

**DATE:** August 12, 2024  
**REPORT NO:** PW-20-2024  
**SUBJECT:** **Stormwater Management (SWM) Pond Assessments**  
**CONTACT:** Ray Vachon, C.E.T., Project Manager  
Mike DiPaola, P.Eng., Director of Public Works & Recreation

**OVERVIEW:**

- Stormwater Management (SWM) is part of the development process.
- SWM ponds / facilities are part of the Township’s infrastructure and require maintenance to remain in compliance with our Municipal Consolidated Linear Infrastructure Environmental Compliance Approval (CLI ECA)
- The Township has 8 SWM ponds and 4 oil/grit separators.
- An assessment was completed of our SWM ponds as approved under the 2023 capital budget.
- Several of SWM ponds / facilities require maintenance and will be added to the 10 year budget forecast.

**RECOMMENDATION:**

1. That Information Report PW-20-2024 titled “Stormwater Management (SWM) Pond Assessments” dated August 12, 2024 be received for information.

**ALIGNMENT TO STRATEGIC PLAN:**

**Theme #1**

- **Build a safe, connected, caring and active community**

**Theme #2**

- **Champion strategic and responsible growth**

**BACKGROUND:**

Stormwater management (SWM) is part of the development process for new subdivisions and site plans. The purpose of SWM is to control stormwater flows to prevent erosion and/or to control water quality through sediment retention. There are various methods to manage stormwater, but within an urban environment, a stormwater management pond and oil/grit separators are the most common practices.

These facilities are part of the Township's stormwater infrastructure which requires monitoring, maintenance, and repairs over its life cycle to stay compliant with our Municipal Consolidated Linear Infrastructure Environmental Compliance Approval (CLIECA).

The Township currently has 8 ponds and 4 oil/grit separators that are part of our stormwater management infrastructure, and they range in age from 4 to 30 years old.

The Township has never inspected and/or assessed the condition of our SWM facilities. As such, Council approved \$60,000 as part of the 2023 Capital Budget to undertake the condition inspection and needs assessment. In the Fall of 2023, the Township joined the Town of Grimsby and Lincoln for a joint Request For Proposal (RFP) to retain a consultant to complete the inspections and assessments. Matrix Solutions Inc. was the successful proponent, and the Township's portion of the costs was \$22,600.

The consultant began work immediately upon award and the Township received the final report in February 2024.

### **CURRENT SITUATION:**

The consultant's final evaluation report, "Stormwater Management Facility Needs Program Report", details the existing condition of our SWM facilities and provides maintenance prioritization and preliminary cost estimates to complete the recommended maintenance activities. Several of the ponds have sediment build up and require maintenance as to make sure these facilities are functioning as designed.

Of the eight (8) SWM ponds, five (5) ponds require cleanout maintenance immediately while one (1) pond will require cleanout maintenance in five (5) years. One of the SWM ponds requires only minor maintenance which can be completed by Administration with existing resources.

One of the four oil/grit separators requires cleanout immediately, while the remaining 3 have little to no sediment resulting in no maintenance at this time.

Administration will be adding these projects to the 10 year budget forecast which will be presented as part of the 2025 Draft Budget. The consultant's report and preliminary estimates for these maintenance activities is approximately \$2.6 million.

### **FINANCIAL IMPLICATIONS:**

There are no direct financial implication as a result of this report, however based on the consultant's final "Stormwater Management Facility Needs Program" Report, funding in the amount of \$2.6 million will be required to address the recommended maintenance activities.

Administration will develop and propose a funding model for this on-going maintenance program as part of the Draft 2025 Budget and ten year forecast.

**INTER-DEPARTMENTAL COMMENTS:**

This report has been reviewed by the Director of Finance, CAO, and the Clerk's Office.

**CONCLUSION:**

This report is to inform Committee and Council that the Township's stormwater management ponds / facilities are vital infrastructure and as a result of our recent condition inspections and needs assessment, funding will be required in the capital budget forecast to maintain these facilities.

**SCHEDULE(S):**

SCHEDULE A – SWM Facility Key Plan & Needs

**Prepared and Submitted by:**



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**Ray Vachon, C.E.T.  
Project Manager**

**Approved by:**



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**Truper McBride  
CAO**



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**Mike DiPaola, P. Eng.  
Director of Public Works & Recreation**