



The Corporation of the Township of Huron-Kinloss

Staff Report

Report Title: Water-Wastewater July 2024

Date: Jul. 3, 2024

Report Number: PW-2024-07-32

Department: Public Works

File Number: C11 PW 24

Prepared By: John Yungblut, Director of Public Works

Attachments: Monthly Water/Wastewater Summary, Kincardine DWQMS

Recommendation:

THAT the Township of Huron-Kinloss Committee of the Whole hereby receives for information Report PW2024-07-32 prepared by John Yungblut, Director of Public Works;

AND FURTHER approves the 2024 Kincardine Drinking Water Quality Management System Huronville Operational Plan.

Background:

Monthly Summary

Our Operating Authority, Veolia Water Canada, has prepared a summary of the water and wastewater operations over the past month and is attached to this report.

Sanitary Maintenance Hole Repairs

Township staff have accepted the proposal from Specialty Grouting Services Inc. for the repair of nine maintenance holes in Lucknow and six in Ripley at an upset limit of \$66,750 plus HST. The work in Ripley was completed from May 23rd until May 31st and the repairs in Lucknow we completed from June 5th until June 10th.

Lakeshore Air Release Chamber Repairs

Our Operating Authority has determined that all eight concrete structures that contain air release valves on the Lakeshore water distribution system have groundwater infiltration issues, which impacts their functionality. After seeing how cost effective the maintenance hole repairs were, Township staff authorized Speciality Grouting Services Inc. for the repair of the eight structures. The repairs were completed from June 14th until June 19th.

Ripley Pumphouse MCC Replacement

The replacement of the Motor Control Centre (MCC) at the Ripley Pumphouse (Ripley Well 2) was originally approved in the 2023 Capital Budget and carried over in the 2024 budget due to the lead time of the materials. The equipment was

ordered in April 2023 and was delivered in April 2024. The replacement project is scheduled to begin on July 15, 2024.

Kincardine DWQMS

The Huronville subdivision is serviced by the Municipality of Kincardine, so approval of their Operational Plan is required by the Township.

Imported Sewage Disposal

Township staff have been working with our consulting engineers to design and construct a disposal station at the Ripley Lift Station that will allow for this disposal of imported sewage from septic systems, holding tanks and portable toilets.

In December 2023, we had to switch the sewage disposal procedure from dumping directly into the primary treatment cell at the Ripley Lagoon to dumping into a maintenance hole on Park St. This is a result of high turbidity levels in the final treatment cell that prevented fall discharge from occurring on schedule.

Unfortunately, two sewage spills occurred in the span of two weeks, so the decision was made to suspend the disposal of imported sewage until a proper disposal station could be constructed.

Discussion/Analysis/Overview:

Sanitary Maintenance Hole Repairs

Township staff are pleased with the results of the repair work.

Ripley Pumphouse MCC Replacement

Township staff look forward to completing this project especially now that Ripley Well 2 had to be taken offline on May 23, 2024 due to serious corrosion issues that prevented the existing MCC from operating properly. Fortunately, Ripley Well 3 and 4 are fully capable of operating the Ripley water distribution system.

Kincardine DWQMS

This updated plan only has minor changes that pertain to changes in personnel and daily working hours. Township staff have no concerns with the plan.

Imported Sewage Disposal

Township staff are in the process of finalizing a design and determining construction costs. We are also working with our engineers to apply for an amendment to our Environmental Compliance Approval (ECA) to specify that imported sewage is permitted in the Ripley wastewater system because it is not clear in our current ECA.

There are other questions that we are looking at as well:

1. What is the overall volume of imported sewage that we should accept in our system?
2. Should portable toilet sewage have a specific limit or if it should be accepted at all?
3. Should we accept imported sewage from outside of the Township?
4. If imported sewage is accepted from outside of the Township, how do we ensure that sewage from Huron-Kinloss properties is given priority?

5. What is the appropriate fee structure? Should the rates be higher for imported sewage from outside of the Township and portable toilets?

There is a concern that the chemicals used in portable toilets may have more of negative impact on the biology of our treatment system than other imported sewage, which is why a limit may be required on that type of waste.

We may need to construct this over multiple phases because we are aware that there will be an increased need for disposal stations in November when land disposal is no longer permitted. The 2024 budget may only allow for the construction of the core components of the disposal station and other upgrades may be required in future years. This is still to be determined.

Financial Impacts:

The 2024 Operating Budget allocated \$75,000 for maintenance hole repairs and \$35,000 for an imported sewage disposal station. The 2024 Capital Budget allocated \$260,000 for the Ripley MCC Replacement project.

Performance Measurement:

Township staff will be tracking sanitary sewer flows after the work is completed to see if there is any impact to the capacity of our system.

Strategic Area:

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| <input type="checkbox"/> Embrace a thriving rural lifestyle | <input checked="" type="checkbox"/> Enhance Municipal Service Delivery |
| <input checked="" type="checkbox"/> Prepare for Inclusive Growth | <input checked="" type="checkbox"/> Ensure Financial Stability |

Strategic Goal: Manage assets and infrastructure

Respectfully Submitted By:

John Yungblut, Director of Public Works

Report Approved By:

Jodi MacArthur, Chief Administrative Officer