



Staff Report

Report Title: Municipal Drain Status Update July 2024

Date: Jul. 3, 2024

Report Number: DRA-2024-07-02

Department: Drains

File Number: C11 DRA 24

Prepared By: Ken McCallum, Drainage Superintendent

Attachments: None

Recommendation:

THAT the Township of Huron-Kinloss Committee of the Whole hereby receives for information Report DRA-2024-07-02 prepared by Ken McCallum, Drainage Superintendent.

Background:

Municipal Drainage projects are in various stages of completion. This report is to provide the Committee with an update on each drain in progress.

Discussion/Analysis/Overview:

Capital Works

Park Street & Railway Street Municipal Drains

Construction on phase 1 of the Park Street drain has started with the pipe installation complete. Construction of the swale is currently being conducted by the contractor while the cleanout of the open portion of the Fair drain cannot be undertaken until July 15th as per DFO's in water timing windows. Completion for the project is expected by mid summer 2024.

Bruce Beach Drain (Phase I)

The Contractor has successfully completed the deficient items on the Bruce Beach Drain except for the hydroseeding and the adjustments to the guide rail on Lake Range Drive.

The Township has retained approximately 3% of the contract amount as a maintenance holdback for a period of 1 year. To release this holdback, the Township's designated representative must verify the satisfactory completion of all remaining deficient work.

Bruce Beach Drain (Phase II)

The SVCA has completed a review of the dynamic beach study report. Headway Engineering has addressed all SVCA's concerns regarding the dynamic beach study

report and are now finalizing the proposed design to present to landowners at the next information meeting.

Clark Creek Municipal Drain

Construction of the Clark Creek Municipal Drain started in summer 2023. Construction is completed except for site 'J'. Construction at site 'J' includes 210m of channel realignment, construction of two riffles consisting of approx. 14,000m cu. of riffle stone to be installed, 135m of vegetated riprap for bank protection, construct 92m of laneway and cut/lower 0.4m out of the old cofferdam. Construction to site 'J' will commence after the July 15th fisheries timing window opens.

Hamilton Municipal Drain:

K. Smart & Associates Limited are appointed under Section 78 of the Drainage Act to make improvements to the Hamilton Municipal Drain.

A site visit was held on April 23, 2024, to discuss design considerations with Ducks Unlimited who are planning to restore and enhance the pond located at the downstream portion of the drain. Design considerations would allow the municipality to control the normal water levels of the pond suitable for upstream landowners' drainage requirements while allowing Ducks Unlimited to manage any future maintenance or restoration to the pond below specified water levels.

The open channel of the Hamilton drains through lots 8-9, Concession 1, requires bank restoration along a large length of the drain as well as ditch bottom cleanout. Municipal staff continue to correspond with the engineer to produce a report to council in the fall.

Gaunt-Laidlaw Municipal Drain

The Engineer's report was referred to the Engineer by Council for changes to the design and report. Municipal staff have followed up with the engineer to make the necessary changes required and expect to provide the revised report to Council in Spring of 2024 for consideration.

Vandiepenbeek Municipal Drain

July 12, 2022, Headway Engineering Limited held an onsite meeting at the Ripley Community Center to discuss the current issues that landowners are having with the drain. The Engineer presented his findings, proposed design, and provided landowners with estimated assessment costs at a meeting held on April 27, 2023. The Engineer's Report was accepted by Council on October 16, 2023. The project has been awarded and with an expected completion by fall 2024.

Black Creek Municipal Drain

A public meeting held Tuesday April 11, 2023, provided landowners information collected to date, some preliminary design ideas and an opportunity to discuss the scope of work needed to address the ongoing issues landowners are experiencing. The meeting was not well attended. Municipal staff are collaborating with the engineer appointed to continue with the design to present to landowners at an information meeting in spring of 2024.

Thompson Lamont Deyell Municipal Drain

The Municipality of Morris-Turnberry has received a notice of request for a drain improvement. The Council of Morris-Turnberry has appointed Streamline Engineering to prepare a report for replacement of a culvert that is part of the Thompson Lamont Deyell drain. Lands within the Township of Huron-Kinloss contribute to the watershed and shall be assessed costs. Council will need to pass a by-law once the report has been considered to raise costs for the construction of the work.

Maintenance Works

Ackert Municipal Drain

A drain maintenance request has been received to remove trees and blockages from the Ackert drain downstream of Karishea Ave. Landowners upstream of the work will be assessed costs for the maintenance work.

