



Staff Report PW2021-045

Title of Report: PW2021-RFP Dundalk Wastewater Treatment Facility Expansion
Department: Public Works
Branch: Water & Wastewater
Council Date: September 15, 2021

Recommendation:

Be it resolved that Council receive Staff Report PW2021-045 for information; and
That Council approve the release of the RFP for the Dundalk Wastewater Treatment Facility Expansion as part of the on-going Environmental Assessment process.

Background:

A Schedule C Municipal Class Environmental Assessment for the Dundalk Wastewater Treatment Facility Expansion commenced in May 2016. A Request For Information (RFI) for Dundalk Wastewater Treatment Facility Equipment Proposal was released by Triton Engineering in June 2019 for solutions aimed at upgrading/expanding the wastewater treatment system with additional and/or new technologies and processes. Based on RFI submissions, specific technologies/processes were identified that may be compatible with the existing lagoons and treatment facility. These treatment systems will be analyzed/explored further as part of the current RFP process.

Southgate staff and Triton have also been involved with the Grand River Conservation Authority Wastewater Optimization team, Dr. David Chapman (Comprehensive Process Optimization Inc.) and the Ministry of Environment, Conservation and Parks (MECP) on various special studies and a Comprehensive Performance Evaluation of the Dundalk Wastewater Treatment Plant.

Staff Comments:

Triton Engineering Services Limited is issuing a Request For Proposal (RFP) on behalf of the Township to increase the treatment capacity for the Dundalk Wastewater Treatment Facility Expansion.

The current Dundalk Wastewater Environmental Compliance Approval (ECA) has a rated capacity of an Average Daily Flow (ADF) of 1,832 m³/day.

The RFP is structured to increase the treatment capacity in a phased approach. The first phase will increase the treatment capacity to an ADF of 3,025 m³/day and expected to start implementation within the next year, which is expected to provide treatment capacity sufficient to service the projected population up to the 10-to-15year planning horizon. The second phase will increase the treatment capacity to 4,200 m³/day, which is expected to provide sufficient treatment capacity to service the projected population to at least the 25-year planning horizon. Implementation

of the second phase will be contingent on additional receiver monitoring and assessment for the increased effluent discharge.

An ECA amendment for the Dundalk Wastewater Treatment Facility for this project, will also consider changes to effluent water quality parameters and limits which will have to be approved by MECP.

The RFP will be advertised on the Township website and will be circulated to past and known firms in the wastewater industry. The RFP will close on Tuesday October 19, 2021 at 2:00 pm and a virtual opening will follow that day.

The successful RFP bidder will then form the preferred alternative criteria to pursue and finalize the submission in the EA process and a Public Meeting will be held later in the fall.

Financial Implications:

The Southgate 2021 10-year Capital Budget forecasted Wastewater Treatment Facility upgrades in 2022 for \$16,286,200.00 for a full mechanical plant. The project was anticipated to be funded 10% or \$1,628,620 (as the benefit to existing development) from Wastewater Reserves, \$3,664,395 from a grant, and the balance to be funded by debt. The debt repayments would be funded from development charges.

The proposed RFP upgrades is projected to be in the \$2 to 5 million range for additional / new technologies.

Communications & Community Action Plan Impact:

Goal 5 - Upgrading our "Hard Services"

Action 5:

The residents and businesses of Southgate recognize our linear services - roads, bridges, water and sewer works, for example - to be a fundamental purpose of municipal government. This infrastructure needs to be serviceable and sustainable so that our businesses and communities can thrive and grow.

Strategic Initiatives:

5-B - The Township will have adopted a long-term asset management plan for the timely repair, replacement, and expansion of the Township's infrastructure, facilities, and other assets.

5-C - The Township will have increased wastewater treatment capacity in Dundalk to support growth.

Concluding Comments:

Staff recommends that Council receive Staff Report PW2021-045 for information, and that Council approve the release of the RFP for the Dundalk Wastewater Treatment Facility Expansion as part of the on-going Environmental Assessment process.

Respectfully Submitted,

Dept. Head: **Original Signed By**
Jim Ellis, Public Works Manager

Treasurer Approval: **Original Signed By**
William Gott, CPA, CA Treasurer

CAO Approval: **Original Signed By**
Dave Milliner, CAO

Attachments:

Attachment # 1 RFP for the Dundalk Wastewater Treatment Facility Expansion