

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

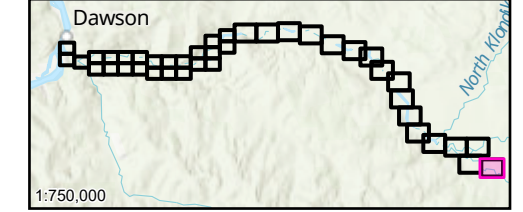
Client/Project:
Government of Yukon
Department of Environment
Water Resources Branch

Project: 123222713

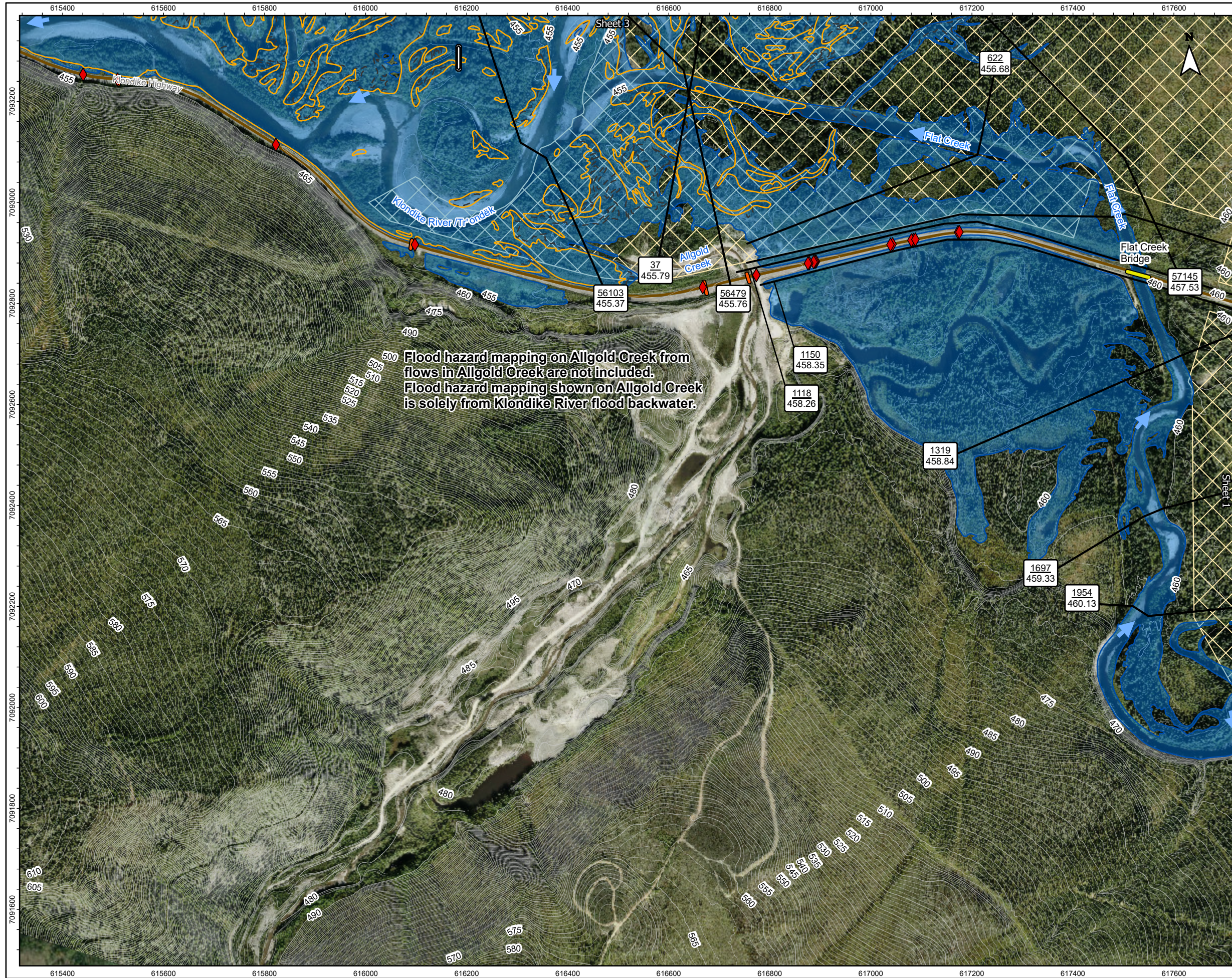
Project Location: Dawson, Yukon
Prepared by MANDERSON on 2025-07-29
Requested by JMUIRHEAD on 2024-03-30
Review by JMUIRHEAD on 2025-07-29

- HPW Drainage Culverts
- Cross-Section Number WSE (m) Along Cross-Section
- Bridge
- Highway
- Local Road
- Major Contour (5m)
- Minor Contour (1m)
- Surveyed Cross-Sections Used in Hydraulic Model
- Limit of Flood Hazard Mapping
- Trondék Hwëch'in Settlement Land
- Inundation Under Modelled Open Water Runs
- Composite Open Water and Ice Jam Inundation Extent

Map Publication Date: 7/29/2025
0 100 200 300 400 m
(At original document size of 11x 17) 1:7,500



- Notes**
1. Coordinate System: NAD 1983 CSRS UTM Zone 7N 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 August, 2024 and topographical and bathymetric data that was collected in June and September 2024.
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Flood hazard mapping on Allgold Creek from flows in Allgold Creek are not included. Flood hazard mapping shown on Allgold Creek is solely from Klondike River flood backwater.

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Composite Flood Hazard Map - Klondike River
5% Annual Exceedance Probability (AEP)**

Client/Project:
Government of Yukon
Department of Environment
Water Resources Branch

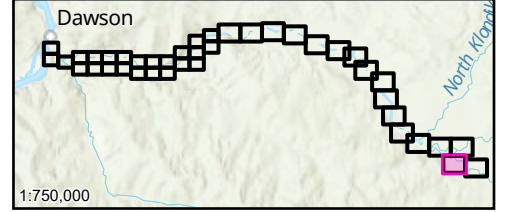
Project: 123222713

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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- Surveyed Cross-Sections Used in Hydraulic Model
- Cross-Section Number WSE (m) Along Cross-Section
- Tr'ondëk Hwëch'in Settlement Land
- Surveyed Culvert Location
- Inundation Under Modelled Open Water Runs
- Bridge
- Inundation Under Modelled Breakup Ice Jam Runs
- Highway
- Approximate 50% AEP Open Water Flood Inundation
- Major Contour (5m)
- Composite Open Water and Ice Jam Inundation Extent
- Minor Contour (1m)

Map Publication Date: 7/29/2025
0 100 200 300 400 m
(At original document size of 11x 17) 1:7,500



- Notes
1. Coordinate System: NAD 1983 CSRS UTM Zone 7N Vertical Datum: CGVD2013, Geoid: CGG2013a
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Figure No. **KR-5-03** Sheet 03 of 41

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

Client/Project:
Government of Yukon
Department of Environment
Water Resources Branch

Project: 123222713

Project Location: Dawson, Yukon

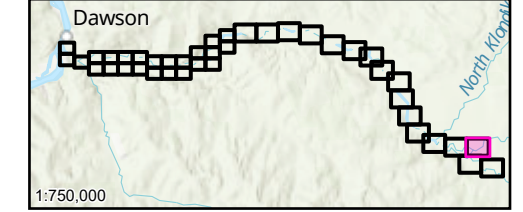
Prepared by MANDERSON on 2025-07-29
Requested by JMUIRHEAD on 2024-03-30
Review by JMUIRHEAD on 2025-07-29

- 57
517.2 Cross-Section Number WSE (m) Along Cross-Section
- Major Contour (5m)
- Minor Contour (1m)
- Surveyed Cross-Sections Used in Hydraulic Model
- Limit of Flood Hazard Mapping
- Trondëk 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 Extent

Map Publication Date: 7/29/2025

0 100 200 300 400 m

(At original document size of 11x 17) 1:7,500



Notes

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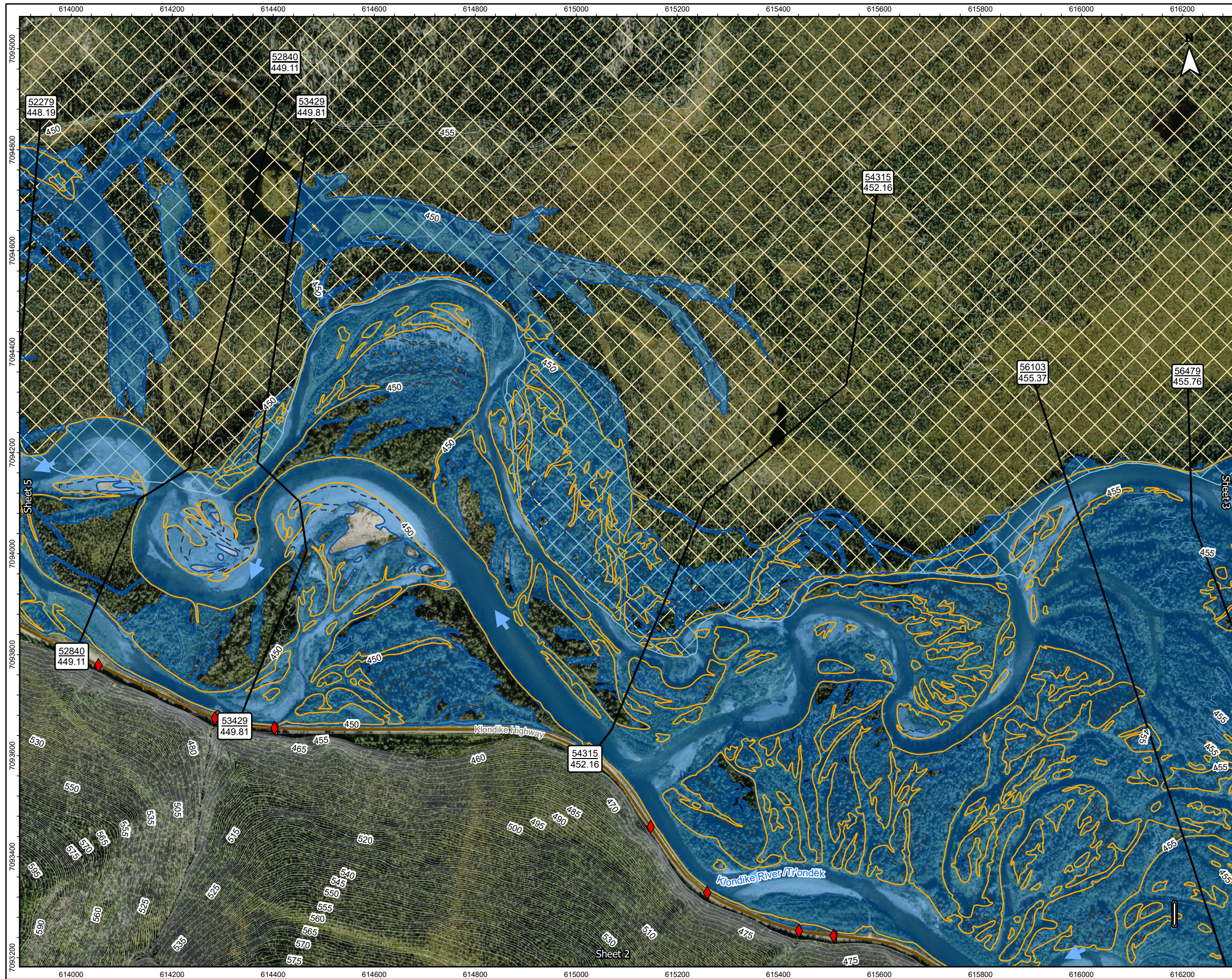


Figure No. **KR-5-04** Sheet 04 of 41

Title: **Dawson City and Klondike Valley Flood Mapping Study
Composite Flood Hazard Map - Klondike 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

- HPW Drainage Culverts
- 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 Extent
- Cross-Section Number WSE (m) Along Cross-Section
- Surveyed Culvert Location
- Highway
- Major Contour (5m)
- Minor Contour (1m)
- Surveyed Cross-Sections Used in Hydraulic Model

Map Publication Date: 7/29/2025

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(At original document size of 11x 17) 1:7,500



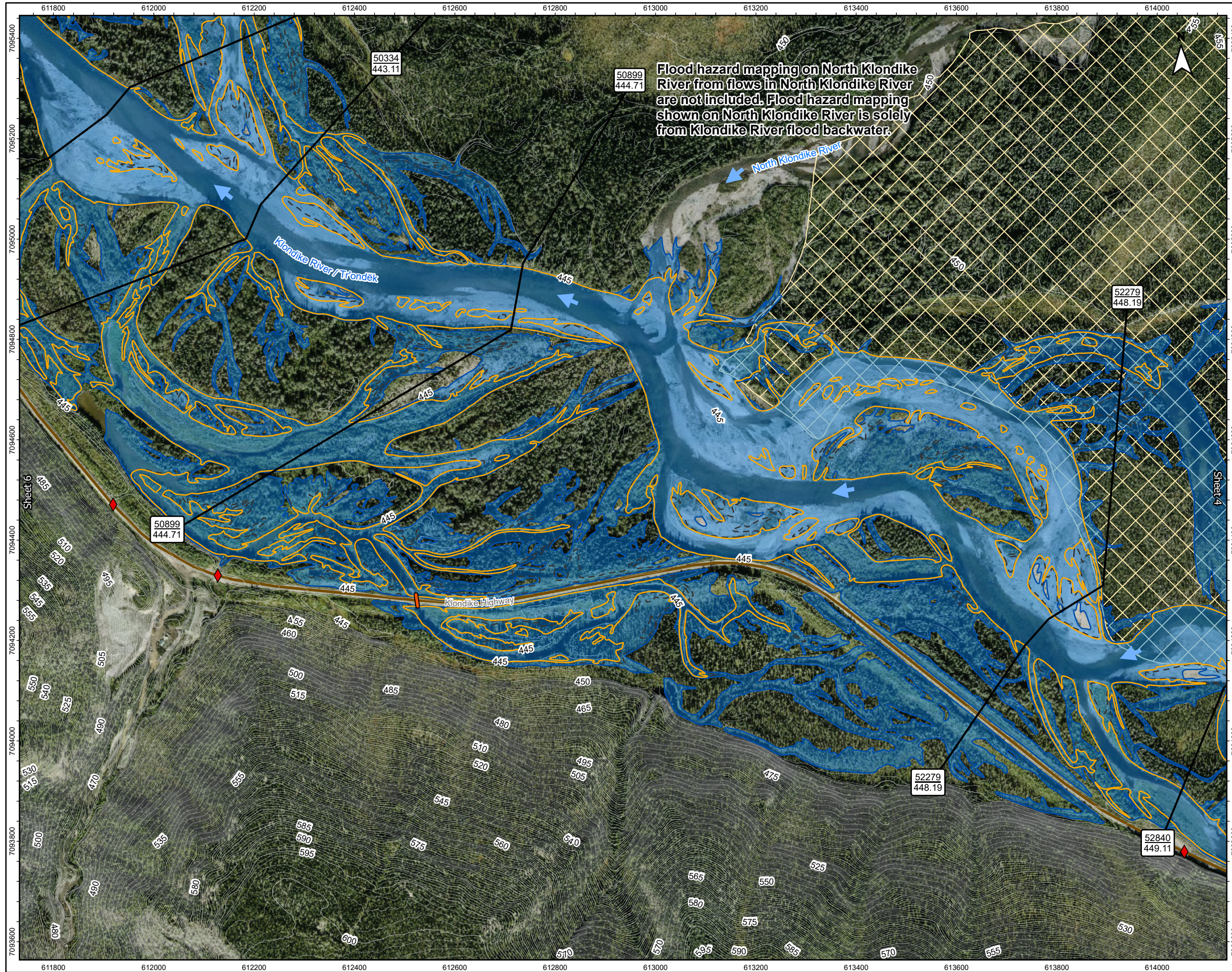
Notes

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2. Data Sources: GeoYukon, Canada Lands Survey (CLS) CCM 982, CANVEC
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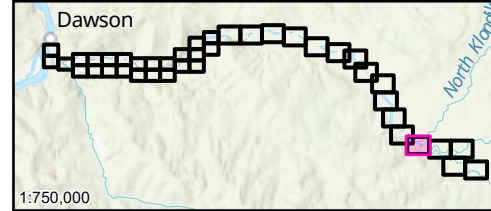
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- HPW Drainage Culverts
- Tr'ondëk Hwëch'in Settlement Land
- Inundation Under Modelled Open Water Runs
- Inundation Under Modelled Breakup Ice Jam Runs
- Approximate 50% AEP Open Water Flood Inundation
- Composite Open Water and Ice Jam Inundation Extent
- Highway
- Minor Contour (1m)
- Major Contour (5m)
- Surveyed Cross-Sections Used in Hydraulic Model
- Surveyed Culvert Location
- Cross-Section Number WSE (m) Along Cross-Section

Map Publication Date: 7/29/2025
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(At original document size of 11x 17) 1:7,500



- Notes
- Coordinate System: NAD 1983 CSRS UTM Zone 7N Vertical Datum: CGVD2013, Geoid: CGVD2013a
 - Data Sources: GeoYukon, Canada Lands Survey (CLS) CCM 982, CANVEC
 - Flood hazard extents shown on these maps are based on LIDAR collected in August, 2024 and topographical and bathymetric data that was collected in June and September 2024.
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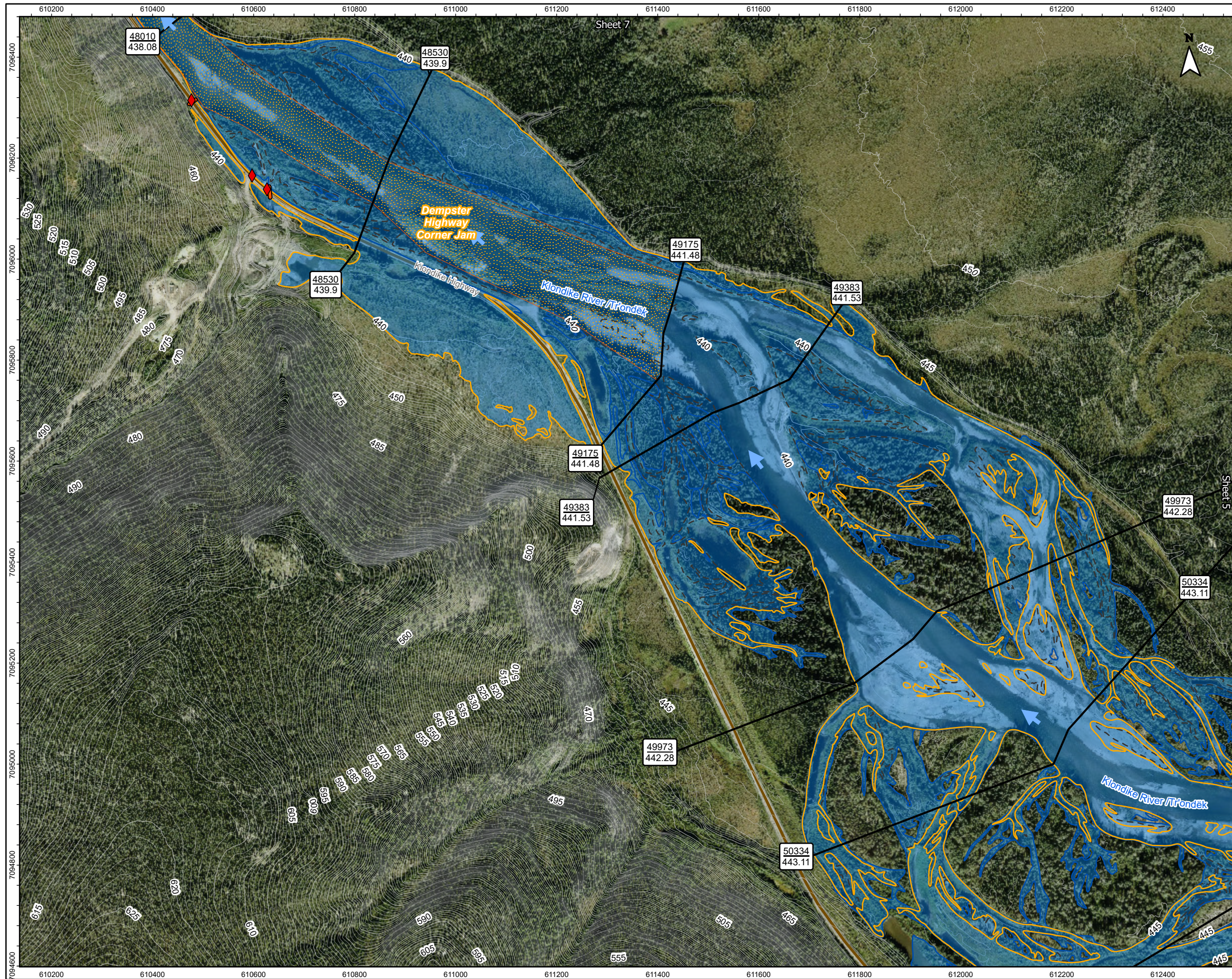


Figure No. **KR-5-06** Sheet 06 of 41

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

Client/Project:
Government of Yukon
Department of Environment
Water Resources Branch

Project: 123222713

Project Location: Dawson, Yukon

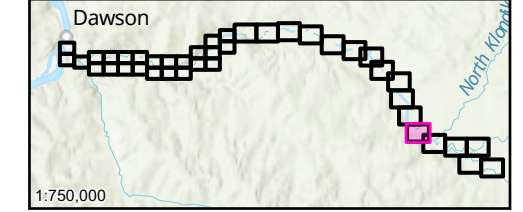
Prepared by MANDERSON on 2025-07-29
Requested by JMUIRHEAD on 2024-03-30
Review by JMUIRHEAD on 2025-07-29

- HPW Drainage Culverts
- Inundation Under Modelled Open Water Runs
- Inundation Under Modelled Breakup Ice Jam Runs
- Cross-Section Number WSE (m) Along Cross-Section
- Approximate 50% AEP Open Water Flood Inundation
- Surveyed Culvert Location
- Composite Open Water and Ice Jam Inundation Extent
- Ice Coverage in Breakup Jam Scenarios
- Highway
- Major Contour (5m)
- Minor Contour (1m)
- Surveyed Cross-Sections Used in Hydraulic Model

