

# Memo



To: Committee of the Whole  
From: **Development and Engineering Services**  
Date: 2018-05-07  
Subject: Floodplain Mapping and Risk Assessment Project

---

## Background

Floodplain maps were last prepared in the early 1990s. River flows and floodplain development have changed in the last thirty years, and climate change will likely further change river flows. To better prepare for flood emergencies and plan for appropriate development on the floodplain, the floodplain maps need to be updated with new data and analytical tools.

In 2017, the City successfully applied for two grants to support this work: Gas Tax Strategic Priorities Fund for \$225,700, and the Union of BC Municipalities Community Emergency Preparedness Fund for \$67,500. The City also allocated \$50,000 to leverage the grants and connect the studies with infrastructure hazard mitigation and future structural flood protection.

Three main themes will be addressed in the combined study:

- Updating hydrology and floodplain maps and incorporating climate change information;
- Evaluating risks and hazards to community, infrastructure and emergency response; and
- Highlighting the connections and provide input to community planning, emergency management, and asset management / capital planning.

The City's engineering consultant, Urban Systems, will provide a brief presentation on the conceptual approach to this project and the major tasks to be undertaken over the next year.



---

## Benefits or Impacts

### General

This project provides for emergency preparedness, fiscal responsibility and sustainability of infrastructure and natural assets.

### Strategic Impact

-  Identifies natural floodplain assets / services and improves sustainability of critical infrastructure
-  Incorporates participation by stakeholders in understanding and planning related to flood hazards

### **Policy/Legislation**

Official Community Plan; Floodplain Bylaw; Asset Management Plan; Zoning Bylaw;  
Multiple provincial and federal acts.