



## Staff Report

**Report Title: Bruce Beach Municipal Drain Phase I Update (9), Bruce Beach Municipal Drain Phase II Update (6) Bruce Beach Municipal Drain Extension Branch 'A' (3).**

**Prepared By: Ken McCallum**

**Department: DRAIN**

**Date: Sep. 7, 2022**

**Report Number: DRAIN-2022-09-17**

**File Number:**

**D08 DRAIN**

**Attachments: None**

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### **Recommendation:**

That the Township of Huron-Kinloss Committee of the Whole hereby receives for information Report DRAIN-2022-09-17 prepared by Ken McCallum, Drainage Superintendent.

### **Background:**

#### Construction – Bruce Beach Municipal Drain – Phase I

Phase I report includes the construction of the Pond Detention facility, ravine work between Lake Range Drive and Bruce Beach Road.

#### Bruce Beach Municipal Drain – Phase II

Phase II will finalize the outlet to the lake for the watercourse.

#### Bruce Beach Municipal Drain Extension (Branch 'A')

Branch 'A' will be included with Phase II work.

### **Discussion:**

#### Phase I

The detention facility has been constructed with topsoil grading and hydroseeding completed. On August 26, a construction meeting was held with the Contractor, Headway Eng., Geotechnical Engineer (CMT), and representatives of the Township to discuss the deficiencies and repairs to the slope on Lake Range Drive. It was agreed that the fill material shall be removed on the slope exposing the old roadbed

granular material. Sub drains are to be installed to receive any excess water seeping out of the road which is to be directly connected into the catch basin at the bottom of the Slope. 2-3 layers of Geogrid placed at intervals specified by the Geotech at the time of construction have been proposed to help stabilize the slope and prevent future failure.

Repairs to the slope on Lake Range Drive is scheduled to start on September 2<sup>nd</sup>, 2022. The Geotechnical Engineer will be on-site to oversee the work and make any on-site adjustments deemed necessary to properly address issues with the slope. Deficiency repairs to the ravine will commence after the slope is repaired.

The landowners of Lots 42 & 43 who have been paid cut off allowances for their underdrainage shall not reconnect their tile drainage or perform any work to their lands within the regulated area of the drainage works until the contract has been deemed substantially complete and all legal liability under the contract has been removed from the current contractor.

### Phase II

The Costal Engineer originally consulted to complete the dynamic beach study is no longer available. True Consulting has been retained as the new Costal Engineer to complete the study. Site inspection were completed by True Consulting and Headway Engineering on August 29, 2022. A meeting will be held on September 2<sup>nd</sup> to review the floodplain study completed by Headway presented to SVCA.

### Bruce Beach Municipal Drain Branch 'A'

Headway Engineering has received comments from landowners regarding the branch 'A' drain and is finishing the proposed design. Once finished Headway will present the design to landowners at the next information meeting.

### **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

### **Approved By:**

Mary Rose Walden, Chief Administrative Officer