Map Publication Date: 7/29/2025

0 100 200 300 400 m

(At original document size of 11x 17) 1:7,500



Notes

1. Coordinate System: NAD 1983 CSRS UTM Zone 7N Vertical Datum: CGVD2013, Geoid: CGG2013a
2. Data Sources: GeoYukon, Canada Lands Survey (CLS) CCM 982, CANVEC
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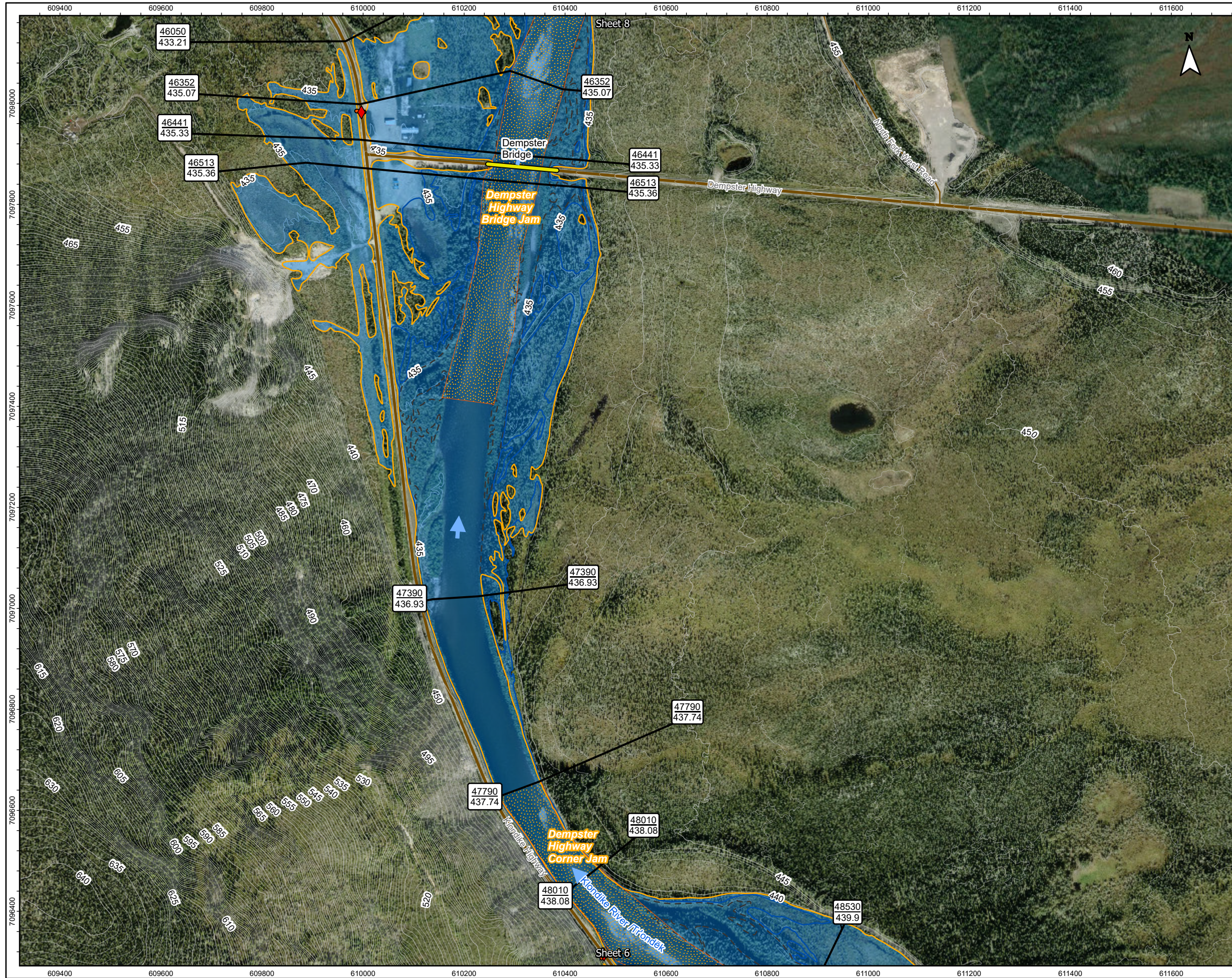


Figure No. **KR-5-07** Sheet 07 of 41

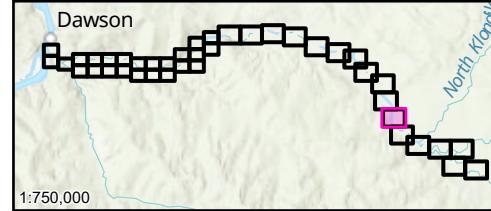
Title: **Dawson City and Klondike Valley Flood Mapping Study
Composite Flood Hazard Map - Klondike River
5% Annual Exceedance Probability (AEP)**

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

- HPW Drainage Culverts
- Surveyed Cross-Sections Used in Hydraulic Model
- Cross-Section Number WSE (m) Along Cross-Section
- Inundation Under Modelled Open Water Runs
- Surveyed Culvert Location
- Inundation Under Modelled Breakup Ice Jam Runs
- Bridge
- Highway
- Local Road
- Approximate 50% AEP Open Water Flood Inundation
- Composite Open Water and Ice Jam Inundation Extent
- Ice Coverage in Breakup Jam Scenarios
- Major Contour (5m)
- Minor Contour (1m)

Map Publication Date: 7/29/2025
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Notes
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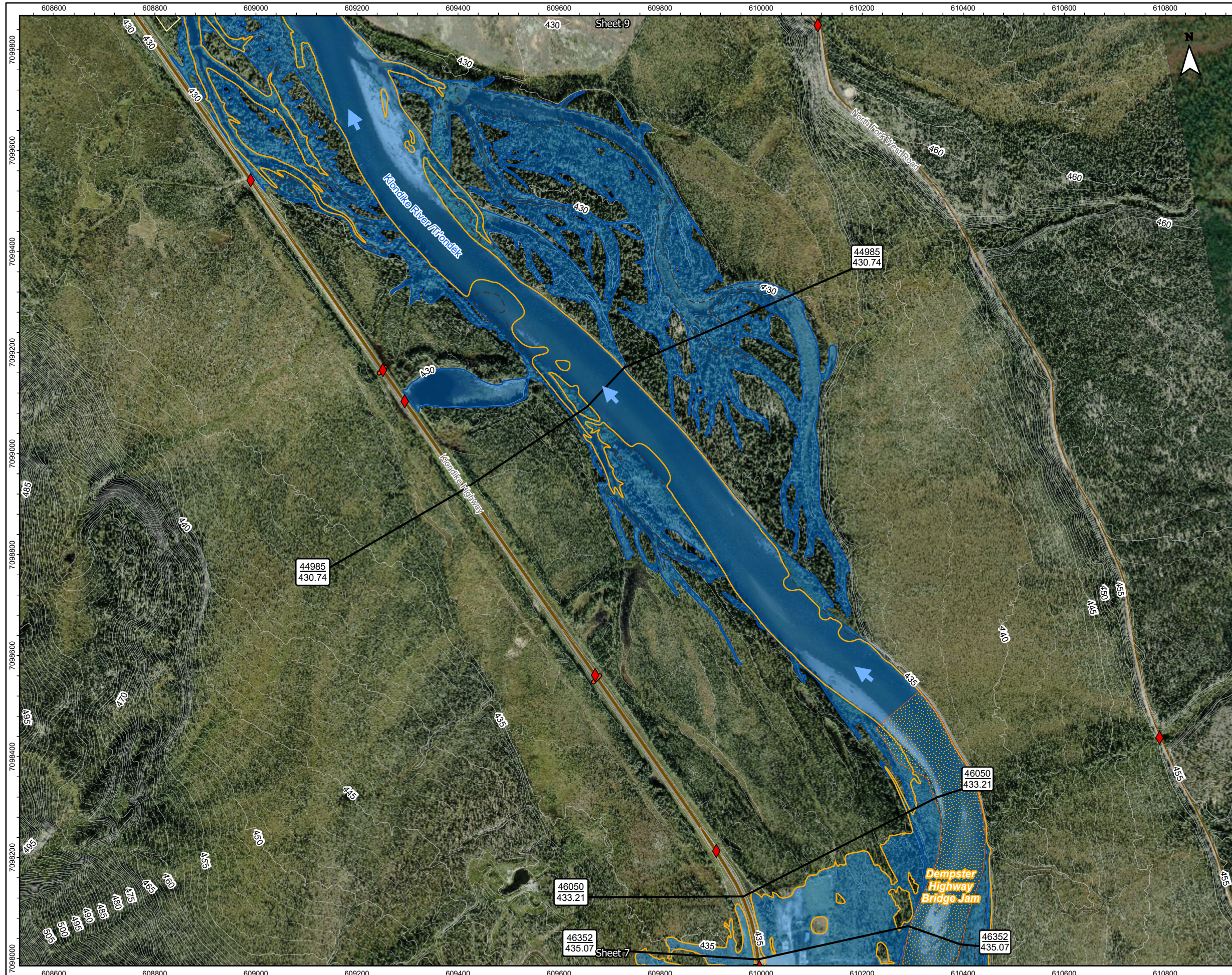


Figure No. **KR-5-08** Sheet 08 of 41

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

Client/Project:
Government of Yukon
Department of Environment
Water Resources Branch

Project: 123222713

Project Location: Dawson, Yukon

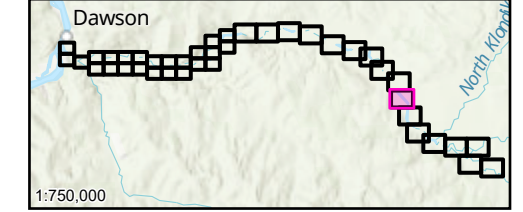
Prepared by MANDERSON on 2025-07-29
Requested by JMUIRHEAD on 2024-03-30
Review by JMUIRHEAD on 2025-07-29

- HPW Drainage Culverts
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- Cross-Section Number WSE (m) Along Cross-Section
- Approximate 50% AEP Open Water Flood Inundation
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- Ice Coverage in Breakup Jam Scenarios
- Surveyed Culvert Location
- Highway
- Local Road
- Major Contour (5m)
- Minor Contour (1m)
- Surveyed Cross-Sections Used in Hydraulic Model

Map Publication Date: 7/29/2025

0 100 200 300 400 m

(At original document size of 11x 17) 1:7,500



- Notes**
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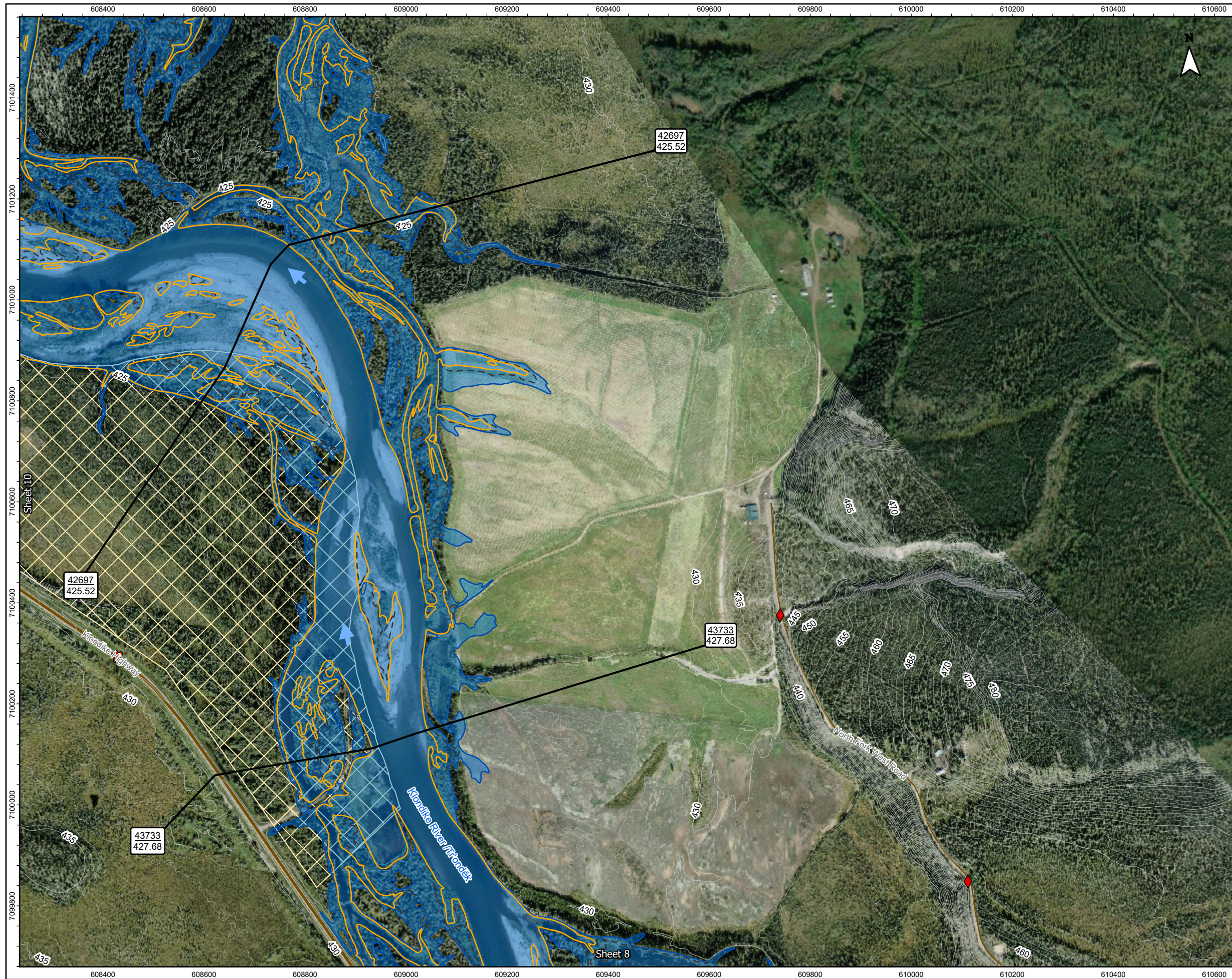


Figure No. **KR-5-09** Sheet 09 of 41

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

Client/Project:
Government of Yukon
Department of Environment
Water Resources Branch

Project: 123222713

Project Location: Dawson, Yukon

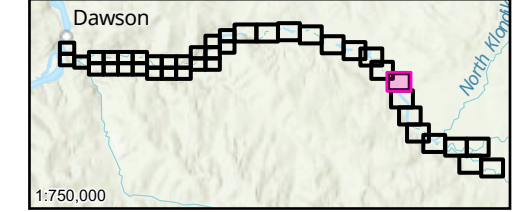
Prepared by MANDERSON on 2025-07-29
Requested by JMUIRHEAD on 2024-03-30
Review by JMUIRHEAD on 2025-07-29

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Map Publication Date: 7/29/2025

0 100 200 300 400 m

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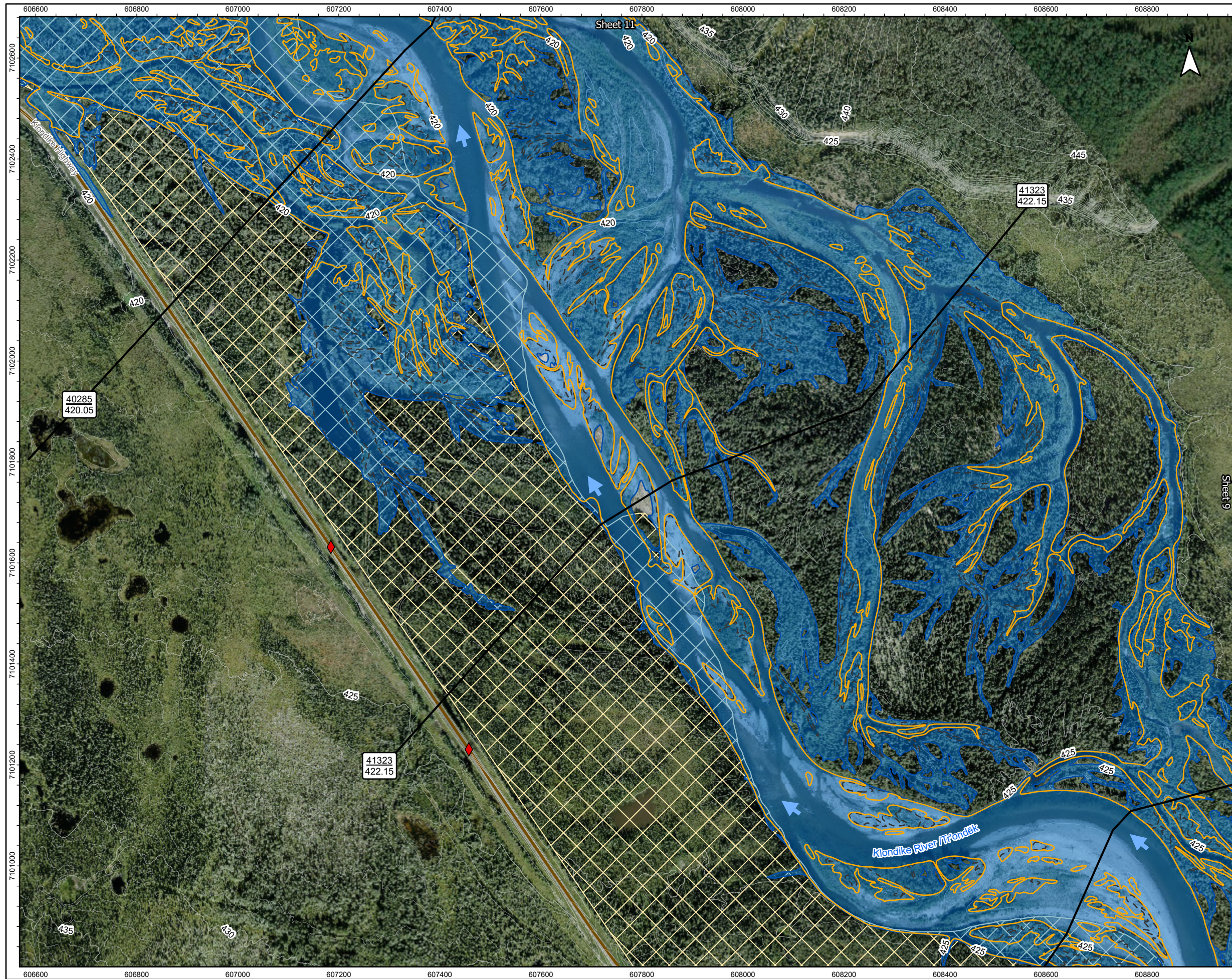
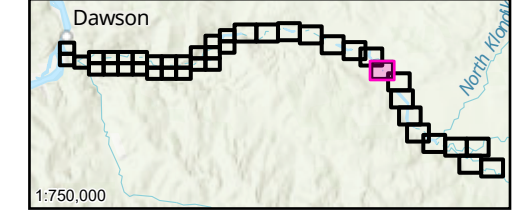


Figure No. **KR-5-10** Sheet 10 of 41
 Title: **Dawson City and Klondike Valley Flood Mapping Study Composite Flood Hazard Map - Klondike River 5% Annual Exceedance Probability (AEP)**
 Client/Project: Government of Yukon, Department of Environment, Water Resources Branch
 Project: 123222713
 Project Location: Dawson, Yukon
 Prepared by MANDERSON on 2025-07-29
 Requested by JMUIRHEAD on 2024-03-30
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Map Publication Date: 7/29/2025
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 (At original document size of 11x 17) 1:7,500

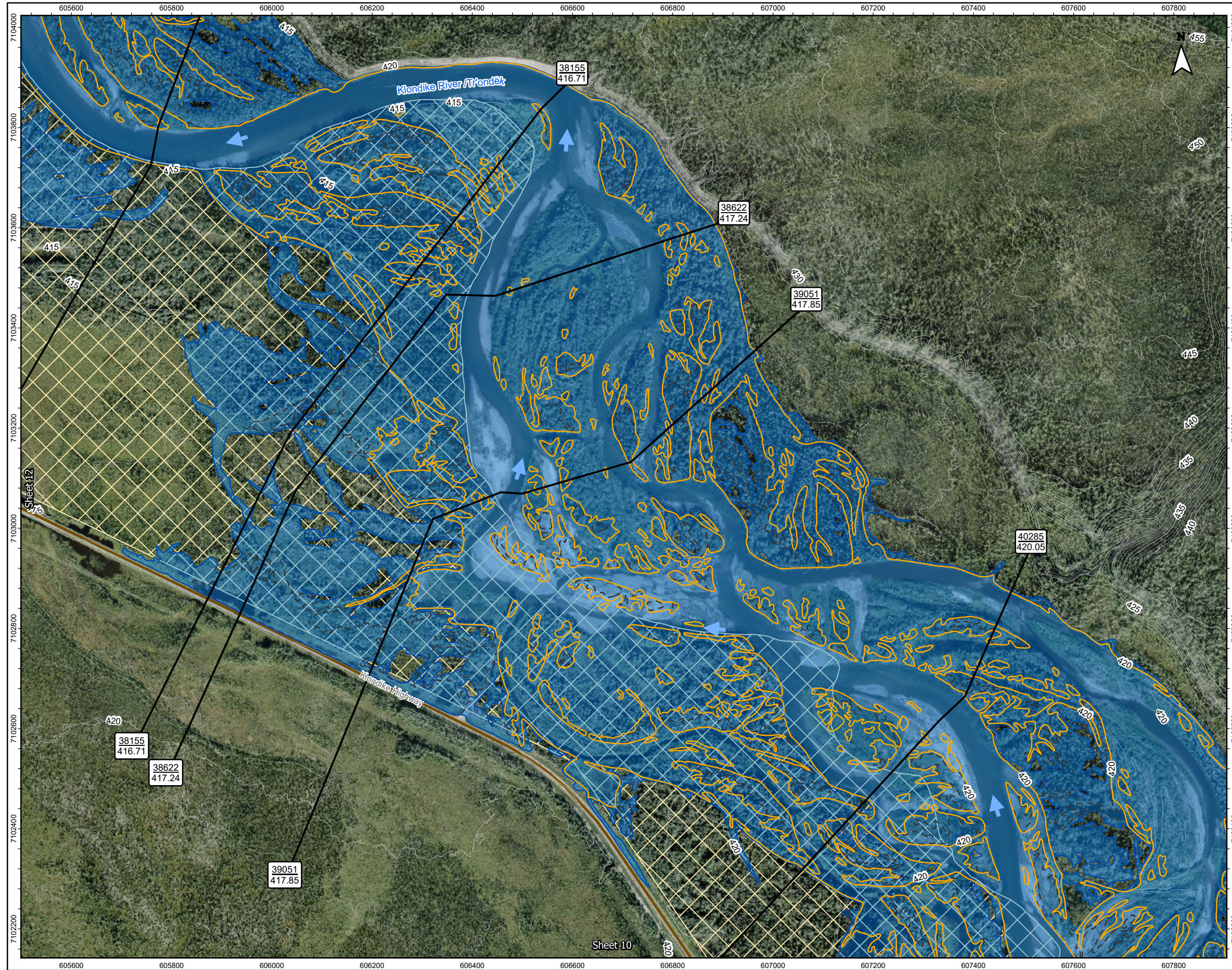


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Title: Dawson City and Klondike Valley Flood Mapping Study
Composite Flood Hazard Map - Klondike River
5% Annual Exceedance Probability (AEP)

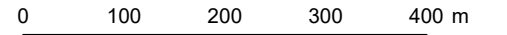
Client/Project:
Government of Yukon
Department of Environment
Water Resources Branch

