

MEMORANDUM

To: Mayor Kogon and Members of Council
From: Aaron Bourgeois, Director of Operations
Date: March 20, 2023
Subject: Wastewater Treatment Facility Annual Report Summary

The 2022 annual report for our wastewater treatment facility was recently submitted for review to the Nova Scotia Department of Environment and Climate Change (NSECC).

As in previous years the facility is in compliance with the effluent limitations for TSS (Total suspended solid), pH, and CBOD (Carbonaceous Biochemical Oxygen Demand). However, the facility continues to exceed the limitations for E. Coli.

When the approval to operate the facility was renewed in November 2022 the majority of the sampling and reporting requirements did not change; however, the new approval does include some noteworthy changes;

1. The Approval Holder shall submit a plan for the management and/or disposal of residuals (sludge) on or before December 31, 2022.
 - a. Residuals management plan was submitted for review on December 9, 2022
2. The Approval Holder shall submit a plan for mitigating odours at the Site by January 31, 2023.
 - a. Odour mitigation plan was submitted for review on January 20, 2023
3. If the Approval Holder reports a non-compliance of this approval, then the approval holder must prepare and submit a System Assessment Report that is due exactly one year from the day the non-compliance was reported. The report must be prepared by a third-party Professional Engineer that is experienced in wastewater treatment facility operations.
 - a. The first quarter averages for E. Coli are expected to exceed the approval limitations and must be reported to NSECC as a non-compliance. The cost to have the system assessment report completed is estimated to be \$10,000.
4. The Approval Holder shall prepare a plan for incorporating and initiating ultraviolet (UV) disinfection into the treatment process at the site if not in compliance with E. coli criteria by January 1, 2024.
 - a. Staff have included \$600,000 in year 2 (2024/25) of the recently approved capital budget in anticipation that UV disinfection equipment will be required.