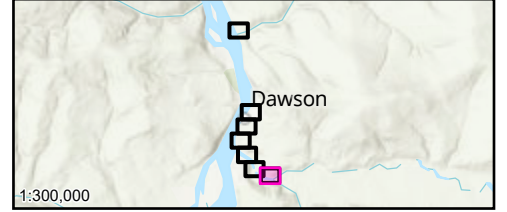


- WSC Stations
- Ground Elevations of Interest
- HPW Drainage Culverts
- Highway Kilometer Post
- Cross-Section Number
WSE (m) Along Cross-Section
- Surveyed Culvert Location
- Bridge
- Highway
- Local Road
- Major Contour (5m)
- Minor Contour (1m)
- Surveyed Cross-Sections
Used in Hydraulic Model
- Tr'ondék Hwëch'in
Settlement Land
- Approximate 50% AEP
Open Water Flood
Inundation
- Inundation Under
Modelled Open Water
Runs
- Inundation Under
Modelled Breakup Ice Jam
Runs
- Composite Open Water
and Ice Jam Inundation
Extent
- Inundation Extent From
Subsurface Seepage
- Potential Presence of Ice
Debris During Jam
Scenario
- Ice Jamming Extents

Map Publication Date: 03/06/2026
0 25 50 75 100 125 m
(At original document size of 11x 17) 1:2,500



- 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 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 has been calibrated for higher AEP flood events and therefore should be considered approximate.
 5. The content of these Composite Flood Hazard Maps is based on the methods, assumptions, limitations, and analysis documented in the Dawson City and Klondike Valley Flood Mapping Study produced for Yukon Government. Composite Hazard Maps are 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.

