



Figure No.
RR-5-02

Sheet 02 of 19

Title

Ross River Flood Mapping Study
Open Water Flood Hazard Map
5% Annual Exceedance Probability (AEP)

Client/Project

Government of Yukon
Department of Environment
Water Science and Stewardship

Project: 123223019

Project Location

Ross River, Yukon

Prepared by MANDERSON on 3/4/2026

Legend

River Flow Direction

Bridge

Surveyed Cross-Sections
Used in Hydraulic Model

Major Contour (5m)

Highway

Inundation Under Modelled
Open Water Runs

Inundation Under Modelled
Breakup Ice Jam Runs

Composite Open Water and
Ice Jam Inundation Extent

Approximate 50% AEP Open
Water Flood Inundation

0 40 80 120 160 200

Meters

(At original document size of 11x17) 1:5,000

1:325,000

1:25,000,000

Notes

1. Coordinate System: NAD 1983 UTM Zone 10N Vertical Datum: CGVD2013, Geoid: CGG2013a

2. Data Sources: GeoYukon, Canada Lands Survey (CLS) CCM 982, Canvec.

3. Flood hazard extents shown on these maps are based on LIDAR collected in July, 2019 and topographical and bathymetric data that was collected in June and September 2024.

4. The content of these Draft Maps is based on the methods, assumptions, limitations, and analysis documented in the Ross River Flood Mapping Study (Stantec 2025) produced for Yukon Government. Composite Hazard Maps are based on the assumptions and analysis presented in Stantec 2025 which were based on the available data which is current to the time the maps were produced. Such data contains inherent limitations given that the climatic conditions and geomorphic conditions are constantly evolving and cannot be predicted with certainty.

Canada

Stantec

Yukon

This project is funded in part by the Government of Canada

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