Dawson City & Klondike Valley Flood Mapping Study – Final Report

April 2026

Prepared for:
Water Resources Branch, Department of Environment, Government of Yukon

Prepared by:
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Project Number:
123222713

Revision	Description	Author	Date	Quality Check	Date	Independent Review	Date
0	Draft Final Report for YG Review	S. Dilling, J. Muirhead	2025-11-10	A. Naghibi, N. Kimiaghalam, M. Wood	2025-11-13	S. Brown	2025-11-14
1	Final Report	S. Dilling, J. Muirhead	2026-03-06	A. Naghibi, N. Kimiaghalam, M. Wood	2026-03-03	S. Gilmour	2026-03-05
2	Final Report	S. Dilling, J. Muirhead	2026-04-16	A. Naghibi, N. Kimiaghalam	2026-04-17	M. Wood	2026-04-17

Limitations and Sign-off

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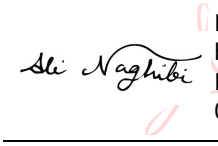

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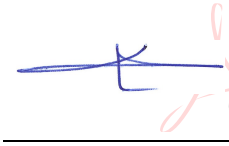

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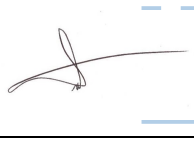

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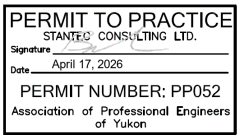

Contributions and Acknowledgements

Stantec would like to acknowledge the following individuals and companies who provided notable contributions to this Project:

- Underhill Geomatics Ltd
- Jasek Consulting
- Klondike H20
- Gúnta Business Consulting Ltd.

Stantec would also like to acknowledge the input and support received from the Government of Yukon, Natural Resources Canada, Environment and Climate Change Canada, and Hydrology Research Lab at Yukon University. The resources and efforts from these organizations and individuals at these organizations were instrumental for the completion of this Project.

Executive Summary

Stantec was retained by Yukon Government Water Resources Branch to perform the Dawson City & Klondike Valley Flood Mapping Study (the Project) following the Federal Flood Mapping Guideline Series (NRCan 2018a; NRCan 2018b; NRCan 2019a; NRCan 2019b; NRCan 2023). The Project was funded in part by Natural Resources Canada through the Flood Hazard Information and Mapping Program. The final outcome of the Project are flood hazard maps (as defined in NRCan 2018a) for the Yukon River (*Chu kon' dëk*) and the Klondike River (*Tr'ondëk*) valley within the Area of Interest (AOI). The AOI is located within the Traditional Territory of the Tr'ondëk Hwëch'in.

A hydrological assessment was completed to determine breakup and open water flood frequency estimates on the Klondike River and Yukon River. Freeze-up processes have not been documented to be a dominant flooding process on the Yukon River or Klondike River, but elevated water levels during the freeze-up period and/or mid-winter breakup jams have the potential to increase the probability of severe breakup jams the following spring. Flood frequency estimates for freeze-up conditions have not been produced for this Project. Individual datasets of the annual maximum instantaneous discharges during breakup and open water flooding conditions were prepared. Single station flood frequency analyses were conducted to estimate annual exceedance probabilities (AEPs) of 50%, 20%, 10%, 5%, 2%, 1%, 0.5%, and 0.2% for Water Survey of Canada (WSC) Station 09EA003 (Klondike River Above Bonanza) and 09EB001 (Yukon River at Dawson) during the breakup and open water periods (Table E1).

Table E1 Results of Hydrologic Assessment

AEP	Klondike River Above Bonanza Peak Instantaneous Discharge (m^3/s)		Yukon River At Dawson Peak Instantaneous Discharge (m^3/s)	
	Breakup	Open Water	Breakup	Open Water
50% AEP (1:2-year event)	146	412	3,000	7,110
20% AEP (1:5-year event)	227	534	3,970	8,890
10% AEP (1:10-year event)	276	616	4,610	10,000
5% AEP (1:20-year event)	320	696	5,200	11,100
2% AEP (1:50-year event)	369	801	5,970	12,500
1% AEP (1:100-year event)	403	882	6,550	13,600
0.5% AEP (1:200-year event)	433	964	7,120	14,700
0.2% AEP (1:500-year event)	470	1,080	7,890	16,100

Flat Creek is a tributary to the Klondike River and discharges into the Klondike River near the upstream end of the Area of Interest. In contrast to other tributaries to the Klondike River and Yukon River, hydrologic assessment and hydraulic modelling for Flat Creek has been included in this Project due to its larger relative size (compared to the other tributaries) and presence of a bridge on the Klondike Highway that crosses Flat Creek. Modelling of open water flooding on Flat Creek was included in this Project.

Flooding on the Klondike River can occur during open water flooding or from ice jamming. Ice jams have been documented at many locations along the Klondike River, but do not cause the highest water at all locations along Klondike River within the AOI. Eleven dominant breakup jam locations which have historically governed flooding were identified throughout the Klondike River within the Area of Interest and modelled in this Project. Open water flooding is driven by spring snowmelt and may be amplified by rainfall events if they occur during the freshet period in the catchment.

Flooding on the Yukon River can occur from open water or breakup ice jam conditions. Extreme flood events on the Yukon River are generally governed by breakup ice jam events although elevated open water flows may also cause flooding at less severe Annual Exceedance Probability events. Therefore, both breakup ice jam and open water flood processes were considered in the flood hazard maps. Two breakup ice jam runs on the Yukon River were modelled as part of this Project. Severe breakup jams on the Yukon River within the Area of Interest were understood to consist of ice runs producing a jam against an intact and resistant ice cover downstream of Fort Reliance in a dynamic breakup scenario. Peak open water flows on the Yukon River in the Area of Interest can happen between late May and late August; however, annual peak flows in June are typically the highest across each year. Open water peak flows are driven by the timing and magnitude of major tributary contributions, which (given their large catchments) are driven by snowpack accumulation and resulting snowmelt timing. Freeze-up jams have not historically been a driving flood process; however, elevated flows during freeze-up and colder than average winters may increase the probability of severe breakup ice jamming in the following spring.

As part of the hydrologic analysis, two different types of joint probability analyses were considered to represent the interdependence between potential flood processes for the flood maps, both in modelling and mapping approaches. The joint probability analysis determined reasonable scenarios for the application of potential coincident peaks on both rivers. For each design AEP scenario, a Klondike River primary run (consisting of the AEP flow for the Klondike River and an appropriate paired flow on the Yukon River) and a Yukon River primary run (consisting of the AEP flow for the Yukon River and an appropriate paired flow on the Klondike River) were completed. During the breakup period, the development of paired concurrent flow datasets was not possible for either river and the breakup AEP flow for both rivers was adopted for each of the primary model runs.

For open water peak flow conditions on the Klondike River (primary river), 58 paired concurrent peak open water flows on the Yukon River (paired river) were used in flood frequency analyses to estimate the corresponding AEP flows for use in the hydraulic model runs. Conversely, for open water peak flow conditions on the Yukon River (primary river), 59 paired concurrent peak open water flows on the Klondike River (paired river) were used for estimating the corresponding AEP flows.

The potential effect on climate change and land cover change on flood hydrology in the Klondike River valley and Yukon River at Dawson City watersheds was considered to determine appropriate Factors of Safety. The Klondike River flood hydrology is likely sensitive to changes to snowpack, rainfall, and temperatures (increases to these may increase flood flows), and the Yukon River flood hydrology is likely sensitive to snowpack and temperatures (increases to these may increase flood flows). The adopted climate change/land cover change factors of safety for this Project were 1.4 (+40%) for the Klondike River watershed (including Flat Creek) and 1.3 (+30%) for the Yukon River. These factors of safety were

applied to the 0.5% AEP flows to produce an additional set of model runs and corresponding set of flood hazard maps.

A fluvial erosion hazard assessment indicated that the Klondike River is a highly dynamic system characterized by frequent change to the channel size, shape, sinuosity, and position within the valley. Observations of aerial imagery indicate that the Klondike River is prone to avulsion, bank erosion, bar and island evolution, meander cutoff and migration. Observations of aerial imagery on the Yukon River suggest the channel is relatively stable within the project area The Yukon River is largely confined by very narrow walls within the AOI, which limit the ability of the river to meander and avulse in the same manner as the Klondike River. Given the documented erosion, channel migration, and avulsion risks on the Klondike River, detailed fluvial hazard studies delineating migration corridors are recommended.

A one-dimensional (1D) HEC-RAS model was developed to perform the hydraulic analysis for the Area of Interest. A single integrated hydraulic model was used to simultaneously simulate hydraulic calculations in the Klondike River and the Yukon River. To support the development of the hydraulic model, a total of 6 cross-sections on Flat Creek, 297 cross-sections on the Klondike River and 81 cross-sections of the Yukon River were modelled.

For calibration of the Klondike River open water model, the May 24, 2023 flood event was used. For calibration of the Yukon River open water model, the June 8, 2022 flood event was used. Both open water models were validated using applicable Water Survey of Canada rating curves and longitudinal profile data collected in June 2024. Klondike River breakup ice jam modelling was calibrated and validated using data from the May 8 – 12, 2023 ice jam events at Rock Creek, Henderson's Croner and the TH Farm. The Yukon River ice cover calibration used an ice thickness of 1.25 metres (m) based on detailed measurements collected in 1986 (Gerard et al. (1992), and ice jam calibration was completed using documentation from the May 1998 ice jam, and validated using jam configuration details from the 1979 jam.

The results of the design AEP model runs were overlain to create a composite flood hazard inundation and Water Surface Elevation surface for that design AEP. The resulting composite design AEP inundations were considered representative of the overall flood hazard extent for the AEP. The separate model runs of flood processes and subsequent data overlay means that the entirety of the composite design AEP inundation is unlikely to occur in a single event.

Flood hazard maps developed for this project should be reviewed and potentially updated as new information, processes, flood events, or industry standards are observed.

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List of Appendices

Appendix A Photographic Inventory

Appendix B Hydrology Data and Analysis

Appendix C Fluvial Erosion Hazard Assessment

Appendix D Detailed Site Survey

Appendix E Electronic Submissions

Appendix F Hydraulic Modelling

Appendix G Flood Hazard Maps

Acronyms / Abbreviations

ADCP	Acoustic Doppler Current Profiler
ADD	Accumulated Degree Days
AEP	Annual Exceedance Probability
CGVD28	Canadian Geodetic Vertical Datum 1928
CGVD2013	Canadian Geodetic Vertical Datum 2013
CIRNAC	Crown-Indigenous Relations and Northern Affairs Canada
CMIP	Coupled Model Intercomparison Project
CSRS	Canadian Spatial Referencing System
CQL	Canadian Quality Level
DTM	Digital Terrain Model
EGBC	Engineers and Geoscientists British Columbia
ECCC	Environment and Climate Change Canada
FFA	Flood Frequency Analysis
GCM	General Circulation Model
GHG	Greenhouse Gas
GNSS	Global Navigation Satellite System
GOC	Government of Canada
GPS	Global Positioning System
HWM	High Water Mark
IDF	Intensity Duration Frequency
km	kilometres
LiDAR	Light Detection and Ranging
LP3	Log Pearson Type III

m	metres
MH	Morrison Hershfield
NRCan	Natural Resources Canada
PMF	Probable Maximum Flood
ROS	Rain-on-snow
RTK	Real Time Kinematic
SSP	Shared Socioeconomic Pathway
TBC	Trimble Business Centre
TH	Tr'ondëk Hwëch'in
USGS	United States Geological Survey
WRB	Water Resources Branch
WSC	Water Survey of Canada
WSE	Water Surface Elevation
YG	Government of Yukon

1 Introduction

Stantec Consulting Ltd. (Stantec) was retained by the Government of Yukon (YG) Water Resources Branch (WRB) to perform the Dawson City & Klondike Valley Flood Mapping Study (the Project). The objective of the Project was to develop flood hazard maps as outlined in the Federal Flood Mapping Guideline Series (NRCan 2018a; NRCan 2018b; NRCan 2019a; NRCan 2019b; NRCan 2023) for the Yukon River (*Chu kon' dëk*) and the Klondike River (*Tr'ondëk*) valley within the Area of Interest (AOI) (Figure 1-1 to Figure 1-4). The Project was funded in part by Natural Resources Canada (NRCan) under the Flood Hazard Identification and Mapping Program (FHIMP).

The AOI is located within the Traditional Territory of the Tr'ondëk Hwëch'in (TH). TH Settlement Lands in the AOI are illustrated on Figure 1-1 through Figure 1-4.

The Project consists of the following tasks pursuant to production of the flood hazard maps:

1. Background Data Gathering, Surveys, Digital Terrain Model (DTM)
2. Hydrologic Assessment
3. River Ice Assessment
4. Joint Probability Analysis
5. Climate Change and Land Cover Change Assessment
6. Fluvial Erosion Hazard Assessment
7. Modelling Inputs Memo
8. Hydraulic Analysis and Modelling
9. Modelling Results Memo
10. Flood Hazard Mapping
11. Engagement Support
12. Project Management
13. Deliverables

This document is the Final Report for the Project. The scope of the Final Report is to detail the methods and results of tasks 1 through 10 in the above list.

Figure No.
1-1

Title:
Dawson City & Klondike Valley Flood Mapping Study
Area of Interest: Yukon River and Klondike River Station 0 to 9+300

Client/Project:

Government of Yukon
Department of Environment
Water Resources Branch

Project: 123222713

Project Location:
Dawson, Yukon

Prepared by MAINSLEY on 2024-12-16
Requested by JMUIRHEAD on 2024-11-01
Review by JMUIRHEAD on 2024-12-16

- WSC Stations
- Bridge
- Highway
- Watercourse
- River Alignment with distance markers (m)
- River Flow Direction
- Main River Channnel
- Study Area
- Tr'ondëk Hwëch'in Settlement Land

0 1 2 3
Kilometers
(At original document size of 11x 17) 1:50,000

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. McElhanney
2019 Imagery, ESRI World Imagery

Stantec

Yukon

This project is funded in part by the Government of Canada

Canada

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Figure No.
1-2

Title:
Dawson City & Klondike Valley Flood Mapping Study
Area of Interest: Klondike River Station 9+300 to 29+500

Client/Project:

Government of Yukon
Department of Environment
Water Resources Branch

Project: 123222713

Project Location:
Dawson, Yukon

Prepared by MAINSLEY on 2024-12-16
Requested by JMUIRHEAD on 2024-11-01
Review by JMUIRHEAD on 2024-12-16

- WSC Stations
- Highway
- Watercourse
- River Alignment with distance markers (m)
- River Flow Direction
- Main River Channnel
- Study Area
- Tr'ondëk Hwëch'in Settlement Land

0 1 2 3
Kilometers
(At original document size of 11x 17) 1:50,000

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. McElhanney
2019 Imagery, ESRI World Imagery

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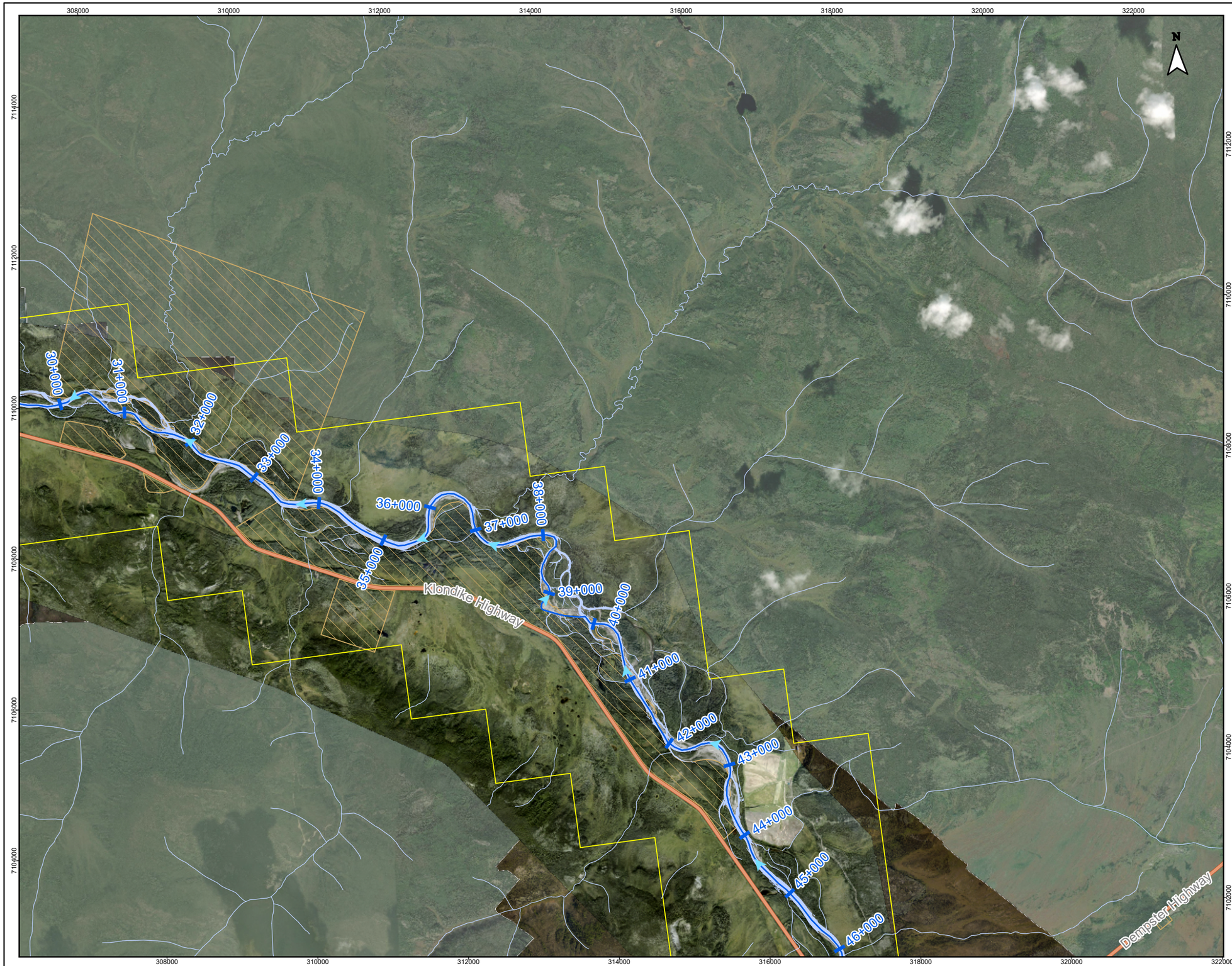


Figure No.
1-3

Title:
Dawson City & Klondike Valley Flood Mapping Study
Area of Interest: Klondike River Station 29+500 to 46+100

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

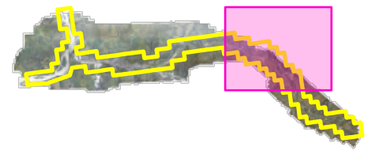
Project: 123222713

Project Location:
Dawson, Yukon

Prepared by MAINSLEY on 2024-12-16
Requested by JMUIRHEAD on 2024-11-01
Review by JMUIRHEAD on 2024-12-16

- Highway
- Watercourse
- River Alignment with distance markers (m)
- River Flow Direction
- Main River Channnel
- Study Area
- Tr'ondëk Hwëch'in Settlement Land

0 1 2 3
Kilometers
(At original document size of 11x 17) 1:50,000



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. McElhanney
2019 Imagery, ESRI World Imagery

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Figure No.
1-4

Title:
Dawson City & Klondike Valley Flood Mapping Study
Area of Interest: Klondike River Station 46+100 to 59+000 and Flat Creek

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

Project: 123222713

Project Location:
Dawson, Yukon

Prepared by MAINSLEY on 2024-12-16
Requested by JMUIRHEAD on 2024-11-01
Review by JMUIRHEAD on 2024-12-16

- Bridge
- Highway
- Watercourse
- River Alignment with distance markers (m)
- River Flow Direction
- Main River Channnel
- Study Area
- Tr'ondëk Hwëch'in Settlement Land

0 1 2 3
Kilometers
(At original document size of 11x 17) 1:50,000

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. McElhanney 2019 Imagery, ESRI World Imagery

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2 Background and Available Data

The background review completed for the Project determined the channel characteristics, availability of hydrometric data, flooding and ice processes and documented historical flooding. This review was completed for Flat Creek, Klondike River and the Yukon River at Dawson.

2.1 Flat Creek

Flat Creek is a tributary to the Klondike River and discharges into the Klondike River near the upstream end of the AOI. In contrast to other tributaries to the Klondike River and Yukon River within the AOI, a hydrologic assessment and hydraulic modelling for Flat Creek has been included in this Project due to its large relative size (compared to the other tributaries) and presence of bridge span infrastructure (as opposed to culverts) across the Klondike Highway.

There was no evidence or examples of freeze-up, ice cover, or breakup ice jam flooding on Flat Creek within the AOI obtained during this Project. Hydrometric data is not available for Flat Creek. Therefore, the governing flood process for Flat Creek was assumed to be open water conditions for the purposes of this Project.

2.2 Klondike River

The Klondike River resides in the Mackenzie Mountain ecoregion and separates the northern Yukon from the central Yukon (Lapp et al. 2017). The Klondike River conveys snowmelt and rainfall induced runoff from the Southern Ogilvie Mountains through the North Klondike River tributary, and the Stewart Plateau through the upper Klondike River. The Klondike River flows predominately westward before discharging into the Yukon River at the upstream end of Dawson City within the AOI.

The Klondike River catchment is located within the “interior” hydrologic zone characterized by Janowicz (2010) as having relatively rapid snowmelt in the spring leading to peak flows in June, with secondary peak flows at other times of the year related to rainfall events. Janowicz (2010) identifies that “smaller” systems may have dominant peak flows resulting from rainfall, although it is considered unlikely that the Klondike River is considered a “small” system in the context of that publication.

Several large tributaries discharge into the Klondike River within the AOI, including (in order from downstream to upstream) Bonanza Creek, Hunker Creek, Rock Creek, North Klondike River, and Flat Creek (Figure 1-1 to Figure 1-4).

2.2.1 Channel and Floodplain Characteristics

A photographic inventory of the channel, banks, and floodplain characteristics on the Klondike River within the AOI is provided in Photograph 1 through Photograph 31 in Appendix A. An overview of observed channel and floodplain characteristics of the Klondike River are listed below. A more thorough discussion of fluvial erosion hazards in the AOI is provided in Section 6.

- The Klondike River is considered in two distinct reaches: the natural reach from the upstream end of the AOI to Hunker Creek, and the dredge reach between Hunker Creek and the Yukon River.
- The natural reach has the following general characteristics:
  - Meandering planform set within a 500 – 1500 metres (m) wide valley.
  - Single channel and multi-channel sections exist; side channels, abandoned channels, and oxbows are common indicating an actively migrating plan morphology.
  - Riffle-run profile with occasional deep pools.
  - Majority of banks are low and easily accessed by flood flows.
  - Bed and bank material consists primarily of cobbles and gravels, with depositional bars consisting of finer material.
  - Occasional instances of bank erosion are present contributing suspended load, bedload, and large woody debris.
  - Large woody debris jams and tangles are common.
  - Low banks consist of deciduous shrubs whereas floodplains are dominated by coniferous tree communities.
- The dredge reach has the following general characteristics:
  - The valley, which is up to 2,000 m wide and is bisected by the Klondike Highway, has been substantially disturbed by historical placer mining activity (i.e., dredging). This historical disturbance is the source of the “dredge reach” descriptor for this reach.
  - Planform is a single channel located on the right side of the valley. The single channel abuts against the right valley wall. Bank height (and floodplain access) varies on the left side of the channel depending on historical placer mining activities in the area.
  - Bed and bank material consists of cobbles and gravels. Limited fine material exists on the left side of the channel given historical placer mining activities.
  - Occasional instances of bank erosion contributing bedload, and minor amounts of large woody debris are present.
- The gradient of the Klondike River is relatively constant and steep (0.28%) with occasional pools that promote ice jam formation during freeze-up and breakup (Turcotte and Nafziger 2021).
- Sediment transported by the Klondike River to its confluence with the Yukon River has created an alluvial fan that laterally constricts the Yukon River through Dawson City.
- The channel gradient and morphology contribute to ice mobilization at shallow rapids and riffles during small increases in discharge or upstream ice movement, which can contribute to formation of several small ice jams during breakup (Turcotte 2021).

2.2.2 Hydrometric Data

Water Survey of Canada (WSC) Station 09EA003 (Klondike River Above Bonanza) is located to the east of Dawson City at the Klondike River Bridge at the Klondike Highway, towards the downstream end of the Klondike River within the AOI (Figure 1-1). WSC Station 09EA003 is located within the dredge reach of the Klondike River and is upstream of the Bonanza Creek confluence but downstream of the Hunker Creek tributary. WSC Station 09EA003 has a gross drainage area of 7,810 square kilometres (km^2) (GoC 2024a, illustrated in Figure 2-1). The station is located in a long, deep pool immediately upstream of the Klondike Highway bridge crossing on the north side of the river. The station has been in operation since mid-1965, reporting combinations of stage and discharge during that time. However, the station data record is subject to many gaps in the record, including during the breakup and freeze-up periods.

WSC Station 09EA006 (Klondike River at Rock Creek) is located approximately 21 km upstream of the confluence with the Yukon River, on the south side of river at the Rock Creek subdivision and immediately upstream of the Rock Creek tributary confluence (Figure 1-2). WSC Station 09EA006 is within the natural reach of the Klondike River. This station has provided seasonal stage data since 2014 to support flood forecasting.

Table 2-1 summarizes the hydrometric data available for this Project at each of the WSC stations listed above.

