



Staff Report

Planning & Development Services – Development

Engineering Division

Report To: Committee of the Whole
Meeting Date: April 23, 2018
Report Number: PDS.18.46
Subject: Craigleith Camperdown Subwatershed Study Update
Prepared by: Brian Worsley, Manager Development Engineering

A. Recommendations

THAT Council receive Staff Report PDS.18.46, entitled “Craigleith Camperdown Subwatershed Study Update”, and

SHOULD the Grey Sauble Conservation Authority receive matching Public Safety Canada funding, that Council endorse the transfer of \$50,000.00 from the Craigleith Camperdown Subwatershed Update Budget, to the Grey Sauble Conservation Authority, to facilitate updating the 1993 Craigleith Camperdown Subwatershed Study.

B. Overview

The purpose of this report is to inform Council of partnering efforts between Town staff and Grey County and Grey Sauble Conservation Authority, to obtain enhanced topographic mapping, and update hydrologic data to consider Climate Change impacts, including Snowmelt runoff.

C. Background

The base mapping used to delineate watershed boundaries, determine drainage areas, calculate flows and undertake stormwater management analysis in most of the Town, (including the 1993 Craigleith Camperdown Subwatershed area) is based on 5 metre contour mapping. In mid-2017, two (2) metre interpolated contours became available, however, within urban areas, 0.5m contours are more typically utilized, and cannot be obtained from currently available data.

The 2018 Town of the Blue Mountains budget contains a roll over item for \$300,000.00 to update the 1993 Craigleith Camperdown Subwatershed Study. Discussions with the Grey Sauble Conservation Authority highlighted that key facets of updating the Subwatershed Study would be upgrading topographic mapping from the 5 metre interval used in the 1993 study to the current de-facto norm of 0.5 metre contours, consideration of Climate Change impacts, and

incorporation of the land uses changes that have occurred in the 25 years since the original study was undertaken.

The National Disaster Mitigation Program being administered by Public Safety Canada, is currently considering Project proposals for Risk Assessments, Flood Mapping, Mitigation Planning & Implementation, wherein matching federal dollars would be provided to project partners. The Grey Sauble Conservation Authority has an application into Public Safety Canada for National Disaster Mitigation Program (NDMP) Funding, to undertake 0.5m LiDAR contour mapping and Flood Risk Assessment throughout their watershed, with particular emphasis on Grey County roads, bridges & culverts, the Town of the Blue Mountains, the Craigleith Camperdown Subwatershed area, Climate Change impacts, and Snowmelt runoff.

Funding for the project is to be \$120,000.00 from NDMP funds, \$50,000.00 from Grey County, \$20,000.00 from Grey Sauble Conservation, and \$50,000.00 from the funds identified above for the Town of the Blue Mountains update to the 1993 Craigleith Camperdown Subwatershed Study.

D. Analysis

Partnering with Grey County and Grey Sauble Conservation Authority, to receive matching funding from Public Safety Canada through the National Disaster Mitigation Program (NDMP), provides an opportunity to update the 1993 Craigleith Camperdown Subwatershed. The update will provide 0.5m contours through-out the Town, update land use and hydrologic parameters within the Craigleith Camperdown Subwatershed study area, and provide updated Rainfall Intensity Duration Frequency data considering climate change to facilitate better runoff estimates.

E. The Blue Mountains Strategic Plan

Goal #2: Engage Our Communities & Partners

Goal #5: Ensure Our Infrastructure is Sustainable

F. Environmental Impacts

None at this time.

G. Financial Impact

\$50,000.00 from \$300,000.00 Craigleith Camperdown Subwatershed budget.

H. In consultation with

Discussions have taken place with Grey Sauble Conservation Authority and Grey County staff, as well as Town Finance Staff and Director of Planning and Development Services to verify availability of funds.

I. Attached

None.

Respectfully submitted,

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