



Staff Report

Report Title: Bruce Beach Municipal Drain Phase I Update (13), Phase II Update (10), Branch 'A' Update (7)

Prepared By: Ken McCallum

Department: DRAINS

Date: May. 1, 2023

Report Number: DRAIN-2023-05-10

File Number: C11 DRAIN 23

E09 BRU-19

Attachments: None

Recommendation:

That the Township of Huron-Kinloss Committee of the Whole hereby receives for information Report DRAIN-2023-05-10 prepared by Ken McCallum, Drainage Superintendent

Background:

Phase I

The detention facility has been constructed with topsoil grading and hydroseeding completed. Repairs to the slope on Lake Range Drive are complete with only a few remedial items left to finish. Hydro seeding and rip rap have been completed to the slope.

Deficiencies Left:

- Grading to Rip-rap lined swale and settlement areas where applicable
- Make sure Hydro seeding takes hold
- Pipe Flushing, cleanout sediment in catch basins, and Vac truck outlet on both sides of Bruce Beach Road.
- Guiderail adjustment and end treatment

Phase II

True Consulting the new Coastal Engineer has submitted its component to address Saugeen Valley Conservation Authority (SVCA)'s concerns to Headway. They are

reviewing and addressing concerns. The dynamic beach study report will be presented to SVCA in the near future. Once all SVCA's concerns are met Headway Engineering may proceed and present the proposed design to landowners at the next information meeting.

Bruce Beach Municipal Drain Branch 'A'

Branch 'A' is included with Phase II. Headway will present the design to landowners at the next information meeting.

Discussion:

On April 5, 2023, a large rainstorm event passed through the municipality. Bruce Beach municipal drain was tested with rainfall amounts which exercised the full storage capacity of the detention facility that was designed to a 100-year rain fall event.

The reduced flow rate controlled by the detention facility's outlet structure conveyed water at a controlled rate down the ravine in which no damages were sustained to Bruce Beach Road or any of the downstream property owners. The detention facility greatly increased the safety factor against flooding for downstream portions of the designed drainage system. Phase II will provide a pipe system and basin for Bruce Beach Road further increasing the safety factor by containing the flows through a piped system down to the outlet at the lake shore.

Financial Impacts:

The Municipality is responsible for any assessments to all Municipal lands and roads as specified by the Engineer.

Strategic Alignment / Link:

We are a prosperous community that continues to grow in a sustainable manner while being environmentally conscious and good stewards of our natural environment.

Respectfully Submitted By:

Ken McCallum, Drainage Superintendent Huron-Kinloss

Report Approved By:

Mary Rose Walden, Chief Administrative Officer