Table 2-1 Available Klondike River Hydrometric Data at WSC Stations

Station Number	Station Name	Start Date/ End Date	Data Type	Source
09EA003	Klondike River Above Bonanza	1965 – 2024	Daily average discharge	WSC digital download
		1966 – 2023	Annual maximum daily discharge	WSC digital download
		1974, 1978, 1981 – 2023	Annual maximum instantaneous discharge	WSC digital download
		1966 – 2010	Daily average local stage	WSC scanned hardcopies
		2011 – 2024	Daily average local stage	WSC digital download
		2011–2023	Annual maximum daily local stage	WSC digital download
		2011 – 2023	Annual maximum instantaneous local stage	WSC digital download
		1996 – 2024	15-minute local stage (hourly data in 1996, 1997)	WSC data request
		1991 – 2001	Rating Curve, Rating Table #13	WSC data request
		2001 – 2004	Rating Curve, Rating Table #14	WSC data request
		2004 – 2009	Rating Curve, Rating Table #15	WSC data request
		2009 – 2021	Rating Curve, Rating Table #16	WSC data request
		2021 – 2023	Rating Curve, Rating Table #17	WSC data request

09EA006	Klondike River at Rock Creek	2014 - 2023	Daily average local stage	WSC digital download
		2014, 2016, 2018 – 2019, 2022	Annual maximum daily local stage	WSC digital download
		2016, 2018 – 2019, 2022	Annual maximum instantaneous local stage	WSC digital download

WSC Station 09EA003 is the station with the longest period of record and is therefore the primary hydrometric dataset relied upon in this Project. Figure 2-2 shows historical statistics for flows at WSC Station 09EA003 for the approved period (1965 – 2023) (GoC 2024a).

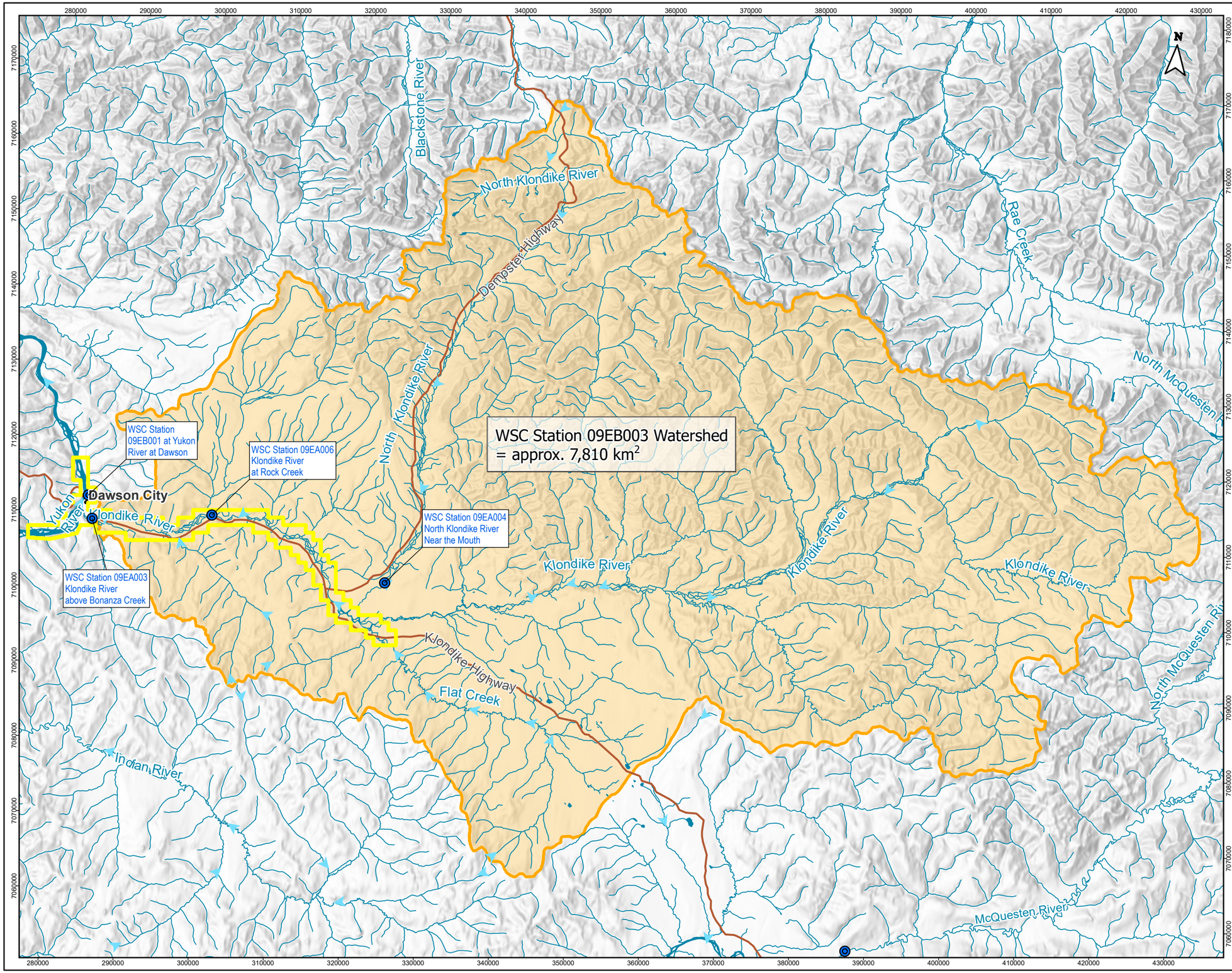

Figure No.
2-1

Title:
Watershed for WSC Station 09EA003 (Klondike River above Bonanza)

Client/Project:

Government of Yukon
Department of Environment
Water Resources Branch

Project: 123222713

Project Location:
Dawson, Yukon

Prepared by MAINSLEY on 2024-12-16
Requested by JMUIRHEAD on 2024-11-01
Review by JMUIRHEAD on 2024-12-16

- Highway
- Watercourse
- Flow Direction Arrow
- Study Area
- Waterbody
- Watershed
- WSC Stations

0 10 20 30
Kilometers

(At original document size of 11x 17) 1:500,000

Notes
1. Coordinate System: NAD 1983 CSRS Yukon Albers
2. Data Sources: GeoYukon, Water Survey Canada, ESRI Hillshade

Stantec

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DRAFT

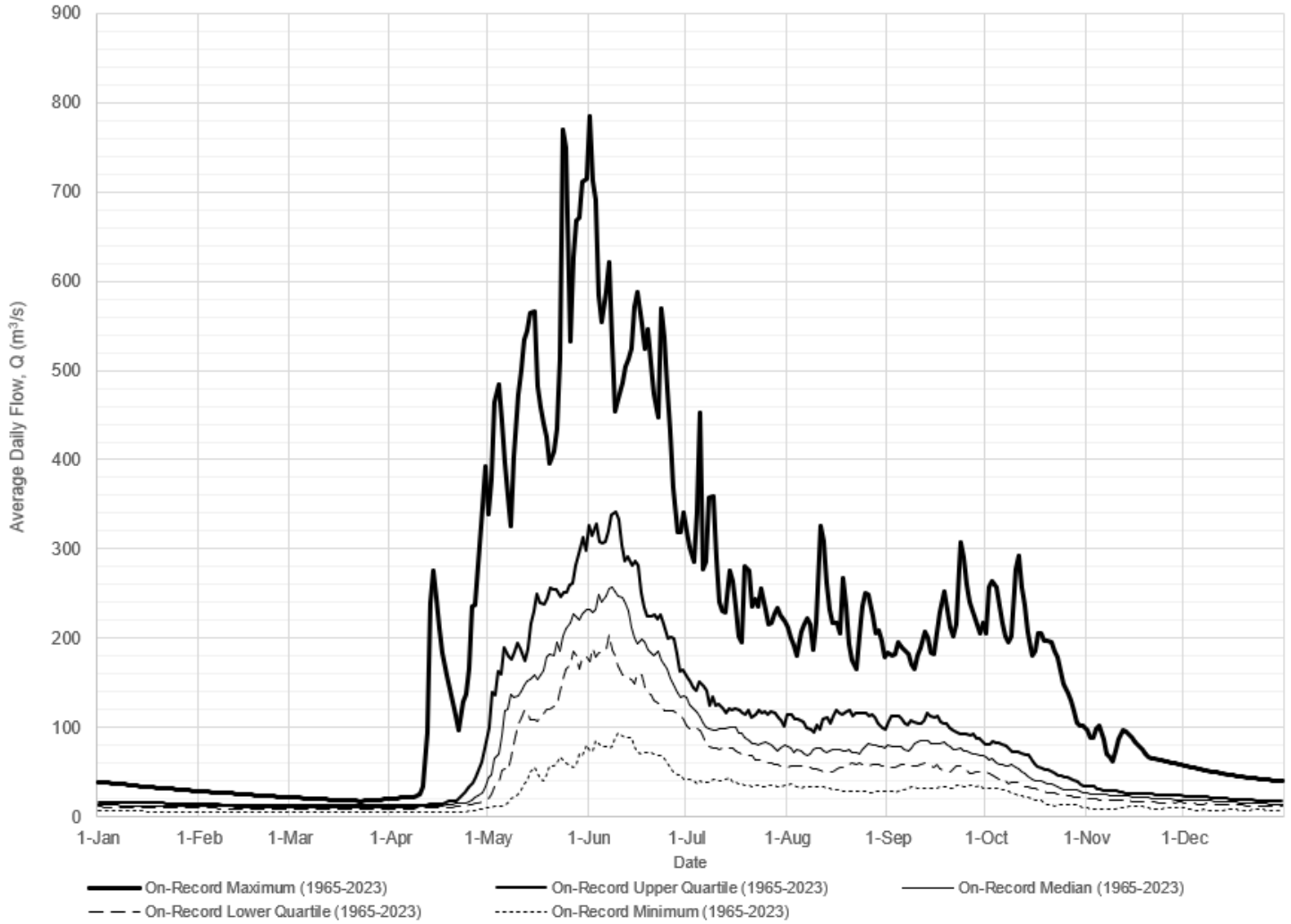

Figure 2-2 Daily Flow Statistics for All Years on Approved Data Record (1965 – 2023) at WSC Station 09EA003 – Klondike River Above Bonanza Creek

2.2.3 Flood and Ice Processes

2.2.3.1 Freeze-Up

In general, little is known about Klondike River freeze-up because much of the river is not viewable from the highway, and satellite imagery/aerial photographs are impacted by regular occurrences of fog in fall/early winter (Turcotte et al. 2024a). The general lack of observations may also indicate that freeze-up processes have not been a dominant flooding process on the river warranting observation, receiving less attention than open water and breakup flooding processes. Feedback from the community suggests the Klondike River in the AOI typically freezes over in November or early December. Available WSC Station 09EA003 and WSC Station 09EA006 stage records support this general timing, however, it is noted that these stations capture specific locations and cannot be used to extrapolate AOI-wide freeze up timing. WSC Radar imagery, thermal imaging, drone footage, additional hydrometric monitoring, and public engagement could be used in future years to improve the understanding of Klondike River freeze-up processes.

Freeze-up jams can cause elevated water levels, but lower flows in fall/early winter appear to limit the severity of freeze-up jam induced flooding in the Klondike River (Turcotte et al. 2021). When flows are high in the fall/early winter, the resulting elevated freeze-up levels on the Klondike River can have substantial impacts on the following year's breakup jam probability/severity (e.g., 2022-2023 as discussed in Section 2.2.4.3).

2.2.3.2 Ice Cover

Bercier and Bier (2023) documented late winter ice thickness at WSC Station 09EA003 between 0.55 m – 1.34 m from 1996 to 2023, with an average of approximately 0.9 m over that period of time.
The measurement location at WSC station 09EA003 is in a deep, channelized portion of the Klondike River and there is little documentation of ice cover thickness on the Klondike River at other locations within the AOI. It is likely that ice thicknesses in other areas of the Klondike River, where there are multiple channels and/or a wider main channel, will have lower ice thicknesses than those measured at WSC Station 09EA003.

Depending on the freeze-up level and recession in flow over the winter, it is expected that portions of the ice cover may end up resting on the riverbed (with little to no flow beneath it) by late winter. Ice pieces during the 2024 breakup were observed to be 0.3 to 1.0 m thick. Local community members have indicated this is generally typical for the Klondike River (1 to 3 feet thick is a common description), but that thickness can vary significantly along the river. Given the above, for the purposes of this Project, the Klondike River ice cover is assumed to be spatially variable within the AOI and ranges from 0.3 to 1.0 m thick depending on the location.

Field measurements could improve the understanding of typical ice thicknesses on the Klondike River. This would require a robust sampling program because of the spatial variability of Klondike River ice thickness and because collection of the data would likely carry substantial safety risks.

Community members reported that locals typically do not travel on the Klondike River during the winter due to hazardous/unsafe conditions.

Turcotte et al. (2024a) found that (based on ice coverage preceding breakup between 2018 and 2024) the ice cover typically is weak through the dredge reach of the AOI, from the Yukon River to the Hunker Creek confluence. The exception within the dredge reach is resistant ice cover around the Klondike Highway Bridge. Freeze-up consolidation events and/or mid-winter breakup events – such as the event of December 2002 (detailed in Section 2.2.4.2) – can cause ice to mobilize, accumulate, and refreeze resulting in certain areas having substantially greater ice thicknesses in advance of spring breakup (Janowicz 2010; Janowicz 2003).

2.2.3.3 Breakup

Breakup on the Klondike River is typically initiated in April/early May with rising temperatures and resulting ice degradation and flow increases from snowmelt. Breakup of the Klondike River typically precedes Yukon River breakup. Stantec's analysis using WSC station data (GoC 2024a) indicated the "ice-free period" on the Klondike River is typically two to eight days before that of the Yukon River, with an average delay of five days. Jasek (2002) reported a time lag of approximately five days between breakup on the two rivers.

Breakup jams on the Klondike River have a demonstrated history of rarely exceeding 2 km in length; however, given the readily accessible floodplain even jams a few hundred metres long can cause flooding for infrastructure in those areas (Turcotte et al. 2024a). In the Klondike River, breakup ice jams can be "grounded", which means ice lodges against the bed and this "forces a large portion of the flow to transit on the floodplain" (Turcotte et al. 2024a). This aligns with Turcotte et al. (2017) which discussed breakup jams in small rivers (drainage area of < 2,000 km^2, bankfull discharge < 1,000 m^3/s, bankfull width < 100 m, or bankfull depth < 5 m) often being grounded. Despite draining almost 8,000 km^2, the Klondike River likely falls in this category of small rivers and the associated breakup ice jam dynamics (Turcotte et al. 2024a). In this grounded jam scenario, the theoretical ice jam profile (as found on larger rivers and as typically modelled in HEC-RAS) would not develop before overland flooding occurs.

Breakup ice jams cause the highest water levels at the Klondike River Bridge at the Klondike Highway (Yukon University 2022; Turcotte et al. 2021); however, breakup ice jams may not be the cause of the highest water levels everywhere along the Klondike River AOI. For this reason, identification of reasonable jam locations and extents is crucial for flood hazard mapping. In a flood hazard mapping study such as this Project, including jams where they are unlikely to occur may result in over-estimating flood hazard extents. Contrastingly, omitting likely jam locations may result in under-estimating flood hazard extents.

Predicting future breakup jam locations based on conventional theory on rivers like the Klondike can be challenging and carry substantial uncertainty, particularly given the active morphology and mobile bed of the river. A reasonable and common approach which has previously applied in Yukon flood hazard mapping studies (e.g., Stantec 2024b) is therefore to identify breakup jam locations which have historically governed flooding and consider these in modelling and mapping efforts. These jams which

govern flooding were referred to as “major” jams in Figure 4.4.1 of Turcotte et al. (2024a) and are henceforth referred to as “dominant” jam locations in this report.

Eleven dominant breakup jam locations were identified to be modelled in this Project, based on the findings of Turcotte et al. (2024a) and other historical events/publications. These locations are described below and identified on Figure 2-3.

- C4 Subdivision Jam (Klondike River Station 2+254). This location is identified by Turcotte et al. (2024a) as an annual jam location with impacts to infrastructure and was the subject of previous ice jam modelling efforts for the Klondike River (e.g., Turcotte and Saal 2022a; Turcotte et al. 2021). The toe of this jam is typically formed by grounded ice on the shallow areas at the upstream end of the multi-channel portion of the Klondike River directly south of the C4 subdivision. The jam often extends several hundred metres upstream of the Klondike Highway Bridge and is closely monitored each year due its potential impacts on infrastructure and properties (Klondike River Bridge at Klondike Highway, C4 subdivision, industrial and residential properties upstream of the bridge) (Turcotte et al. 2024a). Photograph 32 through Photograph 36 in Appendix A illustrate historical ice jams with these same approximate extents. Analysis by Turcotte et al. (2021) and Jasek (2002) indicate that the C4 Subdivision Jam is unlikely to be impacted by conditions on the Yukon River which would likely occur during a C4 Subdivision Jam, with the exception of a C4 Subdivision Jam and a simultaneous Yukon River jam extending to the confluence. However, Turcotte et al. (2021) and Jasek (2002) state that the simultaneous occurrence of severe jam events on the Yukon and Klondike rivers is an extremely unlikely/rare scenario.

- Klondike Highway Bridge Jam (Klondike River Station 3+250). In December of 2002, a freeze-up consolidation event/mid-winter breakup jam caused ice consolidation and thick ice cover to a location approximately 300 m upstream of the Klondike Highway Bridge (Janowicz 2010; Janowicz 2003). This resulted in the formation of a breakup jam in spring of 2003, at the head of the December 2002 ice consolidation, causing flooding for residential and industrial properties.

- Eureka Drive Jam (Klondike River Station 5+850). This location is identified by Turcotte et al. (2024a) as having lower gradient and, as a result, historical formation of a large breakup ice jam in most years.

- Swimming Hole Jam (Klondike River Station 12+600). Prior to the avulsion of the swimming hole in 2023 (refer to Section 6), minor jams would often occur at this location. As observed in 2024, following the avulsion, the wide, shallow channel will likely intercept ice runs from upstream and form breakup jams (Turcotte et al. 2024a).

- TH Farm Jam (Klondike River Station 17+574). Turcotte et al. (2024a) identify the TH Farm as a “quasi-annual” jam location that has a record of being relatively resilient, frequently causing overbank flooding, including 2017, 2018, 2021, and 2023 (Turcotte et al. 2024a).

- Rock Creek Jam (Klondike River Station 20+600), Slide Area Jam (Klondike River Station 23+700), and Henderson's Corner Jam (25+700). These three jam locations are part of a reach of approximately 6 km (from downstream of Rock Creek to upstream of Henderson's Corner) which have experienced repeated ice jams causing overbank flooding (Turcotte et al. 2024a; Stantec 2024a).
  - Turcotte et al. (2024a) states that the Rock Creek Jam itself is not necessarily severe in jam resilience or magnitude, but is severe in terms of the impact to the Rock Creek subdivision given its relatively low elevation.
  - The Slide Area Jam occurs annually and is one of the more resilient jams in the Klondike River (Turcotte et al. 2024a). The jam is visible from the Klondike Highway and often rises to within 1 m of the highway elevation (e.g., 2013 and 2022 per Turcotte et al. 2024a).
  - The Henderson's Corner Jam occurred and caused flooding to nearby properties during the 2023 ice jamming event (Turcotte 2023). Similar to the Rock Creek jam, the Henderson's Corner jam may not be severe in magnitude or resilience but is severe in terms of impact given the relatively low elevation of Henderson's Corner developments and infrastructure (Turcotte et al. 2024a).
- "Kilometre 30-32" Jam (Klondike River Station 30+950). Notable landmarks are not observed around this jam, hence the name "Kilometre 30-32" from Turcotte et al. (2024a). The islands, secondary channels, shallow gravel bars, log jams, and channel irregularities impede ice movement and initiate jamming in this area. This jam is reportedly one of the most resilient jams in the Klondike River valley (Turcotte et al. 2024a).
- Dempster Highway Bridge Jam (Klondike River Station 46+050) and Dempster Highway Corner Jam (Klondike River Station 48+010). Janowicz (2003) notes a jam which occurred at the Dempster Highway "corner" (exact location unknown) in the spring of 2003, and Bercier and Bier (2023) reference jams around the Klondike River Bridge (Dempster Highway) in the 2023 breakup. Turcotte et al. (2024a) also indicates that there are typically multiple kilometres of resilient ice cover downstream of the Dempster Highway Bridge, and the potential for major jams at locations just downstream of the bridge. This is an area of notable consequence for an ice jam because the valley narrows approximately 1 km upstream (south) of the Dempster Highway Bridge, which means that ice jams may have a more severe impact in this area (in terms of water level rise). Jams around this location may also impact the Dempster Highway Bridge which is considered critical infrastructure. A such, two jams in the vicinity of the Klondike River Bridge (Dempster Highway) were considered: one with the toe at the meander bend approximately 450 m downstream of the bridge referred to as the Dempster Highway Bridge Jam, and one with the toe at the valley narrowing approximately 1,500 m upstream of the bridge referred to as the Dempster Highway Corner Jam.

Figure 2-3 provides a figure originally from Turcotte et al. (2024a) which has been annotated with the above 11 dominant ice jam locations. Figure 2-3 indicates that the above 11 dominant ice jam locations cover the “major” jam locations, as well as several “recurrent” ice jam locations, from Turcotte et al. (2024a).

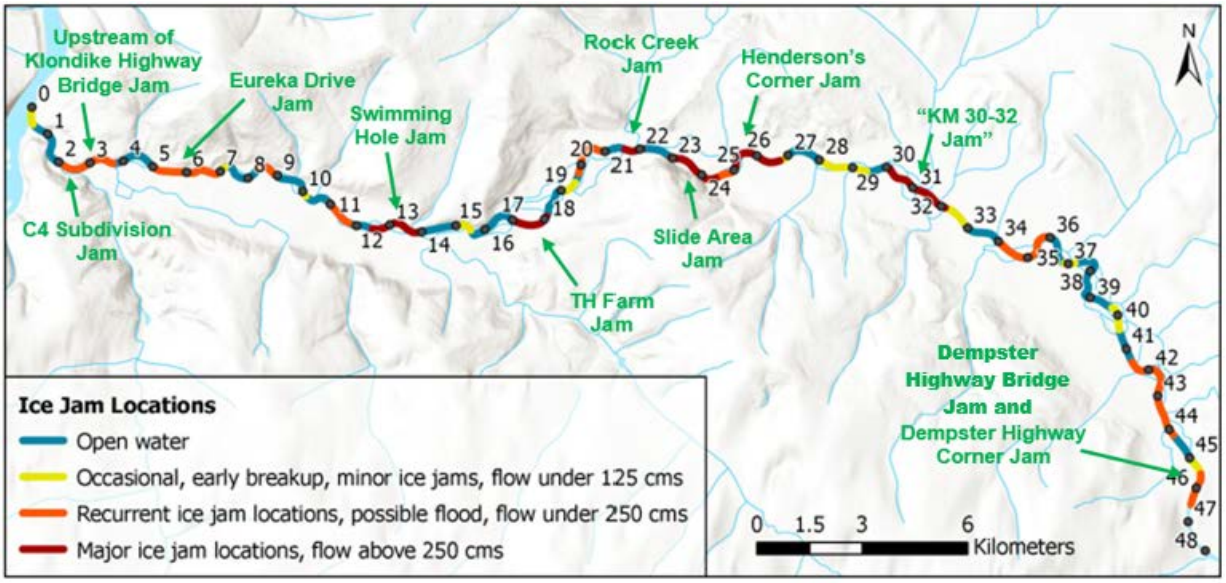

Figure 2-3 Turcotte et al. (2024a) with Annotations (in green) for the 11 Dominant Ice Jam Locations for this Project

2.2.3.4 Open Water

Following breakup, discharge in the Klondike River and its tributaries continue to increase with snowmelt contributions to runoff. Without the backwater impacts of ice jams, elevated WSEs in the Klondike River are a direct result of the flow rate in the river.

The Klondike River (as reflected by WSC Station 09EA003 records) can have multiple peaks during the spring/early summer snowmelt period resulting from rainfall events in the catchment occurring during the spring melt. Figure 2-4 provides an example from 2020 of multiple discharge peaks and the rainfall events corresponding to each peak within the period of elevated flow from snowmelt, based on review of WSC hydrometric data (GoC 2024a) and available meteorological data (GoC 2024b).

