



Staff Report

Report Title: Transportation May 2023

Prepared By: John Yungblut, C.E.T., Director of Public Works

Department: Public Works

Date: May. 1, 2023

Report Number: PW-2023-05-28

File Number: C11 PW23

Attachments: Point Clark EA Public Notice

Recommendation:

THAT the Township of Huron-Kinloss Committee of the Whole hereby receives for information, Report Number PW-2023-05-28, prepared by John Yungblut, Director of Public Works.

Background:

Ripley SW Storm Sewer

The tender for the replacement of the storm sewer in the southwest area of Ripley was awarded to Omega Contracting on July 18, 2022. Part 1 of the project which is located on the north side of the Fair Municipal Drain was completed in September 2022, and Part 2 began on January 30th and the storm sewer installation up to Park St. was completed on March 1st.

North Point Clark Drainage Master Plan

Beginning the week of May 1st, Township staff will be initiating a Municipal Class Environmental Assessment for the northern portion of Point Clark between Clark Creek and the Pine River (see attached notice). Based on the results of several rainfall and rapid spring thaw events, it is clear to Township staff that the road drainage in several locations in this area is not adequate.

Staff will be distributing notices to all property owners in the study area and advertising the project in local newspapers. The initial study period will include collecting information from landowners impacted by inadequate road drainage.

April 5th Rain Event

On April 5, 2023, the Township received a significant amount of rainfall in a short period of time. According to the SVCA weather station data, Ripley received 49.8mm of rain from 9:00am to 3:30pm.

For the most part the Township drainage systems functioned as they were designed, however, Lake Range Dr. at St. Arnaud was closed by Public Works due to flowing water on the road surface (see photo below).



There were two other locations where water entered the roadway, but it was not deemed to be severe enough to warrant a full road closure. One location was on Lake Range Dr. south of Con. 8 where the existing road culvert was restricted by vegetation debris from neighbouring agricultural fields (see photo below).



Another location was on Bruce Beach Road which did sustain some flooding south of Highland Dr., however, staff determined that a road closure was not necessary (see below photo).



Street Sweeper Rental

Our 1995 Johnston street sweeper has a blown head gasket and Township staff have decided to not repair it and wait for a new machine. In the interim, we have decided to rent a street sweeper for the month of April. The 30 day rental contract is \$10,000 plus HST.

Gravel Pit Applications

The Township have applied for a Class B (above water) gravel pit permit for the property that was purchased on Kairshea Ave in 2019 and for a Class A (below water) permit for the existing gravel pit property located on Paradise Lake St.

Discussion:

Ripley SW Storm Sewer

The Contractor completed the restoration of the agricultural field by March 31st and the project is now complete.

North Point Clark Drainage Master Plan

This process will differ from a Municipal Drain because, although we will consider comments from private landowners, the focus of this project will be to provide road drainage and not necessarily private property drainage.

The drainage system also does not need to be constructed at one time. The Township can prioritize certain areas based on the severity of the drainage issues and consider the overall plan when undertaking road improvement projects.

April 5th Rain Event

Unfortunately, SVCA does not have any weather stations west of Ripley, so we have to rely on anecdotal reports from residents with rain gauges to determine the rainfall that was received along the Lakeshore. Staff have received reports of measured rainfall amounts ranging from 75-100mm over a similar period to Ripley. Township staff are in discussions with SVCA regarding the possibility of installing a weather station at a Township facility in the Lakeshore area, so we have access to better data in the future.

Township staff are aware of the drainage issues in the northern Point Clark area, which caused the flooding on the road and some residential properties in the area. Our intent is to investigate solutions to the drainage problems thorough the Point Clark Drainage Master Plan process to help mitigate the impact of these rainfall events.

An existing culvert in the area of the Lake Range Dr. flooding is scheduled to be replaced this year. Staff are planning to replace the existing 600mm dia. steel pipe with a 600mm high density polyethylene (HDPE) at a slightly lower elevation. The ravine downstream of the culvert has been inflicted with erosion issues, which we are planning to remediate through this project. Staff have explored the possibility of increasing the size of the culvert, however, we are concerned about the impact to the ravine if an increased storm flow is permitted.

It appeared that a major contributor to the flooding on Bruce Beach Road was the discharge from Highland Dr. which does not have an adequate outlet. This area was included in the 2018 Bruce Beach Municipal Drain petition and the engineer recommended constructing an infiltration gallery under the road to eliminate the need of another outlet to the lake. It was later decided to not proceed with this portion of the project since the impact on the roadway was far less significant than the area that was improved near #98 and this project would be better suited as a municipal storm sewer project rather than using the Drainage Act.

Street Sweeper Rental

The rental machine is working out well so far. It has been in Lucknow and Ripley and it is currently being used in the Lakeshore area.

Gravel Pit Applications

The public consultation period for the Class B permit ended on April 10, 2023 and staff have received one letter of objection from the neighbouring landowner. The concerns were related to noise, dust and traffic, which are all addressed in our application. We are also currently in consultation with the Saugeen Ojibway Nation.

The below water application on the Paradise Lake St. property is still in the design phase and staff are expecting to be ready to submit our application to the Ministry soon.

Financial Impacts

The Ripley SW Storm Sewer project is included in the Capital Budget. The 2023 Capital Budget has allocated \$35,000 for the North Point Clark Drainage Master Plan and \$55,000 for the gravel pit applications. Street sweeping expenses are included in the Operating Budget.

Strategic Alignment / Link:

We are an accessible community by being open and transparent.

We are a prosperous community that continues to grow in a sustainable manner by investing in infrastructure.

Respectfully Submitted By:

John Yungblut, Director of Public Works

Approved By:

Mary Rose Walden, Chief Administrative Officer