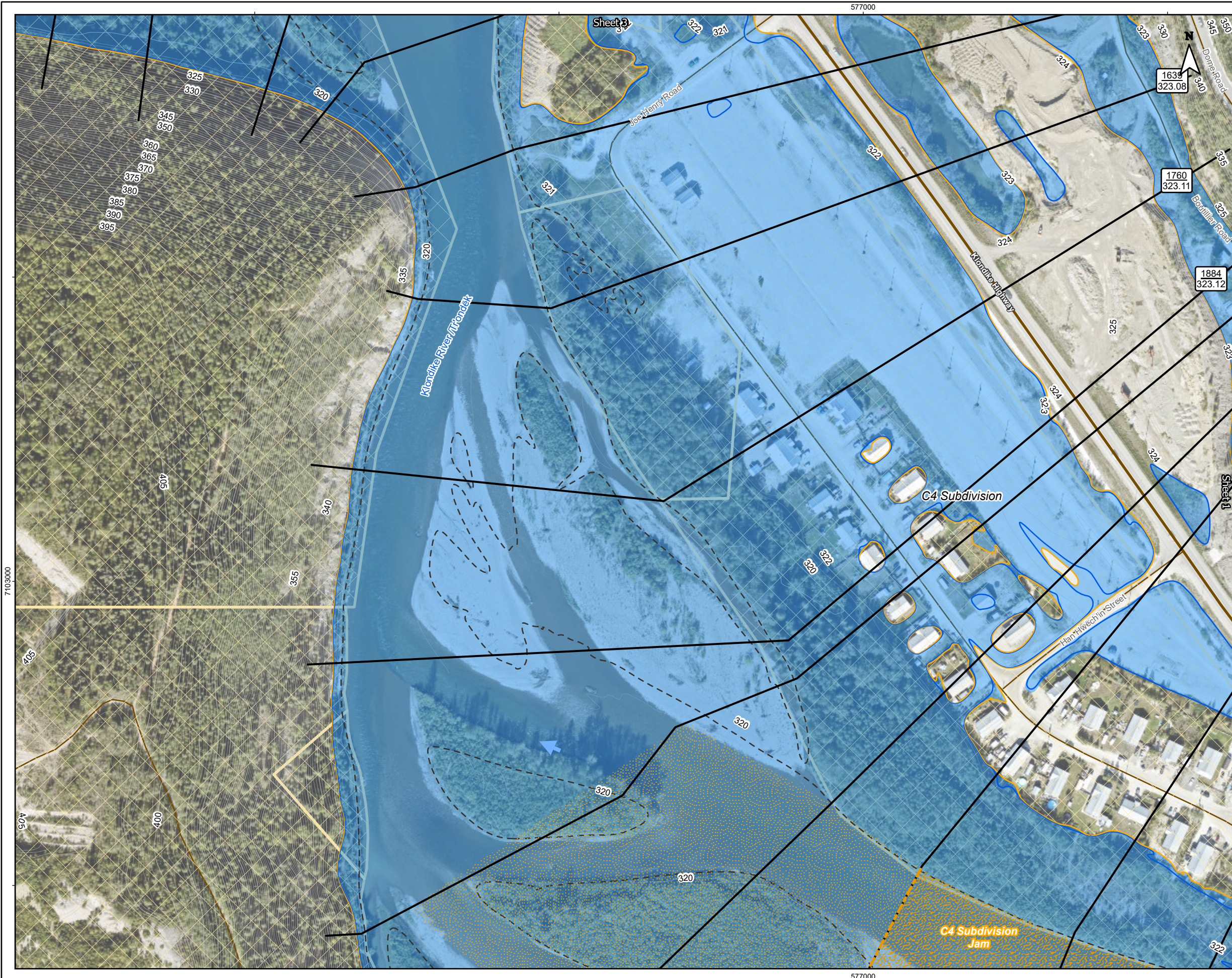


Figure No. **DC-0.5CC-02** Sheet 02 of 07

Title: **Dawson City and Klondike Valley Flood Mapping Study Composite Flood Hazard Map - Yukon River 0.5% Annual Exceedance Probability (AEP) with Factor of Safety for Climate Change**

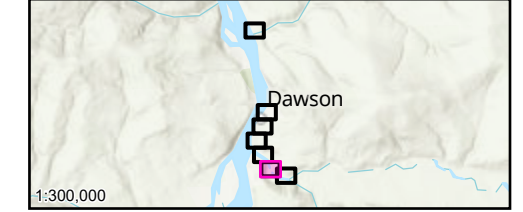
Client/Project:
 Government of Yukon
 Department of Environment
 Water Resources Branch

Project: 123222713

Project Location: Dawson, Yukon
 Prepared by MANDERSON on 2026-03-06
 Requested by JMUIRHEAD on 2024-03-30
 Review by JMUIRHEAD on 2026-03-06

- Ground Elevations of Interest
- Approximate 50% AEP Open Water Flood Inundation
- Highway Kilometer Post
- Inundation Under Modelled Open Water Runs
- Cross-Section Number WSE (m) Along Cross-Section
- Inundation Under Modelled Breakup Ice Jam Runs
- Highway
- Composite Open Water and Ice Jam Inundation Extent
- Local Road
- Inundation Extent From Subsurface Seepage
- Major Contour (5m)
- Potential Presence of Ice Debris During Jam Scenario
- Minor Contour (1m)
- Surveyed Cross-Sections Used in Hydraulic Model
- Toe of Ice Jam
- Ice Jamming Extents
- Tr'ondëk Hwëch'in Settlement Land

Map Publication Date: 03/06/2026
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 (At original document size of 11x 17) 1:2,500



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 July, 2019 and topographical and bathymetric data that was collected in June and September 2024.
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 5. The content of these Composite Flood Hazard Maps is based on the methods, assumptions, limitations, and analysis documented in the Dawson City and Klondike Valley Flood Mapping Study produced for Yukon Government. Composite Hazard Maps are 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.