Project: 123222713

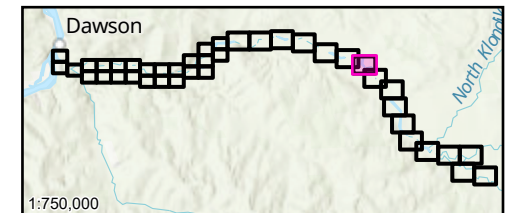
Project Location: Dawson, Yukon
Prepared by MANDERSON on 2025-07-29
Requested by JMUIRHEAD on 2024-03-30
Review by JMUIRHEAD on 2025-07-29

- 57
517.2 Cross-Section Number WSE (m) Along Cross-Section
- Highway
- Major Contour (5m)
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- Inundation Under Modelled Breakup Ice Jam Runs
- Approximate 50% AEP Open Water Flood Inundation
- Composite Open Water and Ice Jam Inundation Extent

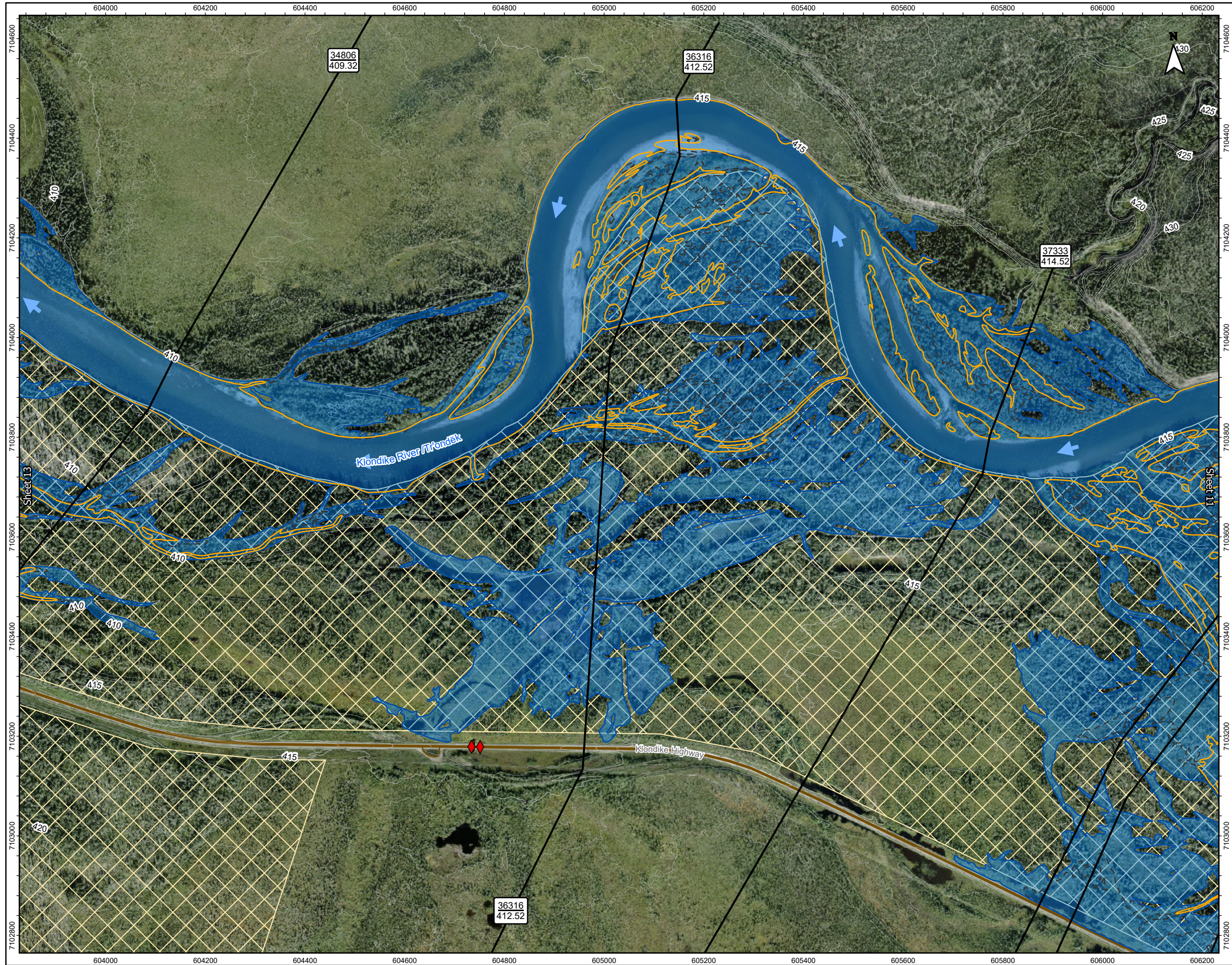
Map Publication Date: 7/29/2025



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- Notes**
1. Coordinate System: NAD 1983 CSRS UTM Zone 7N 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 August, 2024 and topographical and bathymetric data that was collected in June and September 2024.
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Title: Dawson City and Klondike Valley Flood Mapping Study
Composite Flood Hazard Map - Klondike River
5% Annual Exceedance Probability (AEP)

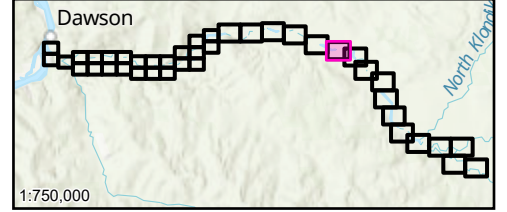
Client/Project:
 Government of Yukon
 Department of Environment
 Water Resources Branch

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

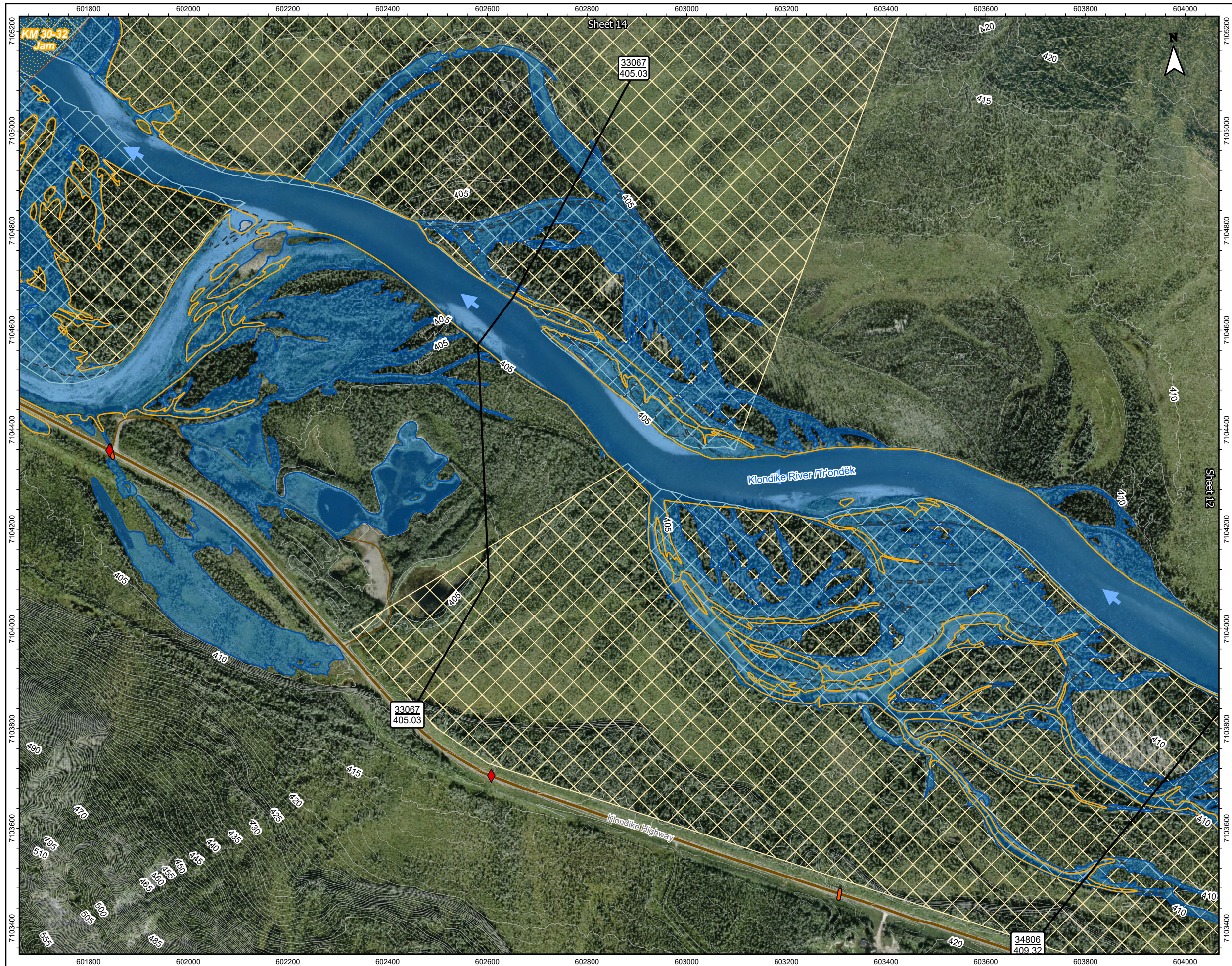
- HPW Drainage Culverts
- Surveyed Cross-Sections Used in Hydraulic Model
- Tr'ondék Hwëch'in Settlement Land
- Inundation Under Modelled Open Water Runs
- Inundation Under Modelled Breakup Ice Jam Runs
- Approximate 50% AEP Open Water Flood Inundation
- Composite Open Water and Ice Jam Inundation Extent
- Cross-Section Number WSE (m) Along Cross-Section
- Surveyed Culvert Location
- Highway
- Local Road
- Major Contour (5m)
- Minor Contour (1m)

Map Publication Date: 7/29/2025
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 (At original document size of 11x 17) 1:7,500



Notes

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2. Data Sources: GeoYukon, Canada Lands Survey (CLS) CCM 982, CANVEC
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Title: Dawson City and Klondike Valley Flood Mapping Study
Composite Flood Hazard Map - Klondike River
5% Annual Exceedance Probability (AEP)

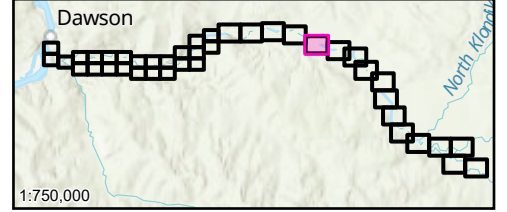
Client/Project:
Government of Yukon
Department of Environment
Water Resources Branch

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

- HPW Drainage Culverts
- Tr'ondék Hwé'ch'in Settlement Land
- Inundation Under Modelled Open Water Runs
- Inundation Under Modelled Breakup Ice Jam Runs
- Cross-Section Number WSE (m) Along Cross-Section
- Approximate 50% AEP Open Water Flood Inundation
- Surveyed Culvert Location
- Composite Open Water and Ice Jam Inundation Extent
- Highway
- Approximate 50% AEP Open Water Flood Inundation
- Local Road
- Composite Open Water and Ice Jam Inundation Extent
- Major Contour (5m)
- Approximate 50% AEP Open Water Flood Inundation
- Minor Contour (1m)
- Ice Coverage in Breakup Jam Scenarios
- Surveyed Cross-Sections Used in Hydraulic Model

Map Publication Date: 7/29/2025
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(At original document size of 11x 17) 1:7,500



Notes
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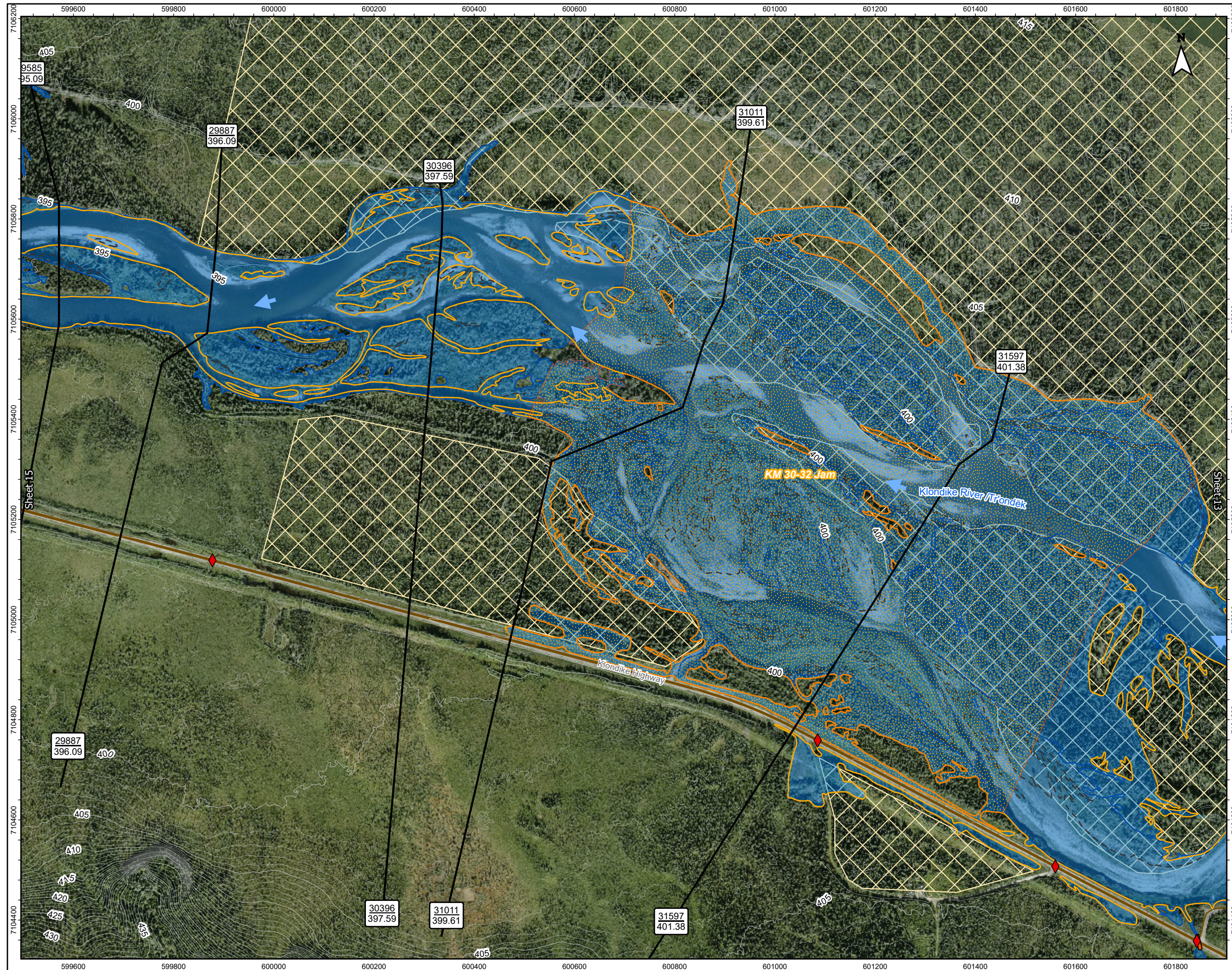


Figure No. **KR-5-14** Sheet 14 of 41

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

Client/Project:
Government of Yukon
Department of Environment
Water Resources Branch

Project: 123222713

Project Location: Dawson, Yukon

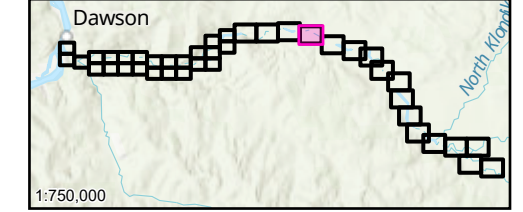
Prepared by MANDERSON on 2025-07-29
Requested by JMUIRHEAD on 2024-03-30
Review by JMUIRHEAD on 2025-07-29

- HPW Drainage Culverts
- 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 Extent
- Ice Coverage in Breakup Jam Scenarios
- Cross-Section Number WSE (m) Along Cross-Section
- Surveyed Culvert Location
- Highway
- Local Road
- Major Contour (5m)
- Minor Contour (1m)
- Surveyed Cross-Sections Used in Hydraulic Model

Map Publication Date: 7/29/2025

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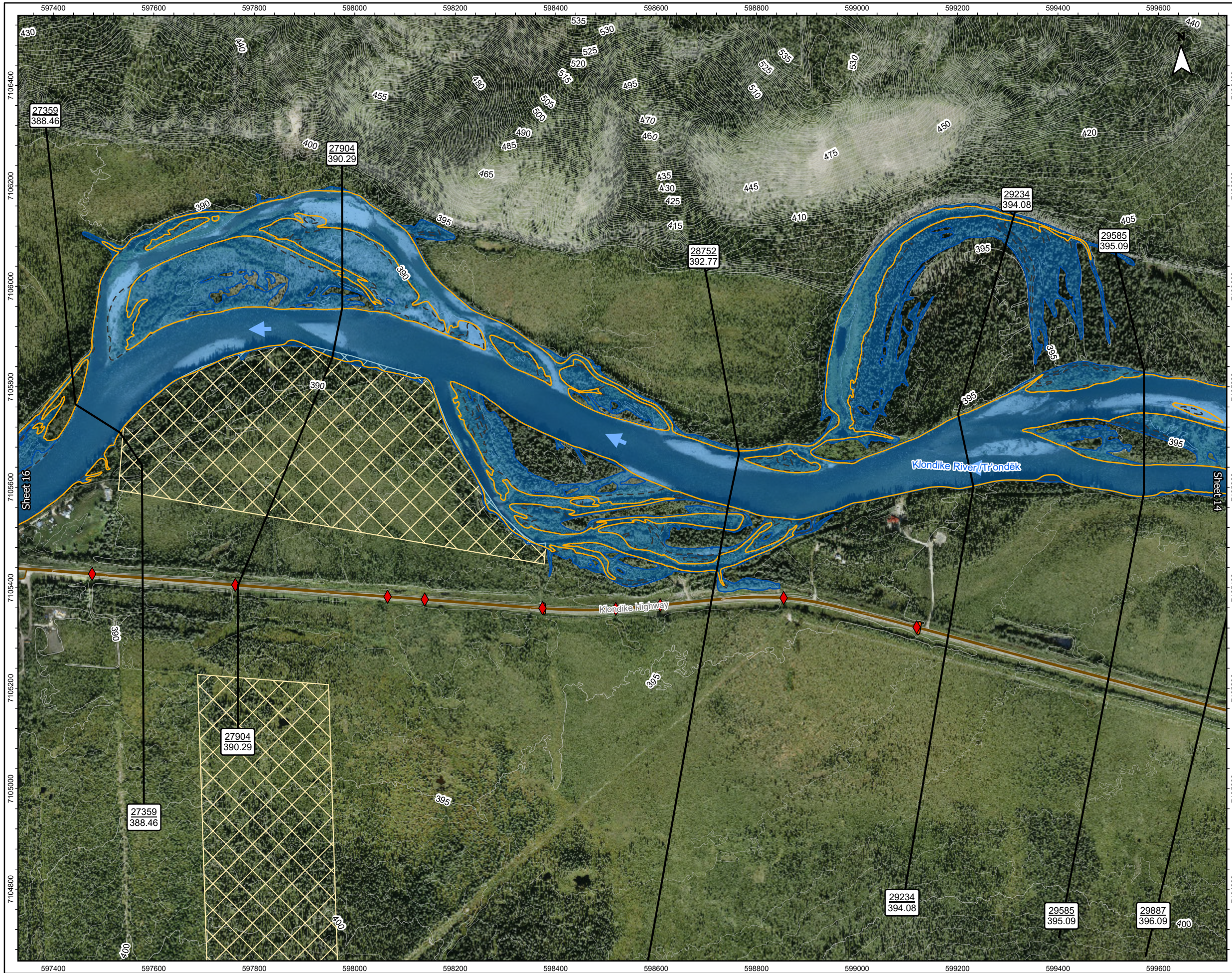


- Notes
1. Coordinate System: NAD 1983 CSRS UTM Zone 7N Vertical Datum: CGVD2013, Geoid: CGG2013a
 2. Data Sources: GeoYukon, Canada Lands Survey (CLS) CCM 982, CANVEC
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Title: Dawson City and Klondike Valley Flood Mapping Study
Composite Flood Hazard Map - Klondike River
5% Annual Exceedance Probability (AEP)

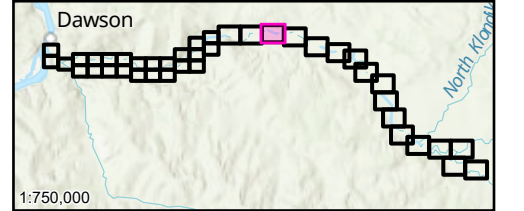
Client/Project:
 Government of Yukon
 Department of Environment
 Water Resources Branch

Project: 123222713

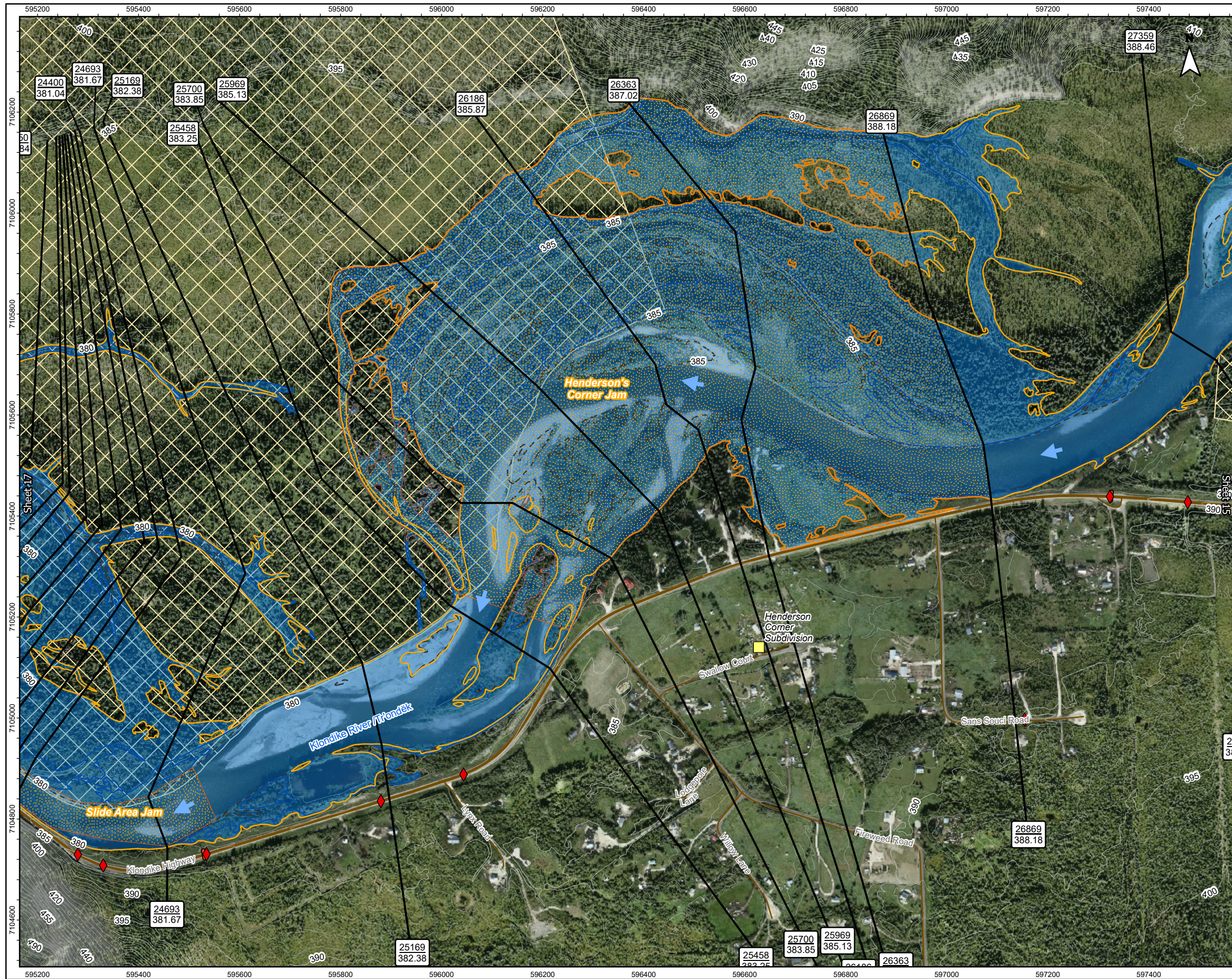
Project Location: Dawson, Yukon
 Prepared by MANDERSON on 2025-07-29
 Requested by JMUIRHEAD on 2024-03-30
 Review by JMUIRHEAD on 2025-07-29

