

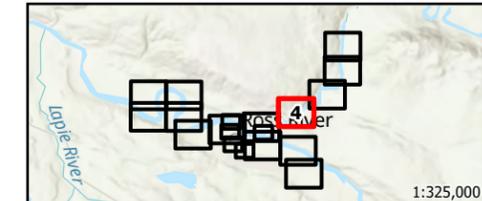
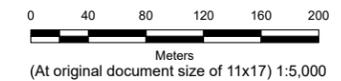
Figure No. **RR-0.5CC-04** Sheet 04 of 19

Title **Ross River Flood Mapping Study  
Open Water Flood Hazard Map  
0.5% AEP with Factors of Safety for Climate Change**

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
  - WSC Stations
  - Toe of Ice Jam
  - Major Contour (5m)
  - Highway
  - Inundation Under Modelled Open Water Runs
  - Inundation Under Modelled Breakup Ice Jam Runs
  - Ice Coverage in Breakup Ice Jam Scenarios
  - Composite Open Water and Ice Jam Inundation Extent
  - Approximate 50% AEP Open Water Flood Inundation



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.



**DRAFT - FOR REVIEW ONLY**

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