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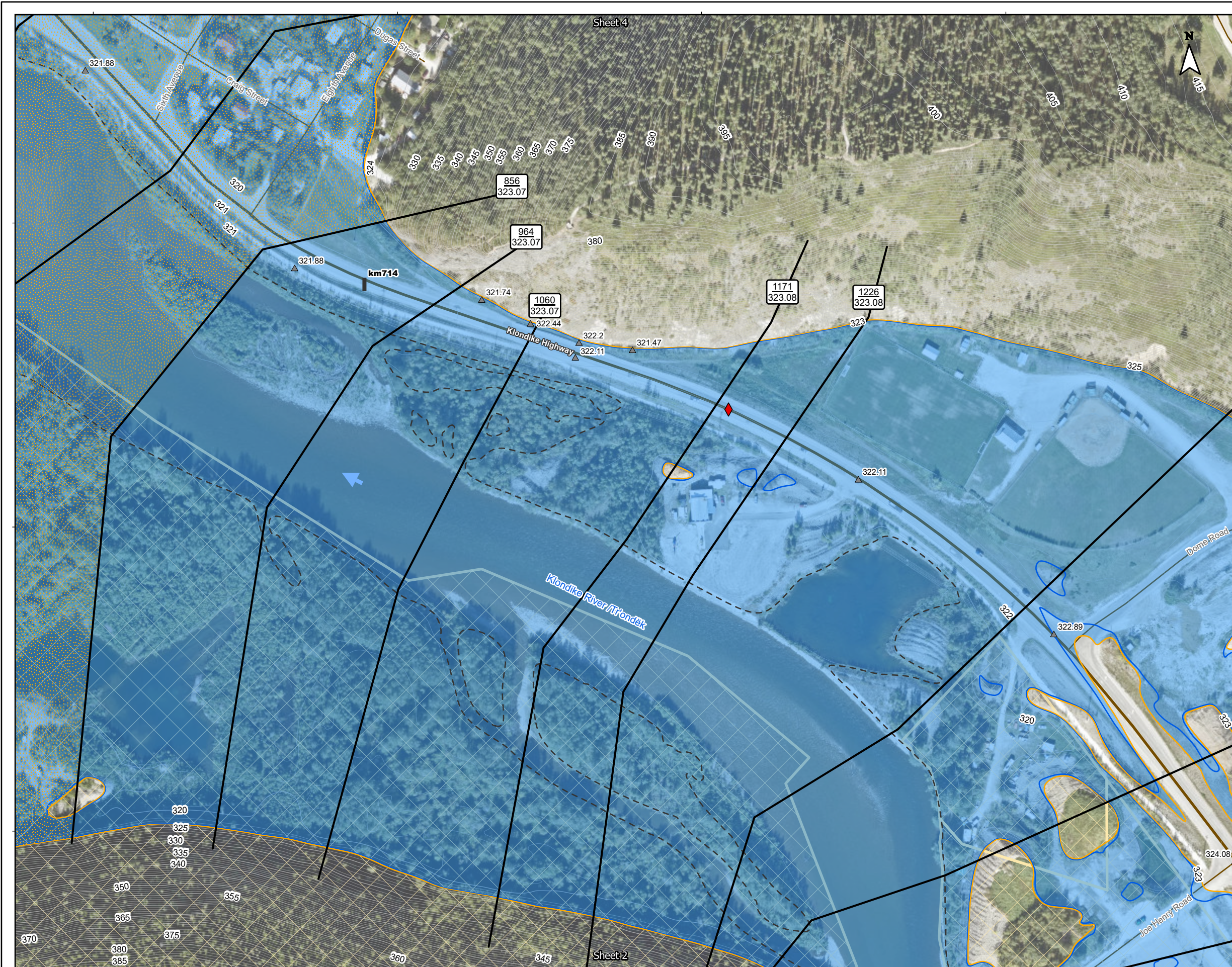


Figure No. **DC-0.5CC-03** Sheet 03 of 07

Title: **Dawson City and Klondike Valley Flood Mapping Study
Composite Flood Hazard Map - Yukon River
0.5% Annual Exceedance Probability (AEP) with Factor of Safety
for Climate Change**