- HPW Drainage Culverts
- Surveyed Cross-Sections Used in Hydraulic Model
- Cross-Section Number WSE (m) Along Cross-Section
- Tr'ondëk Hwëch'in Settlement Land
- Surveyed Culvert Location
- Inundation Under Modelled Open Water Runs
- Highway
- Inundation Under Modelled Breakup Ice Jam Runs
- Local Road
- Approximate 50% AEP Open Water Flood Inundation
- Major Contour (5m)
- Composite Open Water and Ice Jam Inundation Extent
- Minor Contour (1m)

Map Publication Date: 7/29/2025
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Notes
 1. Coordinate System: NAD 1983 CSRS UTM Zone 7N Vertical Datum: CGVD2013, Geoid: CGG2013a
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Title: Dawson City and Klondike Valley Flood Mapping Study
Composite Flood Hazard Map - Klondike River
5% Annual Exceedance Probability (AEP)

Client/Project:
Government of Yukon
Department of Environment
Water Resources Branch

Project: 123222713

Project Location: Dawson, Yukon

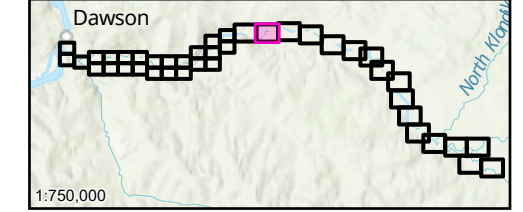
Prepared by MANDERSON on 2025-07-29
Requested by JMUIRHEAD on 2024-03-30
Review by JMUIRHEAD on 2025-07-29

- | | |
|--|--|
| Community Developments | Surveyed Cross-Sections Used in Hydraulic Model |
| HPW Drainage Culverts | Trondëk Hwëch'in Settlement Land |
| Cross-Section Number WSE (m) Along Cross-Section | Inundation Under Modelled Open Water Runs |
| Surveyed Culvert Location | Inundation Under Modelled Breakup Ice Jam Runs |
| Highway | Approximate 50% AEP Open Water Flood Inundation |
| Local Road | Composite Open Water and Ice Jam Inundation Extent |
| Major Contour (5m) | Ice Coverage in Breakup Jam Scenarios |
| Minor Contour (1m) | |

Map Publication Date: 7/29/2025

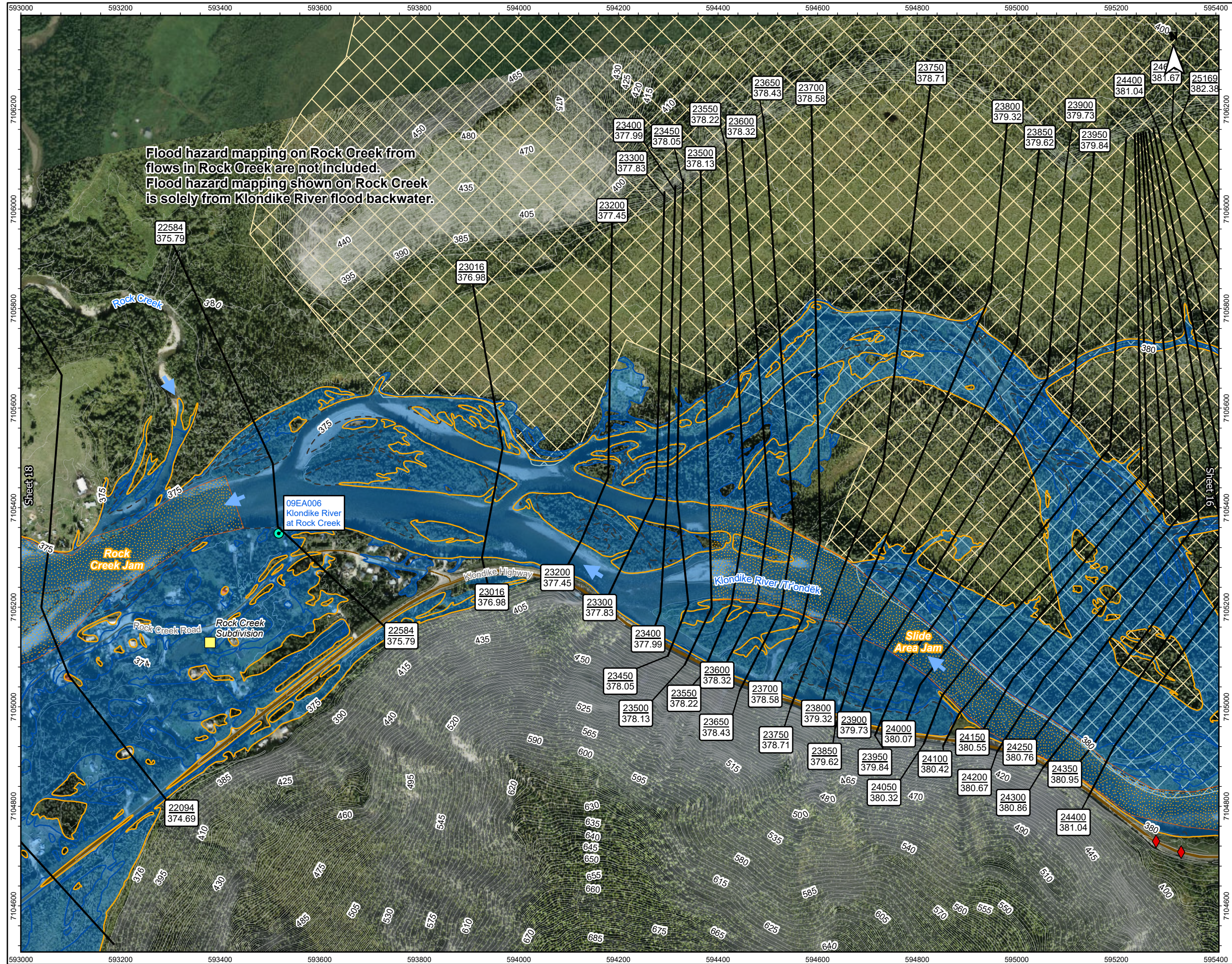
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Notes

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Flood hazard mapping on Rock Creek from flows in Rock Creek are not included. Flood hazard mapping shown on Rock Creek is solely from Klondike River flood backwater.

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

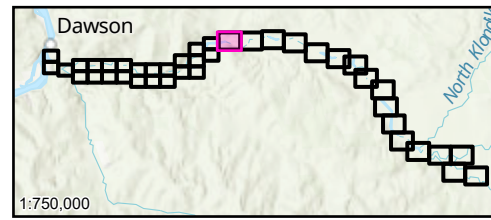
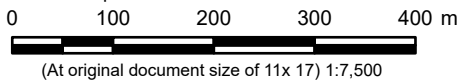
Client/Project:
Government of Yukon
Department of Environment
Water Resources Branch

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

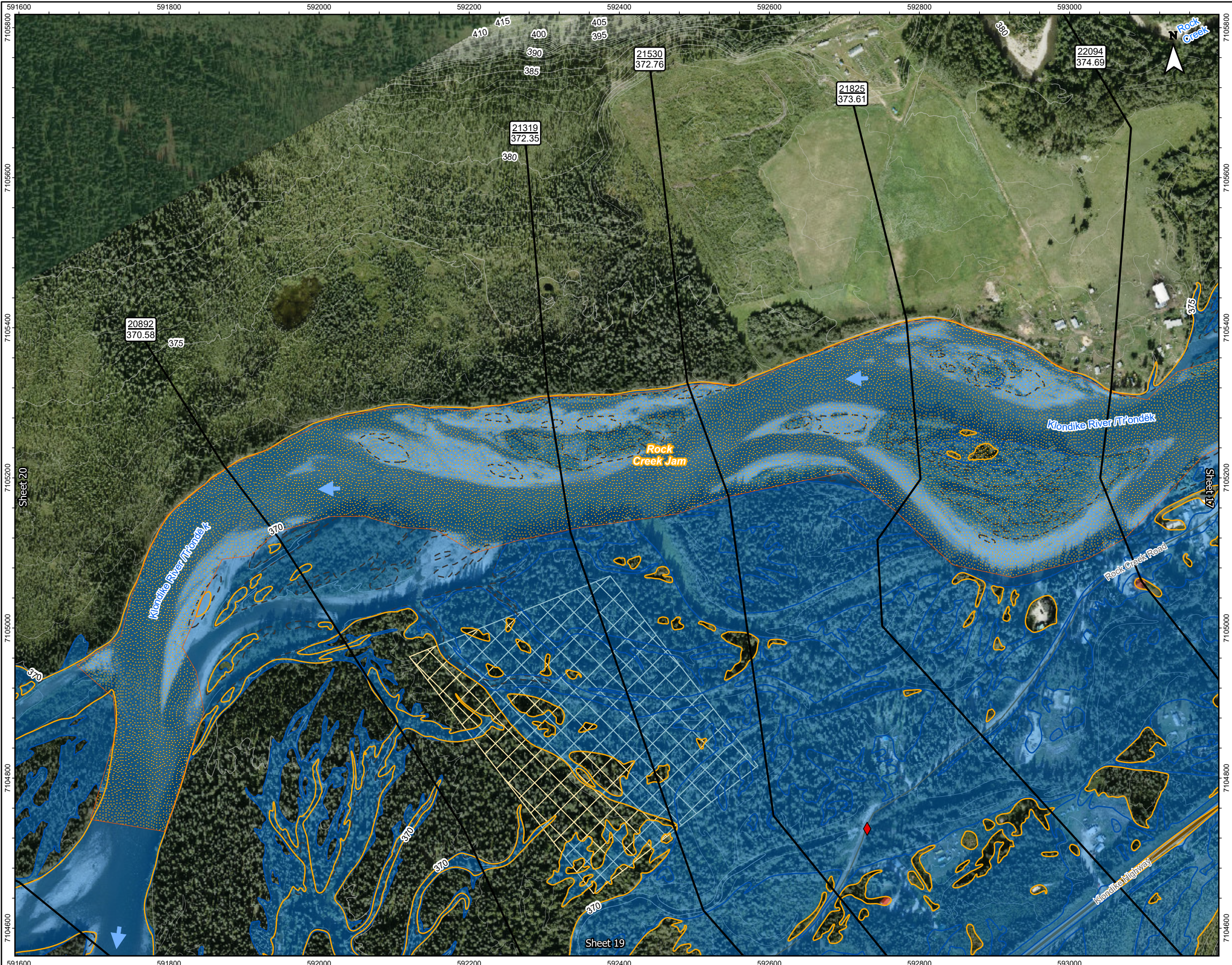
- WSC Stations
- Community Developments
- HPW Drainage Culverts
- Cross-Section Number WSE (m) Along Cross-Section
- Highway
- Local Road
- Major Contour (5m)
- Minor Contour (1m)
- Surveyed Cross-Sections Used in Hydraulic Model
- Tr'ondëk Hwëch'in Settlement Land
- Inundation Under Modelled Open Water Runs
- Inundation Under Modelled Breakup Ice Jam Runs
- Approximate 50% AEP Open Water Flood Inundation
- Composite Open Water and Ice Jam Inundation Extent
- Ice Coverage in Breakup Jam Scenarios

Map Publication Date: 7/29/2025



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

Client/Project:
Government of Yukon
Department of Environment
Water Resources Branch

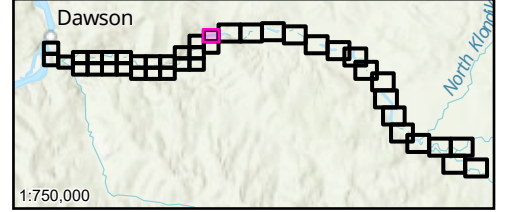
Project: 123222713

Project Location: Dawson, Yukon

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

- HPW Drainage Culverts
- T'ondék Hwé'ch'in Settlement Land
- Cross-Section Number WSE (m) Along Cross-Section
- Inundation Under Modelled Open Water Runs
- Highway
- Inundation Under Modelled Breakup Ice Jam Runs
- Local Road
- 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

Map Publication Date: 7/29/2025
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(At original document size of 11x 17) 1:5,000



- Notes**
1. Coordinate System: NAD 1983 CSRS UTM Zone 7N Vertical Datum: CGVD2013, Geoid: CGG2013a
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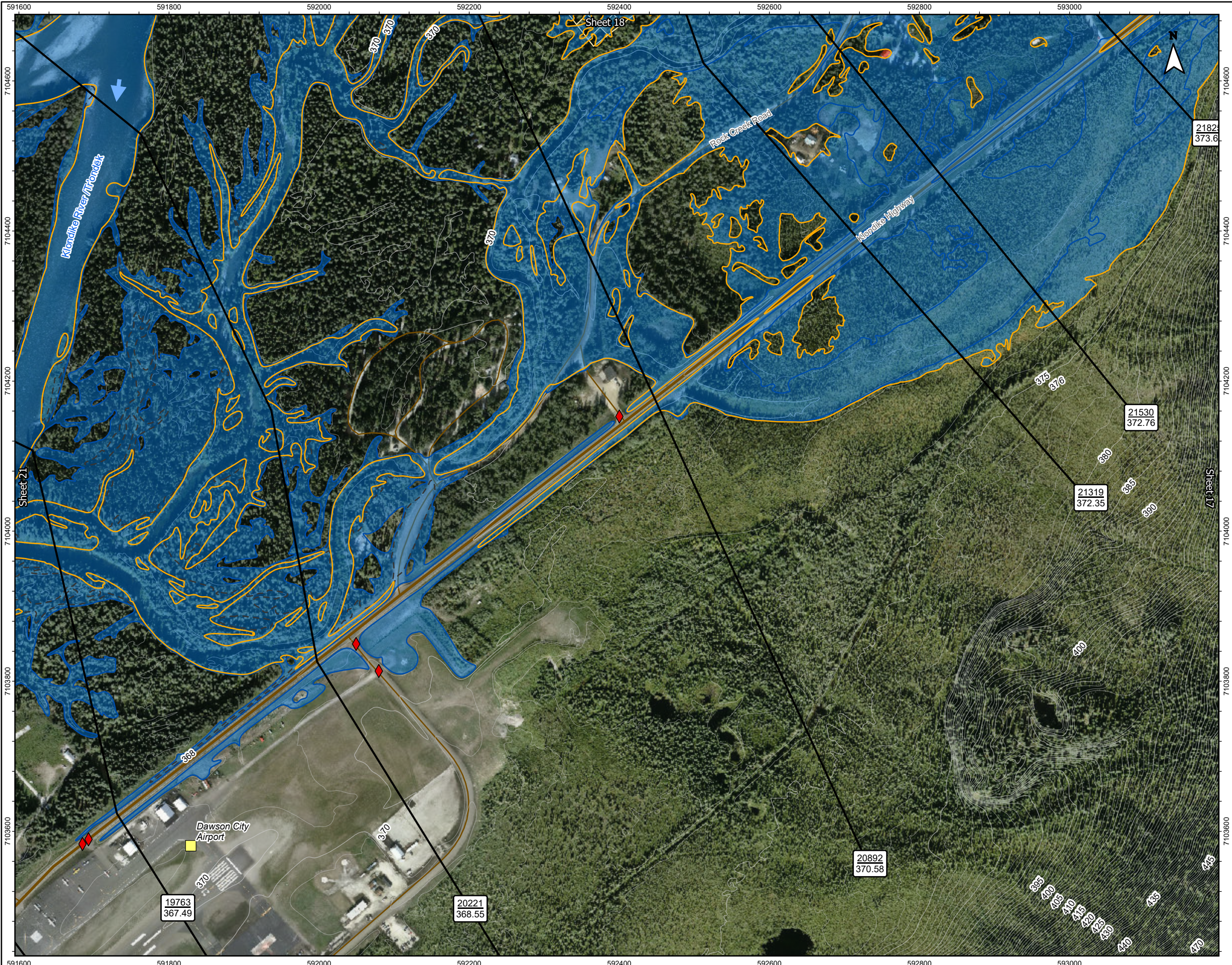


Figure No. **KR-5-19** Sheet 19 of 41

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

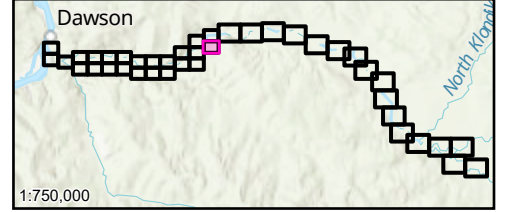
Client/Project: **Government of Yukon Department of Environment Water Resources Branch**

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

- Community Developments
- HPW Drainage Culverts
- Cross-Section Number WSE (m) Along Cross-Section
- Highway
- Local Road
- 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 Extent

Map Publication Date: 7/29/2025
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Notes

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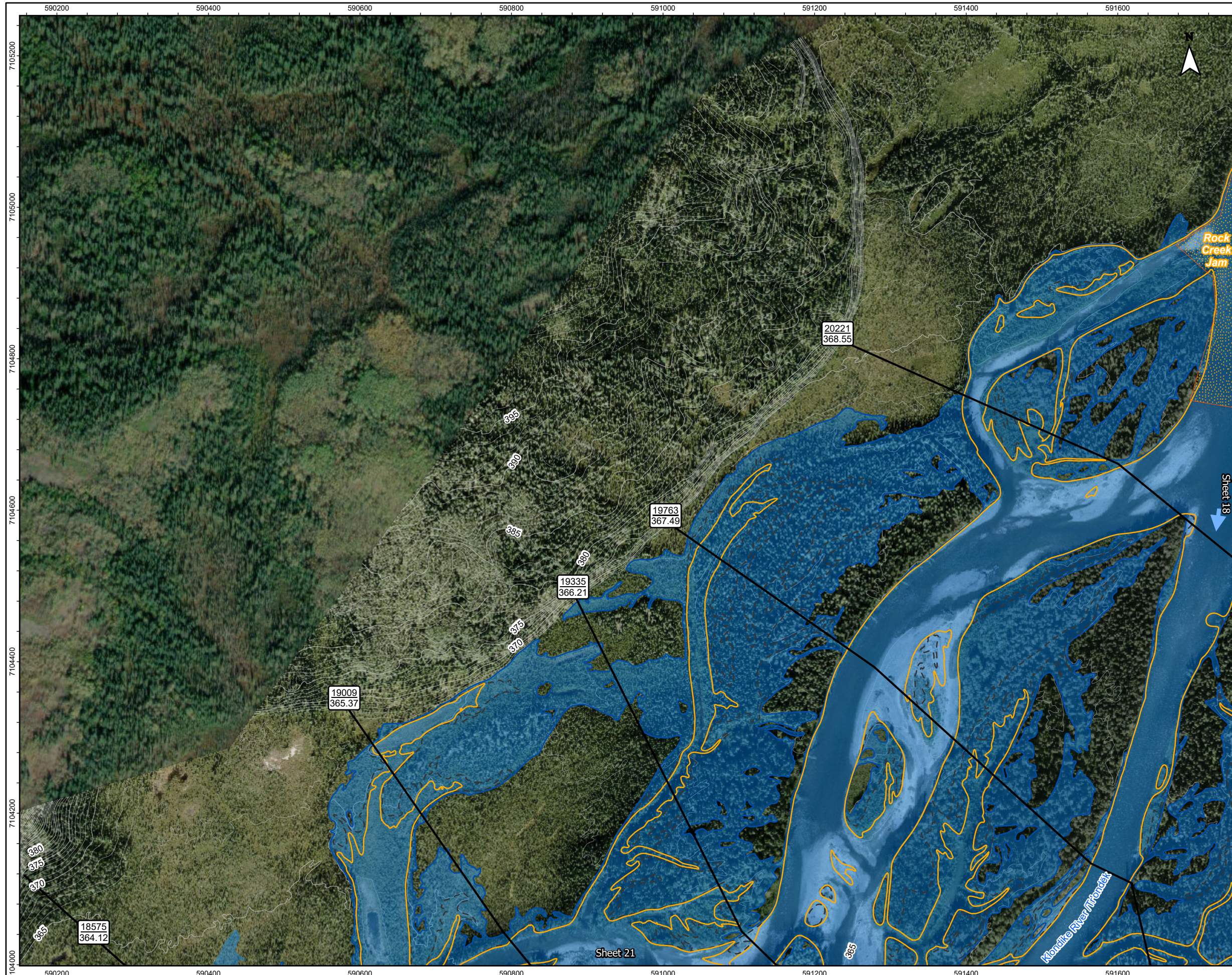


Figure No. **KR-5-20** Sheet 20 of 41

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

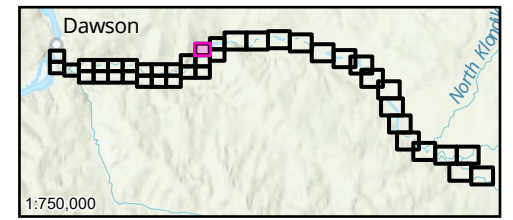
Client/Project:
Government of Yukon
Department of Environment
Water Resources Branch

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

- 57 Cross-Section Number WSE (m) Along Cross-Section
- 517.2
- Major Contour (5m)
- Minor Contour (1m)
- Surveyed Cross-Sections Used in Hydraulic Model
- 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 Extent
- Ice Coverage in Breakup Jam Scenarios

Map Publication Date: 7/29/2025
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(At original document size of 11x 17) 1:5,000



