

**City of Winnipeg
Water and Waste Department
North End Water Pollution Control Centre Monitoring Data
February 2021**

| Licence 2684 RRR | File # 1071.10 | Final Effluent 24 Hour Composite | | | | | | | Final Effluent Grab Sample | | | |
|---------------------|-------------------|-------------------------------------|-----------|----------|--------------|---------------------|---------------------|-------------------|-------------------------------|-------------|-------------------|------------|
| | | TSS | BOD5 | cBOD5 | Ammonia | Ortho Phosphorus | Total Phosphorus | Total Nitrogen | Temp. | pH | Fecal Coliform | E.Coli |
| | | | | | | | | | | | | |
| 1-Feb-21 | 120.2 | 24 | 25 | 11 | 4,759 | 4.48 | 4.6 | 50.3 | 14.1 | 6.87 | 150 | 150 |
| 2-Feb-21 | 121.2 | 22 | 20 | 7 | 4,714 | 4.63 | 4.6 | 50.2 | 13.9 | 6.90 | 110 | 140 |
| 3-Feb-21 | 121.8 | 18 | 20 | 8 | 4,947 | 4.35 | 4.6 | 50.1 | 14.1 | 6.83 | 600 | 510 |
| 4-Feb-21 | 118.5 | 19 | 24 | 12 | 4,801 | 4.00 | 4.6 | 50.3 | 13.4 | 6.92 | 5,790 | 4,350 |
| 5-Feb-21 | 125.1 | 12 | 15 | 11 | 4,979 | 4.33 | 4.6 | 50.5 | 13.4 | 6.76 | 430 | 350 |
| 6-Feb-21 | 116.6 | 16 | nr | nr | 4,712 | 4.02 | 4.6 | 50.8 | 12.9 | 6.78 | 240 | 280 |
| 7-Feb-21 | 115.3 | 15 | 17 | 8 | 4,518 | 3.92 | 4.6 | 51.1 | 13.0 | 6.73 | 340 | 410 |
| 8-Feb-21 | 120.7 | 16 | 17 | 7 | 4,536 | 3.42 | 4.6 | 51.1 | 12.3 | 6.86 | 360 | 500 |
| 9-Feb-21 | 120.1 | 15 | 15 | 6 | 4,649 | 3.63 | 4.7 | 51.2 | 12.1 | 6.83 | 190 | 200 |
| 10-Feb-21 | 118.1 | ns | ns | ns | ns | ns | 4.7 | 51.1 | 12.4 | 6.83 | 30 | 110 |
| 11-Feb-21 | 120.8 | ns | ns | ns | ns | ns | 4.8 | 51.1 | 11.8 | 6.93 | 30 | 30 |
| 12-Feb-21 | 118.7 | ns | ns | ns | ns | ns | 4.8 | 51.1 | 12.0 | 6.92 | 100 | 110 |
| 13-Feb-21 | 117.6 | 15 | 16 | 8 | 4,690 | 1.91 | 4.7 | 51.2 | 12.8 | 6.81 | 40 | 20 |
| 14-Feb-21 | 114.5 | 14 | 16 | 8 | 4,421 | 2.08 | 4.6 | 51.1 | 12.7 | 6.91 | 100 | 30 |
| 15-Feb-21 | 115.7 | 12 | 13 | 7 | 4,512 | 1.72 | 4.5 | 50.8 | 13.3 | 6.85 | 20 | 10 |
| 16-Feb-21 | 120.5 | 14 | 14 | 7 | 4,653 | 1.65 | 4.5 | 50.6 | 12.3 | 7.03 | 40 | 100 |
| 17-Feb-21 | 120.6 | 12 | 13 | 6 | 4,704 | 1.52 | 4.4 | 50.5 | 12.4 | 6.94 | 60 | 80 |
| 18-Feb-21 | 124.8 | 14 | 14 | 6 | 5,102 | 1.64 | 4.3 | 50.7 | 13.2 | 6.74 | 210 | 160 |
| 19-Feb-21 | 123.4 | 16 | 11 | 6 | 4,775 | 2.19 | 4.2 | 50.9 | nr | 7.02 | 70 | 90 |
| 20-Feb-21 | 119.8 | 15 | 12 | 5 | 4,851 | 1.91 | 4.1 | 51.0 | 13.3 | 6.86 | 130 | 80 |
| 21-Feb-21 | 122.2 | 14 | 12 | 6 | 4,766 | 1.83 | 4.1 | 51.2 | 13.7 | 6.85 | 140 | 160 |
| 22-Feb-21 | 202.1 | 42 | 32 | 22 | 7,237 | 1.54 | 4.0 | 51.0 | 14.1 | 6.71 | 10 | 20 |
| 23-Feb-21 | 137.3 | 15 | 13 | 9 | 3,818 | 0.30 | 3.8 | 50.5 | 11.8 | 6.85 | 1,860 | 1,920 |
| 24-Feb-21 | 129.4 | 16 | 11 | 6 | 4,644 | 0.40 | 3.7 | 50.2 | 12.8 | 6.84 | 600 | 500 |
| 25-Feb-21 | 123.0 | 14 | 10 | 6 | 4,687 | 0.68 | 3.6 | 50.2 | 13.6 | 6.80 | 110 | 110 |
| 26-Feb-21 | 127.1 | 16 | 18 | 13 | 5,058 | 1.20 | 3.5 | 50.2 | 13.8 | 6.86 | 190 | 280 |
| 27-Feb-21 | 122.7 | 16 | nr | nr | 4,845 | 1.20 | 3.4 | 50.3 | 12.8 | 6.80 | 310 | 560 |
| 28-Feb-21 | 117.1 | 11 | nr | nr | 4,954 | 1.36 | 3.2 | 50.6 | 13.1 | 6.79 | 80 | 50 |
| Max: | 202.1 | | | | | | | | | | | |
| Min: | 114.5 | | | | | | | | | | | |
| Average: | 124.1 | 16 | 16 | 8 | 4,813 | 2.40 | | | 13.0 | 6.85 | | |
| Total Flow: | 3,474.9 | | | | | | | | | | 146 | 151 |
| Geo.Mean: | | | | | | | | | | | | |

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
- (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