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

Project: 123222713

Project Location: Dawson, Yukon

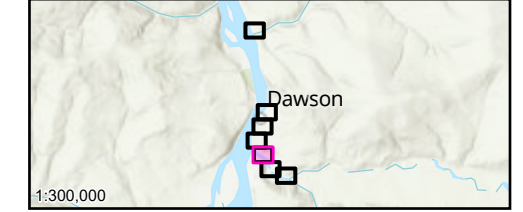
Prepared by MANDERSON on 2026-03-06
Requested by JMUIRHEAD on 2024-03-30
Review by JMUIRHEAD on 2026-03-06

- ▲ Ground Elevations of Interest
- ◆ HPW Drainage Culverts
- Highway Kilometer Post
- 57 Cross-Section Number
- 517.2 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
- - - Approximate 50% AEP Open Water Flood Inundation
- Inundation Under Modelled Open Water Runs
- Inundation Under Modelled Breakup Ice Jam Runs
- Composite Open Water and Ice Jam Inundation Extent
- Inundation Extent From Subsurface Seepage
- Potential Presence of Ice Debris During Jam Scenario
- Ice Jamming Extents

Map Publication Date: 03/06/2026

0 25 50 75 100 125 m

(At original document size of 11x 17) 1:2,500



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 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 has been calibrated for higher AEP flood events and therefore should be considered approximate.
5. The content of these Composite Flood Hazard Maps is based on the methods, assumptions, limitations, and analysis documented in the Dawson City and Klondike Valley Flood Mapping Study produced for Yukon Government. Composite Hazard Maps are 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.



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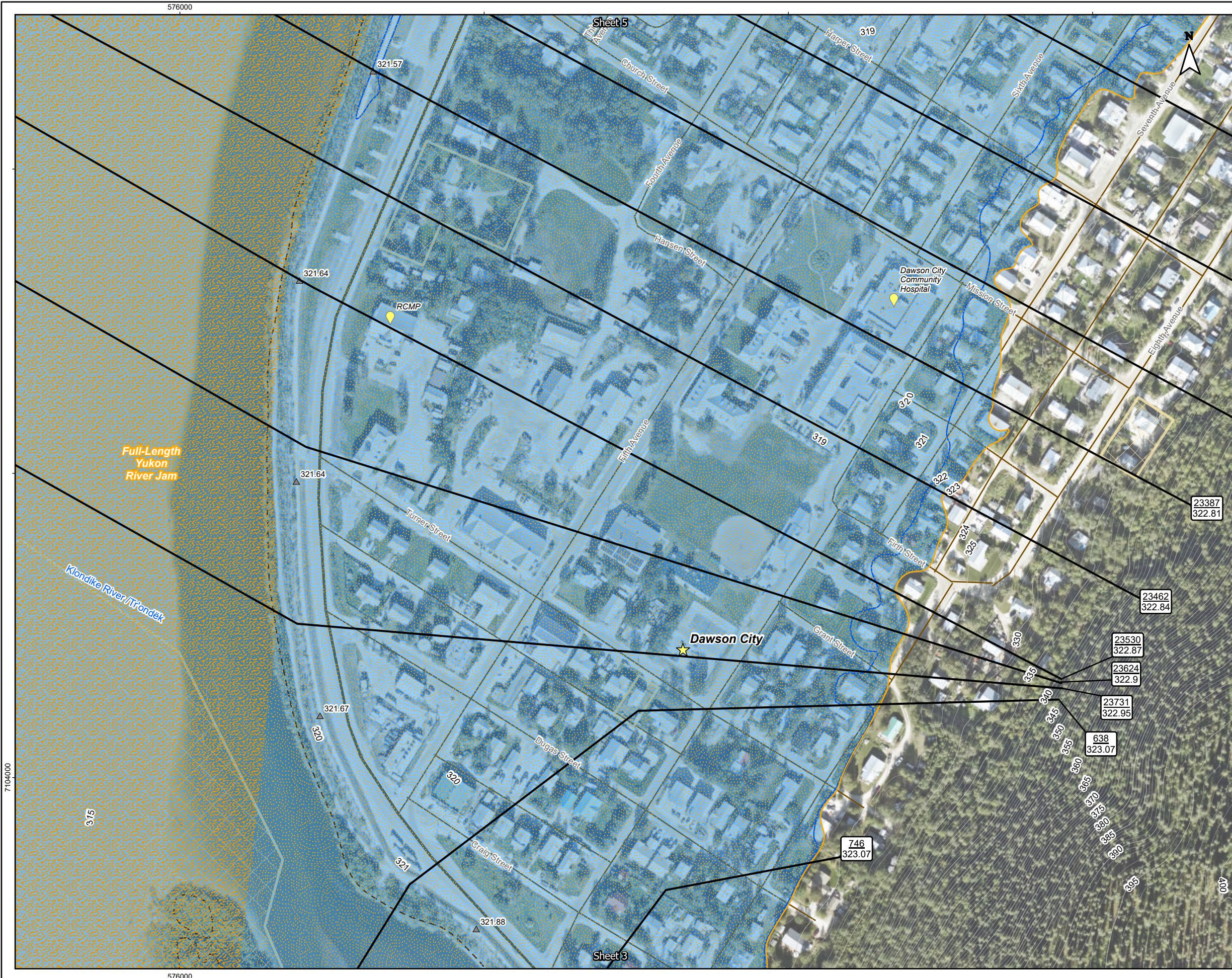