- Notes
1. Coordinate System: NAD 1983 CSRS UTM Zone 7N Vertical Datum: CGVD2013, Geoid: CGG2013a
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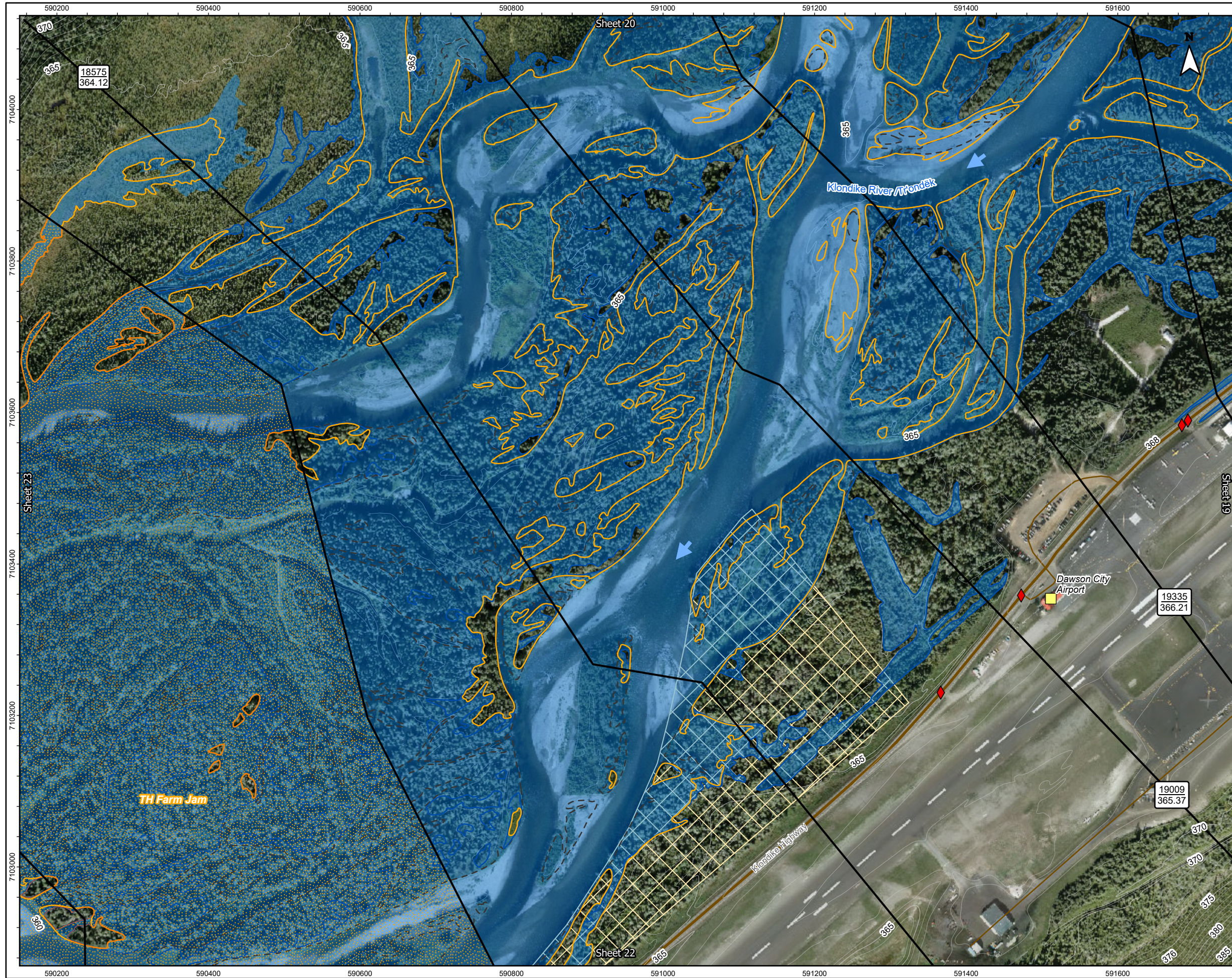


Figure No. **KR-5-21** Sheet 21 of 41

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

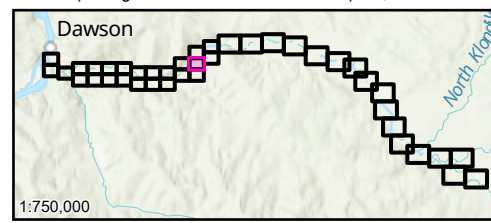
Client/Project:
Government of Yukon
Department of Environment
Water Resources Branch

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

- Community Developments
- Tr'ondek Hwé'ch'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 Extent
- Ice Coverage in Breakup Jam Scenarios
- HPW Drainage Culverts
- Cross-Section Number WSE (m) Along Cross-Section
- Highway
- Local Road
- Major Contour (5m)
- Minor Contour (1m)
- Surveyed Cross-Sections Used in Hydraulic Model

Map Publication Date: 7/29/2025
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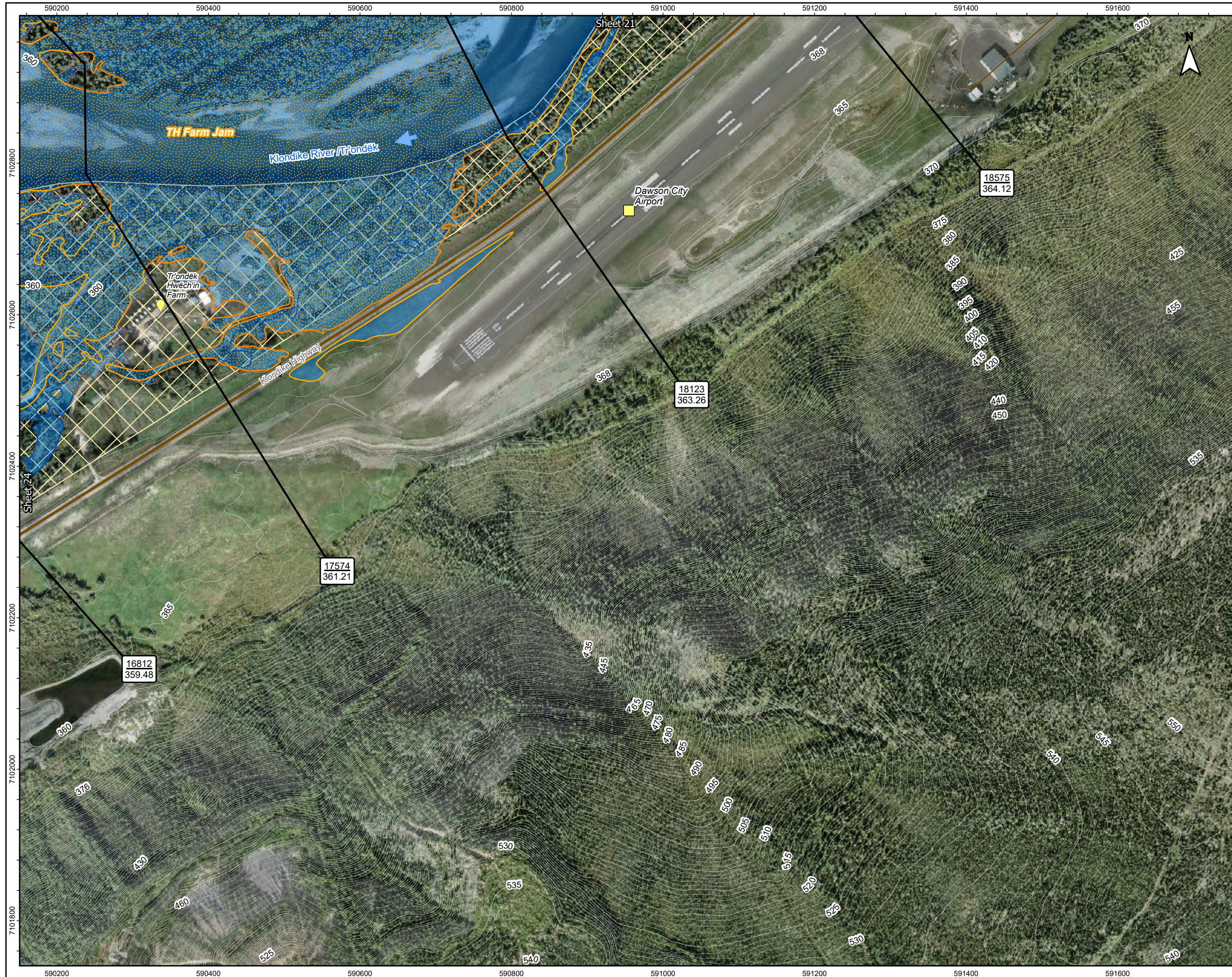


Figure No. **KR-5-22** Sheet 22 of 41

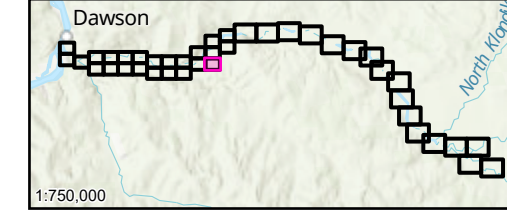
Title: **Dawson City and Klondike Valley Flood Mapping Study
Composite Hazard Map - Klondike River
5% Annual Exceedance Probability (AEP)**

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

- Community Developments
- Point of Interest
- HPW Drainage Culverts
- Cross-Section Number WSE (m) Along Cross-Section
- Highway
- Local Road
- 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 Extent
- 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: CGVD2013, Geoid: CGG2013a
 2. Data Sources: GeoYukon, Canada Lands Survey (CLS) CCM 982, CANVEC
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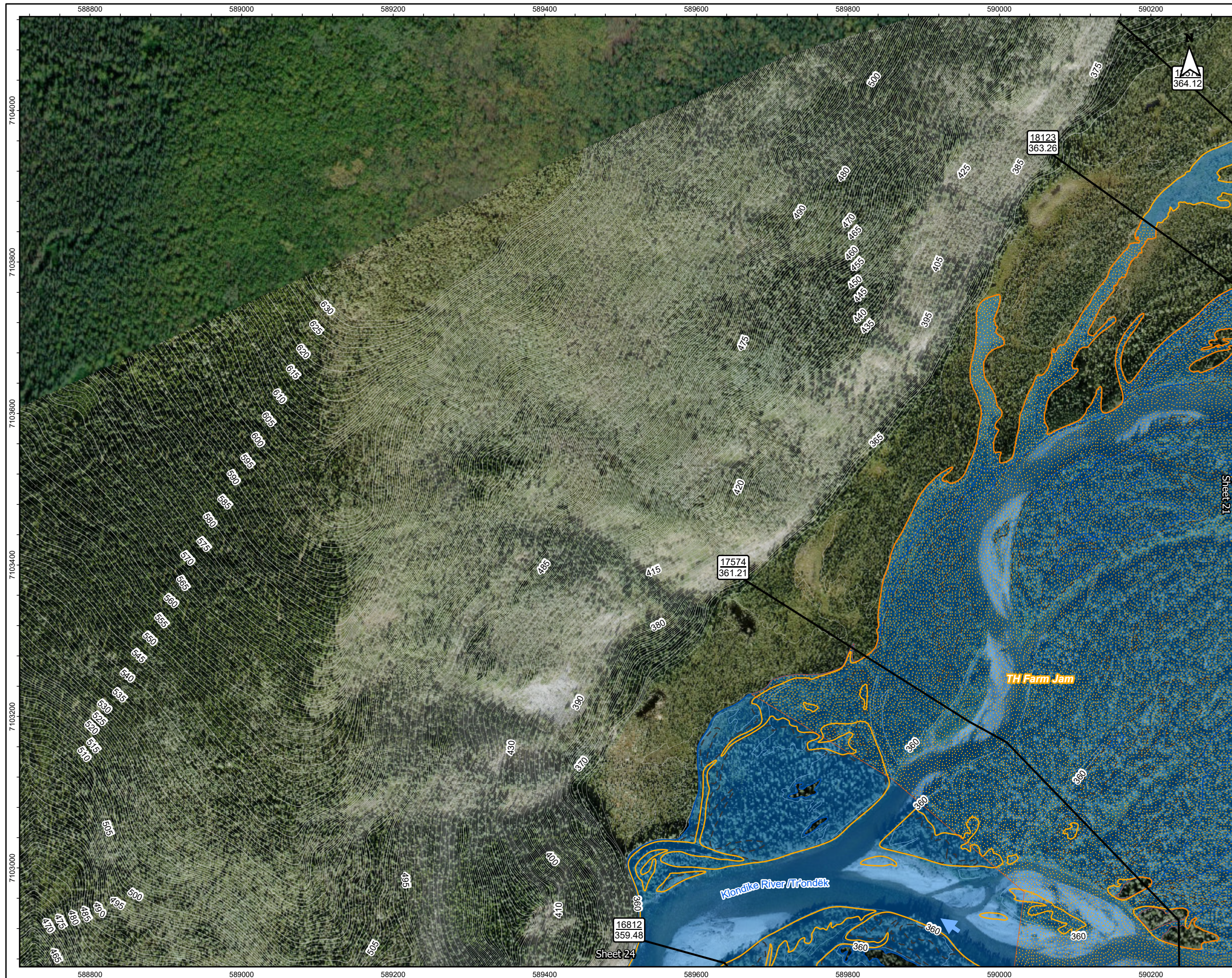


Figure No. **KR-5-23** Sheet 23 of 41

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

Client/Project: Government of Yukon
Department of Environment
Water Resources Branch

Project: 123222713

Project Location: Dawson, Yukon

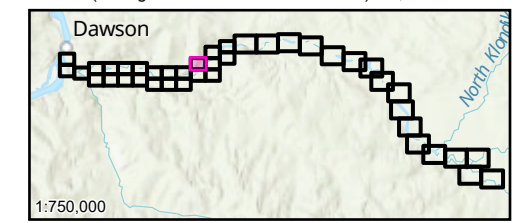
Prepared by MANDERSON on 2025-07-29
Requested by JMUIRHEAD on 2024-03-30
Review by JMUIRHEAD on 2025-07-29

- 57 Cross-Section Number WSE (m) Along Cross-Section
- 517.2 (m) Along Cross-Section
- Major Contour (5m)
- Minor Contour (1m)
- Surveyed Cross-Sections Used in Hydraulic Model
- 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 Extent
- 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

- Coordinate System: NAD 1983 CSRS UTM Zone 7N Vertical Datum: CGVD2013, Geoid: CGG2013a
- Data Sources: GeoYukon, Canada Lands Survey (CLS) CCM 982, CANVEC
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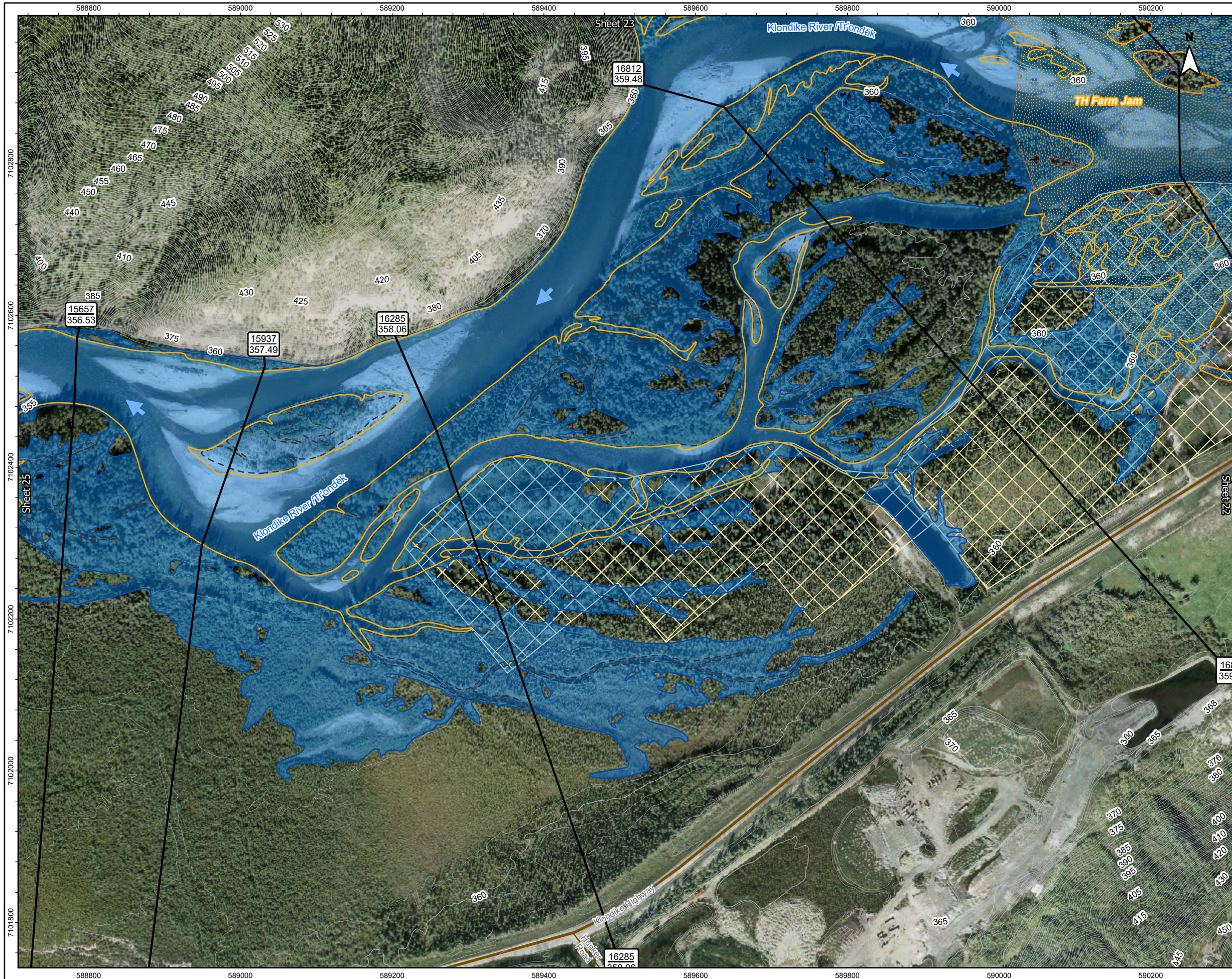


Figure No. **KR-5-24** Sheet 24 of 41

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

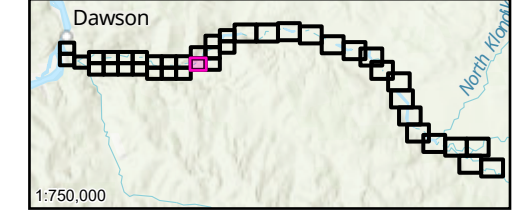
Client/Project:
Government of Yukon
Department of Environment
Water Resources Branch

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

- 57 Cross-Section Number WSE (m) Along Cross-Section
- Highway
- Local Road
- 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 Extent
- Ice Coverage in Breakup Ice 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: 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 August, 2024 and topographical and bathymetric data that was collected in June and September 2024.
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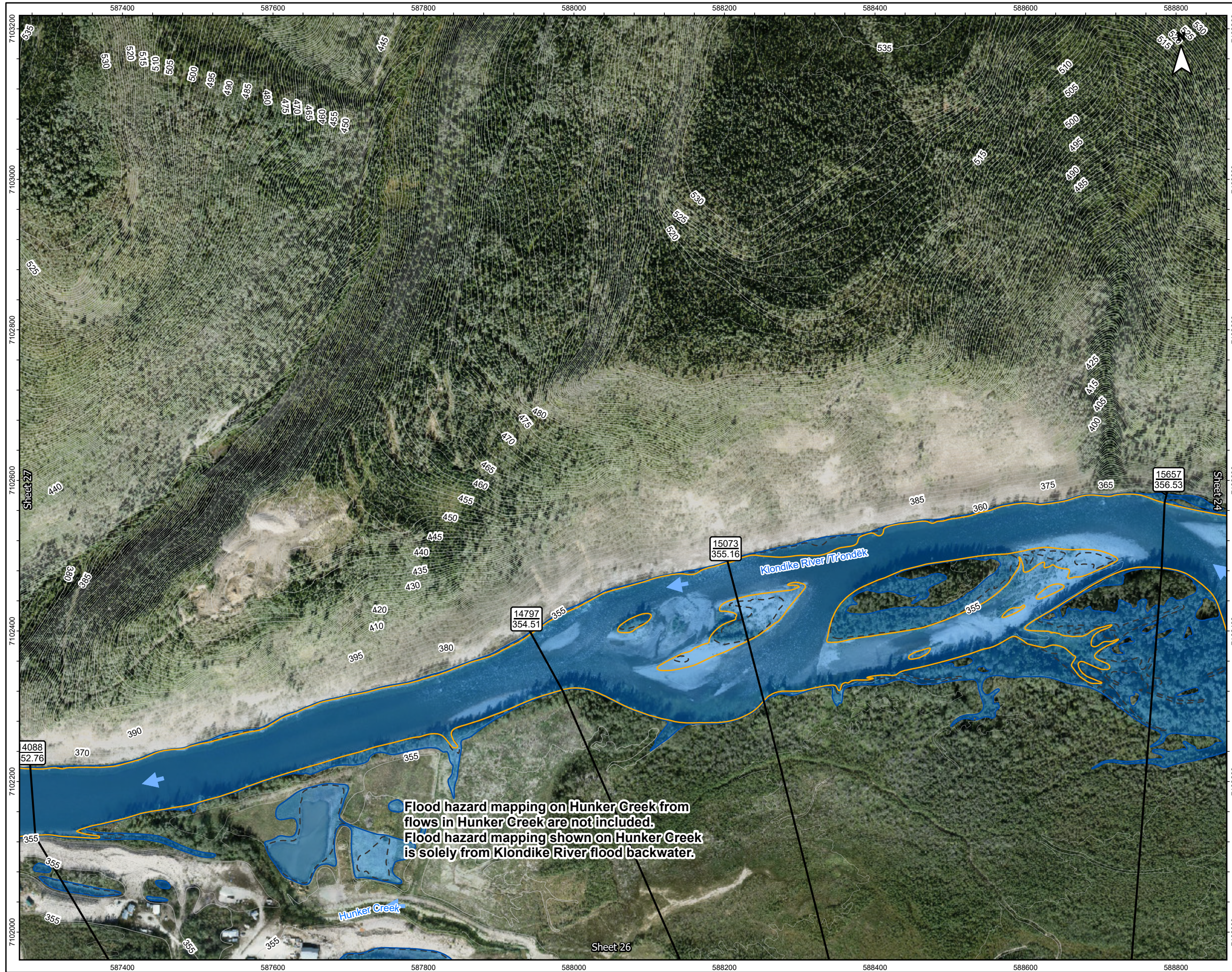


Figure No. **KR-5-25** Sheet 25 of 41

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

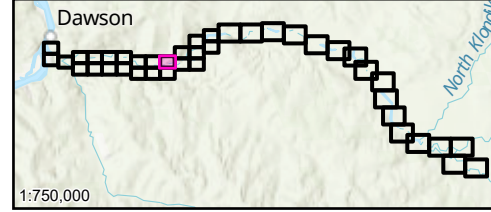
Client/Project:
Government of Yukon
Department of Environment
Water Resources Branch

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

- 57
517.2 Cross-Section Number WSE (m) Along Cross-Section
- Surveyed Culvert Location
- Major Contour (5m)
- Minor Contour (1m)
- Surveyed Cross-Sections Used in Hydraulic Model
- 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 Extent

Map Publication Date: 7/29/2025
0 50 100 150 200 250 m
(At original document size of 11x 17) 1:5,000



Flood hazard mapping on Hunker Creek from flows in Hunker Creek are not included. Flood hazard mapping shown on Hunker Creek is solely from Klondike River flood backwater.

