

STRATEGIC INITIATIVE AND UPDATE**Astotin Creek Basin Water Management Study****Report Purpose**

To provide Council with a project plan for the proposed Astotin Creek Basin Water Management Study.

Our Prioritized Strategic Goals

Goal 2 - Manage, invest and plan for sustainable municipal infrastructure

Goal 4 - Ensure effective stewardship of water, land, air and energy resources

Continuously improving the way we work, as one organization, in an agile and sustainable manner

Report

The Astotin Creek Basin has seen three major flooding events in the past 10 years. These events resulted in farmland flooding, threatening of private residences in three key locations and impacted many miles of County roads. The County responded to protect residents' homes, closed many roads and monitored and pumped at bridge structures. The creek has had changes in flow in many of its tributaries and has had natural flows altered or moved during years of dry conditions.

The creek continues to be one that the County monitors closely both in the spring and through the year during major rainfall events. As a result of the ongoing issues and continued response to the basin, the County is proposing to complete a detailed Water Management Study of the complete Astotin Creek Basin in 2021. This work will involve and engage many key stakeholders, as the study reviews the historical and current conditions within the basin. The key objectives of the study are:

- Develop a clear understanding of the historical drainage patterns
- Develop a detailed understanding of the changes and constraints to the basin drainage courses
- Develop a clear understanding of stakeholder perspectives on the drainage basin issues and concerns
- Preserve and look to improve existing drainage courses
- Protect the flooding lands for future generations
- Minimize impacts from the creek and tributaries on adjacent lands
- Adapt existing areas to the change in drainage patterns with minimal impacts to property
- Develop an action plan for a phased implementation of improvements

Enclosure 1 provides an overall plan, which includes proposed milestones and summarizes the key stakeholders for the project. The intention is to add this two-year project as an initiative for Council's consideration as part of the 2021 budget, which has been identified at \$650,000.

Council and Committee History

July 14, 2020 THAT Administration prepare, for Council's consideration by the end of Quarter 3 of 2020, an implementation plan complete with agenda, study, work timeline and budget for holistic management of the Astotin Creek Basin within Strathcona County.

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Lead Department: Transportation and Agriculture Services

Priorities Committee Meeting_Oct06_2020

Other Impacts**Policy:** n/a**Legislative/Legal:** n/a**Interdepartmental:** n/a**Master Plan/Framework:** n/a**Enclosure**

1

Astotin Creek Basin Study Project Plan