



REGIONAL MUNICIPALITY OF NIAGARA
Public Works Department
Water & Wastewater Services Division

PORT COLBORNE WATER TREATMENT PLANT

ANNUAL SUMMARY REPORT

(Prepared under Ontario Regulation 170/03)

January 1 to December 31, 2020

Ministry of the Environment, Conservation and Parks

Drinking Water Works Permit # 007-201
Municipal Drinking Water License # 007-101

1. Failure to meet with the requirements of the Act, the regulation, the system's approval:

The Port Colborne Water Treatment Plant was operated in such a way that at no time did it fail to meet or exceed the requirements of the Safe Drinking Water Act, associated regulations, the system's approval or any order that may have been issued for this reporting period.

2. A summary of flows for the reporting period January 1, 2020 – December 31, 2020

| 2020 | TOTAL FLOW Raw (ML) | TOTAL FLOW Treated (ML) | AVERAGE DAY Raw (ML) | AVERAGE DAY Treated (ML) | MAX. DAY Treated (ML) | MIN. DAY Treated (ML) | MAX. FLOW RATE Treated (ML/d) | MIN. FLOW RATE Treated (ML/d) | WASTE SLUDGE (ML) |
|--------------|------------------------------------|--|-------------------------------------|---|--|--|--|--|----------------------------------|
| Jan | 213.860 | 208.780 | 6.899 | 6.735 | 8.130 | 4.840 | 27.591 | 3.897 | 2.852 |
| Feb | 199.550 | 196.190 | 7.127 | 7.024 | 7.938 | 6.100 | 17.128 | 4.277 | 1.711 |
| Mar | 225.510 | 219.090 | 7.275 | 7.067 | 8.858 | 5.420 | 12.841 | 3.846 | 1.932 |
| Apr | 206.930 | 204.240 | 6.898 | 6.808 | 7.900 | 4.590 | 12.749 | 3.682 | 2.585 |
| May | 225.330 | 218.570 | 7.269 | 7.051 | 9.070 | 5.170 | 21.678 | 3.887 | 2.851 |
| Jun | 228.870 | 223.440 | 7.629 | 7.448 | 8.625 | 6.180 | 16.451 | 3.703 | 2.491 |
| Jul | 245.660 | 239.220 | 7.925 | 7.717 | 9.574 | 5.690 | 16.431 | 3.754 | 2.609 |
| Aug | 226.180 | 221.330 | 7.296 | 7.140 | 9.340 | 4.690 | 16.708 | 3.692 | 1.640 |
| Sep | 204.540 | 201.240 | 6.818 | 6.708 | 8.110 | 4.550 | 12.742 | 3.897 | 1.562 |
| Oct | 210.440 | 207.430 | 6.788 | 6.691 | 10.483 | 4.010 | 17.764 | 3.497 | 1.553 |
| Nov | 184.850 | 178.950 | 6.162 | 5.965 | 6.910 | 3.300 | 16.482 | 3.621 | 2.306 |
| Dec | 190.030 | 189.080 | 6.130 | 6.099 | 7.730 | 4.020 | 12.574 | 4.133 | 1.612 |
| TOTAL | 2561.750 | 2507.560 | | | | | | | 25.704 |
| MIN | | | | | | 3.300 | | 3.497 | 1.553 |
| MAX | | | | | 10.483 | | 27.591 | | 25.704 |
| AVG | | | 7.018 | 6.871 | | | | | 2.142 |

*The flow rates are moments in time, and can be affected by various circumstances, such as pump changes or valve position and therefore not unusual to have higher or lower than normal flow.

3. A comparison of actual flows to that of the flow rates set out in the system's approval

Flow rates as set in:

- Drinking Water Works Permit # 007-201
- Municipal Drinking Water License # 007-101

Maximum daily flow 36.000 ML

Maximum flow rate 36.000 ML/day

| 2020 | AVERAGE DAY Treated (ML) | % OF RATED CAPACITY | MAX. DAY Treated (ML) | % OF RATED CAPACITY | MAX. FLOW RATE Treated (ML/d) | % OF RATED CAPACITY |
|------|-----------------------------------|---------------------------|-----------------------------|---------------------------|--|---------------------------|
| Jan | 6.735 | 18.7% | 8.130 | 22.6% | 27.591 | 76.6% |
| Feb | 7.024 | 19.5% | 7.938 | 22.1% | 17.128 | 47.6% |
| Mar | 7.067 | 19.6% | 8.858 | 24.6% | 12.841 | 35.7% |
| Apr | 6.808 | 18.9% | 7.900 | 21.9% | 12.749 | 35.4% |
| May | 7.051 | 19.6% | 9.070 | 25.2% | 21.678 | 60.2% |
| Jun | 7.448 | 20.7% | 8.625 | 24.0% | 16.451 | 45.7% |
| Jul | 7.717 | 21.4% | 9.574 | 26.6% | 16.431 | 45.6% |
| Aug | 7.140 | 19.8% | 9.340 | 25.9% | 16.708 | 46.4% |
| Sep | 6.708 | 18.6% | 8.110 | 22.5% | 12.742 | 35.4% |
| Oct | 6.691 | 18.6% | 10.483 | 29.1% | 17.764 | 49.3% |
| Nov | 5.965 | 16.6% | 6.910 | 19.2% | 16.482 | 45.8% |
| Dec | 6.099 | 16.9% | 7.730 | 21.5% | 12.574 | 34.9% |