



**City of Kingston  
Report to Council  
Report Number 24-257**

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**To:** Mayor and Members of Council  
**From:** Paige Agnew, Commissioner, Growth & Development Services  
**Resource Staff:** Tim Park, Director, Planning Services  
**Date of Meeting:** October 15, 2024  
**Subject:** Collins Creek & Glenvale Creek Floodplain Mapping Update

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**Council Strategic Plan Alignment:**

Theme: Regulatory & compliance

Goal: See above

**Executive Summary:**

In January 2022, Natural Resources Canada (NRCan) launched the [Flood Hazard Identification and Mapping Program](#) (FHIMP) which offers up to 50% matched federal funding for eligible flood mapping projects to reduce the costs of creating or updating maps. This program will run through March 2028.

On October 9, 2024, Cataraqui Conservation submitted a funding application to NRCan to update the floodplain mapping for Collins Creek and Glenvale Creek under the FHIMP. Cataraqui Conservation has noted that the current floodplain mapping for these creeks is over 40 years old and is no longer relevant and accurate due to changes on the landscape and because engineering and mapping techniques have evolved greatly since the time the mapping was created.

Kingston is one of the municipalities having jurisdiction in the project area along with the County of Frontenac and the Township of South Frontenac. As part of the application, Cataraqui Conservation approached all three municipalities for funding support and to participate on a partner committee. The updated floodplain mapping will support land use planning decision making by directing development away from flood prone areas, identifying areas where flood-

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proofing or other measures may be required to manage risks to communities, and helping reduce flood risks to people and property. The contribution to this partnership can be covered with existing approved capital budget and would not require additional funding. Given the short turn around window for the application, staff provided a letter of support to Cataraqui Conservation, subject to Council's approval (Exhibit A). This report is time sensitive as Cataraqui Conservation has requested Council's approval through a resolution by October 18, 2024, so that it can be submitted to NRCan. The application deadline was October 9, 2024, however Cataraqui Conservation has indicated that supplementary information may be submitted the week of this Council meeting.

**Recommendation:**

**That** Council endorse a partnership with Cataraqui Region to update the Collins Creek and Glenvale Creek floodplain mapping under Natural Resources Canada's Flood Hazard Identification and Mapping Program; and

**That** Council authorize the Mayor and Clerk to execute any agreements, satisfactory to the Director of Legal Services, with Cataraqui Region required to support and contribute to the Flood Hazard Identification and Mapping Program to update the Collins Creek and Glenvale Creek floodplain mapping; and

**That** Council direct the City Clerk to submit Council's resolution to Cataraqui Conservation before October 18, 2024, for inclusion in the funding application under the Flood Hazard Identification and Mapping Program.

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**Authorizing Signatures:**

ORIGINAL SIGNED BY COMMISSIONER

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**Paige Agnew, Commissioner,  
Growth & Development Services**

p.p. ORIGINAL SIGNED BY CHIEF  
ADMINISTRATIVE OFFICER

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**Lanie Hurdle, Chief  
Administrative Officer**

**Consultation with the following Members of the Corporate Management Team:**

Jennifer Campbell, Commissioner, Community Services	Not required
Neil Carbone, Commissioner, Corporate Services	Not required
David Fell, President & CEO, Utilities Kingston	Not required
Peter Huigenbos, Commissioner, Major Projects & Strategic Initiatives	Not required
Brad Joyce, Commissioner, Infrastructure, Transportation & Emergency Services	Not required
Desirée Kennedy, Chief Financial Officer & City Treasurer	Not required

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**Options/Discussion:****Background**

In January 2022, Natural Resources Canada (NRCan) launched the [Flood Hazard Identification and Mapping Program](#) (FHIMP) which offers up to 50% matched federal funding for eligible flood mapping projects to reduce the costs of creating or updating maps. The FHIMP aims to complete flood hazard maps of higher-risk areas in Canada and make this flood hazard information accessible.

As per NRCan, high quality flood mapping that is current and accessible is intended to help governments, communities, and individuals understand flood hazards and to implement effective mitigation strategies to reduce the impacts of flooding. These maps will inform decision-making in support of land use planning, flood mitigation, adaptation to a changing climate, resilience building, and protection of lives and properties.

Interested conservation authorities and municipalities are encouraged to partner under this program for cost-sharing purposes as well for staffing, equipment, and data support.

