



BOARD REPORT

TO: Chair and Directors

File No: 1855 03

SUBJECT: **UBCM Flood Risk Assessment, Flood Mapping & Flood Mitigation Planning Grant Application and Contract Award**

DESCRIPTION: Report from Derek Sutherland, Team Leader, Protective Services, dated December 20, 2019. Union of British Columbia Municipalities Community Emergency Preparedness Fund grant application to undertake hazard mapping projects in two identified high risk areas of the CSR D.

RECOMMENDATION #1: THAT: the Board empower the authorized signatories to apply for a Community Emergency Preparedness Fund Grant (Flood Mapping Stream) for up to \$150,000 to complete a hazard mapping project to improve flood risk management within high risk areas of the CSR D. The CSR D will provide in-house contributions to support the project and overall grant management.

RECOMMENDATION #2: THAT: the Board empower the authorized signatories to enter into an agreement with BGC Engineering Inc. in an amount not to exceed \$150,000 including applicable taxes, subject to the receipt of a Community Emergency Preparedness Fund (Flood Mapping Stream) Grant for up to \$150,000.

SHORT SUMMARY:

BGC Engineering Inc. (BGC) and the Fraser Basin Council (FBC) have initiated a project to complete hazard and risk management projects in the Thompson River Watershed (TRW) in coordination with the CSR D and other applicable local governments. BGC and FBC recently approached the CSR D to engage in a collaborative effort with other local and provincial authorities to conduct specific hazard assessments and mapping projects. This collaborative approach enables authorities to define shared objectives for hazard and risk management at a provincial scale, across multiple levels of government.

VOTING:	Unweighted Corporate <input type="checkbox"/>	LGA Part 14 (Unweighted) <input type="checkbox"/>	Weighted Corporate <input checked="" type="checkbox"/>	Stakeholder (Weighted) <input type="checkbox"/>
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BACKGROUND:

CSR D staff has identified two projects in areas that have been recognized as high risk from earlier work conducted by the FBC.

Project #1:

A detailed geo-hazard assessment and hazard mapping for Hummingbird Creek in Swansea Point area. The fan-delta into Mara Lake has high aggradation and avulsion potential with major events occurring in 1997, 2012, as well as in the 1930s. The event in 1997 caused extensive damage to homes and cabins. This area contains potentially affected properties with over \$50 million in building improvements and has ongoing development pressures. BGC’s March 31, 2019 Thompson River Watershed Risk Prioritization (TRW Study) assigned the fan as a “very high” priority for further assessment.

Project #2:

Base level flood hazard mapping and risk assessment inputs for Eagle River (Malakwa to Sicamous) and Salmon River (Falkland to Salmon Arm). These areas contain \$253 million and \$197 million in building development respectively and ongoing development pressures. These areas were rated by the TRW study as subject to "very high" potential flood consequences, with a "high" priority for further assessment. The objective of the risk assessment project is to improve elements at risk characterization with parameters that can be used to estimate vulnerability to geo-hazard impact. The outcome is termed an 'exposure model', and the work supports UBCM Resolution B98: *Resourcing a Collaborative System of Data Sharing in BC*. Outcomes will support policies, bylaws, emergency response and flood mitigation planning.

Both projects will provide hazard maps required to make informed decisions about public safety, development, and mitigation plans.

POLICY:

Board authorization is required for any grant application that exceeds \$150,000 in value, as outlined in Delegation Bylaw No. 5582, 2010.

In accordance with Policy F-32 "Procurement of Goods & Services" Board authorization is required for any sole sourced contract award over \$10,000.

FINANCIAL:

The UBCM Community Emergency Preparedness Fund grants are 100% funded and although a successful grant application will not impact any existing CSRD budget function, significant in-kind contributions, through staff time, will be required.

KEY ISSUES/CONCEPTS:

The project will provide opportunity to enhance the CSRD's understanding of emergency management risks to specified property owners. The opportunity to receive significant emergency management risk assessment work through the receipt of a fully funded grant.

DESIRED OUTCOMES:

The Board endorse the grant funding application and authorize the sole source agreement with BCG Engineering Inc. to provide engineering services in support of this project.

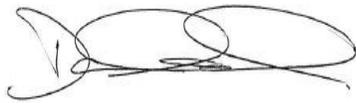
BOARD'S OPTIONS:

1. *Endorse the Recommendation(s).*
2. *Deny the Recommendation(s).*
3. *Defer.*
4. *Any other action deemed appropriate by the Board.*

Report Approval Details

Document Title:	2020-01-16_Board_OM_UBCM_Grant_and_Sole_Source.docx
Attachments:	
Final Approval Date:	Jan 2, 2020

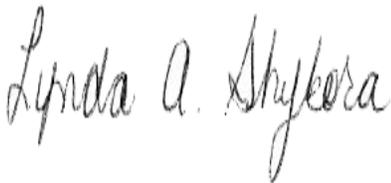
This report and all of its attachments were approved and signed as outlined below:



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