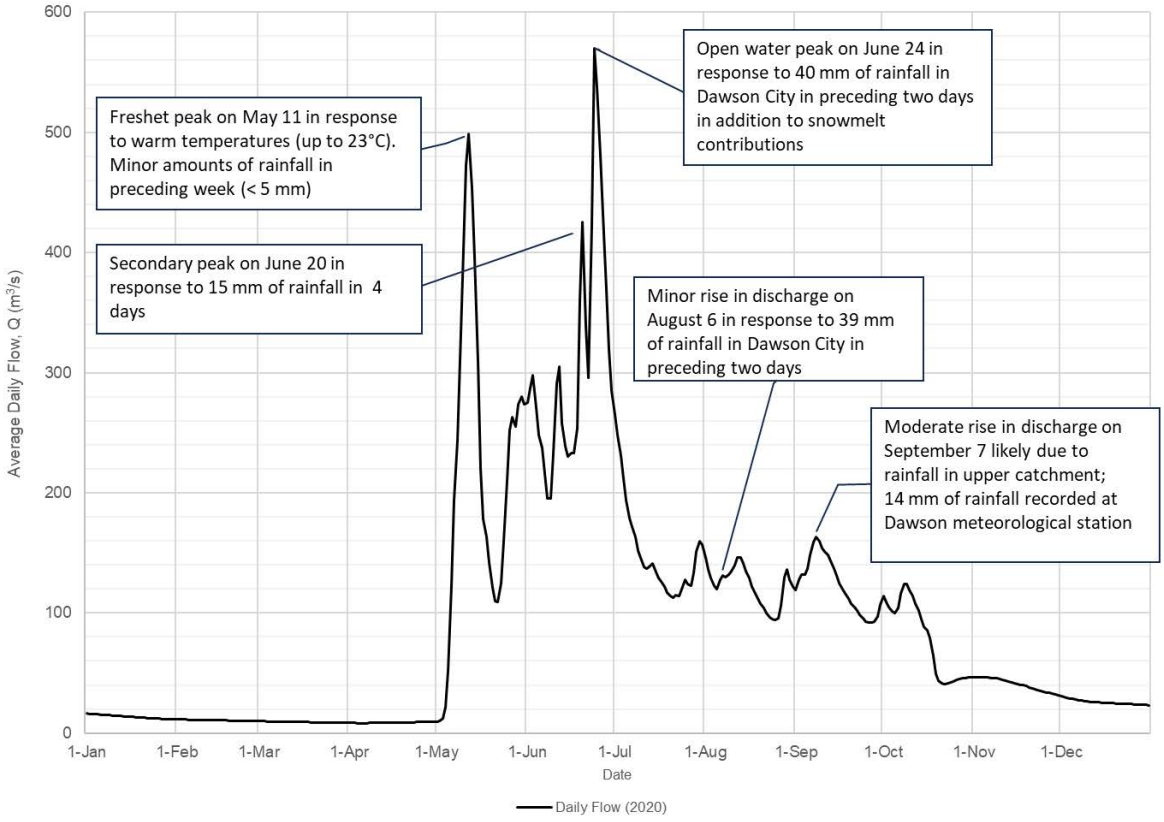

Figure 2-4 WSC Station 09EA003 Flow Hydrograph for 2020 with Peaks from Rainfall Events on Elevated Snowmelt Baseline

Figure 2-5 illustrates peak open water flow date versus the peak open water average daily flow over the period of record (59 years, from 1966 - 2024, as obtained from GOC 2024a plus gaps filled, as detailed in Section 3.2.1.2.1). The earliest peak open water flow date within the record was May 4 in 2009. The latest peak open water flow date was July 8 in 2008. The most common peak open water flow day was June 9, which had 7 occurrences. Of the 59 peak open water flow dates, 43 of these (73%) occurred over a 3 week period from May 21 to June 11.

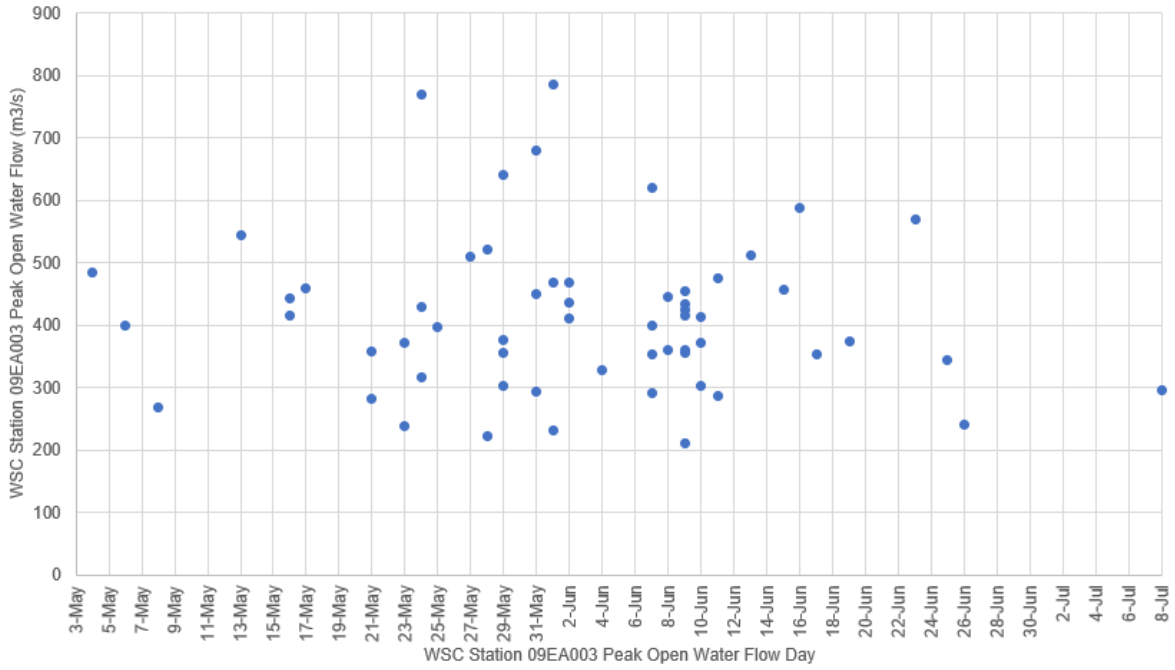

Figure 2-5 WSC Station 09EA003 Peak Open Water Average Daily Flow versus Peak Open Water Flow Day

2.2.4 Past Flood Events

Observations of past flood events are often made when i) the flooded area is readily viewable from inhabited/travelled areas and/or ii) the flood has impacts on infrastructure. Much of the 59 km of the Klondike River within the AOI is not viewable from the highway and/or near existing infrastructure. Therefore, observations of past flood events in the Klondike River within the AOI is generally limited. Flood events with documented observations are detailed below.

2.2.4.1 1986 Ice Jam Flood Event Downstream of Klondike Highway Bridge

A substantial ice jam event in the Klondike River caused overtopping of the Klondike Highway in 1986 (Turcotte and Saal 2022a). This flood event occurred prior to the development of the C4 subdivision. The ice jam causing the flooding consisted of a jam toe at the island complex adjacent to current day C4 development (Photograph 37, Appendix A) and a jam head approximately 350 m upstream of the Klondike Highway Bridge (Photograph 39, Appendix A). The jam caused conveyance of flow through the floodplain which overtopped the Klondike Highway (Photograph 38, Appendix A). These three photos in Appendix A were provided by YG and although the source of the photographs cannot be verified, the development patterns in the photographs and severity of the flooding lead to the conclusion that these photographs are of the 1986 event. Turcotte et al. (2021) also considered these photographs to be of the 1986 ice jam flood event and used the photographs to assist in calibration of their ice jam hydraulic modelling. Stage data at WSC Station 09EB001 are not available until May 15, 1986 and therefore peak water surface elevation (WSE) during the ice jam event is unknown.

2.2.4.2 2002-2003 Ice Jam Flood Events

Dawson City experienced a warm period in December of 2002, which caused a mid-winter breakup jam on the Klondike River at the Klondike Highway Bridge (Janowicz 2010, Janowicz 2003). This jam caused minor flooding but also caused accumulation and refreezing of “jumble ice” with thickness of up to 3 m, from the Trans-North Helicopter base to a point 300 m upstream of the Klondike Highway Bridge (Janowicz 2010, Janowicz 2003). The location of the head of this mid-winter breakup jam (300 m upstream of the Klondike Highway Bridge) is consistent with spring breakup jam head locations from 1910 and 1911 in historical photographs in Appendix A (Photograph 33 to Photograph 35) as well as the approximate ice jam head location in 1986 (Section 2.2.4.1).

Janowicz (2003) reported that late on April 26, 2003 an ice jam at the Dempster Highway corner caused minor flooding of the Klondike River Lodge property; an ice run in the morning of April 27, 2003 broke the jam and water levels dropped. Over the course of that day (April 27, 2003) most of the upper Klondike River broke up with ice flowing downstream and forming a 1.5 km long ice jam with the toe at the competent “jumble ice” from the December 2002 mid-winter jam (Janowicz 2003). Water level rose by approximately 3 m throughout the day resulting in flooding of two residences and the Northern Superior mechanical shop (now NAPA Auto Parts) and numerous vehicles (Janowicz 2003). Janowicz (2003) indicated that at the end of April 27, 2003, “the water level was less than 1 m below the bridge deck”; it is unknown if this is in reference to the ice or if water was flowing over/around the jam toe and the river was open below the jam.

2.2.4.3 2023 Ice Jam Flood Event

By way of high freeze-up flow/level and a cold December in the fall/early winter of 2022, a thick and strong ice cover formed on the Klondike River (Turcotte 2023; Bercier and Bier 2023). Snowpack over the winter of 2022-2023 was up to 135% of the long-term average in the Klondike River watershed (YG 2024) and accumulated late in the season which allowed for ice to thicken before the high snowpack had insulating effects (Turcotte 2023; Bercier and Bier 2023). These elements set the stage for higher probability of breakup ice jamming in the spring of 2023 (Turcotte 2023).

Turcotte (2023) reports that there was not an excessive warm spell or precipitation event that prompted an especially dynamic breakup. Rather, the above-average snowpack melting combined with breakup of the thick, strong ice cover led to ice jamming events throughout the Klondike River over several days. Bercier and Bier (2023) offer a slightly different perspective, attributing the dynamic breakup of May 2023 to high snowpack, delayed onset of snowmelt, thick ice cover, and sudden warming in early May.

A chronology of the 2023 ice jam events synthesized from Turcotte (2023) and Bercier and Bier (2023) is summarized below:

- May 7, 2023
  - 11:00 am to 1:00 pm: ice jam at the Klondike River Bridge (Dempster Highway) released.
  - 12:40 pm: ice jam formed at Klondike River Bridge (Klondike Highway) flooding one upstream resident for approximately 22 hours (Photograph 40 through Photograph 43 in Appendix A).
  - 4:00 pm: Rock Creek ice jam formed and flooded community; Henderson's Corner ice jam also formed and flooded community.
- May 8, 2023
  - 11:00 am: Klondike River Bridge (Klondike Highway) ice jam released; ice cleared from Swimming Hole to Yukon River confluence; multiple jams persisted between Swimming Hole and upstream of the Klondike River Bridge (Dempster Highway), including ice jams at Rock Creek and Henderson's Corner.
  - 4:00 pm: a shift in Rock Creek ice jam caused the water levels at that location to drop by approximately 0.6 m.
  - Photograph 44 through Photograph 48 in Appendix A illustrate the ice jam at Rock Creek as photographed on May 8, 2023.
- May 10, 2023
  - In the morning, there were four ice jams between Rock Creek and Klondike River Bridge (Dempster Highway) in multichannel reaches, described below from downstream to upstream with kilometre markers as referenced in Turcotte (2023):
    - Approximately 1.6 km jam at Rock Creek with toe located approximately 1.6 km downstream of the Rock Creek confluence and approximately 3 km of intact ice cover downstream of the jam toe.
    - Approximately 1.2 km jam at Henderson's Corner with the toe located approximately 250 m downstream of Fireweed Road and approximately 0.6 km of intact ice cover downstream of the jam toe.
    - Approximately 1.5 km jam at "Kilometre 28" with open water downstream of the jam toe.
    - Approximately 1.8 km jam at "Kilometre 41" with open water downstream of the jam toe.
- On May 10, 2023
  - In the afternoon, the Kilometre 28 jam released and its ice was added to the Henderson's Corner jam, increasing the Henderson's Corner jam length from 1.2 km to approximately 1.6 km.

- May 11, 2023
  - Henderson's Corner jam remains in place; Photograph 49 through 51 in Appendix A illustrate the Hendersons Corner Jam as photographed on May 11, 2023.
  - Growth in the Rock Creek ice jam led to an increase in water levels at that location.
- May 12, 2023
  - In the morning, the Kilometre 41 jam, the Henderson's Corner jam, and the Rock Creek jam broke and moved downstream and formed a new 1.3 km long jam at the TH Farm, with the toe directly adjacent to the TH Farm and open water downstream of the toe location.
  - The TH Farm jam remained in place for approximately 24 hours.
  - Photograph 52 through Photograph 54 in Appendix A illustrate the TH Farm jam as photographed on May 12, 2023.
- May 15/16, 2023:
  - TH Farm ice jam sufficiently degraded (through melting) to allow main channel conveyance leading to a reduction in water levels at this location.
- May 16, 2023
  - Klondike River within AOI clear of jams and water levels dropped below flood threshold.

Various emergency response actions were taken throughout the flood, including flood warnings, tactical evacuations, power disconnections, and highway closures (Stantec 2024a; Bercier and Bier 2023). There were no fatalities in the flood emergency however extensive damage to private property/structures occurred at Rock Creek, Henderson's Corner, and the TH Farm.

2.2.4.4 2023 Open Water Flood Event

Following abatement of the ice jam flooding described in Section 2.2.4.3, snowmelt runoff rates were beginning to stabilize/decline (Turcotte 2023). Although not reflected in the precipitation records at the Dawson City meteorological station(s) (GoC 2024b), Turcotte (2023) reports that 30–40 millimetres (mm) of rainfall occurred in the central Yukon between May 21–24, 2023 (based on personal communication with Government of Yukon scientists). This represented a substantial rain-on-snow (ROS) event for the Klondike River watershed. The result was the second highest instantaneous flow recorded at WSC Station 09EA003 in the period of record, at approximately 938 m^3/s on May 24, 2023.

Emergency response actions were taken from May 23 – June 13, 2023, including flood warnings, tactical evacuations, power disconnections, sandbagging operations and highway closures (Stantec 2023). Rock Creek was the most heavily impacted area of the Klondike Valley. The airport was impacted, although elevated tributary flows (e.g., Bonanza Creek) may have contributed to the airport flooding severity.

2.2.5 Summary of Dominant Flood Processes

Based on the data and documentation reviewed, it is likely that extreme flood events on the Klondike River within the AOI are governed by a combination of breakup ice jam events and open water flow events. That is, in areas subject to major breakup ice jams, the overall annual exceedance probability (AEP) flood is likely governed by breakup ice jamming while in areas with minor/no breakup ice jams, the overall AEP is likely governed by open water flows. For this reason, both breakup ice jam and open water flood processes were considered in producing the flood hazard maps for the AOI on the Klondike River.

A total of 11 historically dominant breakup ice jams were identified along the Klondike River which, based on the available data, would potentially govern flooding in nearby areas. It is possible that major/dominant breakup ice jams may form in other areas of the Klondike River in the future; however, predicting their locations given the changing morphology and ice regime of the Klondike River is challenging and carries substantial uncertainty. Regular monitoring of the Klondike River breakup sequences will be crucial in determining whether dominant jam locations change in the future (Turcotte et al. 2024a).

Open water flooding is driven by spring snowmelt and may be amplified by rainfall events if they occur during the freshet period in the catchment, as evidenced by annual peak flows occurring in May, June, and early July. The timing of peak events does not suggest sensitivity to rainfall events in the absence of an elevated snowmelt-induced baseline.

Freeze-up jams have not historically been a driving flood process on the Klondike River; however, elevated flows during freeze-up and/or mid-winter breakup jams are generally understood to increase the probability of severe breakup ice jamming in the following spring (e.g., in 2002–2003 as documented by Janowicz 2010 and Janowicz 2003).

2.3 Yukon River

The Yukon River is the largest river in the Yukon, draining over half of the territory. The Yukon River conveys snowmelt, rainfall induced runoff, and glacier melt from the southern Yukon and northern British Columbia northwards into Alaska and eventually the Bering Sea. The Yukon River at Dawson catchment is bounded to the southwest by the Coast and St. Elias mountains, to the north by the Ogilvie mountains, and to the east by the Selwyn mountains (Gerard et al. 1992). The majority of the catchment area is within the “interior” hydrologic zone characterized by Janowicz (2010) as having relatively rapid snowmelt in the spring typically leading to peak flows in June, followed by significant contributions from glacier melt and rainfall events. The Yukon River at Dawson’s main contributing drainages is the main Yukon River system originating in the Southern Lakes region, as well as the Teslin River, Stewart River, Pelly River, and White River (Gerard et al. 1992). The catchment is predominantly coniferous forest and mountainous (Gerard et al. 1992).

Downstream of Dawson City, the Yukon River flows approximately 150 km northwest to the Yukon-Alaska border near Eagle, Alaska. Local citizens have been maintaining a tradition of monitoring the initiation of ice movement for over 120 years, since 1896 through an ice pool competition (Mammoth Geospatial 2024; IODE Dawson Chapter 2024).

There are two tributaries of note which enter the Yukon River within the AOI: Swede Creek and the Klondike River. Swede Creek is a relatively small creek and discharges into the Yukon River at the upstream end of the AOI. The Klondike River is substantially larger than Swede Creek (but substantially smaller than the Yukon River) and discharges into the Yukon River at the upstream (south) end of Dawson City.

2.3.1 Channel and Floodplain Characteristics

A photographic inventory of the channel, banks, and floodplain characteristics on the Klondike River within the AOI is provided in Photograph 55 through Photograph 77 in Appendix A. An overview of channel and floodplain characteristics which were observed are listed below. A more thorough discussion of fluvial erosion hazards in the AOI is provided in Section 6.

- Dawson City itself is situated in what is morphologically considered to be the floodplain of the Yukon River. Photograph 78 in Appendix A shows the location of current day Dawson City in its pre-development state.
- The upper 8 km of the AOI (upstream end of AOI to the Klondike River confluence) has the following characteristics:
  - A main channel with occasional side channels formed by medial bars and islands.
  - The mainstem channel (inclusive of side channels and islands) ranges from 750 – 1,750 m wide.
  - Bordering this mainstem are occasional floodplain flats – particularly on river left – bounded by steep valley walls (moderate floodplain access).
  - The river typically abuts the valley wall on the right bank more than the left bank.
  - Flow depths under average summer conditions are 2–4 m in this portion of the AOI.
  - Islands, floodplain and valley walls are vegetated with trees and shrubs.
  - Instances of erosion are present particularly along island banks.
- As the Yukon River flows past Dawson City, morphology changes:
  - From the confluence with the Klondike River to the downstream end of Dawson City near the George Black ferry crossing (~2 km of river), the Yukon River narrows and consists of an ~150 m wide deeper “trench” along river left (depths greater than 5 m) and a ~100 m wide shallow (1–2 m) bench along river right.
  - Left banks are steep; the right bank (along Dawson City) consists of the dike which surrounds Dawson City.
  - Detailed multibeam bathymetry surveys completed in June of 2024 observed mobile sand bed dune morphology on the riverbed of the deeper trench. Shrubs and small trees are present on the left and right banks.
- The downstream 4.5 km of the AOI, from the George Black Ferry to the downstream end of the AOI, has the following characteristics:

  - 500 – 1,000 m wide main channel bounded by steep valley walls (minimal to moderate floodplain access).
  - Occasionally the steep bank consists of bedrock or large boulder outcrops.
  - Generally well vegetated banks which are considered stable.
  - Several islands within the main channel. Flow depths under average summer conditions are 2–4 m in this lower 4.5 km of the AOI.
  - Generally transitioning to a more confined morphological setting with a narrower channel and progressively less/minimal floodplain access.
- Approximately 6.5 km downstream of the AOI (1.5 km downstream of Fort Reliance and 11 km downstream of Dawson City), the main channel narrows to 400 – 500 m and becomes nearly exclusively single channel set within steep and high valley walls (canyon-like, little to no floodplain access). Valley walls are vegetated with trees and shrubs. Photograph 77 and Photograph 79 in Appendix A display this point of transition from main channel with islands to this single-channel, canyon-like morphology.
- Channel gradient is typically considered to be 0.03–0.05% (Gerard et al. 1992), a value which has been supported by WSE profiles surveyed in 2024 (refer to Section 7).
- Large woody debris was observed floating in the river in June 2024. There were occasional areas of bank erosion contributing sediment and woody debris to the river. Log tangles/piles were evident throughout the AOI, particularly at the heads of islands.
- The bankfull channel is generally U-shaped, with depths varying as described above. Bed material was not sampled and was not observable due to water clarity in 2024 surveys. However, Gerard et al. (1992) described sand, gravels, and small cobbles as dominant bed materials.

2.3.2 Hydrometric Data

WSC Station 09EB001 (Yukon River at Dawson) is located at the downstream (north) end of Dawson City on the east bank within the AOI (Figure 1-1) and has a gross drainage area of 264,000 km² (GoC 2024a, illustrated in Figure 2-6). The drainage basin upstream of the station includes the Klondike River. This station was installed in mid-1944 and began reporting data in 1945. The data record is subject to many gaps, including an 18 year gap (1997 to 2014) when WSC did not operate the station; supplemental stage data provided by YG WRB was used to partially fill this gap.

WSC Station 09CD001 (Yukon River Above White River) is located approximately 125 km upstream of Dawson City, with a gross drainage area of 149,000 km² (GoC 2024a). Main tributaries entering the Yukon River between WSC Station 09CD001 and WSC Station 09EB001 include White River, Stewart River, Sixtymile River, and Indian River.

WSC Station 09DD003 (Stewart River at the Mouth) is located approximately 110 km upstream of Dawson City on the Stewart River, upstream of the confluence with the Yukon River, with a gross drainage area of 51,000 km² (GoC 2024a). Stage and discharge data at this station was used to support the identification of breakup events downstream at the Yukon River at Dawson station.

United States Geological Survey (USGS) Station 15356000 is located approximately 160 km downstream of Dawson City on the Yukon River at Eagle, Alaska. This station has a drainage area of 289,000 km² with Fortymile River as the main tributary between these two stations (approximately drainage area of 16,000 km²).

Table 2-2 summarizes the data available for this Project at WSC Stations 09EB001, 09CD001, 09DD003 and USGS Station 15356000.

Table 2-2 Available Yukon River and Stewart River Hydrometric Data Stations

Station Number	Station Name	Start Date - End Date	Data Type	Source
WSC 09EB001	Yukon River at Dawson	1945 – 1980, 2022 – 2024	Daily average discharge	WSC digital download
		1945 – 1980, 2022 – 2023	Annual maximum daily discharge	WSC digital download
		1975 – 1980, 2022 – 2023	Annual maximum instantaneous discharge	WSC digital download
		1944 – 1996, 2015 – 2024	Daily average local stage	WSC digital download (1977 – 1980: WSC data request for hardcopies)
		2015 – 2024	5-minute local stage	WSC data request
		1946 – 1952, 1957 – 1959, 1965 – 1995, 2014, 2022 - 2023	Annual maximum daily local stage	WSC digital download
		1975 – 1976, 1981 – 1994, 2015 – 2016, 2022	Annual maximum instantaneous local stage	WSC digital download
		1986 – 2020	Rating Curve, Rating Table #10	WSC data request
		2021 – 2023	Rating Curve, Rating Table #11	WSC data request
YG WRB 09EB001	Yukon River at Dawson	1995 – 1998, 2002 – 2005, 2007 – 2017	5-minute local stage	YG WRB data request
WSC 09CD001	Yukon River Above White River	1957–2022	Annual maximum daily discharge	WSC digital download
		1996 – 2022	Daily average discharge	WSC digital download
WSC 09DD003	Stewart River at the Mouth	1963 – 2022	Daily average discharge	WSC digital download
		2011 – 2022	Daily average stage	WSC digital download
USGS 15356000	Yukon River at Eagle AK	1950 – 2023	Daily average discharge	USGS digital download

WSC Station 09EB001 is the station with a location and period of record most applicable to the AOI and is therefore the primary hydrometric dataset relied upon in this Project. Figure 2-7 shows historical statistics for flows at WSC Station 09EB001 for the approved period (1945 – 2023) (GoC 2024a).