**Collins Creek and Glenvale Creek Floodplain Mapping Update**

On October 9, 2024, Cataraqui Conservation submitted a funding application to NRCan to update the floodplain mapping for Collins Creek and Glenvale Creek under the FHIMP. Cataraqui Conservation has noted that the current floodplain mapping for these creeks is over 40 years old and is no longer relevant and accurate due to changes on the landscape and because engineering and mapping techniques have evolved greatly since the time the mapping was created.

Kingston is one of the municipalities having jurisdiction in the project area along with the County of Frontenac and the Township of South Frontenac. The Collins Creek and Glenvale Creek watershed occupies a large portion of the western extent of the City. Recent developments in the city within this watershed largely include residential subdivisions in and around the Westbrook area and the Creekford Road area. The most recent documented flooding event that occurred on Collins Creek was during the spring freshet in May 2017. Previous to that, extensive flooding occurred during April 2014. Flooding has also been documented on Glenvale Creek for an event that occurred in March 2011.

As part of the application, Cataraqui Conservation has approached all three municipalities for funding support and to participate on a partner committee. With the projected growth in the City in the years to come, staff see the updated floodplain mapping as important information to support land use planning decision-making by directing development away from flooding hazards associated with Collins Creek and Glenvale Creek and helping reduce flood risks to people and property.

Cataraqui Conservation has estimated the cost to update the floodplain mapping to be \$213,500. Of this, \$106,750 (i.e. 50% of the total cost) is anticipated to be covered by federal

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government under the FHIMP. Cataraqui Conservation has offered to cover \$25,000 and has requested that the remainder \$81,750 be jointly covered by the three partner municipalities. To distribute this in a fair and equitable manner, Cataraqui Conservation used scoring criteria which included the percentage of the watershed area that lies within municipal boundaries, planning interests, critical infrastructure (e.g. roads and bridges), Ontario Building Code regulation jurisdiction, and communal services. Based on this, the City of Kingston has been requested to contribute \$46,189.

The City's contribution to this partnership can be covered with existing approved capital budget and would not require additional funding. Given the short turn around window for the application, staff provided a letter of support to Cataraqui Conservation, subject to Council's approval (Exhibit A). Staff are requesting Council's approval of the partnership with Cataraqui Conservation to update the Collins Creek and Glenvale Creek floodplain mapping under the FHIMP, so that it can be submitted to NRCan. Staff of the County of Frontenac and the Township of South Frontenac have also provided letters of support to Cataraqui Conservation and agreed to participate as active partners in the project, subject to their respective Council's approval.

**Existing Policy/By-Law***Conservation Authorities Act**Planning Act*

Provincial Policy Statement, 2020

City of Kingston Official Plan

Kingston Zoning By-Law Number 2022-62

**Financial Considerations**

The contribution to this partnership in the amount of \$46,189 can be covered with existing approved capital budget and would not require additional funding.

**Contacts:**

Sukriti Agarwal, Manager, Policy Planning, 613-546-4291 extension 3217

**Other City of Kingston Staff Consulted:**

None

**Exhibits Attached:**

Exhibit A Letter of Support



**City of Kingston**  
216 Ontario St.  
Kingston, ON K7L 2Z3  
613-546-4291

October 9, 2024:

Mr. Andrew Schmidt  
Manager, Watershed Planning & Engineering  
Cataraqui Conservation

Dear Mr. Schmidt,

The City of Kingston is pleased to support the Cataraqui Conservation grant application under the Flood Hazard Mapping and Identification Program (FHIMP) for updated floodplain mapping for Collins Creek and Glenvale Creek.

This mapping project will update floodplain maps that are more than forty years old and be more accurate using current technology and recent aerial and LIDAR mapping. The floodplain mapping will help in land use planning decisions by helping reduce risks to people and to property, directing development away from flood prone areas and provide certainty to developers and property owners.

Subject to City Council's approval at their next meeting scheduled for October 15, 2024, the City of Kingston intends to participate in this initiative and supports Cataraqui Conservation's efforts to coordinate a partnership agreement that supports your application to complete this important work.

Sincerely,

E-SIGNED by Paige Agnew  
on 2024-10-10 15:11:45 GMT

Paige Agnew,  
Commissioner, Growth & Development Services  
City of Kingston