- Notes
1. Coordinate System: NAD 1983 CSRS UTM Zone 7N Vertical Datum: CGVD2013, Geoid: CGG2013a
 2. Data Sources: GeoYukon, Canada Lands Survey (CLS) CCM 982, CANVEC
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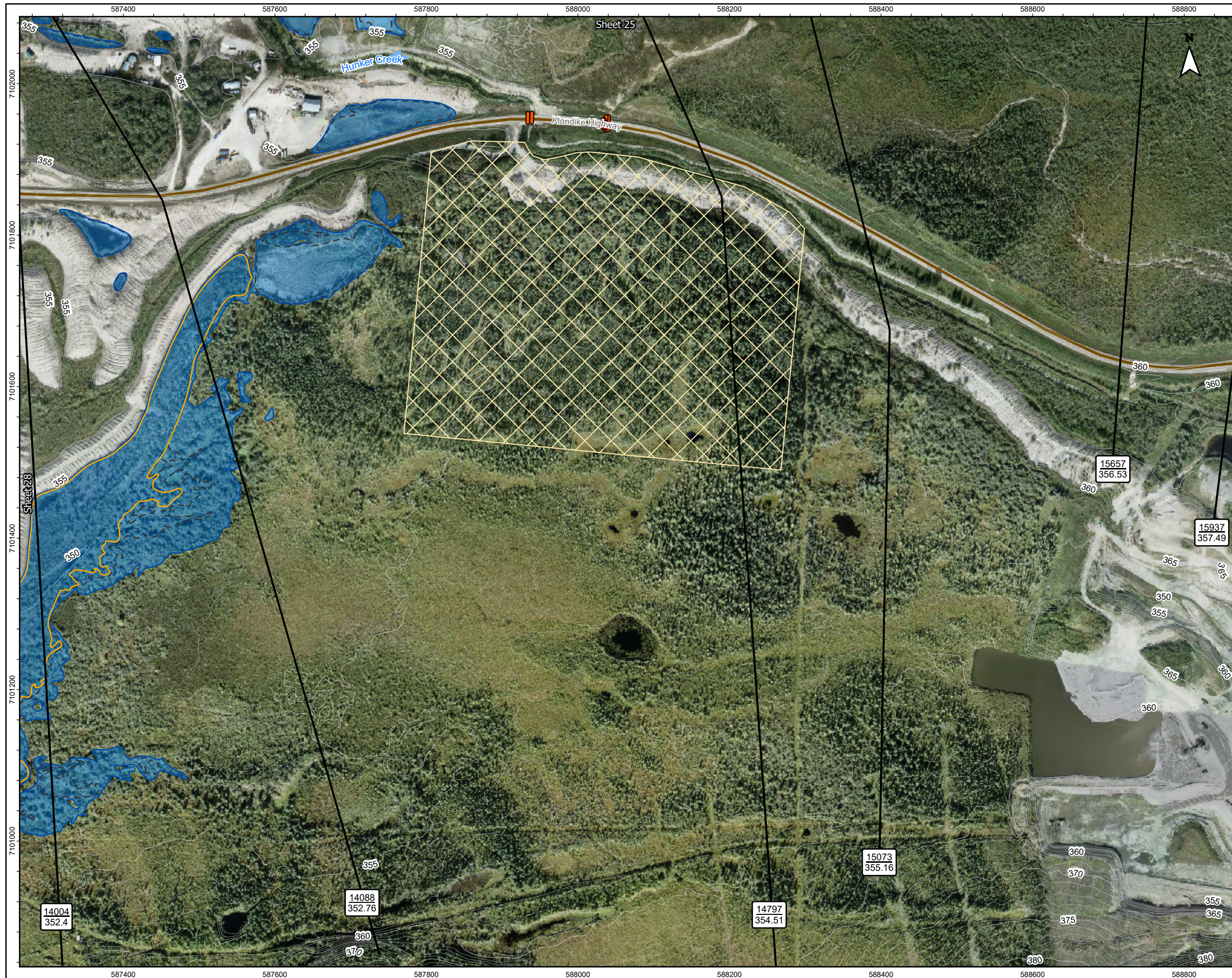


Figure No. **KR-5-26** Sheet 26 of 41

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

Client/Project:
Government of Yukon
Department of Environment
Water Resources Branch

Project: 123222713

Project Location: Dawson, Yukon

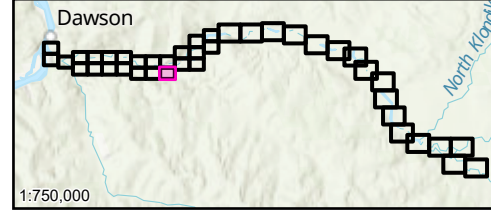
Prepared by MANDERSON on 2025-07-29
Requested by JMUIRHEAD on 2024-03-30
Review by JMUIRHEAD on 2025-07-29

- HPW Drainage Culverts
- Tr'ondëk Hwëch'in Settlement Land
- Inundation Under Modelled Open Water Runs
- Inundation Under Modelled Breakup Ice Jam Runs
- Surveyed Culvert Location
- Highway
- Major Contour (5m)
- Minor Contour (1m)
- Surveyed Cross-Sections Used in Hydraulic Model
- Approximate 50% AEP Open Water Flood Inundation
- Composite Open Water and Ice Jam Inundation Extent

Map Publication Date: 7/29/2025

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



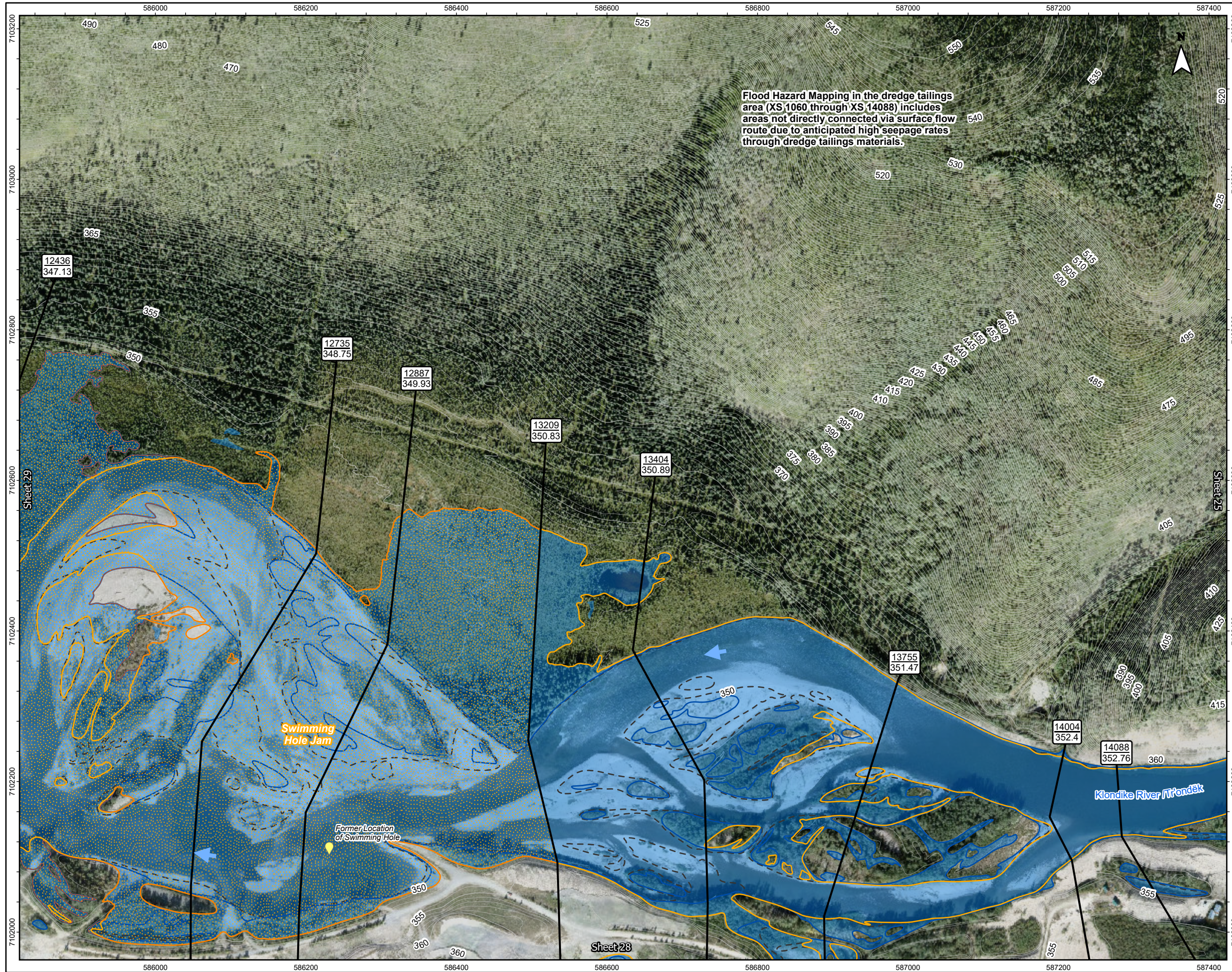
Notes

1. Coordinate System: NAD 1983 CSRS UTM Zone 7N Vertical Datum: CGVD2013, Geoid: CGG2013a
2. Data Sources: GeoYukon, Canada Lands Survey (CLS) CCM 982, CANVEC
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Title: Dawson City and Klondike Valley Flood Mapping Study
Composite Flood Hazard Map - Klondike River
5% Annual Exceedance Probability (AEP)

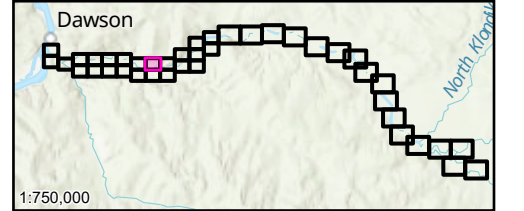
Client/Project:
Government of Yukon
Department of Environment
Water Resources Branch

Project: 123222713

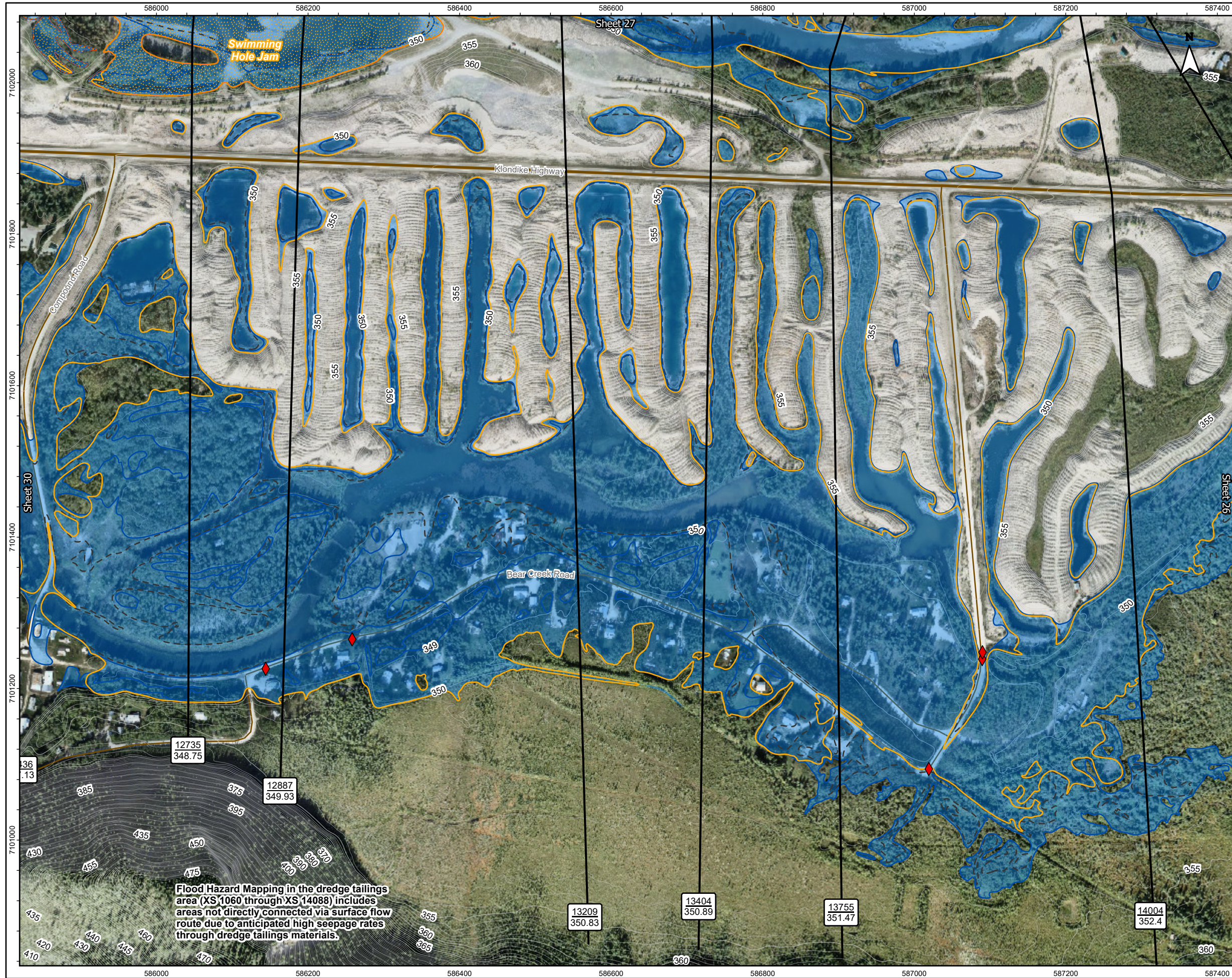
Project Location: Dawson, Yukon
Prepared by MANDERSON on 2025-07-29
Requested by JMUIRHEAD on 2024-03-30
Review by JMUIRHEAD on 2025-07-29

- Point of Interest
- Cross-Section Number WSE (m) Along Cross-Section
- Major Contour (5m)
- Minor Contour (1m)
- Surveyed Cross-Sections Used in Hydraulic Model
- 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 Extent
- Ice Coverage in Breakup Jam Scenarios

Map Publication Date: 7/29/2025
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(At original document size of 11x 17) 1:5,000



- Notes**
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Flood Hazard Mapping in the dredge tailings area (XS 1060 through XS 14088) includes areas not directly connected via surface flow route due to anticipated high seepage rates through dredge tailings materials.

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

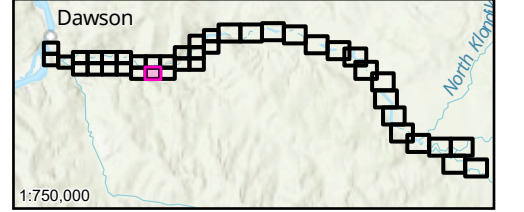
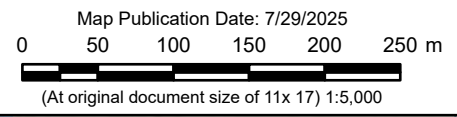
Client/Project:
Government of Yukon
Department of Environment
Water Resources Branch

Project: 123222713

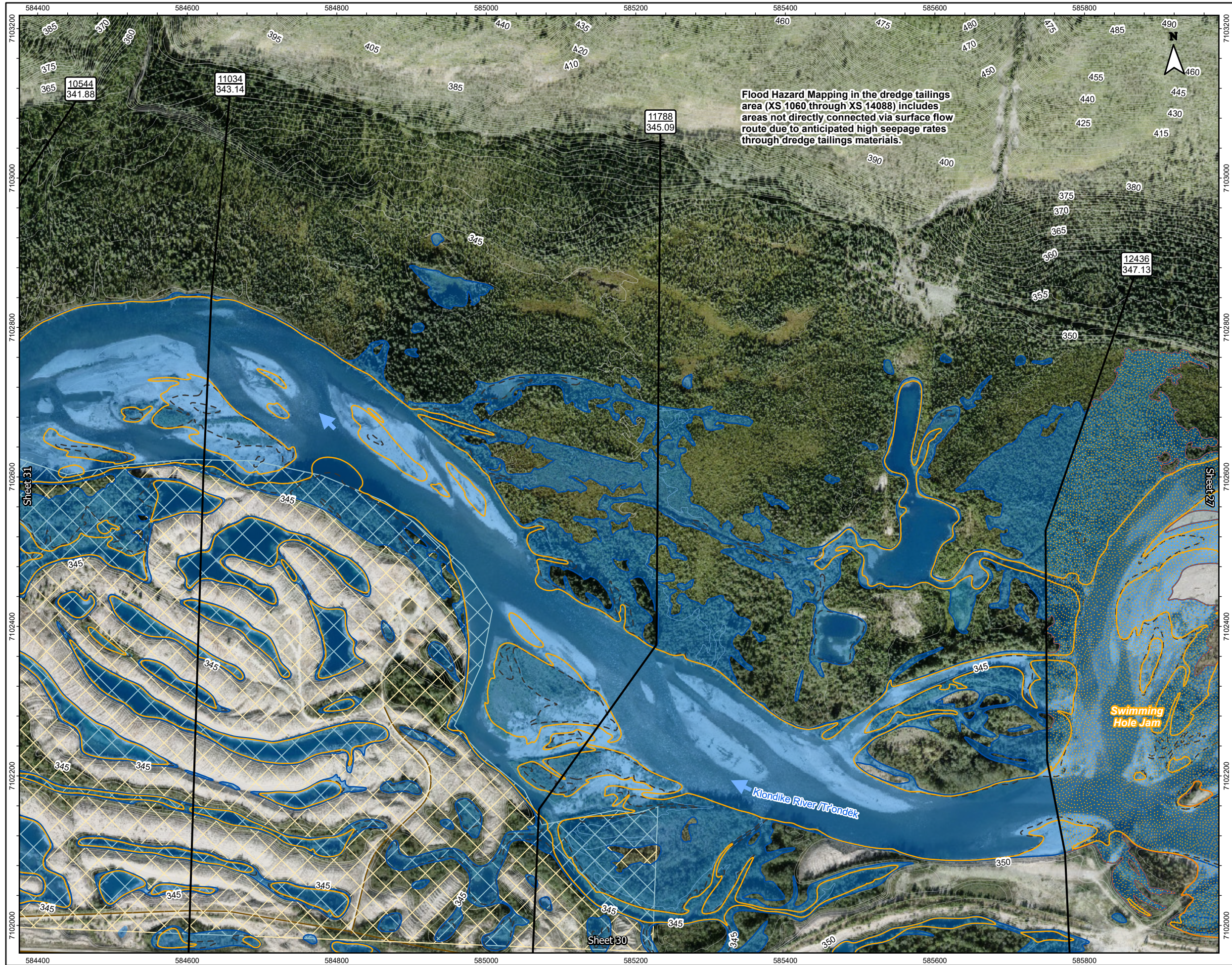
Project Location: Dawson, Yukon

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

- HPW Drainage Culverts
- Inundation Under Modelled Open Water Runs
- Inundation Under Modelled Breakup Ice Jam Runs
- Highway
- Local Road
- Major Contour (5m)
- Minor Contour (1m)
- Surveyed Cross-Sections Used in Hydraulic Model
- Approximate 50% AEP Open Water Flood Inundation
- Composite Open Water and Ice Jam Inundation Extent
- Ice Coverage in Breakup Jam Scenarios



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

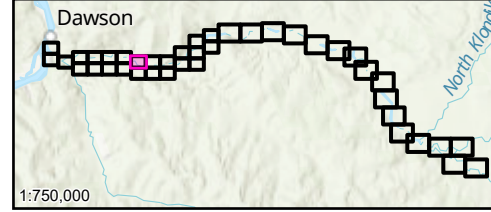
Client/Project:
Government of Yukon
Department of Environment
Water Resources Branch

Project: 123222713

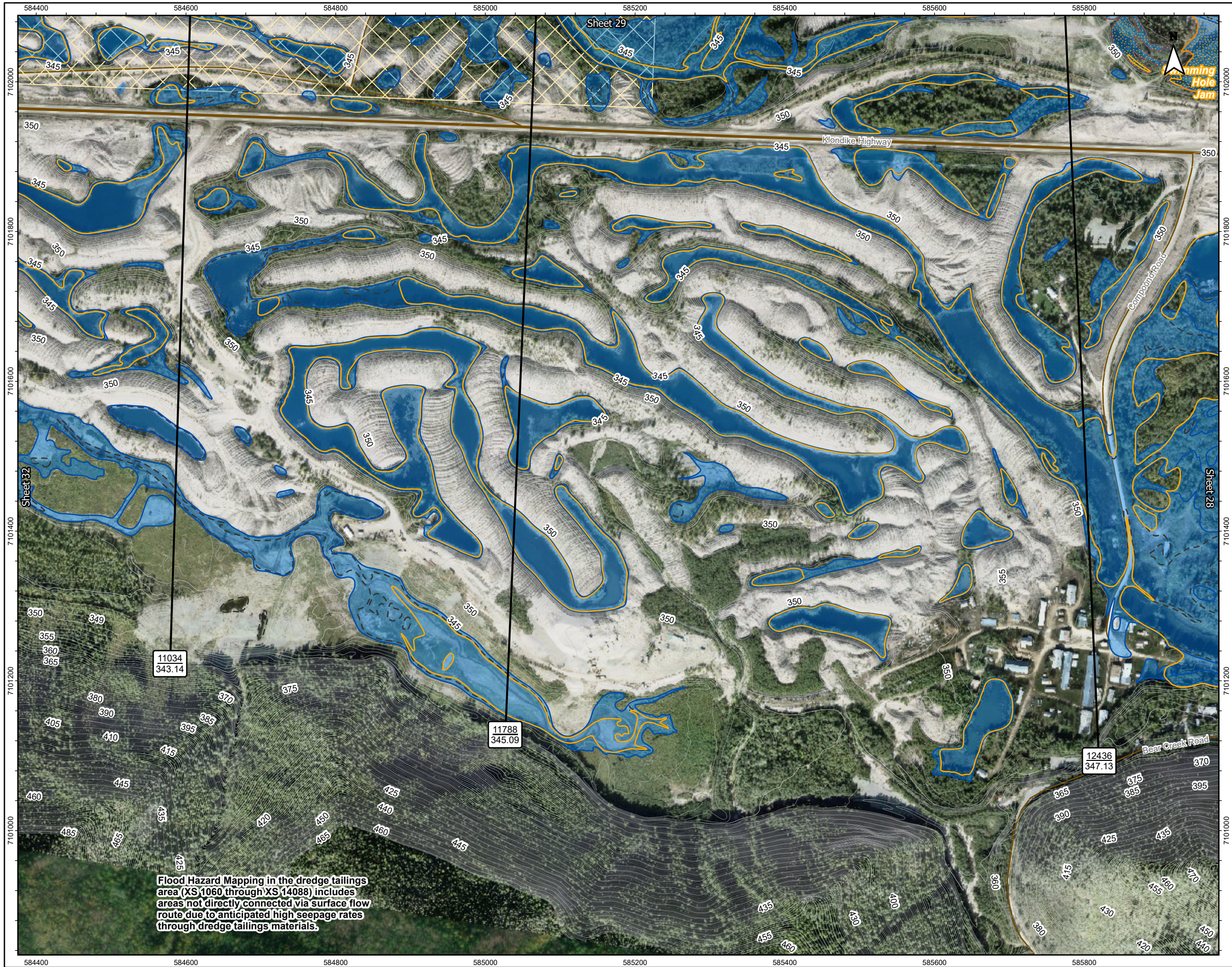
Project Location: Dawson, Yukon
Prepared by MANDERSON on 2025-07-29
Requested by JMUIRHEAD on 2024-03-30
Review by JMUIRHEAD on 2025-07-29