Figure No.
2-6

Title:
Watershed for WSC Station 09EB001 (Yukon River at Dawson)

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

Project: 123222713

Project Location:
Dawson, Yukon

Prepared by MAINSLEY on 2024-12-16
Requested by JMUIRHEAD on 2024-11-01
Review by JMUIRHEAD on 2024-12-16

- Highway
- International Border
- Territorial/Provincial Border
- Watercourse
- Flow Direction Arrow
- Waterbody
- Watershed - WSC Station 09EA003 (Klondike River above Bonanza)
- Watershed - WSC Station 09EB001 (Yukon River at Dawson)
- WSC Stations

0 50 100 150
Kilometers

(At original document size of 11x 17) 1:3,000,000

Notes
1. Coordinate System: NAD 1983 CSRS Yukon Albers
2. Data Sources: GeoYukon, Water Survey Canada, ESRI Hillshade

Stantec

This project is funded in part by the Government of Canada

Canada

Disclaimer: The content of these Draft Maps is based on the methods, assumptions, limitations, and analysis documented in the Dawson Flood Mapping Study Final Report (Stantec 2024).
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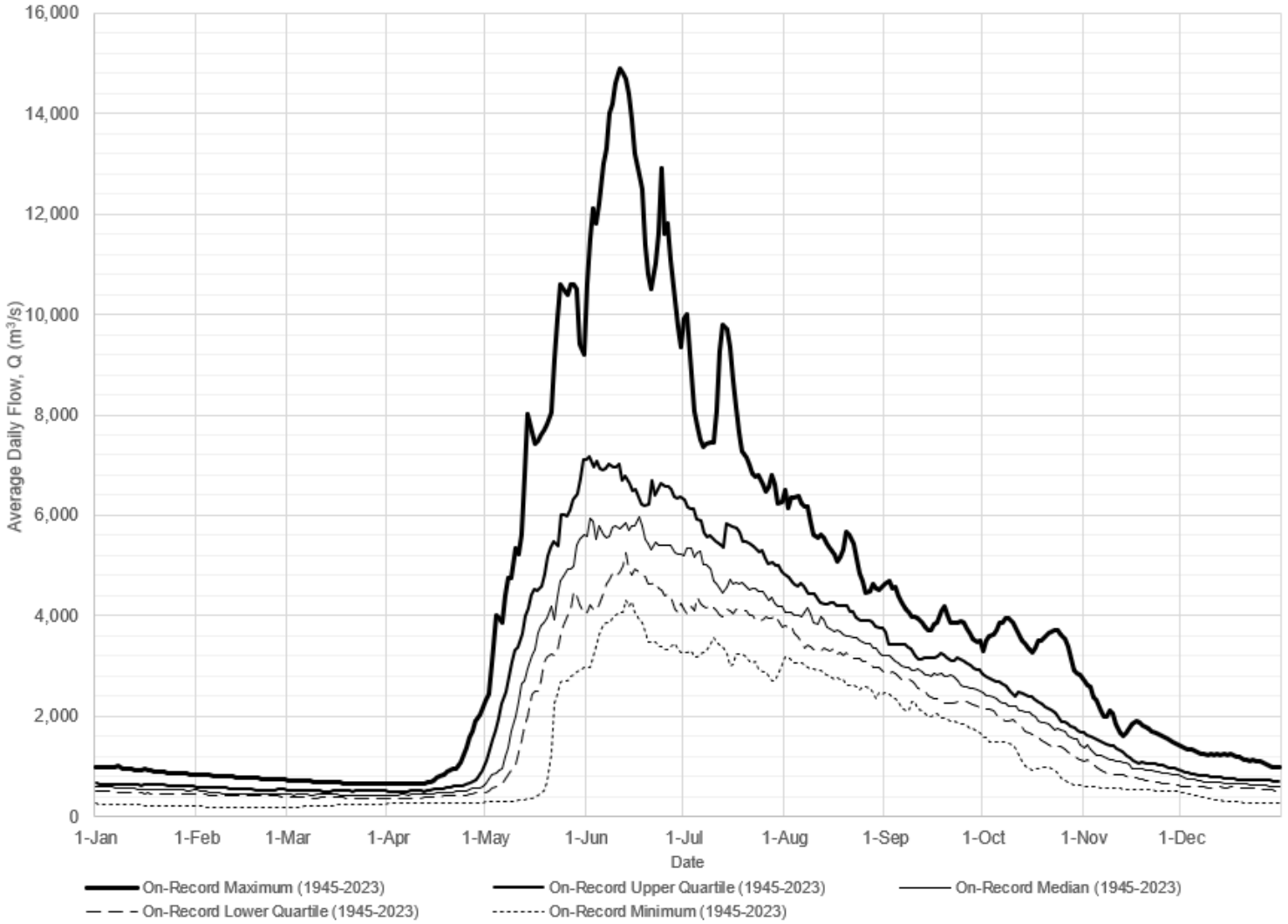

Figure 2-7 Daily Flow Statistics for All Years on Approved Data Record (1945 – 2023) at WSC Station 09EB001 – Yukon River at Dawson

2.3.3 Flood and Ice Processes

2.3.3.1 Freeze-Up

The Yukon River along Dawson City typically freezes over in late November or early December. The George Black Ferry (which carries passengers and vehicles across the Yukon River) typically stops operation in mid-October (dependent on weather conditions) and ice cover must be established before the ice bridge can be operational. This means that public access from downtown Dawson City to West Dawson (North Klondike Highway to Top of the World Highway) is not provided during the freeze-up period.

Local community members have described ice pieces floating past town until they lodge, at which point the ice coverage grows upstream. These community reports confirm a process typical of freeze up in large rivers: frazil ice, dislodged border ice, and potentially frazil pans floating down the river until a bank-to-bank ice cover (from some sort of resistance) forms, at which point ice coverage grows upstream through frontal progression. Some local community members suggested that snowfall in the late fall/early winter adds to the “slush” in the river, which helps to form the initial lodgement that initiates ice coverage.

Often these initial lodgements have been downstream of Dawson City allowing ice coverage through town. Turcotte (2020) and Turcotte et al. (2024b) documents that initial congestion/lodgement at 100 km downstream of Dawson City, 2 km downstream of Dawson City, 2 km upstream of Dawson City, and 120 km upstream of Dawson City followed by frontal progression upstream from each of these locations. In 2023 the initial lodgement occurred 2 km upstream of town meaning an open, frazil generating lead persisted through town through the winter of 2023–2024.

While freeze-up jams can happen in the Yukon River, Stantec did not find examples of these events causing notable flooding. However, freeze-up jams and associated processes can have carryover effects on ice cover characteristics and breakup ice jamming risk the following spring. For example, Jasek (1998) suggested that large and frequent fluctuations in temperatures during freeze-up in the fall of 1997 (freeze/thaw cycles resulting in freeze up jams/ice accumulation) may have led to thicker/higher volumes of ice in the Yukon River. Jasek (1998) suggests that this may have contributed to the severity of the jamming in 1998 when other indicators (mild winter, below average snowpack, early spring warming) were projecting an uneventful breakup event.

2.3.3.2 Ice Cover

In most years, when initial ice lodgement occurs downstream and frontal progression moves upstream through town, the Yukon River is ice covered through Dawson City throughout the winter. YG builds and maintains an ice bridge from late December to April (weather dependent) which allows vehicles and pedestrians to cross from downtown Dawson City to West Dawson. Ice cover through Dawson City did not form to allow an ice bridge in the winter of 2023–2024.

Regarding ice cover thickness on the Yukon River:

- Local community members have indicated that ice thickness can range from 1.0 to 1.5 m near Dawson City.
- A WSE and ice thickness survey was completed by the University of Alberta in March of 1983 and is published in Gerard et al. (1992); width-averaged ice thicknesses at four separate cross-sections through Dawson City ranged from 0.98 m to 1.41 m.
- M. Jasek measured ice thicknesses of 0.74 to 1.04 m at the downstream end of Dog Island in the spring of 1994 and 1995, and also measured ice thicknesses of 0.9–1.7 m in Dawson City in spring of 1995 following an unusual freeze up jam in the fall of 1994.
- Janowicz (2010) documented ice thickness measurements in 2009 following a colder-than-average winter of 1.49 m and 1.23 m.
- The ice thickness in Photograph 80 in Appendix A (from Yukon River breakup in 2017) is visually estimated to be 1.0 to 1.5 m.
- Photograph 81 through Photograph 124 in Appendix A documenting historical ice jam flooding generally support ice thicknesses of 1.0 to 1.5 m.

Given the above, the spring Yukon River ice cover thickness can be reasonably assumed to be 1.0 to 1.5 m.

2.3.3.3 Breakup

Breakup on the Yukon River is usually initiated by rising temperatures and snowmelt in the spring (Gerard et al. 1992). The Yukon River is often considered in two separate reaches regarding breakup processes: the Yukon River upstream of the White River confluence typically experiences thermal breakup while the Yukon River downstream of the White River confluence is at higher risk of dynamic breakup. This is thought to be due to the influence of the White River, whose catchment area along the Coast mountains has higher precipitation, a milder climate, and melts/breaks up earlier than the Yukon River and its other tributaries and provides those inputs to the Yukon River (Janowicz 2010; Gerard et al. 1992).

From the White River confluence to just upstream of Dawson City, the Yukon River is characterized by multi-channel morphology. This morphology leads to jams at a wide range of locations that are difficult to predict, but are also generally minor in nature and do not typically result in extreme flooding (Turcotte et al. 2024b).

Review of flight data (map scans, flight plots) provided by YG and by M. Jasek and local community member feedback indicates that the Klondike River usually initiates local breakup through Dawson City. An example of this in 2023 is illustrated in Photograph 81 in Appendix A. Ice from this local breakup often creates a small jam at or near Moosehide/Dog Island/Sister Island, however this appears to be a minor

jam and often releases before causing flooding of consequence for Dawson City or Moosehide based on community reports.

At Dawson City, the official breakup dates and times (as identified by the movement of a tripod set on the ice in town) have been monitored as part of an annual betting pool operated by the IODE Dawson Chapter since 1896 (Mammoth Geospatial 2024; IODE Dawson Chapter 2024). Figure 2-8 provides a histogram of breakup dates recorded by this tripod movement method since 1896. The earliest breakup day within the record was April 23 in both 2016 and 2019. The latest breakup day was May 28 in 1964. With the exception of those three years, the breakup dates have been between April 28 and May 19. It is important to note that the date indicated by the tripod movement method captures the initial ice movement at Dawson City and is not indicative or representative of the dates/times of breakup flood risk.

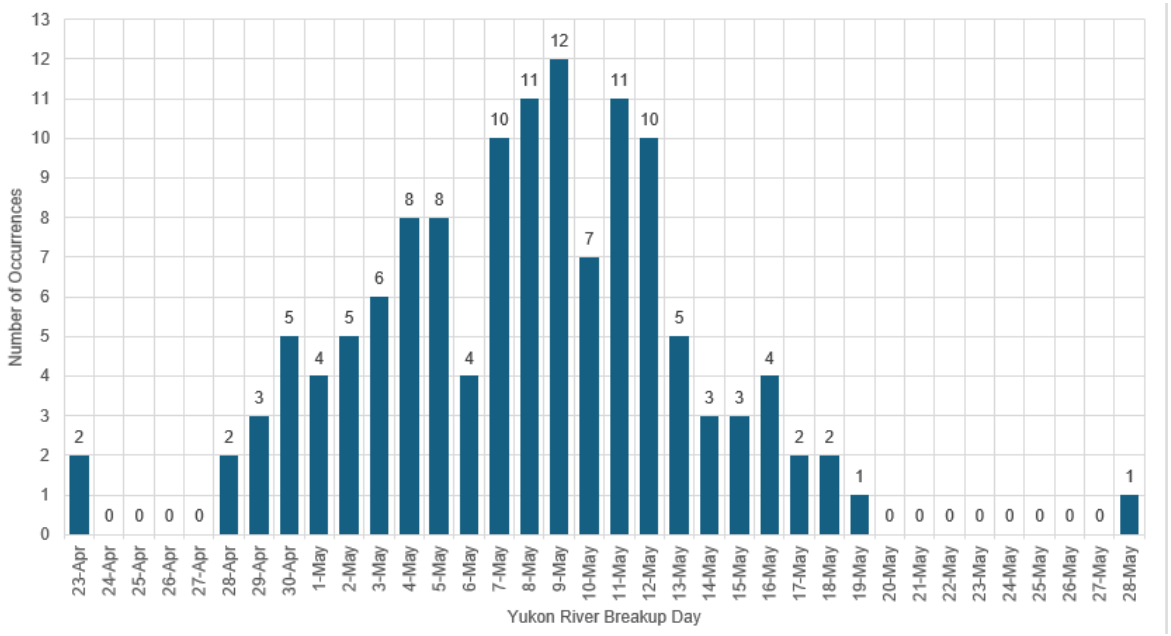

Figure 2-8 Histogram of Yukon River at Dawson Breakup Dates (Mammoth Geospatial 2024; IODE Dawson Chapter 2024)

The Yukon River and its tributaries carry with them a substantial ice supply, meaning the processes following local breakup often drive the annual breakup peak WSE. The morphology of the Yukon River upstream and downstream of Dawson City has notable impact on these breakup processes:

- Dawson City is in a “morphology transition” from a wider multi-channel to a narrower, valley confined single channel with fewer islands.
- Full transition to more single-channel, “canyon-like” morphology with limited floodplain access and steep and high valley walls occurs approximately 11 km downstream of Dawson City, just downstream of Fort Reliance.

- Figure 4.3.1 from Turcotte et al. (2024b) indicates that ice resistance is low or moderate in areas upstream of this single channel morphology (including through Dawson City), and high in this single channel morphology downstream of Dawson City.

- This transition to single channel morphology also means that the ice regime changes. Downstream of Dawson City, small jams are less frequent – and ice runs from upstream sources either i) move through Dawson City unimpeded if ice is clear well downstream of Dawson City or ii) stop/slow against a resistant ice cover or other jam initiating element causing backwater (Turcotte et al. 2024b).

A review of WSE hydrographs provided by YG and M. Jasek, annual breakup reports completed from 2005 to 2016 by R. Janowicz, M. Jasek's experience during river ice breakup flight observations from 1994 to 1998, and feedback from local community members confirmed that elevated water levels during the breakup period can occur from three separate processes/scenarios below. They can occur during the same breakup year but not necessarily occur in each year.

1. Unimpeded ice runs or "javes" – an ice run/jam release from upstream areas moving through Dawson City without significant backwater impacts; stage hydrograph exhibits a smooth "wave-like" pattern. These typically occur when the ice has already broken up within and downstream of the AOI. The javes come from ice jams that have released upstream of the AOI.

2. Impeded ice run/jave with short-lived jamming – an ice run/jam release wave which moves through Dawson City and is impacted by the backwater of a minor downstream jam or a solid downstream ice cover in Reach 3. The ice run is likely supplying a growing jam but the jam releases quickly before becoming fully developed; stage hydrograph exhibits a rapid rise (ice piling up in jam) followed usually by a sharp drop corresponding to the release of the downstream jam. The post-release water level is often below the pre-jave water level but this can sometimes be masked by an increasing snowmelt hydrograph.

3. Fully developed jam – ice forms a fully developed jam downstream of Dawson City; the stage hydrograph typically exhibits a rise in water level followed by a near constant plateau indicating that there was sufficient time for the jam to fully develop. There is an eventual drop in water level from the jam release; water level post-jam is often below the pre-jam water level. These fully developed jams typically have toes that are in single channel and stronger ice downstream of the AOI. Breakup process 3 is less common than breakup processes 1 or 2.

Muirhead et al. (2025) completed a process-specific stage flood frequency analysis (FFA) using 27 years of sub-hourly stage data for the Yukon River at Dawson. This exercise aimed to identify the breakup process which governed WSEs of different AEPs. The study incorporated conditional probability into the statistical analysis, accounting for the likely occurrence of each process. Findings indicated that breakup jam backwater events (process 3) may be governing events more severe than the 10% AEP, while impeded javes (process 2) may govern events less severe than the 10% AEP. Unimpeded javes appear unlikely to be the governing process for the AEPs.

The fully-formed breakup jams associated with process 3 in Muirhead et al. (2025) generally would consist of a jam against a resistant downstream ice cover, as outlined in the breakup sequence from Turcotte et al. (2024b). This means that the resistance of the ice cover downstream of Dawson in a given year is of substantial importance for evaluating annual risk of breakup ice jam flooding for Dawson.

Severe breakup jams on the Yukon River have not impacted Dawson City since the 1979 flood. Part of this may be attributable to the construction of the dike which provides flood mitigation for Dawson City; however, the jam configuration which resulted in the 1979 flood (likely a fully developed jam through Dawson City) has not re-occurred since 1979. The current dike was initiated in the mid-1980s with major works completed in 1987 to raise the dike to its current elevation (Gerard et al. 1992; McCreath et al. 1988). While not a complete record since 1979, none of the 27 years of available breakup period stage data (detailed in Section 3.4) would have overtopped Front Street (low point near King Street/Duke Street of ~319.7 m).

Climate change effects on ice jam flood risks can vary and are difficult to predict with available data and modelling tools (Das and Lindenschmidt 2021; Burrel et al. 2023; Turcotte et al. 2019). Predicted meteorological changes in the Yukon could increase or decrease ice jam flood risk, depending on how various factors occur in a given year. However, the 2023 ice jam event at Forty Mile (approximately 87 km downstream of Dawson City) indicates that jams of this severity are still a risk (Turcotte et al. 2024b).

2.3.3.4 Open Water

Following breakup, flows in the Yukon River and its tributaries continue to increase. In the absence of ice and backwater effects, WSEs in the Yukon River are a direct result of the amount of flow in the river. The Yukon River at Dawson City can have multiple “peaks” in the open water period depending on the timing and magnitude of the peak open water contributions of its tributaries (Yukon River, Pelly River, Stewart River, White River) and broader catchment area. Local community members report being able to approximately track when the major tributaries peak based on Yukon River water levels through the open water period.

Figure 2-9 illustrates peak open water flow date versus the peak open water average daily flow over the period of record (77 years, from 1945 – 1952 and 1956 – 2024, as obtained from GOC 2024a plus gaps filled, as explained in Section 3.3.1.3.1). The earliest peak open water flow date within the record was May 13 in 1950. The latest peak open water flow date was August 29 in 2008. The most common peak open water flow day was June 3, which had a total of 5 occurrences. Of the 77 peak open water flow dates, 51 of them (66%) were in June.

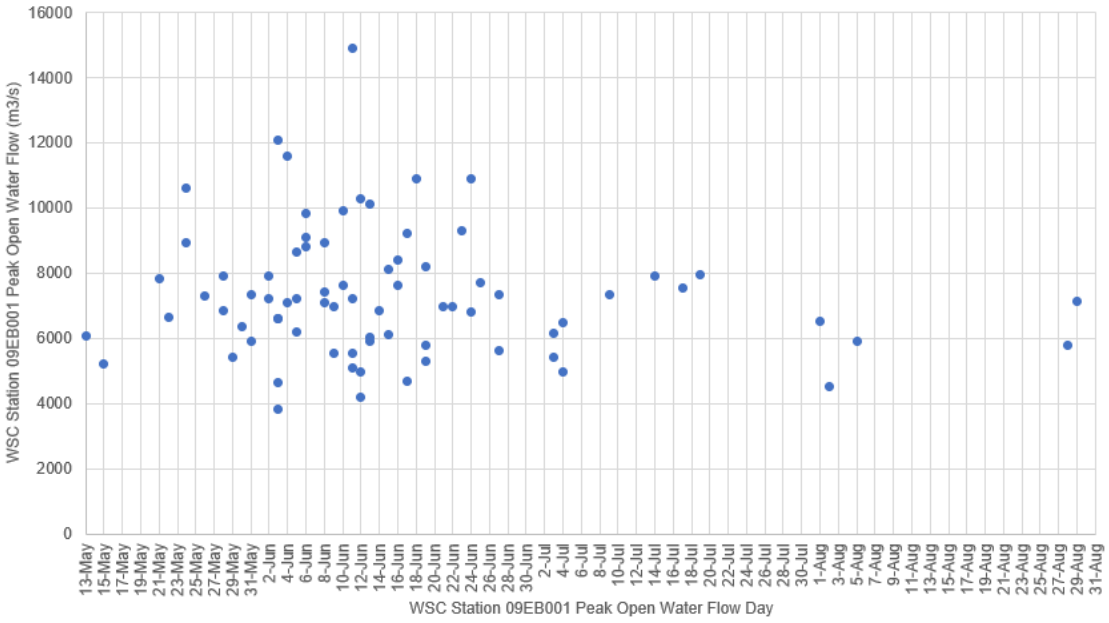

Figure 2-9 WSC Station 09EB001 Peak Open Water Flow versus Peak Open Water Flow Day

2.3.4 Past Flood Events

Dawson City has been subject to numerous flooding events over the period of record dating back to 1898 (Klohn Leonoff 1986; WhatsUp Yukon 2014). The most severe flood events were a result of ice-jamming of the Yukon River (Jasek 1998); however, open water floods have also occurred on the Yukon River (Klohn Leonoff 1986). Orecklin (1981) identified that of the nine flood events pre-dating their report, four were open water flood events (occurring in 1898, 1905, 1906, 1964), and five were floods resulting from ice jamming (1925, 1944, 1960, 1966, 1979). The Whitehorse Daily Star (1979) documents that Dawson City was flooded 22 times between 1898 and 1979, with four of them (1925, 1944, 1966, and 1979) causing considerable damages. The first photographed flood event occurred in 1925 (Photograph 82 to Photograph 89 in Appendix A). Local community members indicated that the near-shore areas of Dawson City used to flood during Yukon River freshet every six to ten years, but the raising of Front Street in the 1960s to function as a dike helped to alleviate this periodic flooding. Front Street, in its raised condition, functioned as the dike for the town until it was overtopped by the 1979 flood, which prompted construction of the current dike.

The Dawson City Museum archives contain numerous photographs of flooding in Dawson City, although dates of the floods are often not specified. Appendix A contains select photographs that were attributed to specific floods: 1925 (ice jamming, Photograph 82 to Photograph 89), 1936 (unknown process, Photograph 82 to Photograph 89), 1944 (ice jamming, Photograph 92 to Photograph 98), 1964 (open water, Photograph 99 to Photograph 101), 1966 (ice jamming, Photograph 102), and 1979 (ice jamming, Photograph 103 to Photograph 124). Detailed discussion of the ice jam floods of 1979 and 1998 are provided below.

2.3.4.1 1979 Ice Jam Flood Event

One of the largest floods on record for Dawson City occurred on May 3, 1979. At the time of this event, the current dike had not been constructed and Front Street was relied upon as the dike for flood mitigation.

Local community members recalled that there was a large snowpack over the winter of 1978–1979 and that it had been warm and had rained for three days in the lead-up to May 3, 1979 (note: GoC 2024b meteorological records for Station 2100402 Dawson A support the elevated temperatures but could not verify rainfall). Local community members recall that on the day prior to the flood (assumed to be May 2, 1979), ice on the Klondike River began to move and “piled up” onto the Yukon River (which had ice cover), with water spilling through/around ice. Community members recalled the ice from the Klondike being “very thick” compared to previous years.

Overnight on May 2–3, 1979, the water levels rose due to ice jamming on the Yukon River. Local community members recall the water level “surging” up and down. Despite efforts by residents to prevent floodwaters from entering the city by constructing a sandbag dike on top of the highway dike, the Front Street dike was overtopped in its low spot near Duke Street (north end of town) and water poured into the community around midnight (Whitehorse Daily Star 1979; Kleon Leonoff 1986). Within 40 minutes, there was reportedly more than 2 m of water at several locations in the city (Whitehorse Daily Star 1979; Orecklin 1981; Jasek 1998). Water and ice damage to buildings and homes was extensive, historical items were washed away, and some structures were seen floating through the city. After the ice jam(s) released, water remained pooled in the city and the existing dike had to be breached so the floodwater could drain back to the Yukon River. Substantial damages (>$2 million in 1979 dollars) were incurred, and a Disaster Assistance Policy was initiated by YG to assist with recovery (Whitehorse Daily Star 1979). No lives were lost in the flood of 1979.

Detailed information related to ice jam head and toe location were not found. This can largely be attributable to the main jam events occurring overnight and attention being focused on emergency response within the town rather than jam monitoring. Continuous water level records through the flood event were not available because the WSC gauge was not operational at the time and other gauges had not been installed prior to the event.

2.3.4.2 1998 Ice Jam Event

In early May of 1998, an ice jam event occurred on the Yukon River. Figure 2-10 provides an annotated stage hydrograph of the event, using data collected by Jasek (1998) and Jasek et al. (2001).

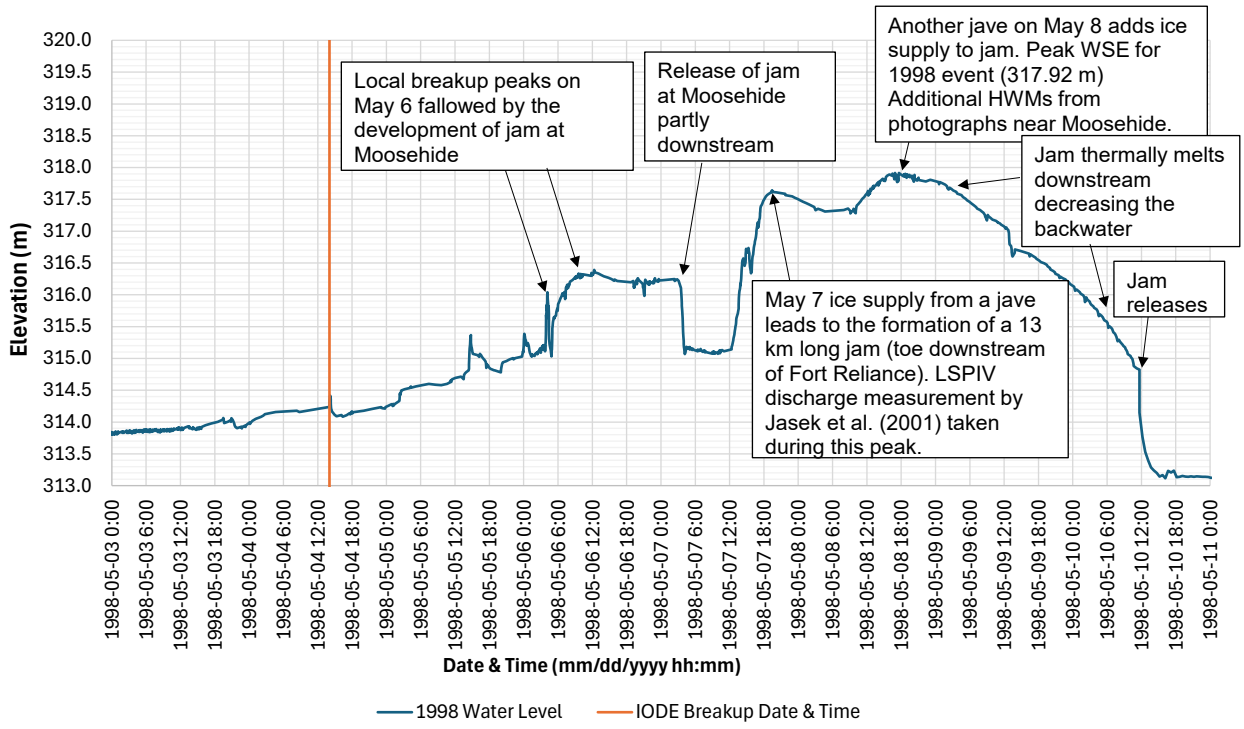

Figure 2-10 Stage Hydrograph of the 1998 Ice Jam Event at WSC Station 09EB001

The official breakup (as indicated by the movement of the tripod) occurred on May 4, 1998 at 14:14. Ice fully moved out from in front of Dawson City on May 6, 1998 and formed a 3 km long jam with the toe near Moosehide and intact ice downstream of the jam (Jasek 1998; Jasek et al. 2001). This was a smaller "local" jam and notable flooding was not reported. At the time, there was predominantly solid ice upstream and downstream of Dawson City (Jasek 1998; Jasek et al. 2001). An overview flight on the evening of May 6, 1998 noted i) multiple jams forming in the river reaches upstream of Dawson City (to Sixtymile), and ii) a reach of relatively competent ice downstream of the Fort Reliance area (Jasek 1998).

