1.37 | 46.5 | 14.0 | 6.79 | 210 | 110 |
| 08-Jan-23 | 124.9 | 5 | 11 | 7 | 4,471 | 1.12 | 1.35 | 46.9 | 14.2 | 6.76 | 60 | 190 |
| 09-Jan-23 | 132.6 | 10 | 15 | 8 | 4,455 | 0.87 | 1.33 | 47.2 | 14.5 | 6.72 | 60 | 60 |
| 10-Jan-23 | 135.7 | 8 | 14 | 6 | 5,279 | 0.62 | 1.29 | 47.4 | 14.1 | 6.73 | 430 | 460 |
| 11-Jan-23 | 131.9 | 8 | 17 | 6 | 5,052 | 0.58 | 1.28 | 47.4 | 14.1 | 6.78 | 510 | 480 |
| 12-Jan-23 | 133.6 | 23 | 22 | 13 | 4,596 | 1.17 | 1.30 | 47.5 | 14.3 | 6.79 | 370 | 750 |
| 13-Jan-23 | 135.1 | 18 | nr | nr | 5,107 | 0.90 | 1.30 | 48.1 | 14.0 | 6.89 | 2,760 | 3,870 |
| 14-Jan-23 | 133.2 | 7 | 13 | 6 | 5,155 | 0.75 | 1.28 | 48.6 | 13.9 | 6.79 | 50 | 50 |
| 15-Jan-23 | 135.4 | 7 | 13 | 5 | 5,023 | 0.96 | 1.28 | 48.9 | 14.3 | 6.74 | 50 | 110 |
| 16-Jan-23 | 131.8 | 7 | 16 | 5 | 5,153 | 0.96 | 1.29 | 49.3 | 14.2 | 6.70 | 120 | 120 |
| 17-Jan-23 | 131.2 | 6 | 13 | 4 | 5,314 | 0.94 | 1.29 | 49.8 | 14.1 | 6.71 | 80 | 140 |
| 18-Jan-23 | 131.2 | 5 | nr | nr | 5,602 | 0.88 | 1.30 | 50.4 | 14.2 | 6.68 | 100 | 120 |
| 19-Jan-23 | 128.8 | 6 | 14 | 4 | 5,577 | 0.94 | 1.32 | 50.9 | 14.2 | 6.76 | 310 | 560 |
| 20-Jan-23 | 127.5 | 5 | 14 | <4 | 5,495 | 1.05 | 1.33 | 51.3 | 14.0 | 6.76 | 500 | 390 |
| 21-Jan-23 | 124.1 | 8 | 14 | 4 | 5,498 | 1.35 | 1.32 | 51.2 | 14.5 | 6.72 | 460 | 410 |
| 22-Jan-23 | 122.0 | 6 | 14 | 4 | 5,112 | 1.34 | 1.30 | 51.0 | 14.3 | 6.79 | 230 | 240 |
| 23-Jan-23 | 126.8 | 6 | 16 | 4 | 5,643 | 1.33 | 1.31 | 51.2 | 13.9 | 6.78 | 20 | 30 |
| 24-Jan-23 | 130.2 | 9 | 15 | 4 | 5,976 | 1.42 | 1.33 | 51.5 | 14.0 | 6.79 | 20 | 30 |
| 25-Jan-23 | 126.1 | 8 | 14 | 4 | 5,586 | 1.59 | 1.36 | 51.7 | 13.0 | 6.72 | 20 | 20 |
| 26-Jan-23 | 129.8 | 12 | 16 | 4 | 6,088 | 2.12 | 1.41 | 51.7 | 13.9 | 6.87 | 20 | 10 |
| 27-Jan-23 | 126.2 | 11 | 24 | 5 | 5,894 | 1.95 | 1.45 | 51.6 | 13.3 | 6.85 | 20 | <10 |
| 28-Jan-23 | 126.4 | ns | ns | ns | ns | ns | 1.46 | 51.5 | 13.3 | 6.87 | 10 | 10 |
| 29-Jan-23 | 123.7 | 9 | 16 | 5 | 5,764 | 1.34 | 1.47 | 51.5 | 13.1 | 6.86 | 30 | 10 |
| 30-Jan-23 | 119.3 | 14 | 13 | 5 | 5,094 | 1.22 | 1.48 | 51.6 | 12.9 | 6.78 | 10 | 20 |
| 31-Jan-23 | 130.7 | 20 | 30 | 15 | 5,986 | 1.62 | 1.51 | 51.8 | 12.8 | 6.81 | 130 | 160 |
| Max: | 141.2 | | | | | | | | | | | |
| Min: | 119.3 | | | | | | | | | | | |
| Average: | 129.2 | 10 | 15 | 6 | 5,145 | 1.12 | | | 14.0 | 6.77 | | |
| Total Flow: | 4,006.5 | | | | | | | | | | | |
| Geo.Mean: | | | | | | | | | | | 81 | 96 |

Notes:

- (1) Effluent ammonia load based upon Raw Sewage flows and Final NH3-N concentrations
- (2) nr - not recorded or no result; na - not analyzed; ns - no sample; o/l - offline; im - instrument maintenance
- (3) Where value is expressed as less than (<), the value is halved and used in the calculations
- (4) * = 30 day rolling average
- (5) Raw wastewater flows in excess of 400 ML/D will by-pass the secondary process and flows in excess of 675 ML/D will cause raw sewage to by-pass the plant