



## 2020 Year End Report: Bracebridge Clean Water Plant (CWP) **Addendum**



Environmental Compliance Approval: # 6222-AFGSNY

Engineering and Public Works Department

70 Pine Street, Bracebridge, Ontario P1L 1N3

Phone: 705-645-6764

Toll-Free: 1-800-281-3483

Fax: 705-645-7599

Email: [publicworks@muskoka.on.ca](mailto:publicworks@muskoka.on.ca)

Website: [www.muskoka.on.ca](http://www.muskoka.on.ca)

### Effluent Objective Analysis

The effluent objectives were met during all sample periods with the exception of pH for the week of February 18<sup>th</sup>. During the third week of February the final effluent alkalinity dropped to an average of 44 mg/L and the pH was less than the objective of 6.5 however there was no impact upon effluent quality during this week. For the final week of February both alkalinity and pH slowly increased and by March alkalinity was back in the 100 mg/L range consistently.

Added text April 2021:

*During the low pH events in February there were 4 pH results <6.5 and they occurred in succession February 18-21 with the other 15 pH tests throughout the month meeting the effluent objective.*

### Final Effluent Analysis Summary

All final effluent samples tested for CBOD5, suspended solids, ammonia, E. Coli, and total phosphorous were below non-compliance limits outlined in the ECA.

*Table 3 Final Effluent Analysis Summary*

<b>Parameter</b>	<b>Minimum</b>	<b>4 Week Average Maximum</b>	<b>Annual Average</b>	<b>Average Loading kg/day</b>
COBD5 (mg/L)	2	3.0	2.11	7.80
Suspended Solids (mg/L)	2	3.0	2.10	7.77
Total Phosphorus (mg/L)	0.03	0.13	0.05	0.20
Ammonia (mg/L)	0.1	0.58	0.23	0.85
E. Coli (#/100 mL)	0	1.19	0.07	N/A
pH	6.24 - Min	7.83 - Max	7.57	N/A

*Section added April 2021:*

### *Summary of Bypasses, Overflows and Efforts Made to Achieve Conformance*

*There was one overflow, one bypass and one spill in the municipal collection system in 2020.*

*On June 23 during a large rain event screened wastewater bypassed from a MH into the EQ basin and lagoon for approximately 10 minutes. This was reported to the Spills Action Centre with reference # 904497 assigned. The volume of sewage bypassed is impossible to determine. The ongoing upgrades to the Lagoon Lane Headworks are anticipated to minimize the likelihood of this re-occurring.*

*On July 27 raw sewage spilled from a municipal sanitary MH located in the Rona Building Centre property on Entrance Dr. This was reported to the Spills Action Centre with reference # 3770-BRWJ8M assigned. It is estimated 4.2 m<sup>3</sup> of sewage were spilled. The same day of the event the sanitary sewer was flushed and cleaned of grease buildup with normal operation restored. The section of sanitary sewer has been added to a bi-annual flushing program until future planned work/replacement of the sewer with possible land re-development by the Town of Bracebridge.*

*On October 26 there was an overflow of raw wastewater from the inlet screening area into the EQ basin. This was reported to the Spills Action Centre with reference # 4148-BURG9T assigned. During a severe weather event the inlet barscreen jammed and resulted in approximately 480 m<sup>3</sup> of wastewater overflowing from the existing inlet works structure. This was all contained onsite and in addition a hydrovac truck was used to clean up the impacted area. The ongoing upgrades to the Lagoon Lane Headworks are anticipated to minimize the likelihood of this re-occurring.*