Approximately 25 mm of precipitation (rain in lower elevations, snow in higher elevations) fell between the evening of May 6, 1998 and noon on May 7, 1998 and may have initiated the ice movements described below for May 7–8, 1998 (Jasek 1998). A water level drop in the morning of May 7, 1998 was attributed to the movement/release of the Moosehide jam but this could not be confirmed by flights due to cloud cover (Jasek 1998). Around noon on May 7, 1998, ice from upstream reaches moved through Dawson City and jammed downstream, forming a 13 km long jam with the toe located approximately 5.5 km downstream of Fort Reliance (approximately 14.5 km downstream of WSC Station 09EB001) and the head 2 km downstream of Dawson City (Jasek 1998; Jasek et al. 2001). A flight in the evening of May 7, 1998 indicated that the upstream ice had come through town to form this downstream jam with the exception of 7.5 km of ice approximately 48 km upstream of Dawson City (Jasek 1998). This jam caused flooding along the waterfront in Dawson City as well as on islands downstream of Dawson City (Jasek et al. 2001).

In the morning of May 8, 1998, the remaining ice from upstream of Dawson City moved through town and was added to the jam (Jasek 1998; Jasek et al. 2001). This resulted in the peak WSE for the 1998 event (6.00 m on the WSC station datum, 317.92 m in CGVD2013). The jam gradually degraded and shrank, until releasing mid-day on May 10, 1998.

The 1998 ice jam event resulted in the second highest peak WSE within the verifiable instantaneous stage record (1979, 1988–1991, 1995–2005, 2007–2024 as outlined in Section 3.4). Jasek (1998) notes several factors which, in advance of the event, suggested an uneventful breakup was likely: i) mild winter suggesting below average ice cover thickness, ii) below average snowpack, iii) early April warming which would have depleted some of the snowpack, and iv) high degree-days of thaw suggesting thin ice cover would have been weakened. Jasek (1998) hypothesized that the large and frequent fluctuations in temperatures during freeze up in the fall of 1997 (freeze/thaw cycles resulting in freeze up jams and frazil accumulation) may have led to the anecdotally observed thicker ice in the Yukon River, which would explain the severity of the jamming in 1998 when other indicators suggested an uneventful breakup event.

2.3.5 Summary of Dominant Flood Processes

Based on the data and documentation reviewed, it is likely that extreme flood events on the Yukon River within the AOI are governed by breakup ice jam events although elevated open water flows may also cause flooding at less severe AEPs. This assessment is supported by stage FFA analysis completed by Yukon University (2022), which indicated that open water processes are responsible for flooding below the ~15-year return period (~6.6% AEP), whereas breakup ice jams are responsible for flood events above the ~15-year return period. The lowest AEP being mapped in this Project is the 20% AEP (5-year return period) meaning that breakup ice jam and open water flood processes need to be considered in producing the flood hazard maps for the AOI.

Severe breakup jams typically involve ice runs producing a jam against an intact and resistant ice cover downstream of Fort Reliance (in the single channel/canyon-like morphology) in a dynamic breakup scenario. Peak open water flows can happen between late May and late August, however annual peak flows in June are typically the highest across all years; the peak annual open water flows above 10,000 m^3/s occur between late May and the end of June. The observed flood hydrology for the Yukon River at Dawson City does not suggest an appreciable sensitivity to rain-on-snow events or convective summer rainfall events. Rather, open water peak flows are driven by the timing and magnitude of major tributary contributions, which (given their large catchments) are driven by snowpack accumulation and resulting snowmelt timing.

Freeze-up jams have not historically been a driving flood process; however, elevated flows during freeze-up and colder than average winters may increase the probability of severe breakup ice jamming in the following spring.

3 Hydrologic Analysis

The hydrologic analysis undertaken for the Project generally followed the single site flood frequency analysis (FFA) pathway from NRCan (2019a), illustrated in green overtop of the NRCan (2019a) flowchart in Figure 3-1. The sites considered were WSC Station 09EA003 (Klondike River Above Bonanza Creek) and WSC Station 09EB001 (Yukon River at Dawson). The hydrologic analysis produced a suite of annual exceedance probability (AEP) discharges (50%, 20%, 10%, 5%, 2%, 1%, 0.5%, and 0.2%) for both WSC Stations 09EA003 and 09EB001 for breakup and open water conditions, as well as a suite of AEP WSEs (50%, 20%, 10%, 5%, 2%, 1%, 0.5%, and 0.2%) for WSC Station 09EB001.

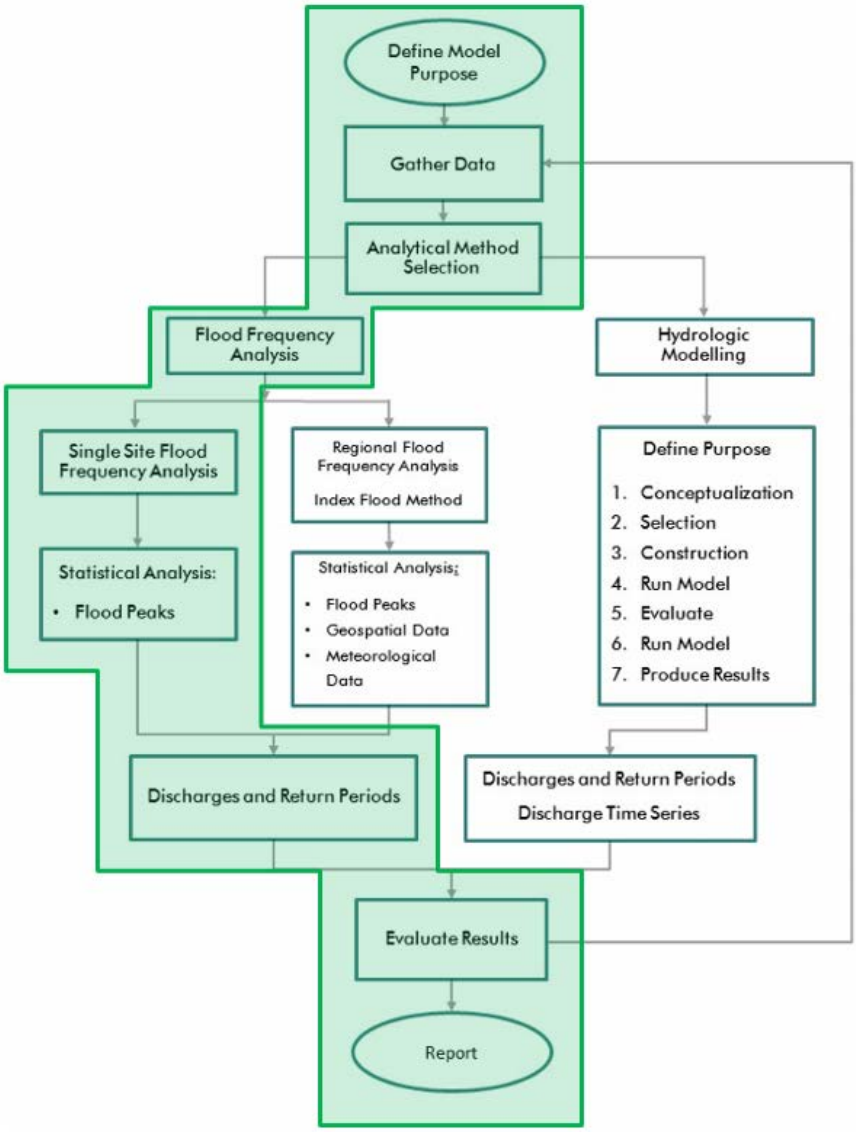

Figure 3-1 Hydrologic Procedures Flowchart from NRCan (2019a)

3.1 Flat Creek – Discharge

Flat Creek is an ungauged large tributary to the Klondike River near the upstream end of the AOI, with a bridge crossing the Klondike Highway approximately 1,500 m upstream of the confluence with the Klondike River. Flat Creek open water flows were estimated using a regional FFA analysis with empirical equations (NHC 2023). The empirical equation applied is a regional regression equation for the Yukon Boreal Region (Table 4.10 in NHC 2023) and includes inputs of drainage area, lake coverage, mean annual precipitation, and median mean annual temperature. The drainage area of the Flat Creek watershed is approximately 790 km² with an estimated lake cover of 2.7 km² (Global Watersheds 2022). Climate normal data from 1991 to 2020 include a median mean annual precipitation of 318 mm and a median mean annual temperature of -3.8°C (GoC 2024b) and were used for estimating the peak instantaneous flows on Flat Creek for various AEPs.

Table 3-1 Flat Creek at Confluence with Klondike River AEP Discharge Estimates

AEP	Peak Instantaneous Discharge (m^3/s)
50% AEP (1:2-year event)	28
20% AEP (1:5-year event)	44
10% AEP (1:10-year event)	56
5% AEP (1:20-year event)	68[1]
2% AEP (1:50-year event)	86
1% AEP (1:100-year event)	100
0.5% AEP (1:200-year event)	115
[1] Discharge estimated through interpolation of calculated values for 10%, 4% (not presented), 1% and 0.5% AEP events.	

3.2 Klondike River Above Bonanza Creek - Discharge

Discharge data series preparation and discharge FFAs were completed for WSC Station 09EA003. Peak (maximum) annual discharges occurred during the open water period for the years in the documented WSC record. Following a review of the annual hydrographs, open water peak discharges occur in response to spring snowmelt freshet (approximately 46 of 58 years in the record) and in response to significant rainfall in the Klondike River watershed within the snowmelt period (approximately 2 of 58 years in the record). The maximum daily average flow occurring on each day (in any year) is provided in Figure 2-2.

3.2.1 Data Series Preparation

A hydrological assessment was completed to determine the breakup and open water flood frequency estimates at WSC Station 09EA003. Single station, instantaneous peak annual discharge FFAs were used to estimate the suite of AEP (50%, 20%, 10%, 5%, 2%, 1%, 0.5%, and 0.2%) discharges for both

flood processes. The identification of peak flow estimates was based on historically available data, including WSC reported flows, water level (stage) data (Table 2-1), and meteorological data.

From 1966 to 1995, annual hydrographs were developed using daily average discharge and daily average stage data (when available). The hydrographs were reviewed to determine the timing and magnitude of peak daily open water discharge. Available daily stage data were used to support identification of the annual breakup timing. From 1996 to 2024, sub-daily (i.e., hourly, 15-minute, or 5-minute interval) stage data were used to produce improved estimates of the annual breakup period discharges (Section 3.2.1.2).

Meteorological data were used to support the identification of the timing of breakup events, by reviewing the temperature and precipitation regimes during the breakup period (GoC 2024b). Daily mean temperature data were obtained from three available Environment and Climate Change Canada (ECCC) stations: Dawson (ECCC Station 2100400), Dawson A (ECCC Station 2100402) and Dawson (ECCC Station 2100LRP). The three stations are located within the Dawson area and deemed representative of the local meteorological conditions. For each year of the dataset, the day and magnitude of the maximum open water discharge, and the maximum discharge during the breakup period were identified at WSC Station 09EA003 (GoC 2024a).

3.2.1.1 Peaking Factor

Complete datasets of peak instantaneous breakup and open water discharges were not available for WSC Station 09EA003. WSC annual instantaneous peak open water flows were available for 43 years of the 59-year data set and were used as inputs for the FFA. For the 16 years when the annual instantaneous peak flows were not available, daily discharges were scaled up to an instantaneous flow using the station-specific peaking factor. The dataset of annual peak instantaneous flows was used as the inputs for the FFA at WSC Station 09EA003.

Instantaneous peak discharges during ice-covered conditions were limited to a few years and were not used to develop a seasonal (i.e., breakup) peaking factor. The station-specific peaking factor for open water flows was calculated using the annual ratio between daily maximum discharge (*QD*) and instantaneous peak discharge (*QP*) for open water conditions for 40 years between 1974 and 2024 for the same hydrologic event. This annual ratio was used to estimate the station-specific peaking factor for the period of record when both datasets overlapped, as shown in Equation 1:

$$QP = a * QD \quad (1)$$

A peaking factor (*a*) of 1.09 was calculated for the Klondike River as the average of the annual peaking factors, plus one standard deviation (Appendix B). The addition of one standard deviation is a common statistical approach to produce a more conservative peaking factor estimate than only using the average. This method was determined to be slightly more conservative than using a linear regression model.

3.2.1.2 Breakup

The timing and magnitude of maximum discharge during the annual breakup were estimated using available daily or sub-daily stage data. The breakup period extended from breakup initiation to when the WSC station was no longer at risk of breakup ice jams as indicated by the recorded stage data not being affected by ice. From 1966 to 1995, the timing and peak daily discharge during the breakup period were identified directly from the hydrographs developed with daily data.

From 1996 to 2024 available sub-daily stage data were used to more precisely determine the breakup period start and end dates/times. During this period, corresponding WSC sub-daily discharge data was not available and daily discharge data was deemed potentially unreliable due to ice backwater effects on the underlying stage data. Improved estimates of the peak discharge during the breakup period were made using the first non-ice affected (open water) stage immediately following the end of the breakup period. This technique was modified from recent research approaches on WSC stage and discharge records at ice-affected rivers to produce improved estimates of discharge (e.g., Turcotte 2022; Turcotte and Rainville 2022; Turcotte and Nafziger 2021). The first non-ice affected stage reading was converted to a discharge using the appropriate WSC open water rating curve as a surrogate for the maximum instantaneous discharge during the breakup period. The use of an open water stage was required to avoid overestimating the breakup discharge from the use of an ice backwater-affected (elevated) stage reading.

Kovachis et al. (2017) acknowledge that flows during the breakup period are not constant due to variable runoff as well as ice runs/javes, but available evidence suggests that these variable flows do not have a large influence on the equilibrium state of breakup ice jams. Stantec's approach of adopting the end of breakup period flow for the breakup annual maximum series is considered reasonable and appropriate for the purposes of this Project.

Breakup period daily and instantaneous maximum data series are provided in Appendix B.

3.2.1.2.1 Gap Filling Technique

The timing and magnitude of most breakup peak discharges were determined directly from the annual daily data, sub-daily data, or hydrographs. However, for the eight years that breakup period and discharge could not be confidently identified from the hydrographs, a gap-filling approach was used.

An Accumulated Degree Day (ADD) threshold specific to breakup events at WSC Station 09EA003 was developed to estimate the end of the breakup period and the associated discharge estimate. Gap filling was generally required for years with smooth transitions between ice-covered and open water conditions. A dataset was developed of the ADD at the end of the annual breakup period for each year within the data record (Beltaos et al. 2013). A total of 50 ADD values at the end of the breakup period were identified using the available daily and sub-daily stage data. A minimum ADD of 50°C-days and a maximum of 137°C-days was estimated at the end of the annual breakup period. The 90th percentile of these ADD values (105°C-days) was selected as a conservative threshold for estimating the timing of the end of the breakup period. For the eight years when the breakup timing could not be directly identified,

the maximum WSC daily discharge prior to the day that the ADD threshold was reached was selected as the breakup period discharge.

The result of this breakup period assessment for WSC Station 09EA003 is a dataset of daily discharges from 1966 to 1995, scaled up to instantaneous breakup period discharges using the station-specific peaking factor developed in Section 3.2.1.1 for open water conditions. From 1996 to 2024, instantaneous annual maximum breakup period discharges were estimated using the sub-hourly stage data and the WSC rating curve. A total of 58 annual instantaneous breakup period discharges were identified between 1966 and 2024 (Appendix B). The end of the breakup period ranged from April 19 (2019) to May 16 (1985), with a median of May 4.

3.2.1.3 Open Water

A data series of annual maximum open water daily discharges was extracted for WSC Station 09EA003 from 1966 to 2024 (GoC 2024a). Gap filling during the open water period was not required. For years that WSC reported an annual peak (maximum) instantaneous discharge during the open water period (43 of 59 years), this flow was used directly in the FFA input dataset, and scaling up of daily averaged flows was not required. For the remaining years with only daily average discharge data (16 of 59 years), the station-specific peaking factor was used to scale the daily average discharge data up to an instantaneous discharge. The timing of peak annual open water events ranged from May 4 (2009) to July 9 (1979) with a median of June 2.

3.2.2 Flood Frequency Analysis

Single station FFAs for breakup and open water conditions followed the methods described by NRCan (NRCan 2019a) using the datasets of annual maximum instantaneous discharge for both breakup and open water conditions.

The stationarity of the annual maximum datasets for the two flooding mechanisms during the period of record were assessed to identify land use changes, development in the watershed and climate change impacts. The Kendall stationarity test did not identify a trend at a significance level of 5% and thus both datasets are considered stationary.

Statistical tests on the homogeneity of the annual flood discharges for both open water and breakup were completed using a Wilcoxon test by subdividing each dataset and testing that the averages of the datasets were equal. The tests for homogeneity accepted that the averages of the subdivided sample sets were equal at a significance level of 5%.

Statistical tests on the independence of both datasets were completed to verify that the records of peak flows were independent random variables, and the datasets were determined to be independent at a confidence level of 5% using the Wald-Wolfowitz test. The statistical tests were completed using built-in options in HYFRAN-PLUS Version 2.2 statistical software.

The Annual Maximum method was selected for breakup and open water data FFAs on the Klondike River. Separate Annual Maximum FFAs for each flooding process FFAs was deemed an appropriate approach for estimating inputs for hydraulic modelling to determine flood extents for the dominant flooding processes along the Klondike River.

FFAs were completed using HYFRAN-PLUS software for fitting several distributions to the breakup and open water annual maximum instantaneous discharge datasets. The log-Person Type III (LP3) distribution is recommended by the USGS as the basic distribution for estimating the flood flow frequency curve (USGS 2019) and was the selected distribution for the FFAs. The goodness of fit was checked for a range of distributions from different distribution classes, including LP3, Inverse Gamma, Gumbel, Gamma, Pearson Type 3, Exponential and Generalized Extreme Values to provide general validation of the fit of the selected LP3 distribution. The LP3 distribution provided sufficient goodness of fit for the FFAs. Instantaneous discharges for the suite of AEPs are provided in Table 3-2 for breakup and open water. The LP3 distribution plots for breakup and open water conditions are provided in Figure 3-2 and Figure 3-3**,** respectively. Distribution plots for alternate distributions are provided for reference in Appendix B.

Table 3-2 WSC Station 09EA003 FFA results for Breakup and Open Water

AEP	Breakup		Open Water	
	Peak Instantaneous Discharge (m^3/s)	**95% Confidence Interval (m^3/s)**	**Peak Instantaneous Discharge (m^3/s)**	**95% Confidence Interval (m^3/s)**
50% AEP (1:2-year event)	146	122 – 170	412	378 – 446
20% AEP (1:5-year event)	227	194 – 260	534	484 – 585
10% AEP (1:10-year event)	276	218 – 335	616	544 – 688
5% AEP (1:20-year event)	320	225 – 414	696	593 – 798
2% AEP (1:50-year event)	369	n/a[1]	801	644 – 958
1% AEP (1:100-year event)	403	n/a[1]	882	673 – 1,090
0.5% AEP (1:200-year event)	433	n/a[1]	964	695 – 1,230
0.2% AEP (1:500-year event)	470	n/a[1]	1,080	713 – 1,440
[1] Confidence interval not provided by HYFRAN at the 95% confidence level				

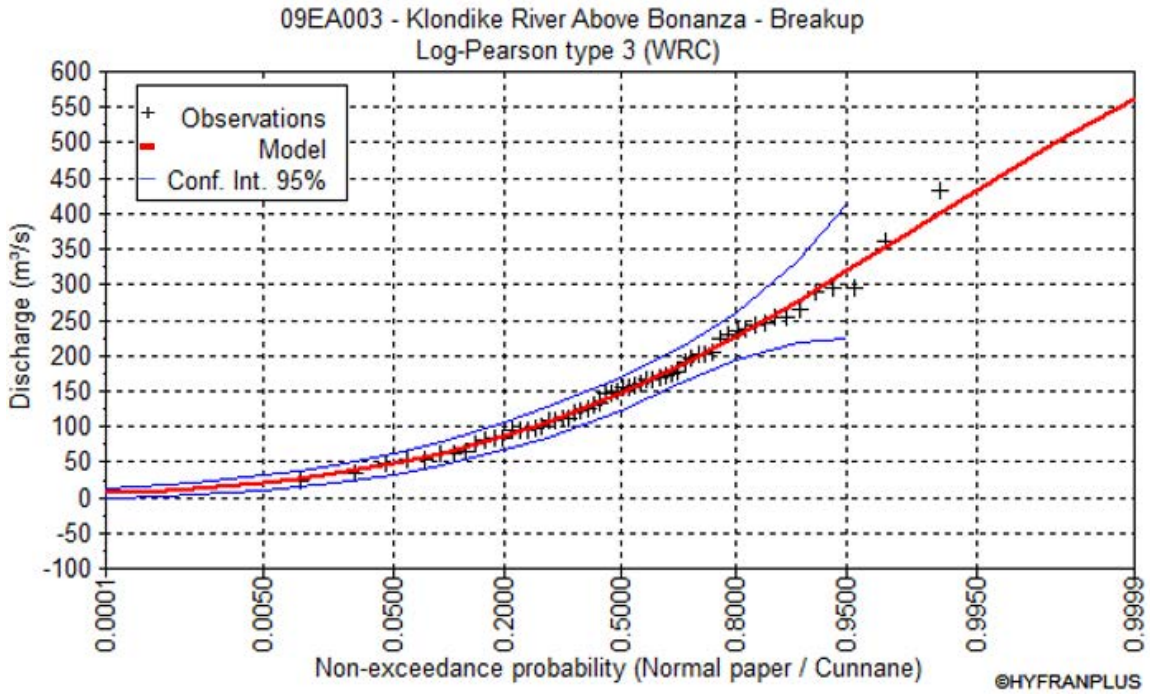

Figure 3-2 WSC Station 09EA003 Breakup Discharge Flood Frequency Plot (LP3-WRC Distribution)

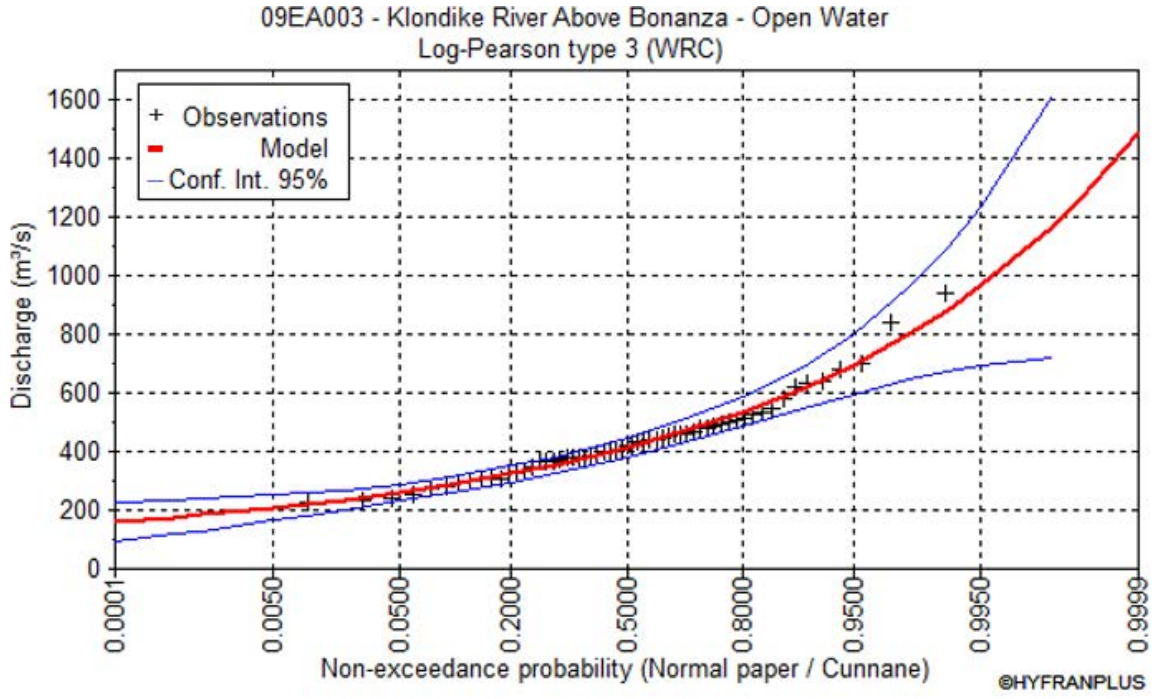

Figure 3-3 WSC Station 09EA003 Open Water Discharge Flood Frequency Plot (LP3-WRC Distribution)

The breakup and open water record lengths of less than 60 years at WSC Station 09EA003 is less than some of the extrapolated AEPs that have been selected. A common rule is to limit extrapolating to AEPs to double the length of the available dataset (NRCan 2019a). Given the project requirements of determining design flows of AEPs down to 0.5% and 0.2%, flow estimates have been provided but should be interpreted with additional caution as the underlying dataset record length is relatively short. The availability of a hydrometric dataset that is at least half the length of a 0.2% AEP would require a data record that is 250 years long.

