

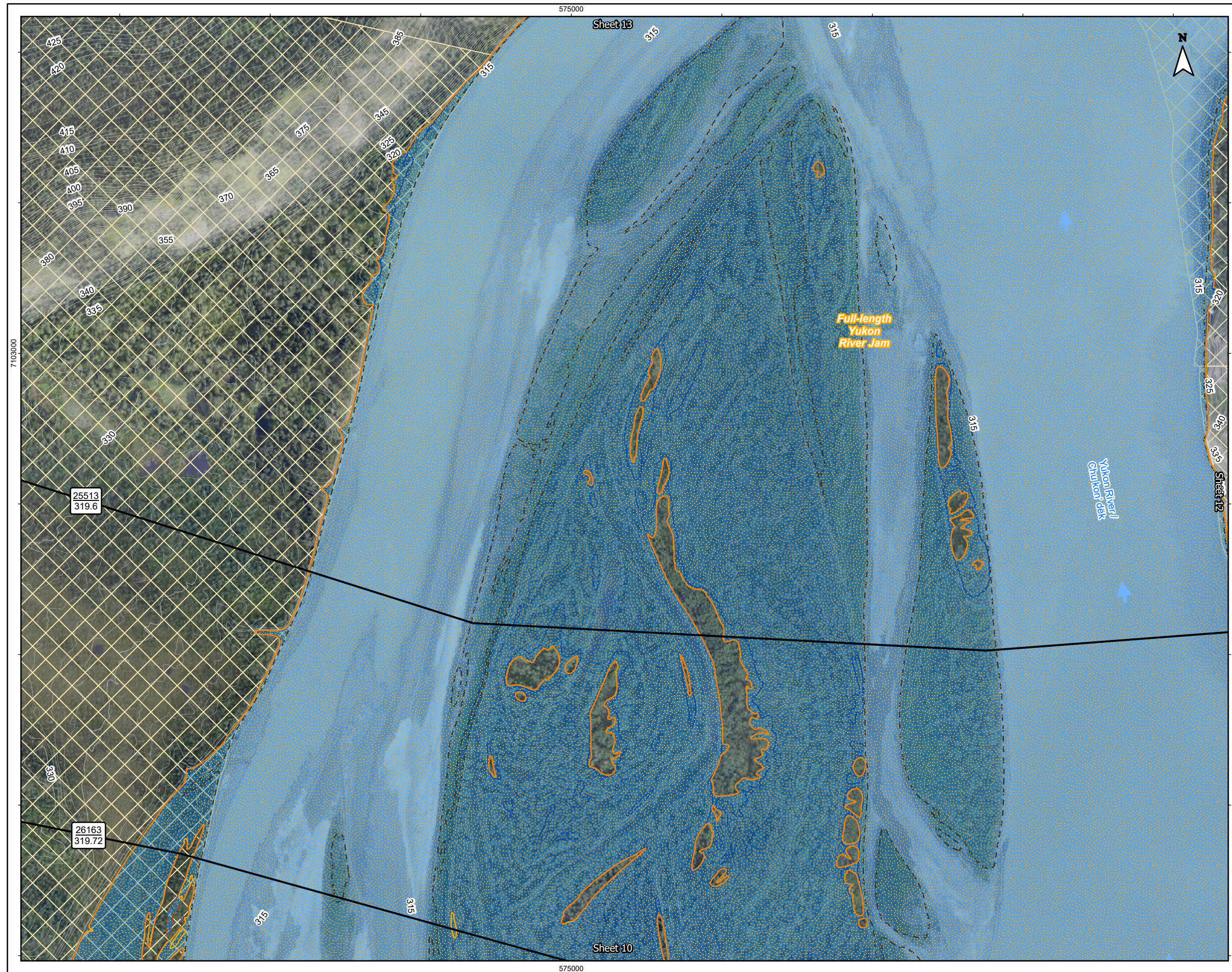


Figure No.

YR-5-11

Sheet 11 of 19

**Title: Dawson City and Klondike Valley Flood Mapping Study
Composite Flood Hazard Map - Yukon River
5% Annual Exceedance Probability (AEP)**

Client/Project:

Government of Yukon
Department of Environment
Water Resources Branch

Project: 123222713

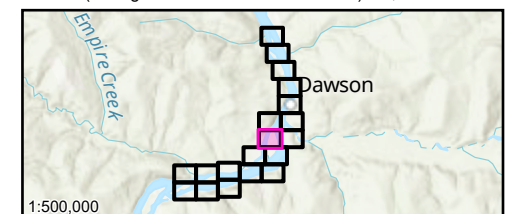
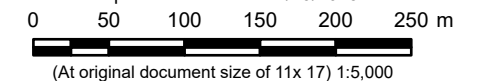
Project Location:

Dawson, Yukon

Prepared by MANDERSON on 2025-07-29
Requested by JMUIRHEAD on 2024-03-30
Review by JMUIRHEAD on 2025-07-29

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|---|--|---|--|
|  | River Flow Direction |  | Inundation Under Modelled Open Water Runs |
|  | Ground Elevations of Interest |  | Inundation Under Modelled Breakup Ice Jam Runs |
|  | Cross-Section Number WSE (m) Along Cross-Section |  | Approximate 50% AEP Open Water Flood Inundation |
|  | Major Contour (5m) |  | Composite Open Water and Ice Jam Inundation Extent |
|  | Minor Contour (1m) |  | Ice Coverage in Breakup Jam Scenarios |
|  | Surveyed Cross-Sections Used in Hydraulic Model | | |
|  | Trondëk Hwëch'in Settlement Land | | |

Map Publication Date: 7/29/2025



Notes

2. Coordinate System: NAD 1983 CSRS UTM Zone 7N Vertical Datum: CGVD2013, Geoid: CGG2013a
3. Data Sources: Geo/UK, Canada Lands Survey (CLS) (CAN 982, CANVEG)
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. 50% AEP inundation lines are based on the 50% AEP flow estimate simulation in the hydraulic model which was calibrated to the 50% AEP flow estimate. The 50% AEP flow estimate could be considered appropriate.
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 (Stanette 2025) produced for Yukon Government. Composite Hazard Maps are based on the assumptions and analysis presented in Stanette 2025 which were the most up to date available at the time current to 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



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