Figure No. **DC-0.5CC-04** Sheet 04 of 07

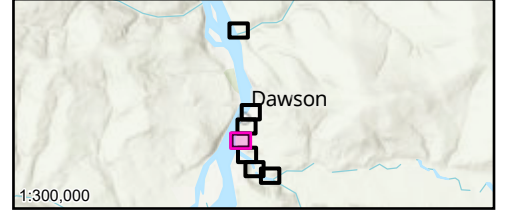
Title: **Dawson City and Klondike Valley Flood Mapping Study Composite Flood Hazard Map - Yukon River 0.5% Annual Exceedance Probability (AEP) with Factor of Safety for Climate Change**

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

Project: **123222713**

- ▲ Ground Elevations of Interest
- Highway Kilometer Post
- 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
- Approximate 50% AEP Open Water Flood Inundation
- Inundation Under Modelled Open Water Runs
- Inundation Under Modelled Breakup Ice Jam Runs
- Composite Open Water and Ice Jam Inundation Extent
- Inundation Extent From Subsurface Seepage
- Potential Presence of Ice Debris During Jam Scenario
- Ice Jamming Extents

Map Publication Date: 03/06/2026
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 (At original document size of 11x 17) 1:2,500



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 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 has been calibrated for higher AEP flood events and therefore should be considered approximate.
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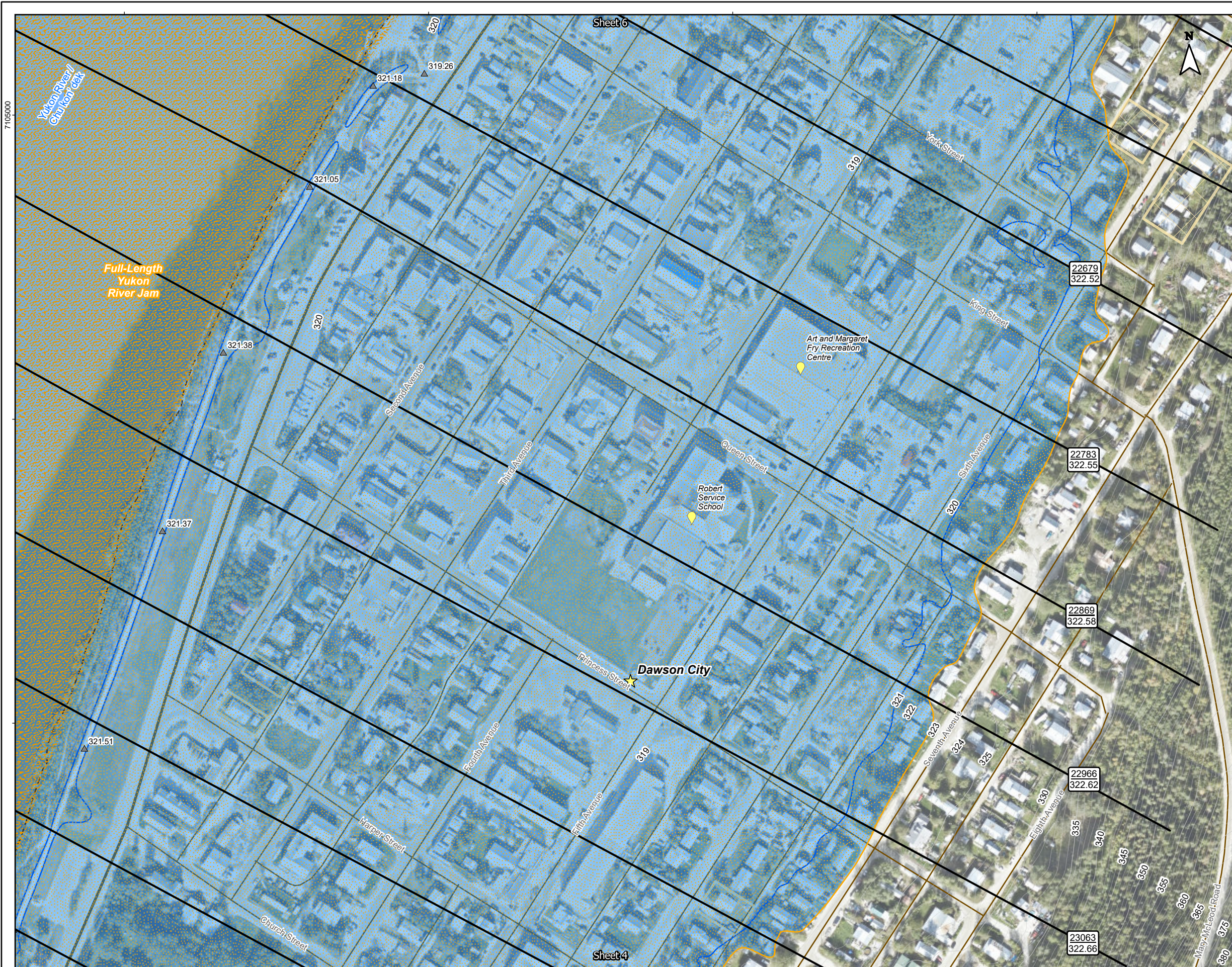


Figure No. **DC-0.5CC-05** Sheet 05 of 07

Title: **Dawson City and Klondike Valley Flood Mapping Study
Composite Flood Hazard Map - Yukon River
0.5% Annual Exceedance Probability (AEP) with Factor of Safety
for Climate Change**

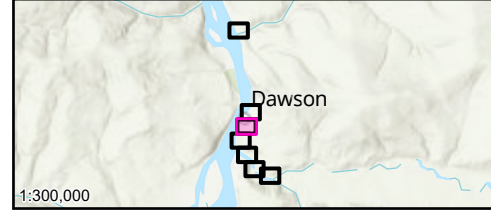
Client/Project:
**Government of Yukon
Department of Environment
Water Resources Branch**

Project: 123222713

Project Location: Dawson, Yukon
Prepared by MANDERSON on 2026-03-06
Requested by JMUIRHEAD on 2024-03-30
Review by JMUIRHEAD on 2026-03-06