3.2.3 Comparison to Previous Studies

Three recent FFA studies for the Klondike River Above Bonanza Creek were made available to Stantec for review and comparison. Stage-based FFAs at WSC Station 09EA003 were completed by Morrison Hershfield (2022) and Yukon University (2022). The Morrison Hershfield (MH) FFA considered combined peak instantaneous open water and breakup stages, along with separate FFAs for each flooding process. Open water peaks in MH's analysis were limited to 1980 to 2022. The FFA completed by Yukon University used WSC data from 1970 to 2022 and considered freeze-up, breakup and open water flooding events and provided a combined stage FFA, along with curves for each flooding process. A third study by Turcotte et al. (2021) estimated the 1:200-year open water flow to be 970 m³/s (within 5% of the corresponding discharge for this Project).

WSC's rating curve #17 was used to convert the results of the Morrison Hershfield (2022) and Yukon University (2022) open water stage FFAs to discharges to allow for a comparison between the results (Table 3-3).

Table 3-3 WSC Station 09EA003 Open Water Discharge FFA Results Comparison to Previous Studies

	Open water FFA instantaneous discharge (m³/s)			
	Morrison Hershfield (2022) [1]	**Yukon University (2022) [1]**	**Turcotte et al (2021)**	**This Project**
50% AEP (1:2-year event)	420	386	-	412
10% AEP (1:10-year event)	615	-	-	616
5% AEP (1:20-year event)	685	781	-	696
2% AEP (1:50-year event)	765	-	-	801
1% AEP (1:100-year event)	830	-	-	882
0.5% AEP (1:200-year event)	890	1,270	970	964
[1] Discharges calculated using applicable study's stage FFA results and WSC Station 09EA003 rating curve #17				

The results of these three FFAs demonstrate general agreement, with Yukon University being the most conservative for the 5% and 0.5% AEP open water discharges. The current Project is slightly more conservative than the MH study for the AEPs. The MH study excluded data from 2023 and data prior to 1980, including three of the highest instantaneous open water flows: 2023 (938 m³/s), 1972 (679 m³/s) and 1975 (577 m³/s). The current study has a nearly continuous dataset from 1966 to 2023. Temporary removal of the 2023 annual peak and the data prior to 1980 from this Project's FFA-discharge

dataset to match the MH dataset results in a 0.5% AEP discharge of 880 m³/s which is comparable to the corresponding Morrison Hershfield (2022) discharge of 890 m³/s. Therefore, the difference in these AEP discharges can be attributed to differences in the length of the dataset, interpretation of the historic hydrographs and minor differences with the stage-discharge relationship modelled by WSC rating curve #17.

To compare with Yukon University (2022), the length of the datasets was reviewed. The current Project's dataset includes four additional peak annual open water points (1966 to 1969), but peak flows during this period are moderate and their removal do not explain the difference between the FFA results. The Yukon University study used a Gumbel distribution for their FFA. Fitting Yukon University's open water dataset to a LP3 distribution (a statistically accepted distribution and aligns with the selected distribution for the current Project), results in a reduced 0.5% AEP discharge of 1,055 m³/s (modified analysis being 9% less conservative than Yukon University). The remaining difference in these AEP discharges is due to differences in the stage-discharge relationship modelled by WSC rating curve #17**.**

Overall, the FFA results determined as part of this Project are deemed to be robust and appropriate for use as inputs for hydraulic modelling to produce flood maps for the AOI.

3.2.4 Flow Changes within AOI

There are several notable tributaries to the Klondike River within the AOI. From downstream to upstream, these tributaries are: Bonanza Creek, Hunker Creek, Rock Creek, North Klondike River, and Flat Creek. The single station FFAs provide an estimate of the AEP flows for the suite of AEP events at WSC Station 09EA003, located approximately 600 m upstream of the Bonanza Creek confluence with the Klondike River. FFA results at the WSC station are appropriate for use on the reach of the Klondike River between Bonanza Creek and Hunker Creek.

The drainage area contributing to WSC Station 09EA003 is 7,810 km² (GoC 2024a). Comparatively, near the upstream limit of the AOI, upstream of the Flat Creek confluence, the drainage area of the Klondike River is reduced to approximately 4,600 km². Therefore, changing AEP flows throughout the AOI to account for increases/reductions in drainage area was required.

The reduced discharge on the Klondike River upstream of large tributaries ($Q_{ungauged}$) due to the reduced drainage area ($A_{ungauged}$) was estimated using a basin drainage area scaling technique (NHC 2023; Watt 1989) based on the drainage area at WSC Station 09EA003 (A_{gauged}) and the AEP design flows (Q_{gauged}) using Equation 2:

$$\boldsymbol{Q_{ungauged} = Q_{gauged} * \left(\frac{Area_{ungauged}}{Area_{gauged}}\right)^{n}} \quad (2)$$

The scaling exponent, *n*, was calculated for the Klondike River watershed using open water FFA results for two stations with sufficient overlap in the annual open water peak flow dataset for 5%, 1% and 0.5% AEPs (WSC Station 09EA003 as in Section 3.2.2 and WSC Station 09EA004 completed separately, not presented). This exponent was calculated to be between 0.78 and 0.87 for the range of AEPs. Exponents between 0.5 and 2.0 are considered appropriate (NHC 2023; Watt 1989). Regional estimates of the scaling factor for the flow regions within the Klondike Valley are 0.88 to 0.99 (NHC 2023) and thus

the lower calculated exponents are considered slightly more conservative for estimating the flows along the Klondike River. Table 3-4 summarizes the drainage areas for the various reaches and the corresponding basin drainage area scaling factors used for adjusting the AEP flows from WSC Station 09EA003.

Table 3-4 Klondike River Flow Changes At Large Tributaries

	Flow Change Locations					
	Downstream of Bonanza Creek	**WSC Station 09EA003 (Klondike River Above Bonanza Creek)**	**Upstream of Hunker Creek**	**Upstream of Rock Creek**	**Upstream of North Klondike River**	**Upstream of Flat Creek**
Drainage Area (km^2)	8,050	7,800	7,500	6,900	5,400	4,600
Basin Drainage Area Scaling Factor 5% AEP	1.02	-	0.97	0.91	0.75	0.66
Basin Drainage Area Scaling Factor 1% AEP	1.03	-	0.97	0.90	0.73	0.64
Basin Drainage Area Scaling Factor 0.5% AEP	1.03	-	0.97	0.90	0.73	0.63

By way of adopting different AEP discharge estimation methods on the Klondike River and Flat Creek, the difference between the discharge in the Klondike River upstream of Flat Creek and downstream of the Flat Creek will not equal the Flat Creek discharge for a given AEP. However, the methods chosen for each river are considered the appropriate methods, based on the data available at each river.

3.3 Yukon River At Dawson - Discharge

Discharge data series preparation and discharge FFAs were completed for WSC Station 09EB001. Peak annual discharges at WSC Station 09EB001 occurred during the open water season for the years in the available discharge record. Most of these peaks occurred during spring snowmelt freshet (estimated 32 of 54 categorized peaks in the record), generally from mid-May to mid-June. Occasionally, peak open water conditions occur later in summer when elevated flows respond to storm events producing significant rainfall in the watershed (estimated 22 of 54 categorized peaks in the record). The maximum daily average flow occurring on each day (in any year) is provided in Figure 2-7.

3.3.1 Data Series Preparation

A hydrologic analysis was completed to determine the breakup and open water FFA estimates at WSC Station 09EB001 using similar methods as for the Klondike River (Section 3.1.1), including the adoption of the annual maximum approach for identifying the timing and magnitude of the peak flows. FFAs were used to estimate the suite of AEP (50%, 20%, 10%, 5%, 2%, 1%, 0.5%, and 0.2%) discharges for breakup and open water flooding processes. The identification of peak flow estimates is based on historically available data, including peak water level (stage), WSC estimated flows (Table 2-2), and meteorological data (Section 3.2.1).

3.3.1.1 Peaking Factor

Using the same peaking factor calculation method outlined in Section 3.2.1.1 with eight concurrent daily maximum discharges and instantaneous peak discharges, a peaking factor of 1.02 was estimated at WSC Station 09EB001 (Appendix B). The use of the average of these annual peaking factors plus one standard deviation was slightly more conservative than a linear regression model.

Available annual instantaneous flows recorded by WSC were used in the FFA at WSC Station 09EB001; peak daily discharges were scaled up to peak instantaneous flows using the station-specific peaking factor as required. The dataset of peak instantaneous flows was used in the FFA at WSC Station 09EB001 (Appendix B).

3.3.1.2 Breakup

The methods for delineating the start and end of the breakup period for WSC Station 09EB001 were the same as those used for WSC Station 09EA003 (Section 3.2.1.2). From 1945 to 1980, the timing and peak daily discharge during the breakup period was identified for 32 years directly from the hydrographs developed with daily data.

The identified breakup period start/end dates differ from the alternate “breakup dates” provided by Mammoth Geospatial (2024) and IODE Dawson Chapter (2024) and presented in Section 2.2.3.3. These alternate breakup dates are informed by the movement of a tripod on Yukon River ice surface and are loosely associated with the onset of the breakup period. The method used in this Project is substantially more detailed and better suits the requirements of a breakup single station FFA.

For 1996 and 2015 to 2023, available sub-daily data were used to more precisely determine the start and end of the breakup period. Using the same method as for the Klondike River (Section 3.2.1.2), the first non-ice affected (open water) stage immediately after the breakup period was translated to an instantaneous discharge using the appropriate WSC rating curve. This technique was used for nine years within the dataset.

Gap filling using the ADD threshold was not required for WSC Station 09EB001, and the breakup discharges were determined using daily discharge data or sub-daily stage data. The result of the above methods was an instantaneous annual maximum breakup period dataset with 50 years of data for WSC Station 09EB001 from 1945 to 2024. Gap filling of discharges during the breakup period using a regional analysis was not attempted during these years. The end of the breakup period ranged from April 27 (2016) to May 25 (1964), with a median of May 11.

3.3.1.3 Open Water

Annual instantaneous open water discharges were available for WSC Station 09EB001 for 8 of 77 years in the data record. A data series of annual maximum open water daily discharges was extracted for 28 of 77 years between 1945 and 2024 when the timing and magnitude could be determined directly from the hydrographs (Appendix B). FFAs were completed using datasets of annual maximum instantaneous discharges.

3.3.1.3.1 Gap Filling Techniques

A continuous gap is present in the WSC discharge dataset from 1981 to 2020 and from 1997 to 2014 in the WSC stage dataset. To fill these gaps in the discharge record (1981 to 2021), a regression analysis and a WSC rating curve were used during the open water period, as described below.

Gap filling with no available open water discharge data (1981 to 2020)

WSC Station 09EB001 includes a data gap from 1981 to 2020 when discharge data was not estimated at the station (including an 18-year period from 1997 to 2014 when WSC did not operate the station and limited stage data was recorded by YG WRB). To fill this gap during open water conditions, a regression analysis was completed using data from USGS station 15356000 (Yukon River at Eagle Alaska). This USGS station is located approximately 160 km downstream of Dawson City and provides a discharge dataset from 1950 to 2024. Data reported at the USGS station prior to 1959 was excluded from the analysis due to poor data quality in the daily discharge time series.

A regression analysis was completed to estimate the relationship between annual daily maximum open water discharge at WSC Station 09EB001 and USGS Station 15356000 using overlapping data from 1959 to 1980 and 2022 to 2023. To align the peak flows occurring in Dawson City and downstream at Eagle, Alaska, a one-day delay was applied to the USGS data. This delay was estimated using the timing of peak annual events and was supported by flow velocity data collected during the June 4, 2024 open water discharge measurement on the Yukon River at Dawson City and the distance between the two stations. For example, the peak annual open water discharge at WSC Station 09EB001 in 1980 was recorded on June 13; the discharge one day later (June 14) at USGS Station 15356000 was used in the regression analysis.

The regression analysis had an R^2 of 0.99 (intercept of zero). An improved statistical technique was used to quantify the statistical fit of the observed data versus modelled data using the residual values using the Nash-Sutcliffe efficiency. For this regression, the efficiency was 0.89, which is considered a well-fitting model. The open water regression relationship is shown in Equation 3:

$$09EB001\ discharge = 0.9054\ (USGS\ 15356000\ discharge) \quad (3)$$

The regression analysis equation was used to fill gaps at the 09EB001 station between 1981 and 2020 (Appendix B). The timing of peak annual open water events was determined from the annual USGS stage and discharge hydrographs, while verifying that the event occurred during the open water period.

Gap filling with new WSC rating curve (2021)

In April 2015, WSC Station 09EB001 resumed recording continuous stage data. WSC updated the open water stage-discharge relationship rating curve at 09EB001 in January 2022 with rating curve #11 provided by WSC staff (Equation 4).

The equation of the curve is:

$$discharge = 862.437 * (stage + 0.595)^{1.312} \quad (4)$$

Rating curve #11 was used to convert the 2021 daily maximum stage data to estimated daily maximum discharge of 7,433 m³/s (Appendix B). For reference, the USGS regression estimates a similar daily maximum discharge of 7,384 m³/s, verifying the reliability to the regression. WSC's open water rating curve #10, approved for use from January 1986 to December 2019 was not used to convert stage data to discharge from 1981 to 1995 or 2015 to 2020 as it was noted to be a "…not well defined curve. Turned off due to unreliability of data going to the web" (GoC 2024a). Additionally, the regression relationship was used during this period as it was deemed to provide more representative discharge estimates.

Incorporating the data gap filled years, the result of the above methods was an overall instantaneous annual maximum open water flow data set from 1945 to 2023 (77 years) for WSC Station 09EB001 (Appendix B). Figures and basic statistics of WSC Station 09EB001 open water instantaneous peaks are provided in Section 2.3.3.4

3.3.2 Flood Frequency Analysis

Single station FFAs were completed for the breakup and open water annual maximum instantaneous discharge datasets at WSC Station 09EB001 using the same methods described for the Klondike River in Section 3.2.2. Statistical tests on the independence, stationarity and homogeneity of the datasets for breakup and open water conditions were conducted in HYFRAN-PLUS, with satisfactory results (a 1% significance level was required for independence for breakup conditions). Instantaneous discharges for the suite of AEPs are provided in Table 3-5**.** The LP3 distribution plots for breakup and open water are provided in Figure 3-4 and Figure 3-5, respectively. Distribution plots for alternate distributions are provided for reference in Appendix B.

Table 3-5 WSC Station 09EB001 FFA results for Breakup and Open Water

AEP	Breakup		Open Water	
	Peak Instantaneous Discharge (m³/s)	95% Confidence Interval (m³/s)	Peak Instantaneous Discharge (m³/s)	95% Confidence Interval (m³/s)
50% AEP (1:2-year event)	3,000	2,700 – 3,300	7,110	6,670 – 7,550
20% AEP (1:5-year event)	3,970	3,540 – 4,400	8,890	8,250 – 9,520
10% AEP (1:10-year event)	4,610	4,020 – 5,190	10,000	9,170 – 10,900
5% AEP (1:20-year event)	5,200	4,390 – 6,020	11,100	9,920 – 12,400
2% AEP (1:50-year event)	5,970	4,740 – 7,200	12,500	10,700 –14,400
1% AEP (1:100-year event)	6,550	4,930 – 8,160	13,600	11,200 – 16,000
0.5% AEP (1:200-year event)	7,120	5,050 – 9,190	14,700	11,600 – 17,700
0.2% AEP (1:500-year event)	7,890	5,120 – 10,700	16,100	12,100 – 20,200

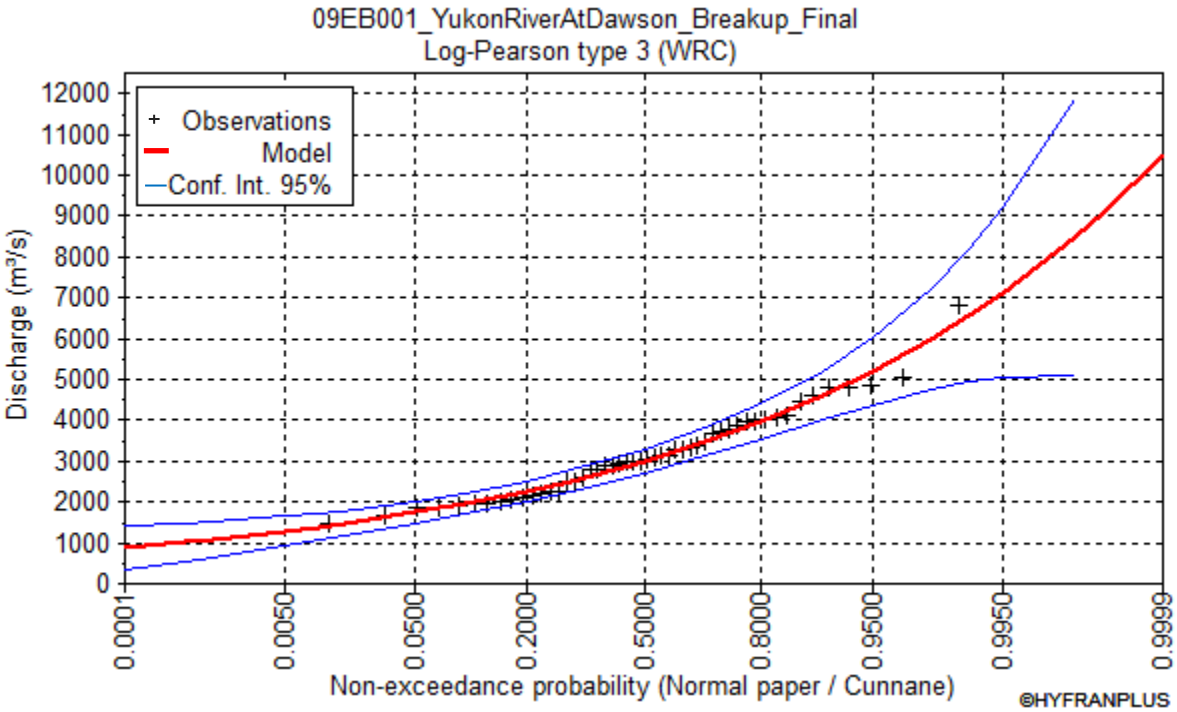

Figure 3-4 WSC Station 09EB001 Breakup Discharge Flood Frequency Plot (LP3-WRC Distribution)

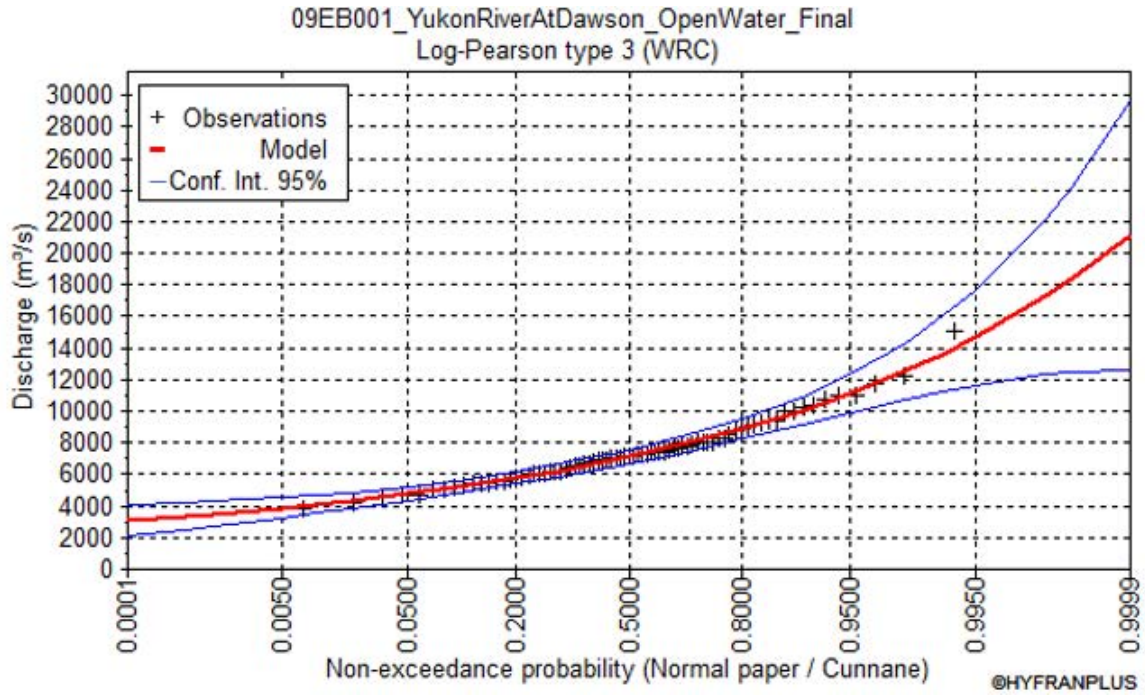

Figure 3-5 WSC Station 09EB001 Open Water Discharge Flood Frequency Plot (LP3-WRC Distribution)

As with the Klondike River, the record length for the WSC Station 09EB001 (77 years open water including 40 years filled with the USGS regression relationship, and 50 years for breakup conditions), is less than the extrapolated AEPs that have been selected. As such, caution should be used when interpreting the provided flows with smaller AEPs.

3.3.3 Comparison to Previous Studies

Two existing stage FFA studies for the Yukon River at Dawson were made available to Stantec for review and comparison: Morrison Hershfield (2022) and Yukon University (2022). The MH study included two separate FFAs: a combined peak annual instantaneous maximum open water and breakup stage FFA, and a peak annual instantaneous open water stage FFA. The open water FFA was reviewed and compared to the open water FFA results for this Project. The peak annual instantaneous open water stage FFA included data from 1982 to 2022. A stage-discharge relationship was developed by MH to fill 13 open water peak instantaneous stages between 1987 and 2009. The simple relationship was developed using 7 concurrent stage measurements at WSC Station 09EB001 and the discharge at USGS station 15356000 (Yukon River at Eagle Alaska).

The FFA completed by Yukon University used WSC data from 1970 to 2022. Yukon University (2022) considered freeze-up, breakup, and open water flooding events and provided a combined single stage FFA, along with individual flood frequency curves. Approximately 10 open water peak water surface elevations were estimated using data from the USGS station at Eagle, Alaska.

WSC's rating curve #11 was used to convert the open water WSEs for AEPs up to 0.5% for MH (2022) and Yukon University (2022) to allow for a comparison between the results (Table 3-6).

Table 3-6 WSC Station 09EB001 Open Water Discharge FFA Results Comparison to Previous Studies

	Open water FFA instantaneous discharge (m³/s)		
	Morrison Hershfield (2022) [1]	**Yukon University (2022) [1]**	**This Project**
50% AEP (1:2-year event)	6,880	6,900	7,110
10% AEP (1:10-year event)	9,140	-	10,000
5% AEP (1:20-year event)	9,860	10,010	11,100
2% AEP (1:50-year event)	10,680	-	12,500
1% AEP (1:100-year event)	11,240	-	13,600
0.5% AEP (1:200-year event)	11,760	12,290	14,700

[1] Comparison discharges calculated by applying the applicable study's stage FFA results and WSC Station 09EB001 rating curve #11

The results of the three FFAs demonstrate general agreement, with this Project being the most conservative. Although the results are hydrologically considered similar, an analysis of the source of the differences between these FFAs was completed. The Morrison Hershfield (2022) study excluded stage data prior to 1982. This period includes three of the four highest discharges included in the dataset for the current Project: 1964 (15,090 m³/s), 1972 (12,250 m³/s) and 1962 (11,040 m³/s). Temporarily removing

these three data points from the current Project's FFA-discharge dataset reduces the 0.5% AEP discharge to 12,500 m³/s, resulting in the modified analysis being slightly more conservative than the corresponding Morrison Hershfield analysis (modified analysis being 6% higher). The difference in these AEP discharges can be attributed to the different approaches for gap filling using the downstream USGS Yukon River at Eagle data, and the stage-discharge relationship provided by WSC rating curve #11.

To compare with Yukon University (2022), the removal of the flows prior to 1970 and after 2022 from the current FFA-discharge dataset, results in a 0.5% AEP discharge of 13,400 m³/s. This discharge is slightly more conservative than the corresponding Yukon University (2022) discharge of 12,290 m³/s (modified analysis being 9% higher). The main difference in these AEP discharges can be attributed to Yukon University's differences in the water level/discharge regressions at Dawson City using data from the downstream USGS station at Eagle, Alaska.

Overall, the FFA results determined as part of this Project are deemed robust and appropriate to be used as inputs for hydraulic modelling to produce flood maps for Dawson City and Klondike Valley AOI.

3.3.4 Flow Changes within AOI

The Klondike River is the one tributary to the Yukon River within the AOI of sufficient size to necessitate a flow change on the Yukon River.

WSC Station 09EB001 is located downstream of the Klondike River confluence, meaning that AEP flows from the FFA (Table 3-5) are applicable to the reach of the Yukon River within the AOI that is downstream of the Klondike River confluence.

AEP flows for the reach of the Yukon River upstream of the Klondike River within the AOI are the WSC Station 09EB001 AEP flows (Table 3-5) minus the scaled flow (refer to Section 4.1) for the Klondike River downstream of the Bonanza Creek confluence (Table 3-2).

3.4 Yukon River at Dawson – Stage (WSE)

Stage (WSE) data series preparation and an FFA for the breakup period were completed for WSC Station 09EB001. The WSE FFA results on the Yukon River were used for verification/support of the modelling and flood hazard mapping of breakup ice jam events given that a single jam downstream of the AOI influences WSEs throughout the Yukon River in the AOI.