- Cross-Section Number WSE (m) Along Cross-Section
- Highway
- Local Road
- Major Contour (5m)
- Minor Contour (1m)
- Surveyed Cross-Sections Used in Hydraulic Model
- Trondék 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 Extent
- Ice Coverage in Breakup Jam Scenarios

Map Publication Date: 7/29/2025
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- Notes**
- Coordinate System: NAD 1983 CSRS UTM Zone 7N Vertical Datum: CGVD2013, Geoid: CGG2013a
 - Data Sources: GeoYukon, Canada Lands Survey (CLS) CCM 982, CANVEC
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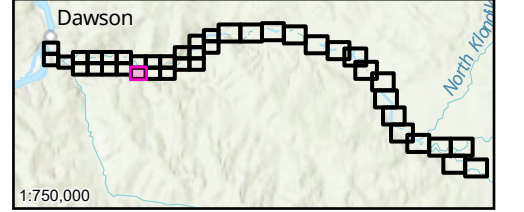
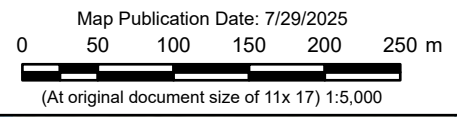
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**Title: Dawson City and Klondike Valley Flood Mapping Study
Composite Flood Hazard Map - Klondike River
5% Annual Exceedance Probability (AEP)**

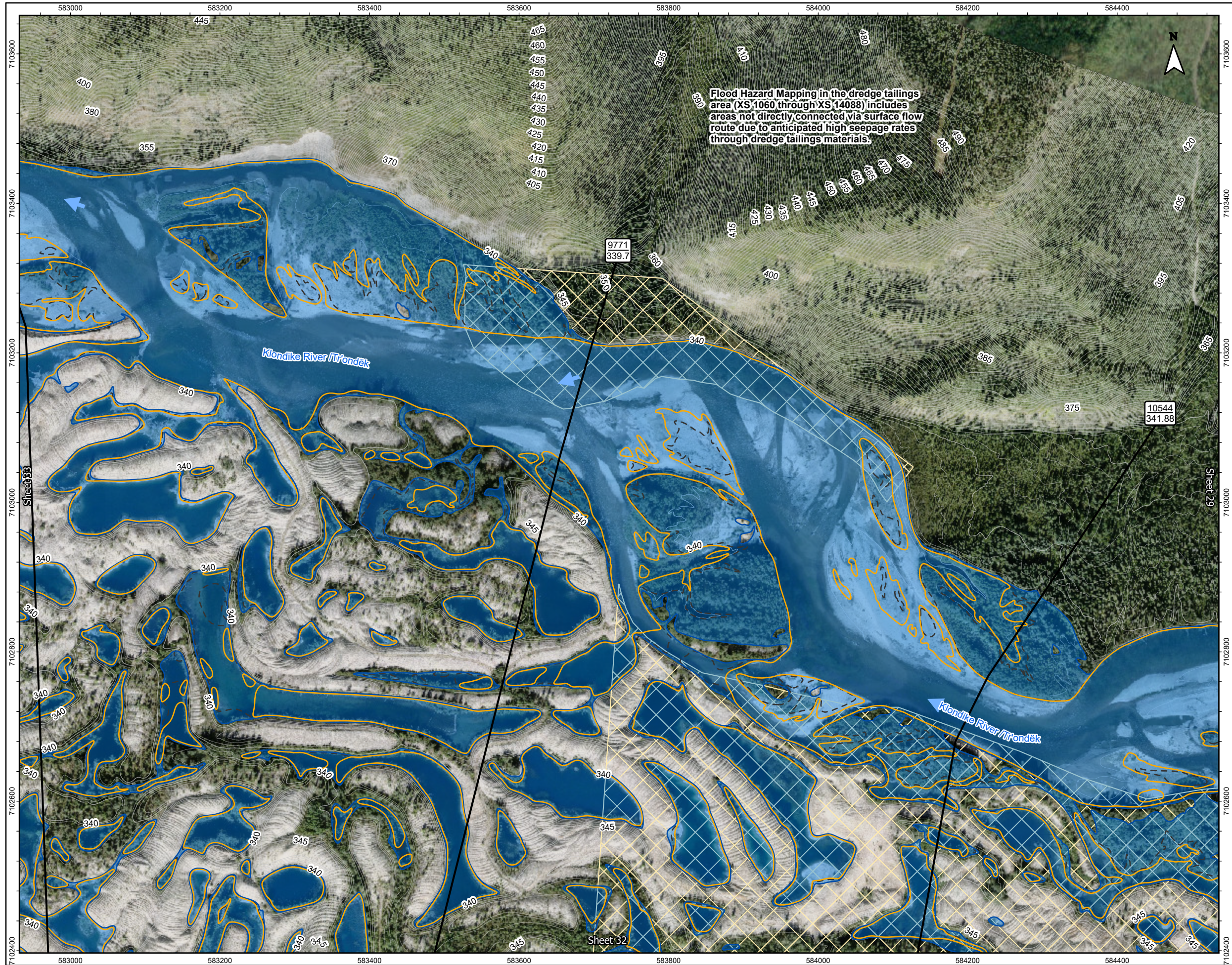
Client/Project:
Government of Yukon
Department of Environment
Water Resources Branch

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

- 57 Cross-Section Number WSE (m) Along Cross-Section
- 517.2
- Highway
- Local Road
- Major Contour (5m)
- Minor Contour (1m)
- Surveyed Cross-Sections Used in Hydraulic Model
- Trondék 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 Extent
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- Notes**
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Title: Dawson City and Klondike Valley Flood Mapping Study
Composite Flood Hazard Map - Klondike River
5% Annual Exceedance Probability (AEP)

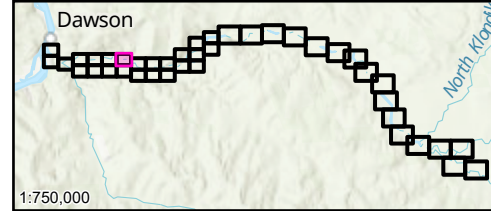
Client/Project:
Government of Yukon
Department of Environment
Water Resources Branch

Project: 123222713

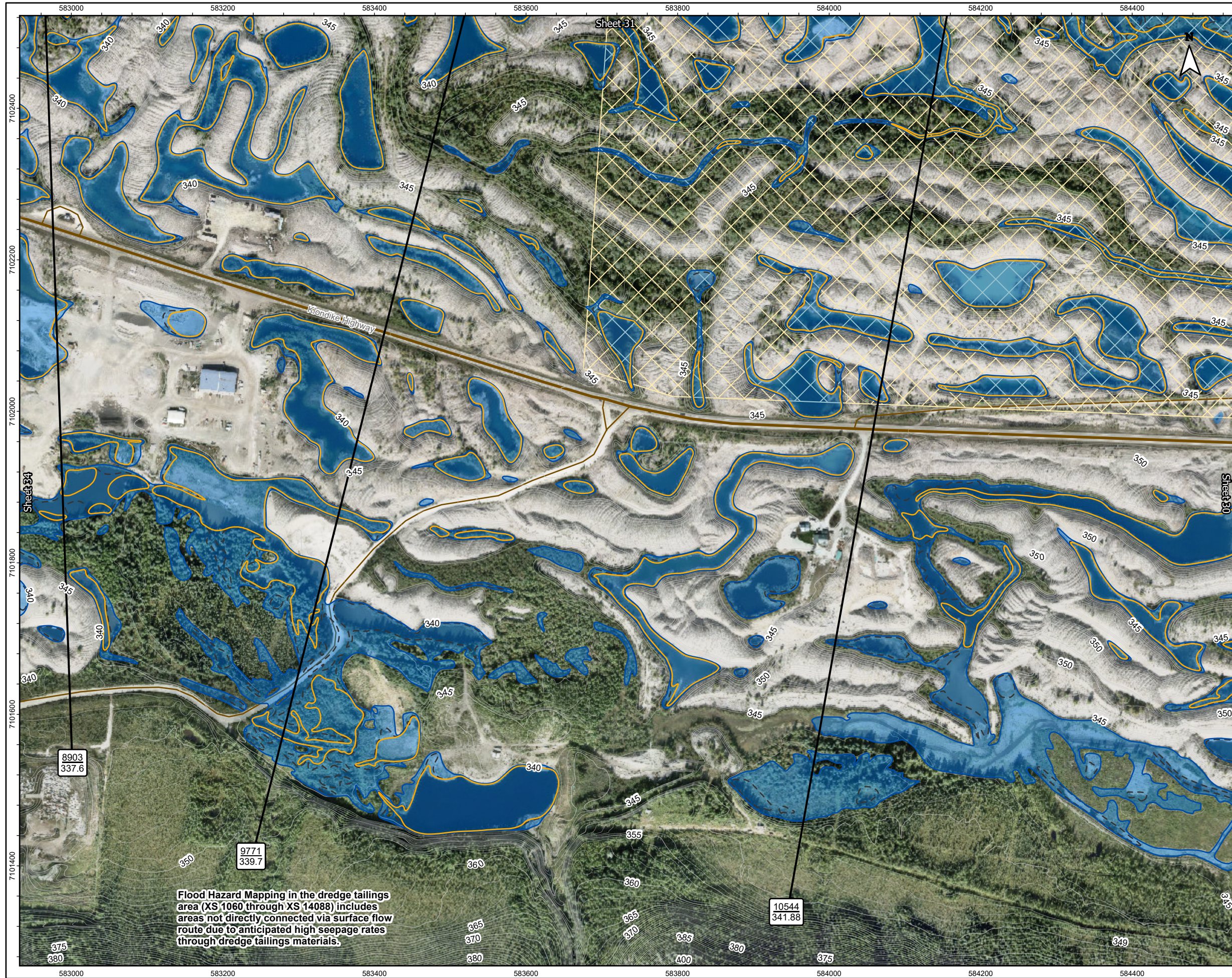
Project Location: Dawson, Yukon
Prepared by MANDERSON on 2025-07-29
Requested by JMUIRHEAD on 2024-03-30
Review by JMUIRHEAD on 2025-07-29

- 57 Cross-Section Number WSE (m) Along Cross-Section
- 517.2 (m) Along Cross-Section
- Major Contour (5m)
- Minor Contour (1m)
- Surveyed Cross-Sections Used in Hydraulic Model
- Tr'ondék 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 Extent

Map Publication Date: 7/29/2025
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(At original document size of 11x 17) 1:5,000



- Notes**
1. Coordinate System: NAD 1983 CSRS UTM Zone 7N 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 August, 2024 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 has been calibrated for higher AEP flood events and therefore should be considered approximate.
 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 (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.



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

Client/Project:
Government of Yukon
Department of Environment
Water Resources Branch

Project: 123222713

Project Location: Dawson, Yukon

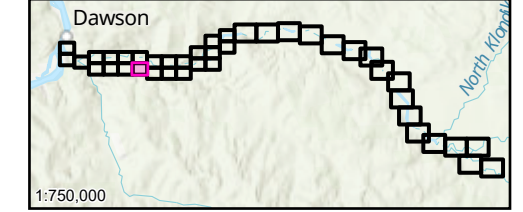
Prepared by MANDERSON on 2025-07-29
Requested by JMUIRHEAD on 2024-03-30
Review by JMUIRHEAD on 2025-07-29

- 57
517.2 Cross-Section Number WSE (m) Along Cross-Section
- Highway
- Local Road
- 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 Extent

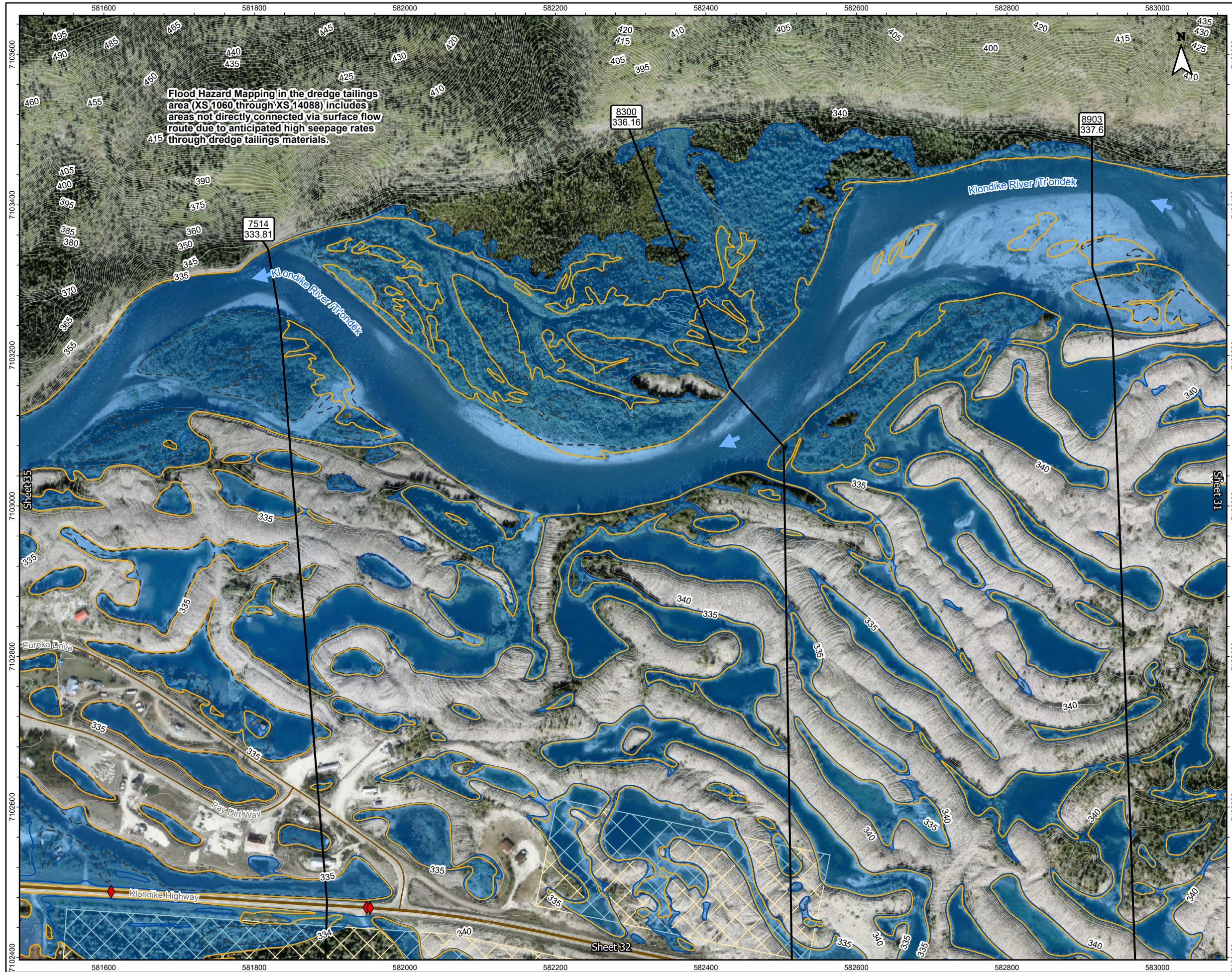
Map Publication Date: 7/29/2025

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



- Notes**
1. Coordinate System: NAD 1983 CSRS UTM Zone 7N Vertical Datum: CGVD2013, Geoid: CGG2013a
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Flood Hazard Mapping in the dredge tailings area (XS 1060 through XS 14088) includes areas not directly connected via surface flow route due to anticipated high seepage rates through dredge tailings materials.

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

Client/Project:
Government of Yukon
Department of Environment
Water Resources Branch

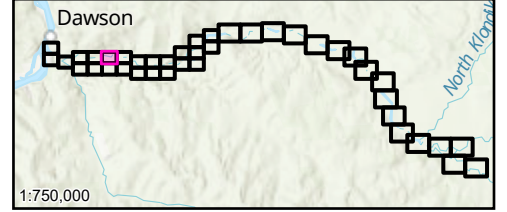
Project: 123222713

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

- HPW Drainage Culverts
- 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 Extent
- 57 Cross-Section Number WSE (m) Along Cross-Section
- Highway
- Local Road
- Major Contour (5m)
- Minor Contour (1m)
- Surveyed Cross-Sections Used in Hydraulic Model

Map Publication Date: 7/29/2025
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(At original document size of 11x 17) 1:5,000



- Notes**
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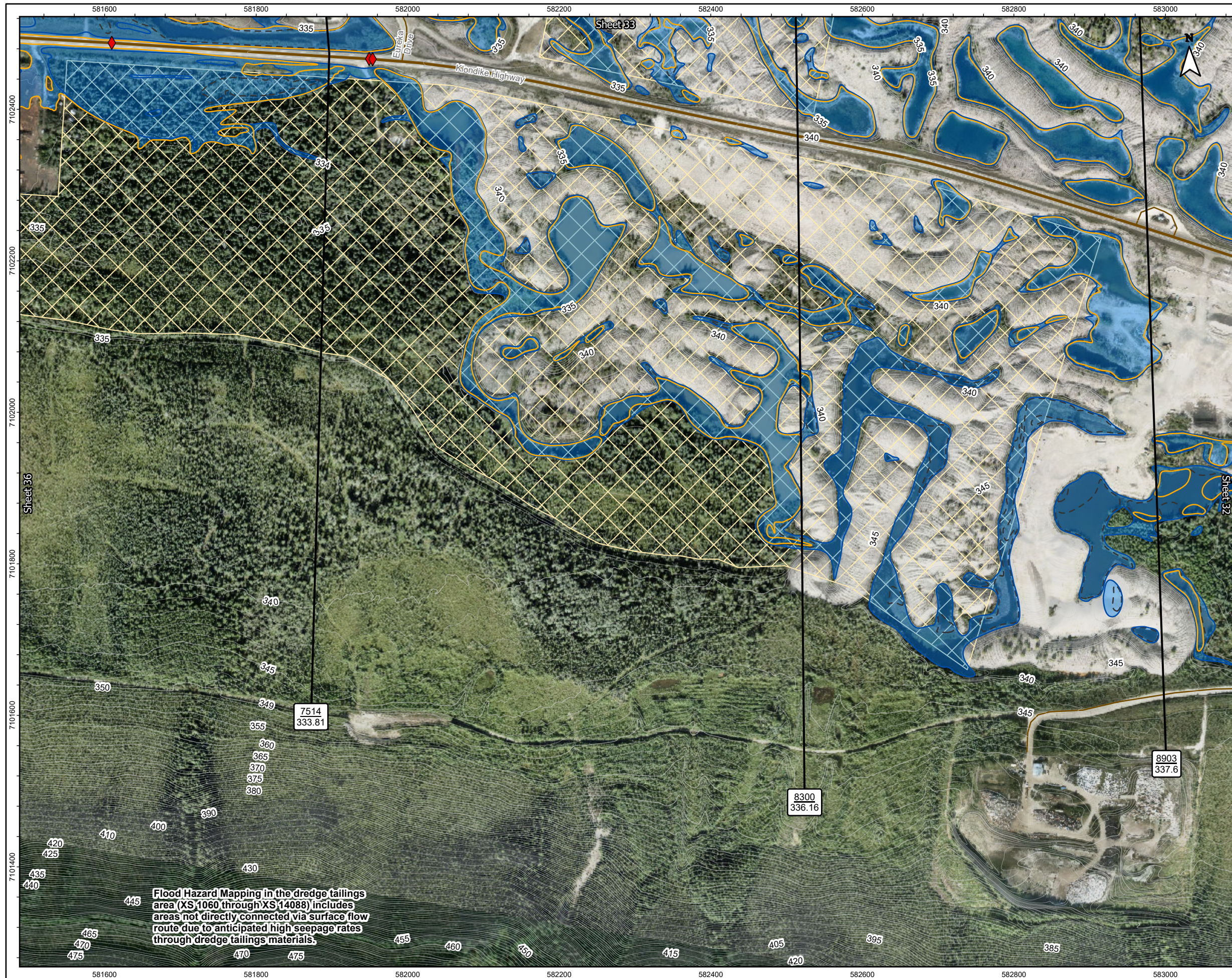


Figure No. **KR-5-34** Sheet 34 of 41

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

Client/Project:
 Government of Yukon
 Department of Environment
 Water Resources Branch

Project: 123222713

Project Location: Dawson, Yukon

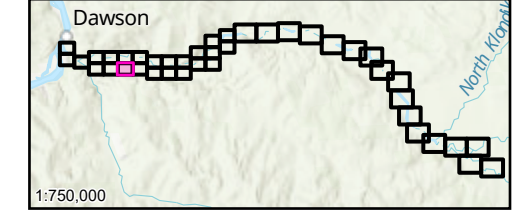
Prepared by MANDERSON on 2025-07-29
 Requested by JMUIRHEAD on 2024-03-30
 Review by JMUIRHEAD on 2025-07-29

- HPW Drainage Culverts
- Tr'ondëk Hwëch'in Settlement Land
- Inundation Under Modelled Open Water Runs
- Inundation Under Modelled Breakup Ice Jam Runs
- Highway
- Local Road
- Major Contour (5m)
- Minor Contour (1m)
- Surveyed Cross-Sections Used in Hydraulic Model
- Approximate 50% AEP Open Water Flood Inundation
- Composite Open Water and Ice Jam Inundation Extent

Map Publication Date: 7/29/2025

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



Flood Hazard Mapping in the dredge tailings area (XS 1060 through XS 14088) includes areas not directly connected via surface flow route due to anticipated high seepage rates through dredge tailings materials.

Notes

1. Coordinate System: NAD 1983 CSRS UTM Zone 7N Vertical Datum: CGVD2013, Geoid: CGG2013a
2. Data Sources: GeoYukon, Canada Lands Survey (CLS) CCM 982, CANVEC
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Flood Hazard Mapping in the dredge tailings area (XS 1060 through XS 14088) includes areas not directly connected via surface flow route due to anticipated high seepage rates through dredge tailings materials.

