

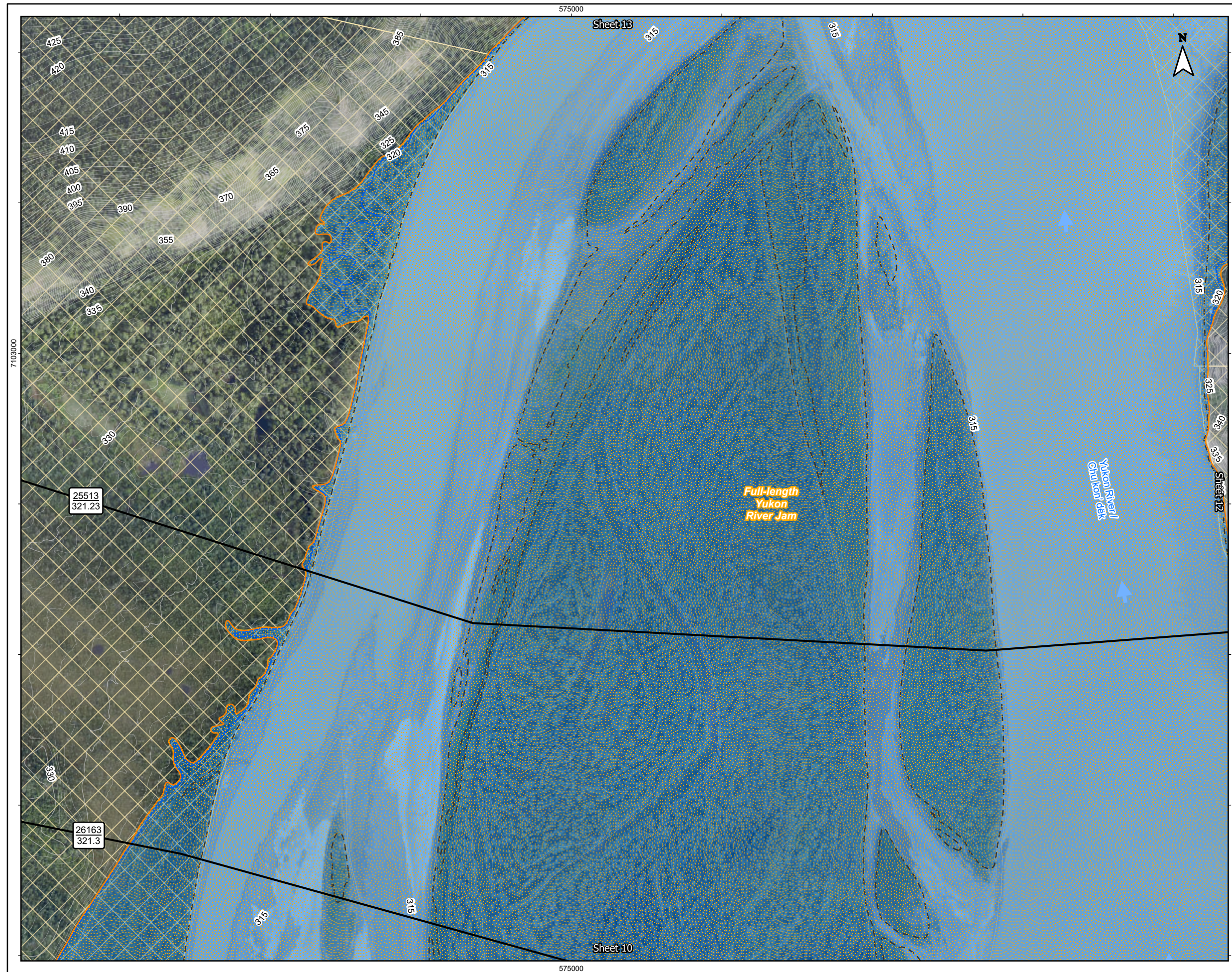


Figure No.

YR-1-11

Sheet 11 of 19

**Title: Dawson City and Klondike Valley Flood Mapping Study
Composite Flood Hazard Map - Yukon River
1% Annual Exceedance Probability (AEP)**

Client/Project:

Government of Yukon
Department of Environment
Water Resources Branch

Project: 123222713

Project Location:

Prepared by MANDERSON on 2025-07-29

Requested by JMUIRHEAD on 2024-03-30

Dawson, Yukon

 River Flow Direction

57
517.2 Cross-Section Number WSE
(m) Along Cross-Section

———— Major Contour (5m)

Minor Contour (1m)

— Surveyed Cross-Sections
Used in Hydraulic Model

 Tr'ondëk Hwëch'in Settlement Land

 Inundation Under Modelled
Open Water Runs

 Inundation Under Modelled
Breakup Ice Jam Runs

- - - Approximate 50% AEP Open
 - - - Water Flood Inundation

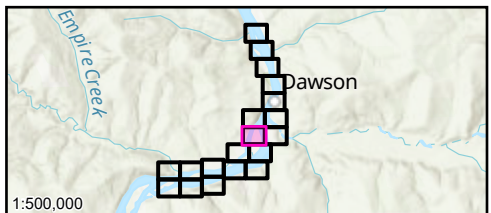
Composite Open Water and Ice Jam Inundation Extents

 Ice Coverage in Breakup Jam Scenarios

Map Publication Date: 7/29/2025

0 50 100 150 200 250 m

(At original document size of 11x 17) 1:5,000



Notes

1. Coordinate System: NAD 1983 CSRS UTM Zone 7N Vertical Datum: CGVD2011; Code: CGG2013a
2. Data Sources: GeoYukon, Canada Lands Service (CLS) CMN 982, CANMET.
3. Data Collection Period: Data were collected between July 2019 and topographic and bathymetric data that was collected in June and September 2024.
4. 50% AEP inundation lines are based on the 50% AEP flow estimate simulation in the hydraulic model of the Dawson City and Klondike Valley Flood Mapping Study (Stanley 2025) considered approximately 100 years return period.
5. The content of these Draft Maps is based on the methods, assumptions, limitations, and analysis documented in the Dawson City and Klondike Valley Flood Mapping Study (Stanley 2025) produced for the City of Dawson and Klondike Regional Municipality. The maps were produced for the Stanley 2025; these were based on the available data which is current to the time the maps were produced. The maps are not intended to be used for any other purpose. The hydrologic and geomorphic conditions are constantly evolving and cannot be predicted with certainty.



This project is funded in part by the Government of Canada

Canada



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