3.4.1 Data Series Preparation

Peak breakup stage (WSE) for the Yukon River at Dawson has been recorded and/or estimated (with varying degrees of accuracy) since 1896 (Janowicz 2010). The 1896 to present peak breakup stage data does not distinguish between unimpeded javes, impeded javes/jam growth, and downstream jam driven peaks. However, the results of breakup-process specific analysis in Section 2.3.3.3 for 27 years identified that jam-related breakup processes (impeded javes/jam growth or downstream jams) govern the peak WSEs at WSC Station 09EB001 for the AEPs being considered in this Project. Therefore, using the longer dataset outlined by Janowicz (2010) and subsequent WSC records is assumed to result in FFA

results representative of the governing breakup jam-related flooding process for AEPs being considered in this Project.

YG provided Stantec with sub-hourly stage hydrographs for the Yukon River at Dawson from 1995 – 1998, 2002 – 2005 and 2007 – 2017, and WSC Station 09EB001 provides sub hourly stage data for 2016 – 2024.

Through multiple checks of overlapping datasets and historical reporting of stages (e.g., Turcotte et al. 2024b; Janowicz 2010; R. Janowicz breakup reports 2007 – 2016 provided by YG), Stantec verified the datums of the various data sources, and converted the peak stages to WSE in CGVD2013.

The peak breakup stages/WSEs have varying degrees of accuracy/uncertainty:

- Data prior to 1944 were from archival sources with Janowicz (2010) confidence limits of +/-0.50 to 0.75 m.
- Data from 1945 to 1974 were from hydrometric observer field books with Janowicz (2010) confidence limits of +/-0.15 to 0.25 m; however, WSC stage data during this period are daily, and therefore it was unclear to Stantec whether the Janowicz (2010) breakup peak data were instantaneous peak stages or daily peak stages.
- Data from 1975 to 1986 were estimated from recorder charts with Janowicz (2010) confidence limits of +/-0.15 to 0.75 m.
- Data from 1993 to 2010 were from surveyed high water marks and/or sub-hourly stage hydrographs collected by Crown-Indigenous Relations and Northern Affairs Canada (CIRNAC) or YG.
- Data from 2011 to present were from sub-hourly stage hydrographs.
- Surveyed high water marks from the notable breakup flood events of 1925, 1944, and 1979 were expected to have lower uncertainties than other years in the data source time period listed above (Janowicz 2010).

Data inputs for the stage (WSE) FFA are required to be reasonably accurate; uncertainties in excess of 0.15 m were deemed unacceptable for the purposes of this Project. Based on a year-by-year evaluation of data sources, Stantec adopted breakup peak stage/WSEs for a total of 36 years for inclusion in the stage FFA: 1979, 1988–1991, 1993–2005, 2007–2024. Appendix B summarizes the breakup stage dataset and year-by-year rationale for inclusion.

3.4.2 Flood Frequency Analysis

Turcotte et al. (2021), FEMA (2018), and Kovachis et al. (2017) highlight the need to account for the likelihood of occurrence of an ice jam in a given year in breakup FFAs. The breakup process analysis in Section 2.3.3.3 and Muirhead et al. (2025) identified that jam-related breakup processes occurred in 27 of the years investigated. For this reason, it was assumed that the 36 years included in the breakup WSE annual maximum data series would have ice jams on the Yukon River (to some degree) and likelihood of occurrence did not need to be included in the WSC Station 09EB001 WSE FFA.

The stationarity of the annual maximum dataset during the period of record was assessed to identify land use changes, development in the watershed, and climate change impacts. The Kendall stationarity test did not identify a trend at a significance level of 5% and thus the dataset is considered stationary.

Statistical tests on the homogeneity of the annual maximum breakup period WSE were completed using a Wilcoxon test by subdividing each dataset and testing that the averages of the datasets were equal; the tests for homogeneity accepted that the averages of the subdivided sample sets were equal at a significance level of 5%.

Statistical tests on the independence of the dataset were completed to verify that the records of peak WSEs were independent random variables, and the dataset was determined to be independent at a confidence level of 5% using the Wald-Wolfowitz test. The statistical tests were completed using built-in options in the HYFRAN-PLUS Version 2.2 statistical software.

FFAs were completed using HYFRAN-PLUS software for fitting several distributions to the annual maximum breakup period WSE datasets. The goodness of fit was checked for a range of distributions from different distribution classes, including log-Pearson Type 3 (LP3), Inverse Gamma, Gumbel, Gamma and Pearson Type 3, Exponential and Generalized Extreme Values. The LP3 distribution was deemed statistically adequate using the Chi-squared test in HYFRAN and was selected distribution for the FFAs.

Peak breakup WSEs for the suite of AEPs are summarized in Table 3-7. The LP3 distribution plot for breakup WSE is provided in Figure 3-6. Distribution plots for alternate distributions are provided for reference in Appendix B. The WSE FFA results suggest that the 1979 flood, with a WSE of 320.64 m (in CGVD2013) equates to a 0.7% AEP, or approximately a 1:140-year event.

Table 3-7 WSC Station 09EB001 Breakup WSE FFA Results

AEP	Peak Breakup WSE (m, in CGVD2013)
50% AEP (1:2-year event)	315.87
20% AEP (1:5-year event)	317.01
10% AEP (1:10-year event)	317.79
5% AEP (1:20-year event)	318.55
2% AEP (1:50-year event)	319.52
1% AEP (1:100-year event)	320.23
0.5% AEP (1:200-year event)	320.94
0.2% AEP (1:500-year event)	321.87

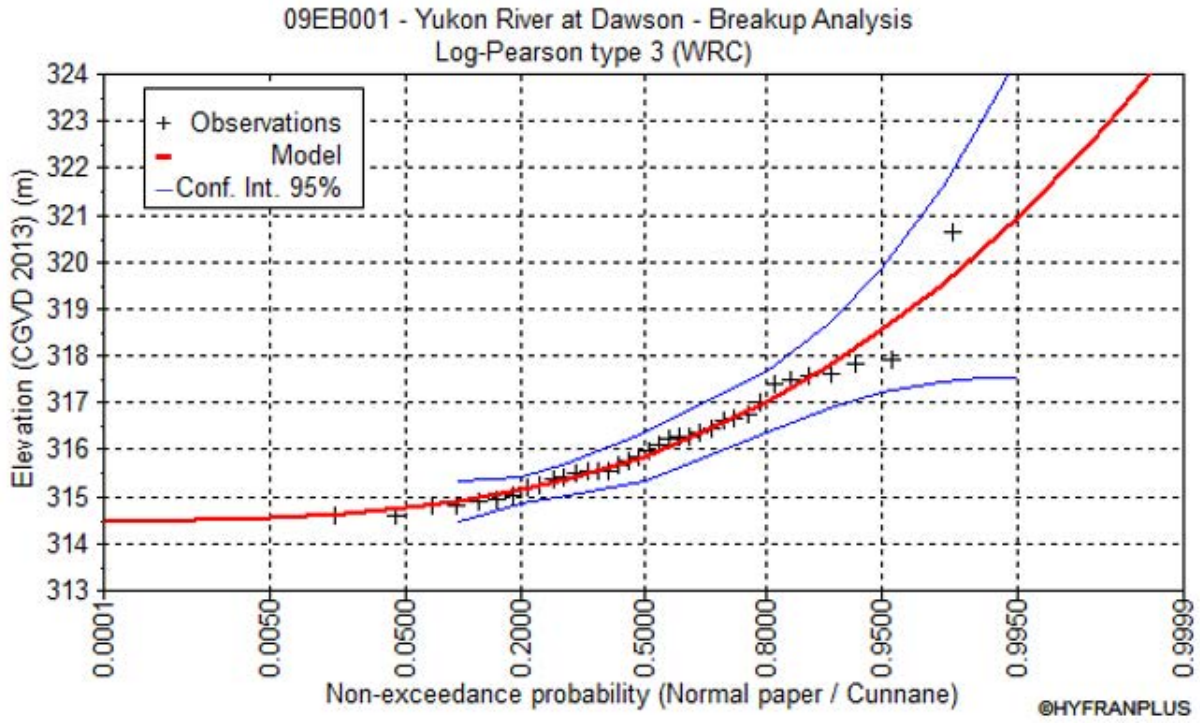

Figure 3-6 WSC Station 09EB001 Breakup WSE Flood Frequency Plot (LP3-WRC Distribution)

As with the previous FFAs in this Project, the record length for the WSC Station 09EB001 breakup WSE data series (36 years) is less than the extrapolated AEPs that have been selected. As such, additional caution should be used when interpreting the provided flows as the underlying data record length is relatively short.

3.4.3 Comparison to Previous Studies

Two studies with breakup WSE FFA were available for review and comparison: Klohn Leonoff (1986) and Yukon University (2022). The combined open water and breakup FFA from MH does not enable a direct comparison to the breakup WSE FFA results in this Project.

The WSE FFA values from Klohn Leonoff (1986) were provided for the Yukon River at King Street, approximately 750 m upstream of WSC Station 09EB001, and were assumed to be in the geodetic datum of the time (Canadian Geodetic Vertical Datum 1928, CGVD28). To enable comparison to Stantec's breakup WSE FFA results, the Klohn Leonoff (1986) elevations were translated to the WSC Station 09EB001 location by i) assuming a 0.03% WSE slope which is consistent with Gerard et al. (1992) and Underhill 2022 surveyed open water WSE slopes and assumed appropriate during equilibrium ice jam conditions through Dawson City for the Yukon River, and ii) increased by 0.09 m to convert from CGVD28 to CGVD2013 (based on offsets provided by GoC 2024a for WSC Station 09EB001). Klohn Leonoff (1986) states that the published AEP WSEs were provided by R. Janowicz (Indian and Northern Affairs) and N. Lyons (Inland Waters Directorate) in conjunction with Dr. L. Gerard from the University of Alberta; information was not provided regarding data series development or adopted statistical distribution.

The Yukon University (2022) breakup AEP WSEs were visually estimated from the published FFA plot. Yukon University (2022) included a data series from 1970 to 2022 and adopted a Log Normal Type III distribution for the FFA.

Table 3-8 WSC Station 09EB001 Breakup WSE FFA Results Comparison to Previous Studies

	Breakup WSE (m, in CGVD2013)		
	Klohn Leonoff (1986) [1]	**Yukon University (2022) [2]**	**This Project**
50% AEP (1:2-year event)	-	315.5	315.87
20% AEP (1:5-year event)	-	316.6	317.01
10% AEP (1:10-year event)	318.83	317.2	317.79
5% AEP (1:20-year event)	319.83	318.0	318.55
2% AEP (1:50-year event)	320.83	319.0	319.52
1% AEP (1:100-year event)	321.53	319.7	320.23
0.5% AEP (1:200-year event)	322.33	320.5	320.94
0.2% AEP (1:500-year event)	-	-	321.87

[1] Published elevations were at King Street; WSEs translated to WSC Station 09EB001 location considering a 0.03% slope in Yukon River
[2] Visually estimated from published FFA plot

Klohn Leonoff (1986) breakup AEP WSEs are 1.04 to 1.39 m higher than this Project's. It is difficult to explain the differences between the breakup AEP WSEs from this Project and Klohn Leonoff (1986) because of the unknown data series inclusions and statistical distribution assumptions in that study. Given that the use of those AEP WSEs was to inform the dike construction, it is possible that the developers of those AEP WSEs applied additional degrees of conservatism in their analysis.

The breakup AEP WSEs from this Project are higher than the Yukon University (2022) study by 0.37 to 0.59 m. This may be related to the additional years considered by Yukon University (2022); this Project considered 1979, 1988–1991, 1993–2005, 2007–2024 based on an underlying accuracy requirement of +/- 0.15 m as outlined in Section 3.4.1, whereas Yukon University (2022) considered 1970 – 2022 inclusive. The underlying statistical distributions used in the respective studies (i.e., LP3 compared to Log Normal Type III) may also contributed to the differences.

4 Joint Probability Analysis

The joint probability analysis considers the interdependence between potential flood processes for the flood maps, both in modelling and mapping approaches. Stantec has considered two types of joint probability analysis (JPA) in this Project: i) the potential for different flood processes (ice jam vs. open water) to result in overall AEP inundation at different areas within the AOI (required for the mapping approach adopted for the AOI) and ii) the potential/reasonable application of coincident peaks in the Klondike River and Yukon River (required for the modelling inputs/approaches).

Future studies should investigate changes in the timing and interdependencies of flood processes for the two river systems, as the considerations/results in this JPA may change with climate change.

4.1 Flood Processes

While analysis of stage data can indicate which flood process (breakup, open water, or freeze-up) governs the overall AEP flood inundation at the location of the gauge, it cannot determine if that flood process is governing for the overall AEP inundation for the areas within the AOI.

A flood process JPA was completed for the Klondike River and Yukon River given that breakup ice jams and open water flooding has been documented. Flood process JPA for Flat Creek was not completed given that only open water flooding was considered in this Project.

4.1.1 Klondike River

The Klondike River within the AOI is known to have breakup ice jams which govern overall AEP flood levels at many locations (e.g., at WSC Station 09EA003); however, open water AEP flows may be the governing flood process for areas which are outside the influence of major jams (as outlined in Section 2.2.3.3). To address this issue of different flood processes governing the overall AEP flood inundations in different areas of the Klondike River AOI, Stantec completed separate hydraulic model runs on the calibrated hydraulic model covering different flood-inducing scenarios, for each AEP:

- Klondike River breakup period. Simulate the 11 Klondike River dominant ice jam locations in reasonable combinations (based on historical jam observations) from Section 2.2.3.3 with the Klondike River breakup period AEP discharges from Section 3.2.2.
- Klondike River open water period. Simulate the Klondike River open water period AEP discharges from Section 3.2.2.

Freeze-up does not have a demonstrated history of directly causing extreme flood events on the Klondike River and therefore is not included in the flood processes JPA.

4.1.2 Yukon River

Past studies (e.g., Gerard et al. 1992) and historical flood events (Section 2.3.4) have suggested that flooding for the AEPs in this Project on the Yukon River at WSC Station 09EB001 is governed by breakup jam flooding. However, it is possible that flooding in upstream portions of the Yukon River in the AOI may be governed for lower AEPs by open water flows if jam induced levels are less significant, particularly at the upstream end of the AOI. To address this issue of different flood processes governing the overall AEP flood inundations in different areas of the Yukon River AOI, Stantec completed separate hydraulic model runs on the calibrated hydraulic model for each AEP:

- Yukon River breakup period. Simulated a breakup ice jam against an intact ice cover downstream of Fort Reliance under each of the Yukon River breakup period AEP discharges from Section 3.3.2. Given the sensitivity of jam head location to breakup period flooding (e.g., Jasek 1993), Stantec used the results of the WSC Station 09EB001 WSE FFA to inform head locations for each of the AEP events. The applicable Yukon River breakup period AEP discharge was considered while varying the jam head location until the simulated WSE at the gauge location matched the AEP WSE for WSC Station 09EB001 from Section 3.4.2. If the results of this approach required a jam head location upstream of the gauge station to match the AEP WSEs, Stantec extended the head location to the upstream end of the AOI as a conservative approach for the mapping.
- Yukon River open water period. Simulated the Yukon River open water period AEP discharges from Section 3.3.2.

Freeze-up does not have a demonstrated history of directly causing extreme flood events on the Yukon River and therefore is not included in the flood processes JPA.

4.1.3 Composite Flood Hazard Inundation

The results of each of these hydraulic model runs (Klondike River breakup, Klondike River open water, Yukon River breakup, Yukon River open water) represent the AEP flood inundation for their individual process on that river. The inundations of breakup period and open water AEP runs will be overlayed and the outer bounds of the overlay adopted as the overall AEP flood hazard inundation in a “composite” flood hazard extent. Inundation extents for each process will be preserved in the mapping to inform process-specific applications of the maps, such as emergency response. This hydraulic modelling and mapping approach addresses the issue of different flood processes governing a given AEP inundation extent at different locations within the AOI.

4.2 Coincident Flows

As the hydraulic model is a single model with both the Klondike River and Yukon River, flows in both the Klondike River and Yukon River are required for each of the AEP runs. As discussed in Section 2, the peak breakup and open water flooding events on each river do not have a demonstrated history of occurring concurrently.

Therefore, it is important to identify appropriate and plausible pairings of Klondike River/Yukon River flow as to represent the overall AEP inundation for the flood scenario in question. If this was not done, misrepresentation of the overall AEP inundation would result; for example, simultaneously modelling the 0.5% open water AEP Klondike River flow and the 0.5% open water AEP Yukon River flow likely represents an overall AEP much rarer than 0.5%. For the purposes of this JPA, Klondike River breakup and open water runs are termed “Klondike River primary” runs and Yukon River breakup and open water runs are termed “Yukon River primary” runs. The coincident peak JPA identified the “paired” flows for the non-primary river, to be applied in each of the primary river runs.

4.2.1 Breakup Period

The method for determining paired flows for breakup period scenarios was intended to follow a similar method as for open water (detailed in Section 4.2.2). That is, the peak instantaneous flow for the non-primary river which occurred within the breakup period of the primary river was extracted for each year with hydrometric data to delineate primary river breakup periods. These peak instantaneous flows formed the “paired concurrent flow dataset” for the non-primary river, for which FFA would have been completed.

Due to data uncertainties within the breakup periods, development of paired concurrent flow datasets was not possible for either river. Given the relatively low flows experienced during the breakup periods (compared to open water) and the resulting limited area of impact of backwater (e.g., Jasek 2002), an approach of applying the breakup AEP flows for both rivers in each of the primary runs was adopted. For example, the Klondike River 5% AEP breakup flow and the Yukon River 5% AEP breakup flow has been applied in both the 5% AEP breakup period Klondike River primary run and the 5% AEP breakup period Yukon River primary run. Flow changes along each river are reflected in the hydraulic modelling following the approaches detailed in Section 3.2.4 and Section 3.3.4.

Regarding ice conditions during the breakup runs for each river, coincident jam events were not considered in this Project. Jasek (2002) states that the Yukon River typically breaks up approximately five days after the Klondike River, and Stantec’s analysis shows that the Yukon River breakup ranges from two to eight days after the Klondike River, with an average delay of five days. Jasek (2002) generally assumed they were independent breakups, therefore supporting the approach of modelling them separately. While breakups can occur close together (e.g., 1979), Jasek (2002) considered it “fairly remote” that a severe ice jam on the Yukon River would occur at the same time as on the Klondike River. Therefore, running coincident jam events is considered overconservative for this Project. Given that the Yukon River breaks up after the Klondike River, the breakup period Klondike River primary runs will consist of the 11 dominant breakup jams and ice-covered conditions on the Yukon River. The breakup period Yukon River primary runs will consist of the breakup jam on the Yukon River and no ice cover on the Klondike River.

4.2.2 Open Water Period

Two different methods were investigated to determine paired FFA flows for this Project:

1. The Gumbel-Hougaard Copula (Nelsen 2006) method, which is recommended by Kilgore et al. (2010) to make a reasonable estimate of the joint probability of floods at stream confluences. In this method, univariate probability distributions for two rivers are linked with the Gumbel-Hougaard Copula to account for the dependence between two random variables. By way of the required input parameters, the Gumbel-Hougaard Copula method was only possible for open water conditions.

2. A paired concurrent flow FFA method, whereby paired concurrent flow datasets were developed and FFA was completed for open water flows. That is, the maximum instantaneous flow for the non-primary river which occurred on the date of the peak instantaneous open water flow of the primary river was used to form the paired concurrent flow dataset for the non-primary river. The FFA was completed on the paired concurrent flow dataset, identifying the “paired AEP flows”, to be applied for the non-primary river during the primary river’s open water period hydraulic modelling runs.

Initial analyses demonstrated that the Gumbel-Hougaard Copulas following the methods of Nelsen (2006) and Kilgore et al. (2010) resulted in lower paired AEP flows than those obtained from the paired concurrent flow datasets and FFA completion (results not presented). Therefore, Stantec adopted paired concurrent flow FFA method for the open water period scenarios.

There were 59 years of open water peaks identified for the Klondike River (per Section 3.2.1.3) and paired concurrent Yukon River flows were available for 58 of those years (data gap during 1973 open water period at WSC Station 09EA003). The resulting Yukon River paired AEP flows outlined in Table 4-1 were applied for open water Klondike River primary runs. Flow changes for the Yukon River paired AEP flows upstream and downstream of WSC Station 09EB001 to account for tributary contributions are reflected in the hydraulic modelling following the approaches detailed in Section 3.3.4.

There were 77 years of open water peaks for the Yukon River (per Section 3.3.1.3) and paired Klondike River flows were available during 59 of those years. The resulting Klondike River paired AEP flows outlined in Table 4-1 were applied for open water Yukon River primary runs. Flow changes for the Klondike River paired AEP flows upstream and downstream of WSC Station 09EA003 to account for tributary contributions will be reflected in the hydraulic modelling following the approaches detailed in Section 3.2.4.

Table 4-1 Results of FFA on Paired Concurrent Flow Datasets – Open Water Period

AEP	Maximum Instantaneous Open Water Discharge (m^3/s)	
	Flow at WSC Station 09EA003 during peak at WSC Station 09EB001 ("Paired Klondike River flow")	Flow at WSC Station 09EB001 during peak at WSC Station 09EA003 ("Paired Yukon River flow")
50% AEP (1:2-year event)	272	5,970
20% AEP (1:5-year event)	406	7,510
10% AEP (1:10-year event)	498	8,410
5% AEP (1:20-year event)	588	9,200
2% AEP (1:50-year event)	707	10,200
1% AEP (1:100-year event)	798	10,800
0.5% AEP (1:200-year event)	891	11,400

5 Climate Change and Land Cover Change

Section 5.1 details the climate change assessment and Section 5.2 details the land cover change assessment. Section 5.3 provides a Factor of Safety for Climate Change and Land Cover Change (CC/LCC) for each of the Klondike River and Yukon River, based on the findings of Section 5.1 and Section 5.2 and discussion with Project partners from YG WRB, NRCan, and Environment and Climate Change Canada (ECCC).

5.1 Climate Change

The climate change assessment approach used a hybrid version of quantitative and qualitative approaches from NRCan (2019a), illustrated in green overtop of the NRCan (2019a) flowchart in Figure 5-1. The components of the approach are summarized below.

- Qualitative Assessment:
  - Consideration of flood hydrology of the Klondike River and Yukon River at Dawson watersheds in the context of quantifiable changes to meteorological parameters.
  - Review of published scientific literature on climate change impacts on flood hydrology in northern Canada.
  - Review of jurisdictional case studies and policy precedents relevant to the AOI.
- Quantitative Assessment:
  - Trend analysis of historical flows at WSC Station 09EA003 and WSC Station 09EB001
  - Compilation of published meteorological projections (e.g., temperature, precipitation, frost-free days) for the watersheds in the AOI

This Project does not include a comprehensive review of climate change in the Yukon or in the Dawson City region. Investigation consisted of background review of select relevant scientific publications, existing projections, and approaches taken by other Canadian jurisdictions – particularly neighbouring jurisdictions like British Columbia. New climate modelling was not completed as part of Stantec's investigations. While general qualitative discussion is included for the potential impacts of climate change to dominant flood processes (e.g., historically open water dominated systems becoming ice jam dominated systems, changes to ice regime), the current state of science around such projections carry substantial uncertainty and/or analytical limitations (e.g., Burrell et al. 2023; Das and Lindenschmidt 2021) and are not included in the Factor of Safety for Climate Change.

The timeframe considered was present day through to 2100. The Shared Socioeconomic Pathways (SSP) considered are between SSP2-4.5 (medium stabilization scenario where global mitigation efforts result in intermediate levels of greenhouse gas [GHG] emissions) and SSP5-8.5 (fossil-fueled development with high GHG emissions) as defined by Meinshausen et al. (2020), and represent a range of potential future conditions. However, current practices are to lean towards the SSP5-8.5 scenario both for conservatism in engineering projects and to reflect current socio-political trends globally. In this

Project, the most recent climate change scenarios (i.e., SSPs; CMIP6) were used instead of the CMIP5's Representative Concentration Pathways (RCPs). Climate model sources and data are described in Section 5.1.2.

