



The Corporation of the Municipality of Arran-Elderslie

Staff Report

Council Meeting Date: January 10, 2022

Subject: SRW.22.03 Elgin Street, Tara Drainage

Report from: Scott McLeod, Public Works Manager

Appendices: Appendix A - Resident Letter to Municipality
Appendix B - GSS Letter Report, Elgin Street Flooding

Recommendation

Be It Resolved that Council hereby,

1. Receive the GSS Letter Report on Elgin Street Flooding and await the completion of the Tara Stormwater Study before undertaking major improvements.
2. Approve the interim use of proposed 2022 operational budget funds to complete maintenance items and ditching as needed, from account 01-3018 – Environmental – Storm Water.

Report Summary

In August 2021, a letter was sent from the residents at 89 Elgin Ave in Tara concerning surface water and drainage issues. Included with the letter was a petition with eleven signatures from homeowners living on Elgin Ave. The letter is attached as Appendix A. Homeowners along Elgin Avenue in Tara felt that as a result of the more recent built Chestnut Hill subdivision maybe causing their flooding/drainage problems.

Background

GSS Engineering (GSS) has been actively working on a Stormwater Assessment Need Study for Arran-Elderslie.

Due to their familiarity with the area and the work they are currently undertaking, GSS was requested to review the drainage concerns that were raised on Elgin Avenue in Tara.

As part of the background work, GSS completed a field investigation through a site visit, CCTV inspection with Municipal Staff and a topographic survey.

The conclusions drawn from the investigation were as follows:

- Flooding along Elgin Avenue is unrelated to the Chestnut Hill Subdivision.
 - Collapsed clay sewer piping on the east side of Elgin Avenue may potentially have foundation drains connected to it.
 - Drainage through the ditch is not ideal due to partially filled culverts.
 - Rear yard catch basins and outlets are undersized and improperly built.
 - The storm sewer outlet on Elgin Avenue may be undersized but cannot be upgraded due to location between present home foundations.
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Analysis

The following five recommendations were presented in the GSS Letter Report attached as Appendix B.

1. Improve ditching to at least a 2-foot depth or replace with an urban curb & gutter design.
2. Replace existing collapsed clay sewer, which potentially provides foundation drains.
3. Procure easements along eastside of homeowner backyards. Provide new catch basins with proper outlet sizing.
4. Eliminate the road dip profile on Elgin Ave, with a positive slope to Matilda Street.
5. Construct a new storm sewer on Matilda Street.

The GSS Letter Report recommends waiting for the completion of the Stormwater Study for Tara before undertaking the major recommendations along Elgin Avenue. In the interim, funds from the proposed 2022 operational budget should be allocated to address repairs where possible and complete ditching.

Link to Strategic/Master Plan

This report will link to the Stormwater Assessment Study and the Consolidated Linear Infrastructure – Environmental Compliance Approval (CIL-ECA).

Financial Impacts/Source of Funding/Link to Procurement Policy

Funds to complete necessary maintenance items would be drawn from the operational budget account 01-3018 – Environmental – Storm Water. The 2022 draft budget as presented identifies \$25,622 (2021 Budget \$23,365).

Major upgrades with design changes, installing catch basins and piping must be financed through the Capital Budget. Capital upgrades to the stormwater management system are becoming increasingly expensive to the municipal tax base. Past project estimates for stormwater work have been approximately \$1200 per metre. Based on this estimate, the Elgin Avenue budget estimate would be approximately \$226,000. Once the Stormwater Needs Study has been completed, a more comprehensive plan and budget analysis will be completed.

Approved by: Sylvia Kirkwood, Chief Administrative Officer