

MEMORANDUM

TO: Mayor Bonnette and Members of Council

FROM: Bill Andrews, Director of Engineering

DATE: September 4, 2018

MEMORANDUM NO.: TPW-2018-0008

RE: Pavement Management – Main Street North (Acton) Update

PURPOSE OF THE MEMORANDUM:

The purpose of this memorandum is to provide an update on the current condition and remediation plans for the asphalt on Main Street North in Acton.

BACKGROUND:

- In 2017, the asphalt on Main Street North in Acton was upgraded. The general extents of the work were as follows:
- Main Street N: St. Alban's Drive to Guelph Street; and,
- Guelph Street: Main Street N to approximately 120m east of Lakeview Drive.

The work included the full depth removal of the existing asphalt and replacement with new base (HL8) and top (HL1) asphalt. These works were substantially completed in November 2017 and therefore remain under warranty until November 2018.

This project was part of the Connecting Links funding received from the Ministry of Transportation (MTO) in 2017.

COMMENTS:

In June 2018, staff observed apparent deficiencies (minor shoving/movement) in the new asphalt on Guelph Street. Staff and the Contractor continued to visually monitor the deficiencies. Visual monitoring was undertaken to determine the potential extent of the deficiencies (i.e., localized to specific areas only or throughout the entire work area) before remediation works were implemented. Based on the visual monitoring, the deficiencies (i.e., shoving/movement, etc.) became more severe through July and early August and also appeared in several, previously unaffected areas.

In order to determine the specific cause and confirm remediation requirements, staff engaged SNC-Lavalin GEM Ontario Inc. (SNC) to collect field samples and conduct

laboratory testing of the asphalt. On August 17, 2018, SNC was onsite to obtain asphalt core samples from various locations along Guelph Street and Main Street N. for testing. Asphalt core samples were collected from both visually deficient and non-deficient areas.

At the time of preparation of this memorandum, the test results from SNC's field investigation were not available.

CONCLUSION:

Staff are coordinating with the Contractor to undertake the necessary remediation work as soon as possible which will likely consist of removing the top asphalt layer (40-50mm to be milled from the surface) and resurfacing with 40-50mm of asphalt (HL1). The extent of the remediation works will be determined based on the asphalt test results and subsequent field inspection(s).

Reviewed and Approved by,

A handwritten signature in black ink, appearing to read "C. Mills". The signature is stylized with a large, sweeping initial "C" and a horizontal line extending to the right.

Chris Mills, Commissioner of Transportation and Public Works

A handwritten signature in black ink, appearing to read "Brent Marshall". The signature is written in a cursive style with a large, prominent "B" and "M".

Brent Marshall, CAO