



The Corporation of the Town of Tecumseh

Public Works & Environmental Services

To: Mayor and Members of Council

From: Phil Bartnik, Director Public Works & Environmental Services

Date to Council: June 9, 2020

Report Number: PWES-2020-19

Subject: Amend 2020-2024 PWES Five Year Capital Works Plan
Manning Road Pump Station – Fish Pond Inlet Erosion Repair

Recommendations

It is recommended:

That the Manning Road Pump Station – Fish Pond Inlet Erosion Repair **be added** to the PWES 2020-2024 Public Works & Environmental Services Five Year Capital Works Plan;

And that the expenditure of \$100,000 from the Storm Lifecycle Reserve **be authorized** to complete the Manning Road Pump Station – Fish Pond Inlet Erosion Repair in 2020.

Background

The purpose of this report is to obtain Council approval for Public Works & Environmental Services department to undertake erosion repair to the fish pond inlet located at the Manning Road Pump Station.

Comments

The Manning Road Pump Station, located on Riverside Drive at the intersection of Manning Road, was reconstructed in 2012 as part of the Manning Road Improvement Project, Phase 1.

A fish habitat enhancement area was incorporated into the pump station reconstruction project as required in the authorization from the Department of Fisheries and Oceans (DFO) for the harmful alteration, disruption or destruction of fish habitat for the enclosure of a portion of the East Townline Drain related to the construction of the pump station.

A combination of record high water levels of Lake St. Clair and strong winds has caused erosion of the east bank of the pond inlet due to wave action. Refer to location map provided in Attachment 1.

Slumping of the east bank has subsequently exposed electrical conduits. Continued erosion could potentially undermine the stability of the decorative fence and undermine the adjacent walkway compromising the integrity of the walkway and safety to pedestrians. A picture of the bank failure due to erosion is provided in Attachment 2.

Following a review of the bank failure, the need for an armour stone revetment may be required, which would consist of quarried armour stone blocks placed over an under layer of rip-rap or gabion stone and geotextile. These erosion control structures are durable and perform well under the prevailing lake conditions.

It is recommended that Dillon Consulting Limited (Dillon) be retained to undertake the detailed design, Contract Administration and On-Site Services for the bank repair and shoreline protection in the fish pond inlet due to their previous involvement with this project.

Immediate repair is required to mitigate further damage to infrastructure; however, due to the “no in-water works fish timing windows,” works would not be able to proceed until after July 15th. Following Council’s approval, Dillon’s project team is available to commence the project and obtain all required permits from DFO and Essex Region Conservation Authority (ERCA).

Consultations

Financial Services
Dillon Consulting Limited

Financial Implications

The estimated cost to repair the embankment of the fish pond inlet is \$100,000 and would be allocated from the Storm Lifecycle Reserve. This cost includes a contingency for unforeseen issues in isolating the fish pond from the lake in order to assess the damage and conduct the necessary repairs.

Pending Council approval of the recommendation of this report, the Storm Lifecycle Reserve projected deficit balance, as attached to Council report PWES-2019-49 titled “2020-2024 PWES Five Year Capital Works Plan” will increase to \$(2,750,030).

As part of the 2020 Operational Budget, there was an allocation of \$100,000 from the Tax Rate Stabilization Reserve in the Storm Sewer System as a contingency to be used if required due to increasing lake levels (\$50,000 in Contracts and \$50,000 in Maintenance Materials & Supplies). To date we have utilized these funds for the purchase of additional sand bags, and would recommend keeping the remainder of the funds available in the event lake flooding issues arise through the summer/fall of 2020.

Link to Strategic Priorities

Applicable	2019-22 Strategic Priorities
☐	Make the Town of Tecumseh an even better place to live, work and invest through a shared vision for our residents and newcomers.
☐	Ensure that Tecumseh's current and future growth is built upon the principles of sustainability and strategic decision-making.
☒	Integrate the principles of health and wellness into all of Tecumseh's plans and priorities.
☒	Steward the Town's "continuous improvement" approach to municipal service delivery to residents and businesses.
☐	Demonstrate the Town's leadership role in the community by promoting good governance and community engagement, by bringing together organizations serving the Town and the region to pursue common goals.

Communications

Not applicable ☒

Website ☐

Social Media ☐

News Release ☐

Local Newspaper ☐

This report has been reviewed by Senior Administration as indicated below and recommended for submission by the Chief Administrative Officer.

Prepared by:

Cheryl Curran, BES
Project Technician

Reviewed by:

John Henderson, P.Eng.
Manager Engineering Services

Reviewed by:

Tom Kitsos, CPA, CMA, BComm
Director Financial Services & Chief Financial Officer

Reviewed by:

Phil Bartnik, P.Eng.
Director Public Works & Environmental Services

Recommended by:

Margaret Misek-Evans, MCIP, RPP
Chief Administrative Officer

Attachment Number	Attachment Name
1	Location Map
2	Picture of Bank Erosion