

Briefing Note

Title	Cardiff Echoes Sanitary Sewer Assessment
Issue	Presentation of the Cardiff Sanitary Sewer Assessment.
Previous Council Direction	None.
Report	<p><u>Background Information</u></p> <ul style="list-style-type: none"> • Prior to the Cardiff lift station Upgrade in 2015, the previous lift station located in Cardiff Echoes, was unable to convey peak wet weather flows depending on the rain event. • July 2012 saw a major rainfall which overwhelmed the lift station and resulted in several homes experiencing sewer backups. • As part of the construction of the new Cardiff lift station, it was recommended to investigate where rainwater is entering the sanitary sewer, to reduce flows to the wet well. • In 2016, Utility Services hired Cam-Trac to flush and camera the sanitary sewer system in Cardiff Echoes to determine where issues might exist. • In 2017, ISL was retained to assist with reviewing and analyzing the results of the 2016 sanitary sewer inspection program, and address any issues that could facilitate inflow/infiltration into the system. • ISL’s report Cardiff Sanitary Sewer Assessment (2017) summarized the findings of the inspection, and recommended a rehabilitation and staging program for the County to reduce wet weather impact events. • Findings in the report indicated that there were several areas in Cardiff Echos that are likely contributing to inflow in the sanitary system, particularly around overland drainage through manholes and downspouts. • Camera footage from 2016 also provided information on the condition of the underground infrastructure and where attention to repair might need addressing.

	<ul style="list-style-type: none"> The County has implemented a three-year maintenance plan to address the concerns outlined in the report. <p><u>External Communication</u></p> <ul style="list-style-type: none"> None. <p><u>Relevant Policy/Legislation/Practices:</u></p> <ul style="list-style-type: none"> 2012 Standards and Guidelines for Municipal Waterworks, Wastewater and Storm Drainage Systems ACRWC Wet Weather Discharge Permit
Implication	<p><u>Strategic Alignment:</u></p> <p>Respect the Natural Environment - Sturgeon County will continue to comply with Provincial and Federal regulations and legislation.</p> <p>Maintain and Enhance Strong Communities – Maintaining the Cardiff sanitary collection system will positively impact the quality of life for our residents.</p> <p>Operational Excellence – Completing the recommended repairs in Cardiff Echoes will ensure residents are receiving consistent service levels in a cost-effective manner.</p> <p><u>Organizational:</u></p> <ul style="list-style-type: none"> The Utility Services Department has implemented a three-year maintenance plan to address the issues identified in the Cardiff Sanitary Sewer Condition Assessment. <p><u>Financial:</u></p> <ul style="list-style-type: none"> Based on the Cardiff Sanitary Sewer Condition Assessment, ISL suggests the repairs will cost a total of \$268,560. Utility Services will follow the prioritization plan outlined in the report over a three-year period.
Follow Up Action	None.

Attachment(s)	1. Presentation 2. Cardiff Sanitary Sewer Condition Assessment (2017)
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