

PROJECT UPDATE



Date: July 6, 2020
To: Ken McIlwain
cc: Heather MacKnee
From: Jacob Scissons
Subject: **BELLA COOLA VALLEY FLOOD RISK ASSESSMENT AND MODELLING
PROJECT UPDATE – JUNE 2020**

KEY INFORMATION

The following dates, reporting requirements, and funding limits are key for this project:

- LiDAR Cost-Sharing Agreement
 - Agreement between the Ministry of Transportation and Infrastructure (MOTI) and CCRD
 - Expiration date extended to July 31, 2020
 - Contribution of \$52,000 towards LiDAR data
- Community Emergency Preparedness Fund (CEPF)
 - Administered by Union of BC Municipalities (UBCM) with technical support from Emergency Management BC (EMBC)
 - Completion Date extended to August 31, 2020
 - Reporting Deadline extended to September 30, 2020
 - Funding total of \$150,000
- Disaster Mitigation Unit Grant
 - Administered by EMBC
 - Completion Date extended to September 30, 2021
 - Quarterly Reports due at the end of March, June, September, and December
 - Funding total of \$500,000

PROJECT OVERVIEW

There are five phases to the Bella Coola Valley Flood Risk Assessment and Modelling project, which are as follows:

- Phase 1 – LiDAR Acquisition and Mapping
- Phase 2 – Data Collection and Preliminary Analysis
- Phase 3 – Detailed Analysis and Modelling
- Phase 4 – Reporting and Mitigation Planning
- Phase 5 – Implementation

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Phase 1 is funded through the Community Emergency Preparedness Fund while Phases 2 through 5 are supported by the EMBC Disaster Mitigation Unit Grant.

RECENT WORK COMPLETED

- Terra Remote Sensing has been processing the LiDAR data and sending it in batches. To date, approximately one third of the data has been received and downloaded.
- The team has completed review of the historical streamflow data, including consideration for changing patterns over time, and has prepared the design flood hydrograph for the 200 year event based on the historical streamflow data.
- Summary information has been prepared regarding plans and policies that inform emergency preparedness, including discussion on flood management roles and responsibilities for individuals and local authorities.

NEXT STEPS

- The remainder of the LiDAR data will be received from Terra Remote Sensing in the coming weeks, including complete data sets delivered on a hard drive.
- The team will complete the agreement with the MOTI by providing the appropriate data verification, reporting, and invoicing.
- The timing for and logistics of the proposed site reconnaissance will be coordinated with the CCRD.
- The CEPF reporting will be completed, such that the UBCM / EMBC program deadlines are met.
- Project team to discuss advancement to Phase 2, specifically engagement of the Flood Focus Group and further fieldwork focused on a natural hazard (ie. debris flows, land stability, etc.) risk assessment and supplemental ground survey (ie. bridge structures, channel cross-sections, etc.).

Sincerely,
URBAN SYSTEMS LTD.

A handwritten signature in black ink, appearing to read 'J Scissons', written over a light blue horizontal line.

Jacob Scissons, P.Eng.
Project Manager

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