- River Flow Direction
- Ground Elevations of Interest
- Highway Kilometer Post
- 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
- Approximate 50% AEP
Open Water Flood
Inundation
- Inundation Under
Modelled Open Water
Runs
- Inundation Under
Modelled Breakup Ice Jam
Runs
- Composite Open Water
and Ice Jam Inundation
Extent
- Inundation Extent From
Subsurface Seepage
- Potential Presence of Ice
Debris During Jam
Scenario
- Ice Jamming Extents

Map Publication Date: 03/06/2026
0 25 50 75 100 125 m
(At original document size of 11x 17) 1:2,500



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 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 has been calibrated for higher AEP flood events and therefore should be considered approximate.
 5. The content of these Composite Flood Hazard Maps is based on the methods, assumptions, limitations, and analysis documented in the Dawson City and Klondike Valley Flood Mapping Study produced for Yukon Government. Composite Hazard Maps are 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.

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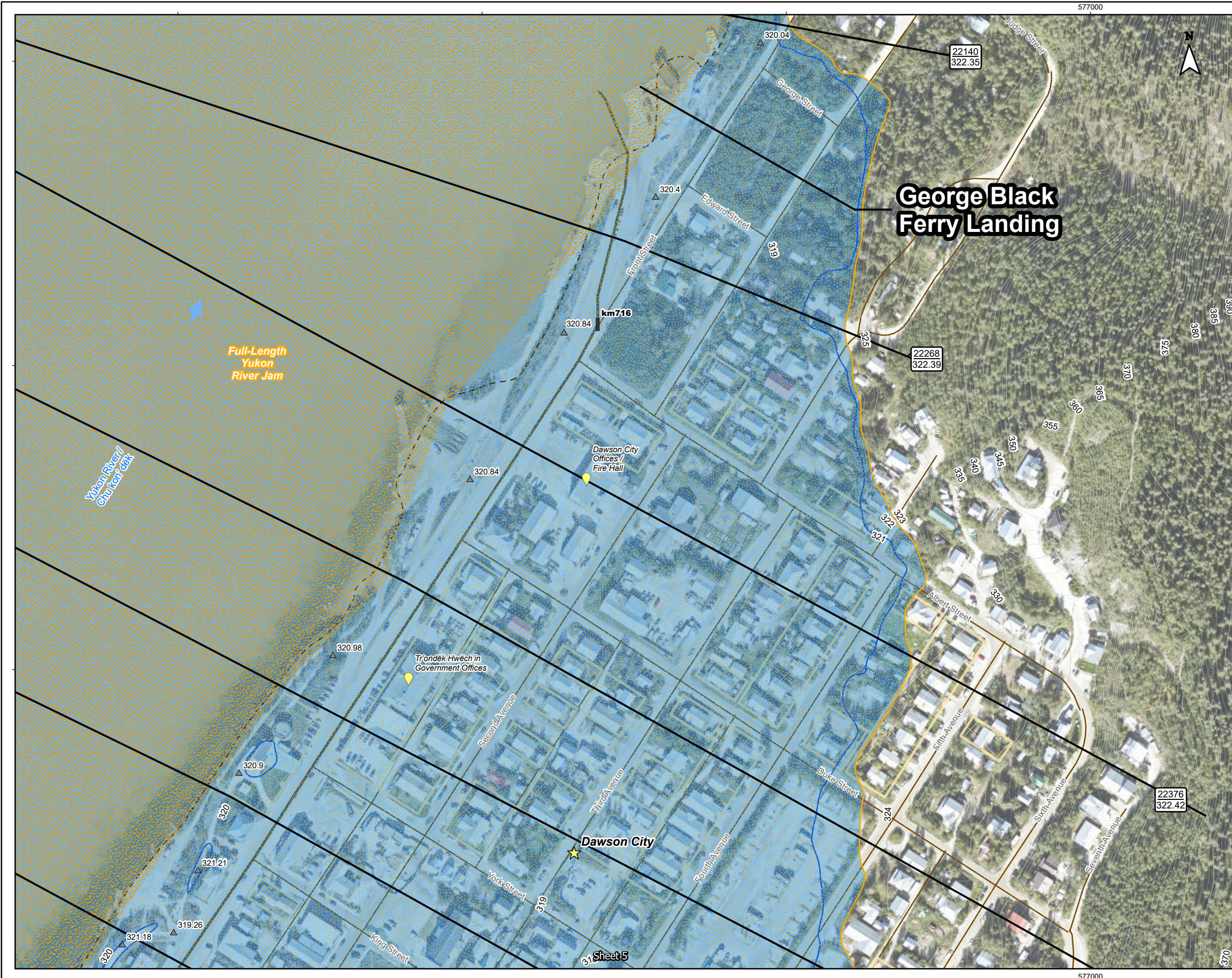