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

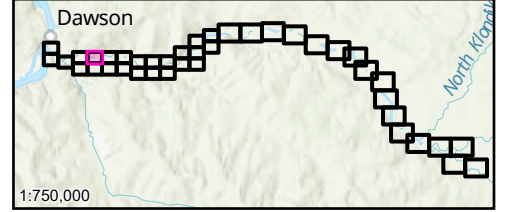
Client/Project:
Government of Yukon
Department of Environment
Water Resources Branch

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

- HPW Drainage Culverts
- 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 Extent
- Ice Coverage in Breakup Jam Scenarios
- Cross-Section Number WSE (m) Along Cross-Section
- Surveyed Culvert Location
- Highway
- Local Road
- Major Contour (5m)
- Minor Contour (1m)
- Surveyed Cross-Sections Used in Hydraulic Model

Map Publication Date: 7/29/2025
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(At original document size of 11x 17) 1:5,000



- Notes**
1. Coordinate System: NAD 1983 CSRS UTM Zone 7N Vertical Datum: CGVD2013, Geoid: CGG2013a
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Figure No. **KR-5-36** Sheet 36 of 41

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

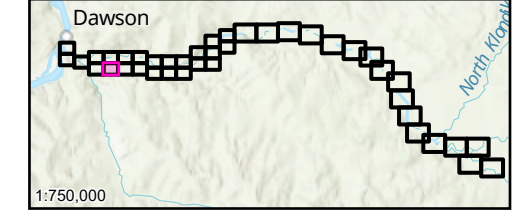
Client/Project:
Government of Yukon
Department of Environment
Water Resources Branch

Project: 123222713

Project Location: Dawson, Yukon

- HPW Drainage Culverts
- Surveyed Cross-Sections Used in Hydraulic Model
- Cross-Section Number WSE (m) Along Cross-Section
- Tr'ondëk Hwëch'in Settlement Land
- Surveyed Culvert Location
- Inundation Under Modelled Open Water Runs
- Highway
- Inundation Under Modelled Breakup Ice Jam Runs
- Local Road
- Approximate 50% AEP Open Water Flood Inundation
- Major Contour (5m)
- Composite Open Water and Ice Jam Inundation Extent
- Minor Contour (1m)

Map Publication Date: 7/29/2025
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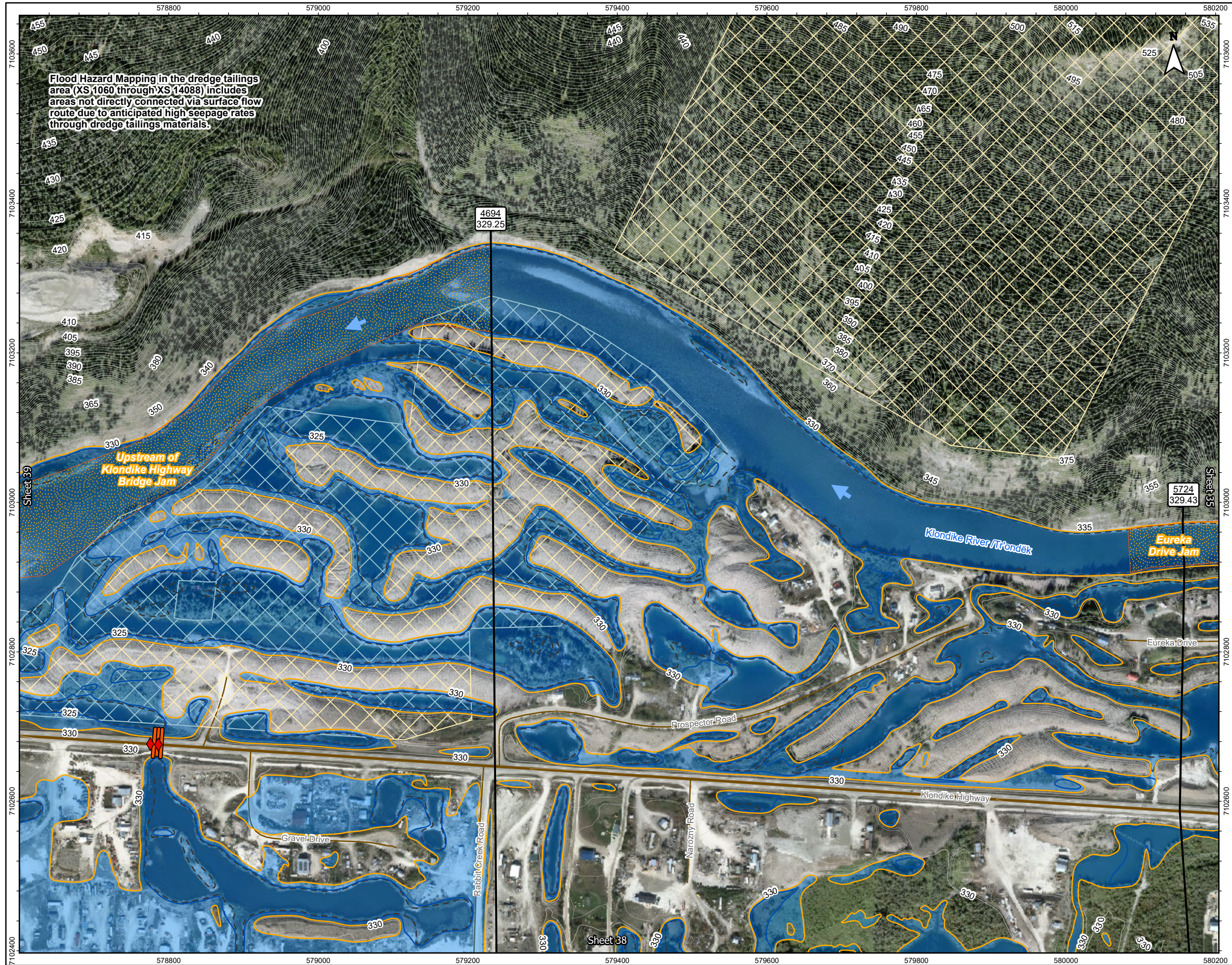


Notes
1. Coordinate System: NAD 1983 CSRS UTM Zone 7N Vertical Datum: CGVD2013, Geoid: CGG2013a
2. Data Sources: GeoYukon, Canada Lands Survey (CLS) CCM 982, CANVEC
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Title: Dawson City and Klondike Valley Flood Mapping Study
Composite Flood Hazard Map - Klondike River
5% Annual Exceedance Probability (AEP)

Client/Project:
Government of Yukon
Department of Environment
Water Resources Branch

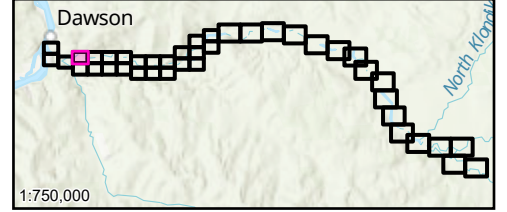
Project: 123222713

Project Location: Dawson, Yukon

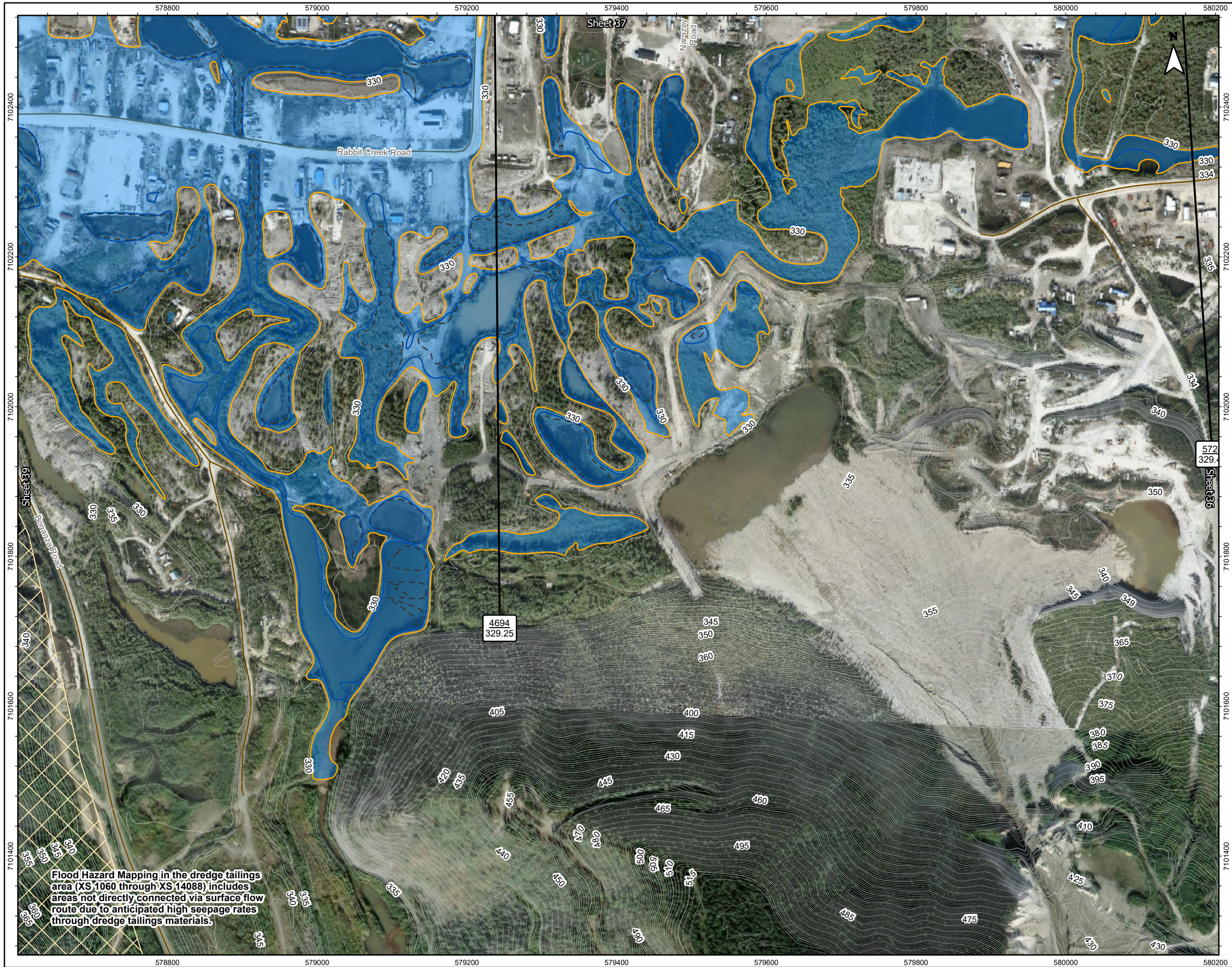
Prepared by MANDERSON on 2025-07-29
Requested by JMUIRHEAD on 2024-03-30
Review by JMUIRHEAD on 2025-07-29

- HPW Drainage Culverts
- Tr'ondëk Hwëch'in Settlement Land
- Inundation Under Modelled Open Water Runs
- Inundation Under Modelled Breakup Ice Jam Runs
- Surveyed Culvert Location
- Highway
- Local Road
- Major Contour (5m)
- Minor Contour (1m)
- Surveyed Cross-Sections Used in Hydraulic Model
- Approximate 50% AEP Open Water Flood Inundation
- Composite Open Water and Ice Jam Inundation Extent
- Ice Coverage in Breakup Jam Scenarios
- Cross-Section Number WSE (m) Along Cross-Section

Map Publication Date: 7/29/2025
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(At original document size of 11x 17) 1:5,000



- Notes**
1. Coordinate System: NAD 1983 CSRS UTM Zone 7N Vertical Datum: CGVD2013, Geoid: CGG2013a
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Title: Dawson City and Klondike Valley Flood Mapping Study
Composite Flood Hazard Map - Klondike River
5% Annual Exceedance Probability (AEP)

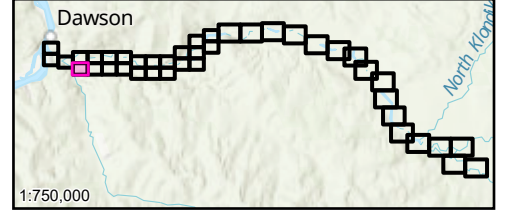
Client/Project:
Government of Yukon
Department of Environment
Water Resources Branch

Project: 123222713

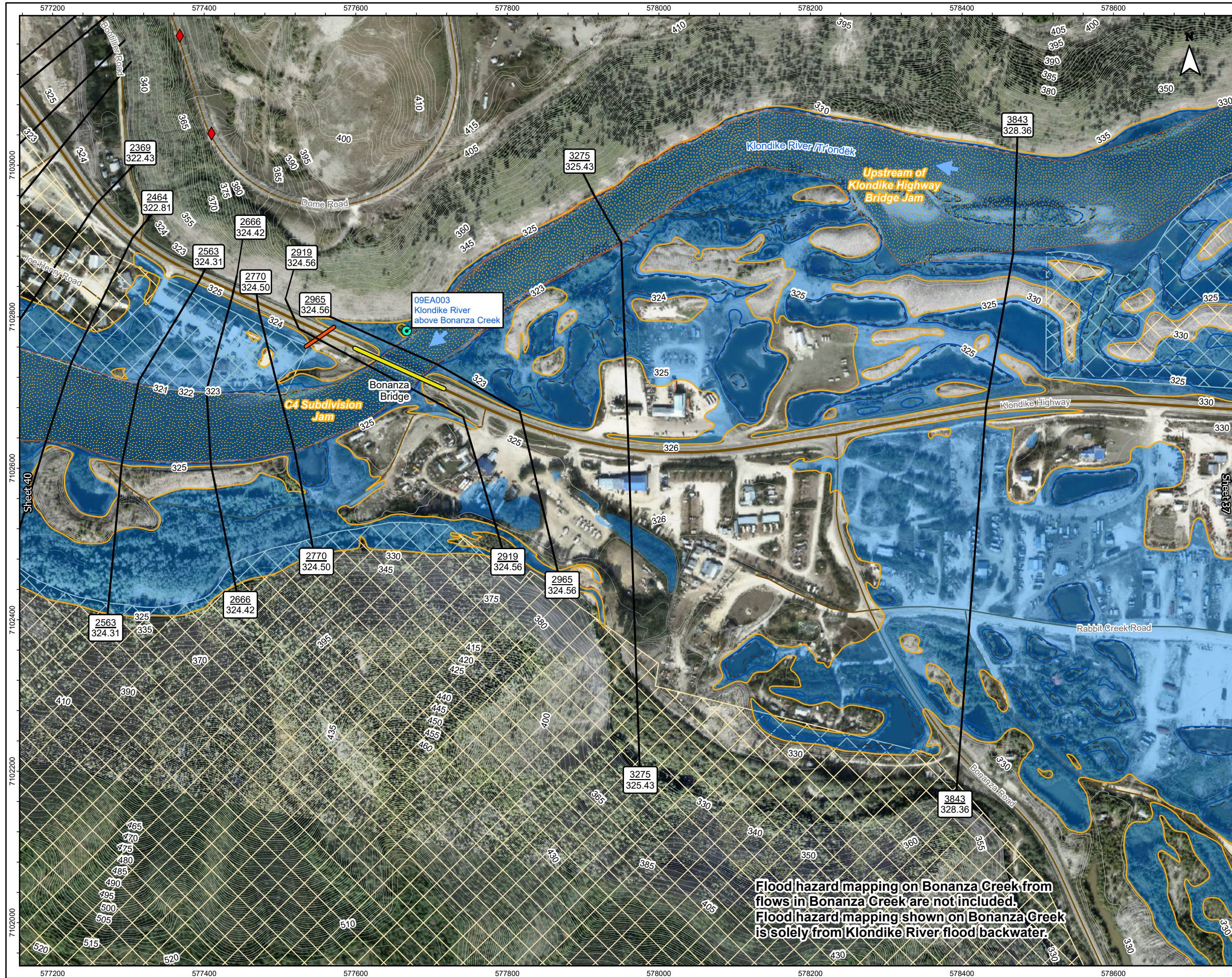
Project Location: Dawson, Yukon
Prepared by JMUIRHEAD on 2025-07-29
Requested by JMUIRHEAD on 2024-03-30
Review by JMUIRHEAD on 2025-07-29

- 57
517.2 Cross-Section Number WSE (m) Along Cross-Section
- Local Road
- 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 Extent

Map Publication Date: 7/29/2025
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(At original document size of 11x 17) 1:5,000



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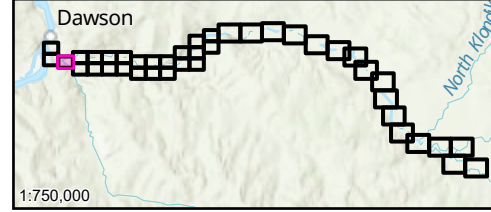
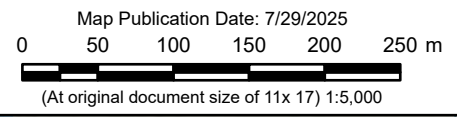
Title: Dawson City and Klondike Valley Flood Mapping Study
Composite Hazard Map - Klondike River
5% Annual Exceedance Probability (AEP)

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

- WSC Stations
- ◆ HPW Drainage Culverts
- 57
517.2 Cross-Section Number WSE (m) Along Cross-Section
- Surveyed Culvert Location
- Bridge
- Highway
- Local Road
- 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 Extent
- Ice Coverage in Breakup Jam Scenarios



Notes

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Flood hazard mapping on Bonanza Creek from flows in Bonanza Creek are not included. Flood hazard mapping shown on Bonanza Creek is solely from Klondike River flood backwater.



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

Client/Project:
Government of Yukon
Department of Environment
Water Resources Branch

Project: 123222713

Project Location: Dawson, Yukon

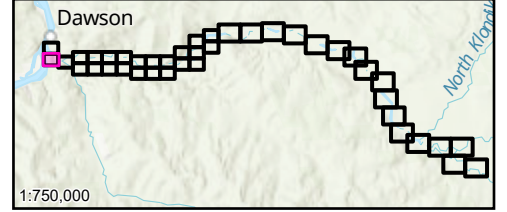
Prepared by MANDERSON on 2025-07-29
Requested by JMUIRHEAD on 2024-03-30
Review by JMUIRHEAD on 2025-07-29

- River Flow Direction
- Community Developments
- Point of Interest
- Ground Elevations of Interest
- Cross-Section Number WSE (m) Along Cross-Section
- Highway
- Local Road
- 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 Extent
- Ice Coverage in Breakup Jam Scenarios

Map Publication Date: 7/29/2025

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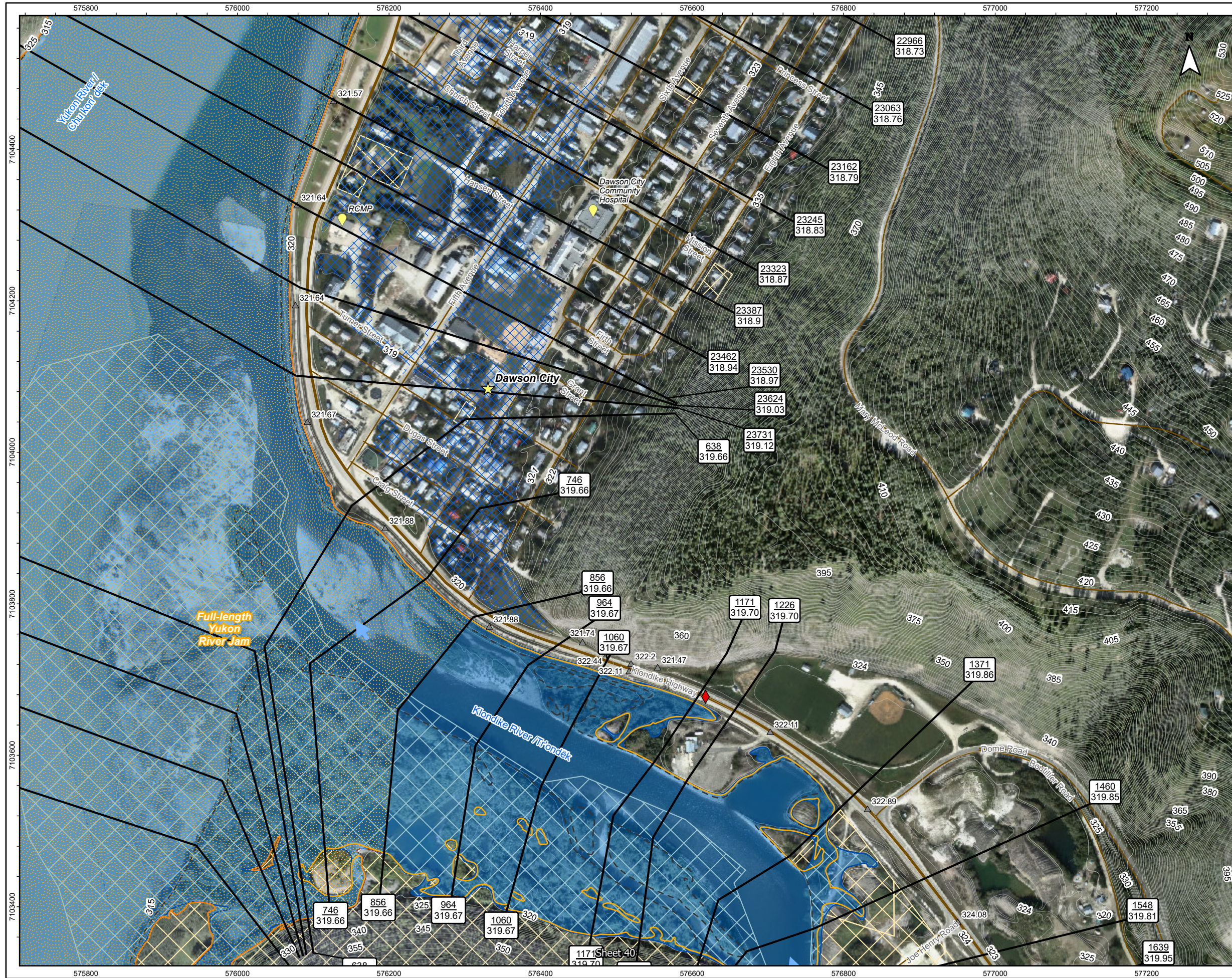
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- Notes**
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Title: Dawson City and Klondike Valley Flood Mapping Study
Composite Hazard Map - Klondike River
5% Annual Exceedance Probability (AEP)

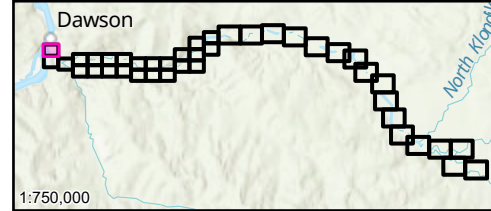
Client/Project:
Government of Yukon
Department of Environment
Water Resources Branch

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

- River Flow Direction
- Municipality
- Point of Interest
- Ground Elevations of Interest
- HPW Drainage Culverts
- Cross-Section Number WSE (m) Along Cross-Section
- Highway
- Local Road
- 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 Extent
- Area Protected by Dike
- Ice Coverage in Breakup Jam Scenarios

Map Publication Date: 7/29/2025
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(At original document size of 11x 17) 1:5,000



Notes
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