Gaunt Municipal Drain

A request was received for Drain cleanout in Lots 29, 30, & 31 Concession 2, Kinloss. Maitland Valley Conservation Authority (MVCA) approvals have been received. The drain is classified as an 'F' class drain in which there are no requirements for Fisheries and Oceans Canada (DFO) approval. A contractor has been engaged to facilitate the work mid-summer.

Stewart Municipal Drain

A request has been made for a clean out downstream of Concession A, Pt. Lot 60, Parcel ID (9-121-01). A landowner has requested that a portion of Concession 12 roadside ditch be cleaned out to relieve private lands from flooding. All approvals have been obtained. Drain maintenance will be completed after July 15th.

Reavie Municipal Drain

1 to 1.5 ft of sediment has been observed in the entire length of the Reavie drain. Approximately 3,500 meters of bottom cleanout is required to have the drain function as it was originally designed again. Brushing will be necessary at the drain outlet and along various parts of the drain for access to complete the work. All approvals have been obtained. Maintenance will be completed after July 15th.

Ripley Storm Sewer 1947

On December 15th, 2023, municipal staff were onsite with CT Environmental to Camera, flush and remove tree roots with their root cutter within the Ripley Storm Sewer 1947. CT Environmental were unable to cut through the roots within the drain. The location was marked at the obstruction. Staff are working to excavate the location and fix the tree root problem.

John-Fair Municipal Drain

Sediment has accumulated in the ditch bottom over the past several years and needs to be removed to improve flows at Concession 12 Road. Approximately 1,000m of bottom cleanout is required to have the drain function properly again. Minor brushing is also required along the top of bank and side slopes to access the drain. Approvals were received by August 2023; however, Staff was unable to have a contractor mobilized before September 15th, which is SVCA's timing window closure for in water work according to the sediment control policy. Staff have obtained an extension for the approval to complete the work in 2024. Work will be conducted after July 15th.

Carrick Municipal Drain

The Carrick municipal tile drain has failed and created a sinkhole in a resident's yard within the village of Whitechurch. Investigations revealed that the Carrick municipal drain open portion needs repair and maintenance. The open portion of the drain has become overgrown with trees which have caused obstructions in the drain. Sediment has built up causing the Municipal drain tile outlet to be submerged under water. Staff are working to obtain approval from DFO. A permit will be required from the Conservation Authority as the work will commence within a regulated wetland area.

A. McDonald Municipal Drain

A request has been made to cleanout a section of the A. McDonald Award Municipal Drain. The Landowner of Lot 2, Concession 2, Huron would like approximately 450m of the open drain maintained on his property. Staff are working to obtain approvals from DFO to complete in water work and have notified the Conservation Authority of the work to ensure permits are not required as work is outside the regulated wetland area. Maintenance is tentatively set to conduct after July 15th.

Black Creek SW Municipal Drain (Hayes Lake Beavers)

Beavers are in the Black Creek municipal drain Southwest section blocking the outlet to Hayes Lake raising water levels the are encroaching Hayes Lake Ave. A trapper has been notified to remove the beaver.

Carruthers Municipal Drain

The Carruthers drain was constructed under By-Law 7-1965. The outlet pipe of the Carruthers municipal drain is plugged with tree roots where it enters the Ackert drain. Trees are located along the drain corridor and the drain is expected to have several blockages at various locations. Repairs to the tile drain are required to have the drain function properly again.

Kincardine-Kinloss Municipal Drain

A request to clean out a portion of the Kincardine-Kinloss municipal drain has been made. Staff has investigated the drain and recommend a cleanout from the boundary line in Lot 1, Range 2 NDR, for approximately 2,500m upstream to the top end of the open portion of the municipal drain in Lots 7-8, Range 1 NDR. Municipal staff are working on obtaining approvals.

McEwan Municipal Drain

Drain Maintenance has been completed on the McEwan Municipal Drain. Approximately 12m of 200mm tile drain was replaced in Pt. Lot 13, Range 1 SDR. Staff are working to assess out costs to landowners.

Financial Impacts:

The cost of constructing, maintaining and/or repairing municipal drains is assessed to all the landowners within the drain watershed depicted in the last engineer's report as outlined in the *Drainage Act, 1990*. The Township is responsible for any Assessments to all Municipal lands and roads as determined by the engineer.

Performance Measurement:

N/A

Strategic Area:

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

Strategic Goal: Protect, promote and restore our natural environment

Respectfully Submitted By:

Ken McCallum, Drainage Superintendent.

Report Approved By:

Jodi MacArthur, Chief Administrative Officer