Figure No. **DC-0.5CC-06** Sheet 06 of 07

Title: **Dawson City and Klondike Valley Flood Mapping Study
Composite Flood Hazard Map - Yukon River
0.5% Annual Exceedance Probability (AEP) with Factor of Safety
for Climate Change**

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

Project: 123222713

Project Location: Dawson, Yukon

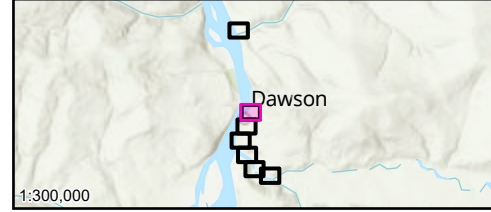
Prepared by MANDERSON on 2026-03-06
Requested by JMUIRHEAD on 2024-03-30
Review by JMUIRHEAD on 2026-03-06

- River Flow Direction
- Ground Elevations of Interest
- Highway Kilometer Post
- 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
- Approximate 50% AEP
Open Water Flood
Inundation
- Inundation Under
Modelled Open Water
Runs
- Inundation Under
Modelled Breakup Ice Jam
Runs
- Composite Open Water
and Ice Jam Inundation
Extent
- Inundation Extent From
Subsurface Seepage
- Potential Presence of Ice
Debris During Jam
Scenario
- Ice Jamming Extents

Map Publication Date: 03/06/2026

0 25 50 75 100 125 m

(At original document size of 11x 17) 1:2,500



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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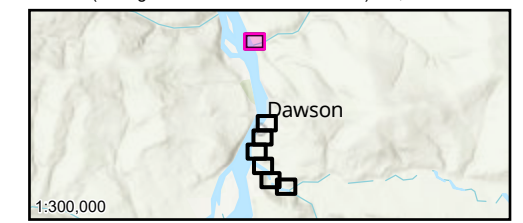
Figure No. **DC-0.5CC-07** Sheet 07 of 07
 Title: **Dawson City and Klondike Valley Flood Mapping Study Composite Flood Hazard Map - Yukon River 0.5% Annual Exceedance Probability (AEP) with Factor of Safety for Climate Change**

Client/Project:
 Government of Yukon
 Department of Environment
 Water Resources Branch
 Project: 123222713

Project Location: Dawson, Yukon
 Prepared by MANDERSON on 2026-03-06
 Requested by JMUIRHEAD on 2024-03-30
 Review by JMUIRHEAD on 2026-03-06

- River Flow Direction
- Ground Elevations of Interest
- Highway Kilometer Post
- 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
- Approximate 50% AEP Open Water Flood Inundation
- Inundation Under Modelled Open Water Runs
- Inundation Under Modelled Breakup Ice Jam Runs
- Composite Open Water and Ice Jam Inundation Extent
- Inundation Extent From Subsurface Seepage
- Potential Presence of Ice Debris During Jam Scenario
- Ice Jamming Extents

Map Publication Date: 03/06/2026
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 (At original document size of 11x 17) 1:2,500



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 July, 2019 and topographical and bathymetric data that was collected in June and September 2024.
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