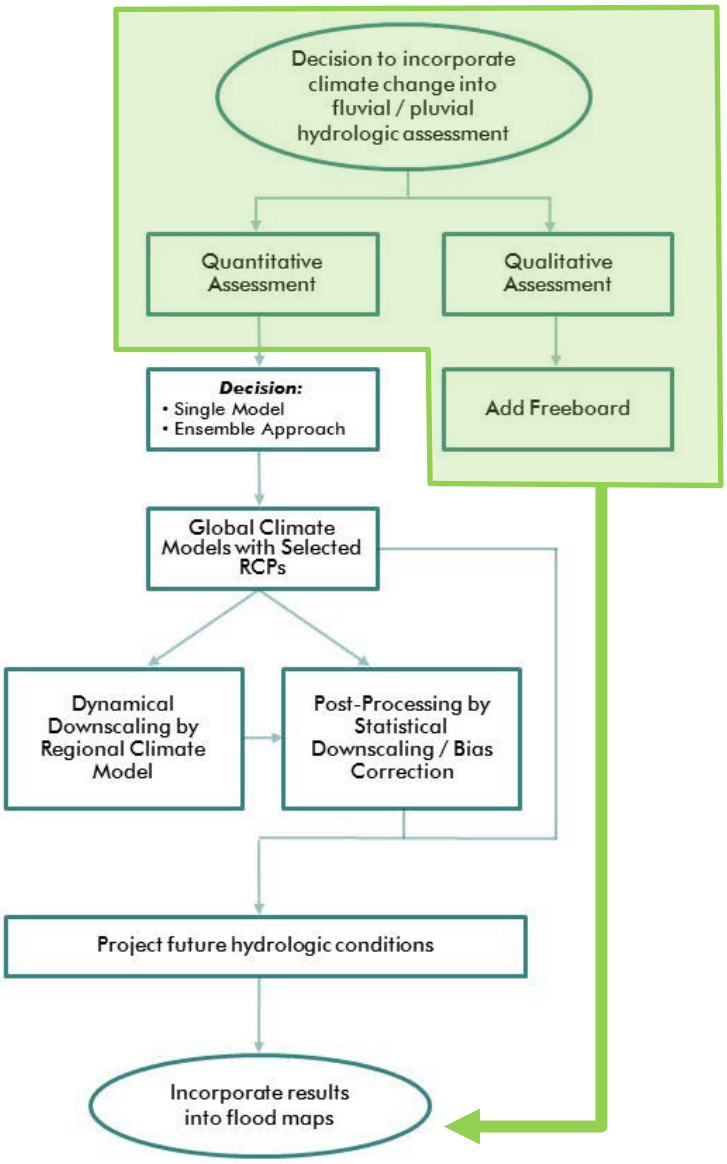

Figure 5-1 Climate Change Analysis Procedures from NRCan (2019a)

5.1.1 Qualitative Assessment

5.1.1.1 Characterization of Flood Hydrology in AOI

The Klondike River experiences flooding from breakup jams and open water flooding at different areas of the AOI. Breakup jamming is induced by rising flows from snowmelt. The probability of dynamic breakup and severe jam-related flooding is increased with elevated freeze-up flows, cold winters, and rapid spring warming/rain-on-snow events (see Turcotte et al. 2024a for further exploration of these factors). Open water peak flow is predominantly driven by snowmelt and spring/summer rainfall. Peak open water flows increase with higher snowpack, higher/more severe ROS events, and high spring temperature anomalies during the snowmelt season.

The Yukon River experiences flooding predominantly from breakup jams; however, open water flooding may be governing at certain portions of the AOI upstream of WSC Station 09EB001, particularly during in more frequent AEP events. Breakup jamming is induced by rising flows from snowmelt. The probability of dynamic breakup and severe jam-related flooding would likely increase with elevated freeze-up flows, cold winters, and rapid spring warming/ROS events (see Turcotte et al. 2024b for further exploration of these factors). Open water peak flow is predominantly snowmelt driven. Peak open water flows tend to increase with higher snowpack and higher spring temperatures during the snowmelt season.

5.1.1.2 Overview of Published Literature

Hydrologic response of a given river to climate change is dependent on the hydrologic processes specific to that system, including glacier and permafrost regimes, temperature/precipitation trade-offs related to snowpack characteristics and melt timing, evaporation and evapotranspiration rates, and basin size. Just as hydrologic processes can vary between systems, the impact of climate change on flood hydrology can also vary (e.g., Rasouli et al. 2019; Streicker 2016; Rasouli et al. 2014; YG WRB 2011; Janowicz 2010; Janowicz 2008; Hinzmann et al. 2005; Janowicz 2001). Some of the expected overall changes to hydrology in the Yukon as a result of climate change include earlier lake and river breakup, increase in mean annual precipitation, increased winter precipitation, increased summer precipitation, more severe storm events, increased annual runoff, increased baseflows, increased snowpack with warmer springs leading to earlier and larger spring peak flows (Turcotte et al. 2024a; Turcotte et al. 2024b; Streicker 2016; YG WRB 2011; Janowicz 2001). Temperature increases and precipitation increases have been observed over the past 50 years (Research Northwest and Morrison Hershfield 2017). Factors affecting the degree and nature of change include local climate, hydrologic regime, changes to frozen ground conditions, topography and contributing area. Annual and winter temperature anomalies and annual precipitation departures over four northern regions from 1948 to 2005 show the greatest warming in the Yukon and the Mackenzie District (2.2°C and 2.0°C, respectively; YG WRB 2011).

Climate change effects being studied as part of the Faro Mine Remediation Project. Crown-Indigenous Relations and Northern Affairs Canada (2024) project that Probable Maximum Flood (PMF) for the Faro mine site will increase by 9% to 11% for the 2080s at the 50th percentile. More recent work by NHC (2025) concluded that climate change would increase spring PMF at the mine site, and slightly increase the summer PMF (the magnitude of the increase was not quantified in the report). This recent study did

not consider land cover change or loss of permafrost, but the authors noted that loss of permafrost could reduce peak flows in future.

Elshamy et al (2024) modelled the impact of climate and land cover change on the hydrology of northern rivers. The models simulate hydrology, glacier melt and permafrost dynamics using high-fidelity hydrological-cryospheric conditions using MEC-Surface & Hydrology (MESH) model of the Yukon river basins for climate change and glacier loss. For the Yukon River Basin (at Eagle), a peak daily flow increase of 37% to 79% is projected for the 2085 period, and peak flow occurring 5 to 9 weeks earlier than baseline conditions. In the Klondike River sub basin (at Bonanza Creek), a 25% to 90% increase in peak daily flow for the 2085 period is projected, and peak flow occurring 1 to 4 weeks earlier than baseline conditions
(Elshamy et al 2024). Although land cover change results are not presented for the Yukon River basin, they were reported for the Mackenzie River basin. For models in the Mackenize River basin, adding land cover change to the climate change impacts resulted in volume/peak flow reduction at some locations, but mainly increased the variability/uncertainty of the results. Elshamy et al (2024) summarize the following at a basin scale:

- Precipitation, evapotranspiration and runoff increase.
- Soil moisture increases slightly, with large increases in liquid content and large reductions in frozen content.
- Snow cover accumulates later and melts earlier with shallower snowpacks and no summer snow persistence – complete deglaciation will result from this.
- Runoff increases are coming mainly from additional interflow and baseflow (deeper active layer due to permafrost thaw and increases in liquid moisture content).

Permafrost is modelled to degrade quickly with only 3% of the Yukon River basin remaining underlain by permafrost by 2100. Specific to river ice regime changes and the probability of severe ice jams due to climate change, predictions carry substantial uncertainty and/or are subject to analytical challenges limiting their applicability at this time (e.g., Burrell et al. 2023; Das and Lindenschmidt 2021).
However, with a warming climate, the general expectation is that freeze-up will occur later and breakup will occur earlier. Figure 5-2 illustrates the breakup dates recorded since 1896 for the Dawson Ice Pool, as published by Mammoth Geospatial (2024) and IODE Dawson Chapter (2024) and indicates an earlier breakup (negative trend) by approximately 8 days over that time period.

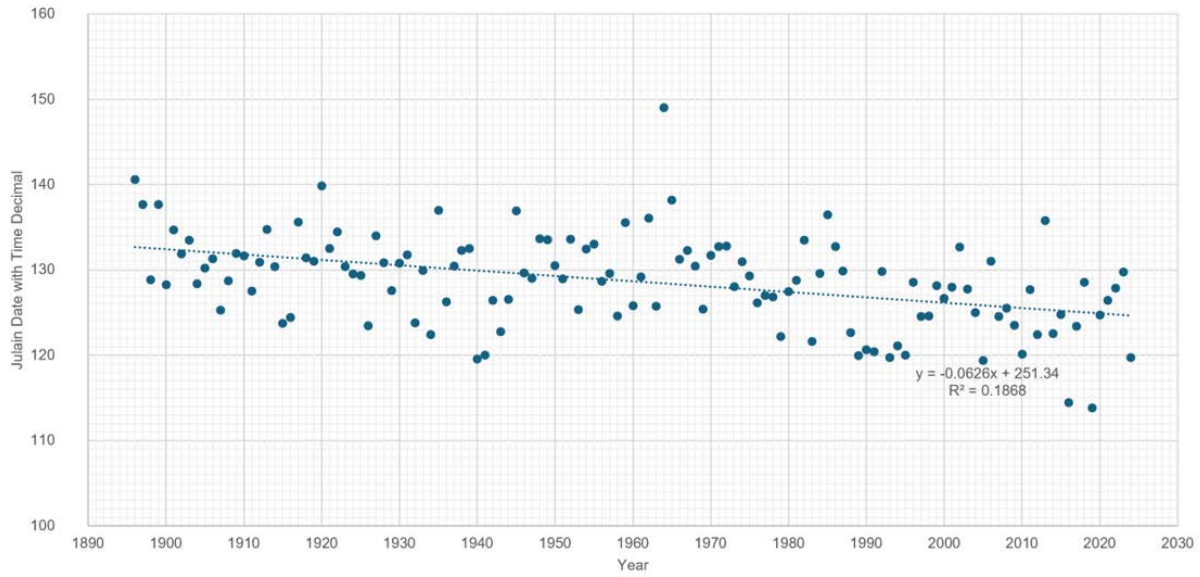

Figure 5-2 Dawson Ice Pool Breakup Date (Mammoth Geospatial 2024; IODE Dawson Chapter 2024) Trend Analysis

Turcotte (2021) adopted a macro-scale approach (from Turcotte et al. 2019) of evaluating peak WSE trends over time to evaluate the impacts of climate change on flooding processes. This study found negative trends in both breakup and open water peak WSEs in the Yukon River at Dawson and no trend in both breakup and open water peak WSEs in the Klondike River upstream of Bonanza considering the available record. Higher freeze-up levels on small/medium sized streams such as the Klondike River are correlated with higher breakup peak WSEs the following spring (Turcotte 2023), presumably through increased ice thickness/volumes. However, Turcotte et al. (2019) indicated that late winter ice thickness on six different rivers in the Yukon has slightly decreased (-0.8 centimetre (cm) to -1.8 cm over periods of record of 13 to 23 years). This dynamic was also observed by Janowicz (2010) potentially due to increased winter temperatures, shorter winter seasons, and increased winter discharges (stemming from higher winter temperatures and precipitation). Snow cover can both inhibit the growth of ice because of its insulating effect (Michel 1971) and increase the growth of ice by impacting buoyancy and refreezing of surface flooding (overflow) to form “snow” ice (Beltaos and Prowse 2009). Occurrences of mid-winter jams or late-season freeze-thaw cycles (which are generally more likely to occur with the projected increases to winter temperatures and precipitation in the Yukon) may cause ice consolidations which increase the risk of severe ice jamming during breakup (Turcotte et al. 2024a; Streicker 2016). An example of this as occurred in 2002–2003 on the Klondike River (Janowicz 2010; Janowicz 2003).

In summary, the published literature points to complex relationships between hydrologic inputs and their changes due to climate change that may manifest in different ways for each individual system. This underscores the need to understand the hydrological drivers and climate change projections for the rivers of interest when accounting for climate change in projects such as this one.

5.1.1.3 Jurisdictional Case Studies and Policy Precedents

There is a consistent acknowledgement in government guidance documents that climate change impacts need to be incorporated into flood hazard mapping (EGBC 2018; NRCan 2018a; NRCan 2018b; NRCan 2019a). The Yukon does not have a specific climate change policy that is applicable to flood mapping projects. Alaska and the Northwest Territories also do not have specific climate change policies that are applicable to flood mapping projects. Further, there is no established method or universal best practice for incorporating climate change in flood hazard mapping in Canada (NRCan 2018a). Uncertainty in localized climate change projections and variability in individual system hydrologic responses is consistently emphasized in the majority of guidance documents.

The NRCan (2019a) framework provides quantitative and qualitative workflow pathways (Figure 5-1). These quantitative and qualitative options are mirrored in Engineers and Geoscientists British Columbia (EGBC) professional practice guideline titled *Legislated Flood Assessments in a Changing Climate in BC* (EGBC 2018). For large, seasonally-driven basins, the EGBC guideline suggests completing a trend detection analysis on historical flows and if no trend is detectable, then use either adjusted intensity-duration-frequency (IDF) curves (if performing deterministic hydrologic modelling) or applying a 10% upward adjustment in design discharge (if local or regional frequency models are used). If a trend is detected, EGBC (2018) suggests adding the precipitation increment to the peak runoff rates. In smaller basins, the guideline suggests a similar process with an upward adjustment of up to 20% in design discharge. However, neither of these guidance documents refer to ice jam driven flooding.

NRCan (2018b) shared three case study examples of the quantitative deterministic modelling approach presented as an option to account for climate change in flood studies by NRCan (2019a) and EGBC (2018). These case studies identified changes to flood flows based on deterministic modelling, however those percentages were developed for river systems in regions which experience different hydrologic processes than the Klondike River and Yukon River at Dawson City rendering them not applicable/comparable to this Project.

5.1.2 Quantitative Assessment

Following general practice and recommendations from EGBC (2018), trend analyses on historical flows were completed as follows. Note that some of the breakup flow data is uncertain and care should be taken when considering these data:

- WSC Station 09EA003 breakup period peak flow trend analysis on Figure 5-3 demonstrated a positive trend considering 58 years from 1966–2023. The trend was not statistically significant.
- WSC Station 09EA003 open water peak flow trend analysis on Figure 5-4 demonstrated a positive trend considering 58 years from 1966–2023. The trend was not statistically significant.
- WSC Station 09EB001 breakup period peak flow trend analysis on Figure 5-5 demonstrated a negative trend considering 41 years from 1945–2023. The trend was not statistically significant.
- WSC Station 09EB001 open water peak flow trend analysis on Figure 5-6 demonstrated a negative trend considering 76 years from 1945–2023. The trend was not statistically significant.

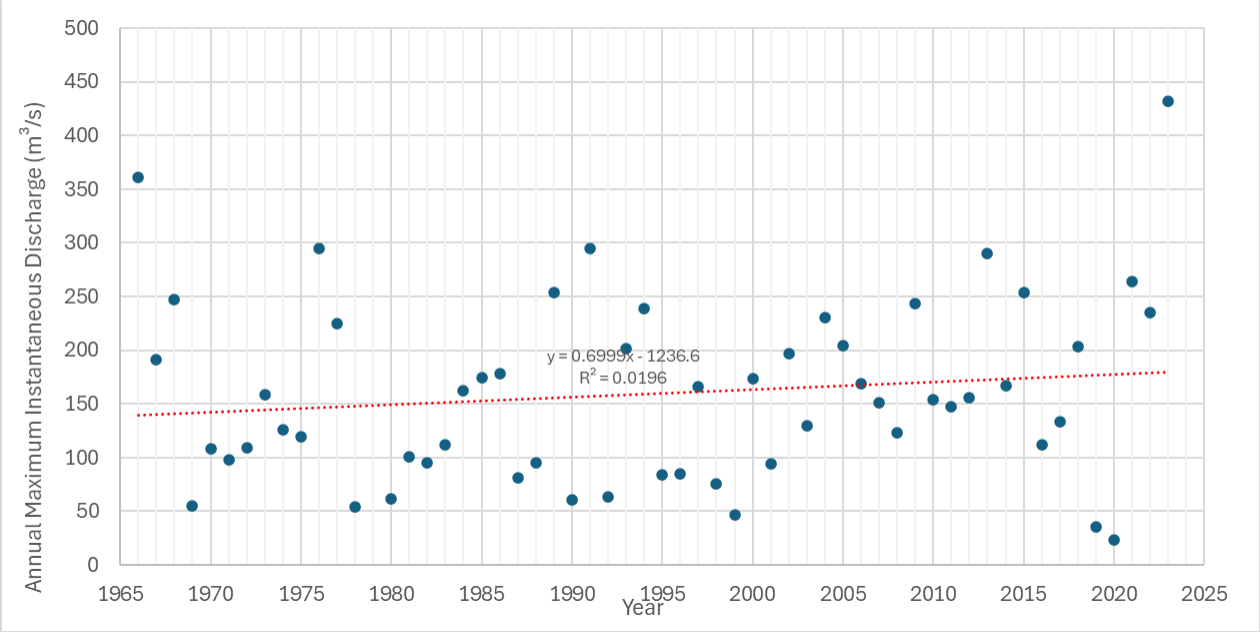

Figure 5-3 WSC Station 09EA003 Breakup Peak Flow Trend Analysis

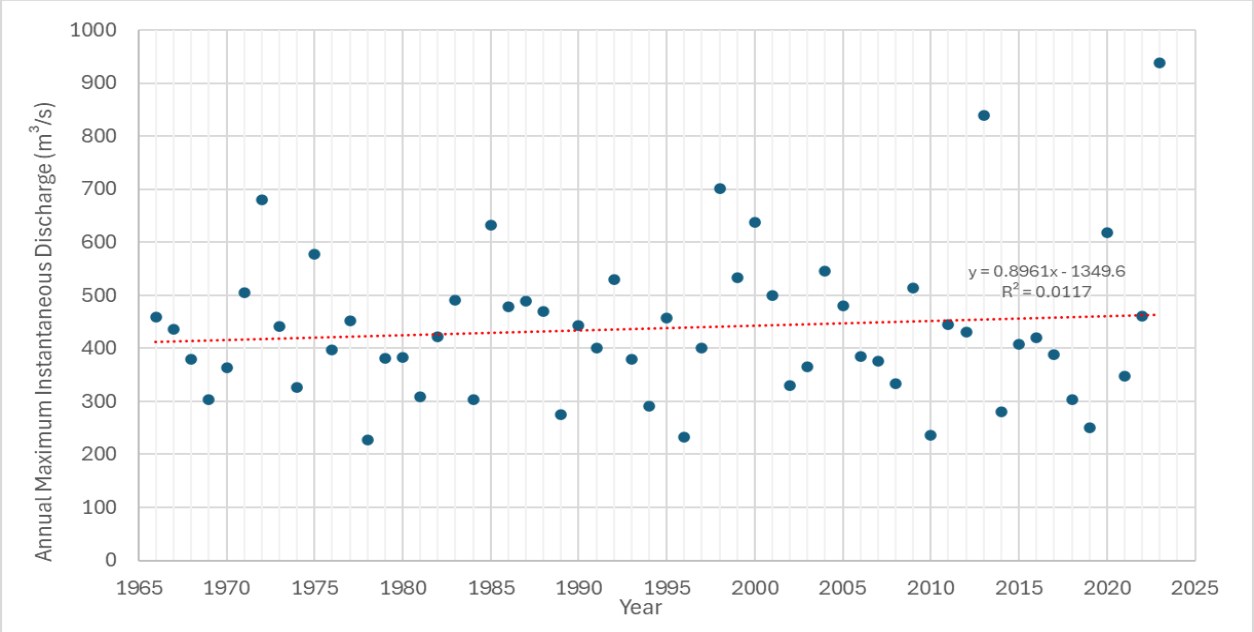

Figure 5-4 WSC Station 09EA003 Open Water Peak Flow Trend Analysis

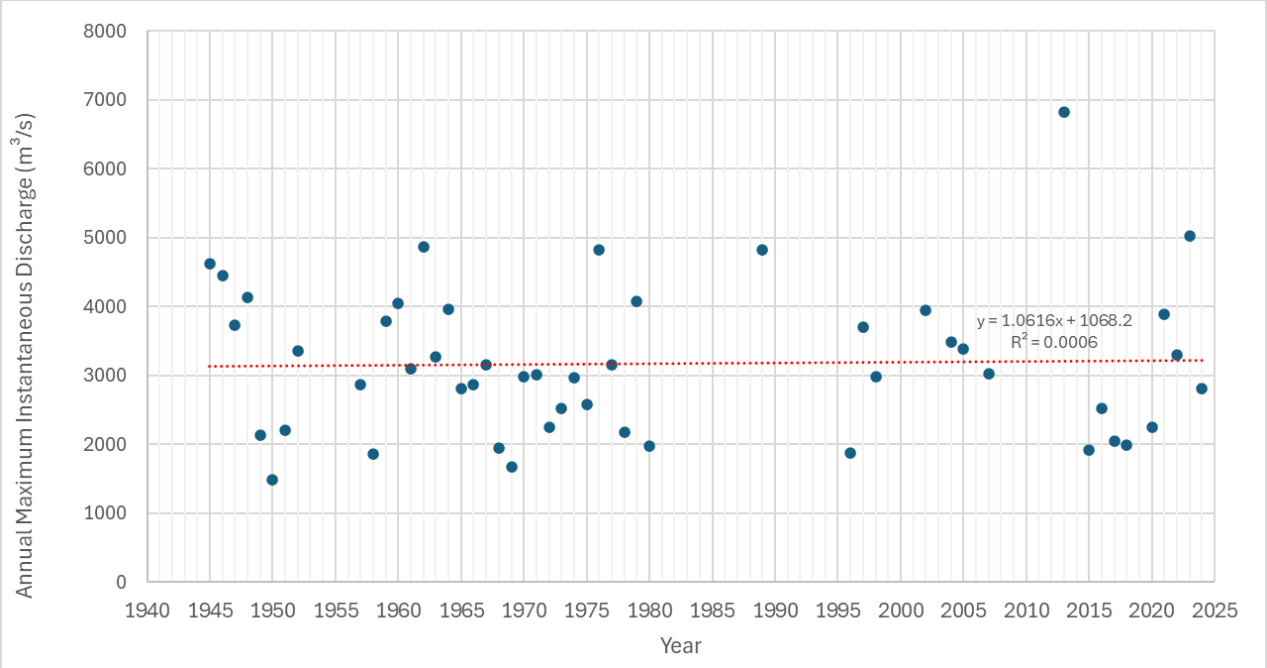

Figure 5-5 WSC Station 09EB001 Breakup Peak Flow Trend Analysis

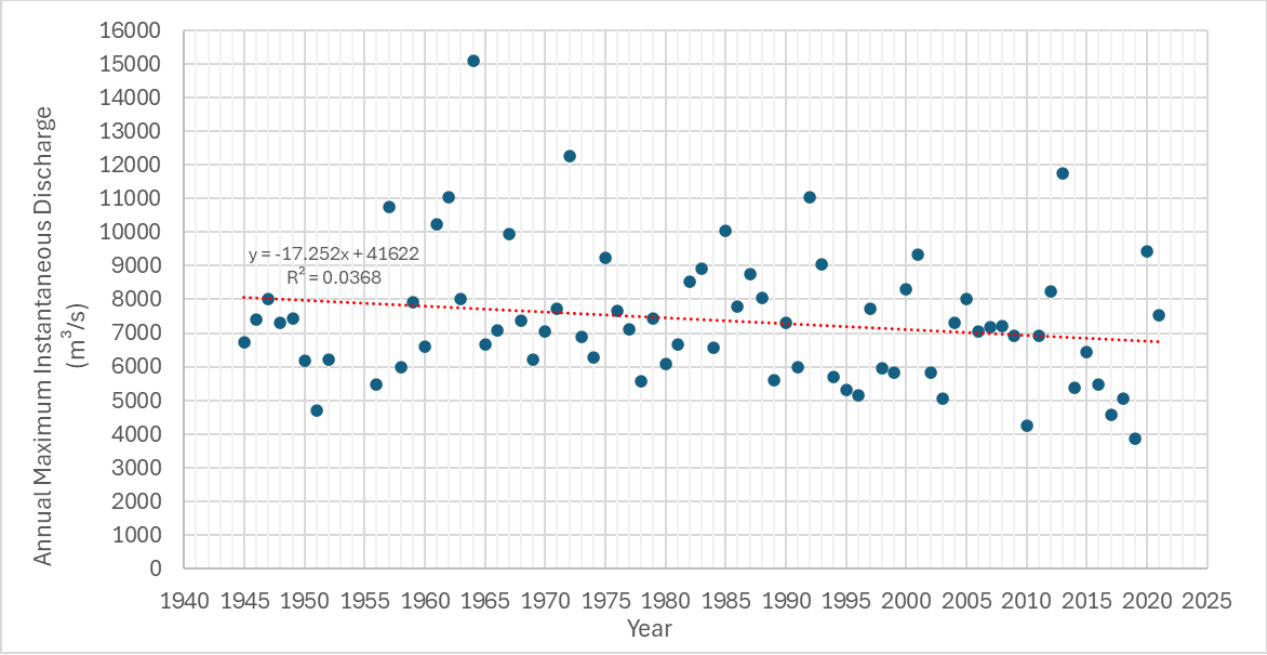

Figure 5-6 WSC Station 09EB001 Open Water Peak Flow Trend Analysis

Table 5-1 summarizes projected change to select meteorological parameters averaged across the Klondike River catchment, and across the Yukon River at Dawson catchment. The meteorological data averaging was completed through a grid sampling of the Intergovernmental Panel on Climate Change (IPCC) Working Group I (WGI) Interactive Atlas, Coupled Model Intercomparison Project Phase 6 Global Climate Models (CMIP6-GCMs) (Gutiérrez et al. 2021) as illustrated in Figure 5-7. The catchment grid sampling method provides a better representation of likely meteorological changes impacting the hydrology of the rivers of interest than evaluating data at a single meteorological station within the catchment(s).

The conclusions from the catchment-averaged meteorological projections summarized in Table 5-1 are that (in both catchments) temperature is projected to increase, precipitation (total, maximum 1-day, and maximum 5-day) is projected to increase, and winters (characterized by frost days) are predicted to shorten.

Table 5-1 Catchment-Averaged Meteorological Changes for 2081–2100 Relative to 1981–2010 (IPCC WGI Interactive Atlas, CMIP6 GCMs, Gutierrez et al. 2021)

Meteorological Variable	Climate Change Scenario	Median Change	
		Klondike River Watershed	Yukon River Watershed at Dawson
Mean Temperature Increase (°C)	SSP2-4.5	4.1	3.8
	SSP5-8.5	7.2	6.7
Total Precipitation Change (%)	SSP2-4.5	+20%	+18%
	SSP5-8.5	+34%	+30%
Maximum 1-day Precipitation Change(%)	SSP2-4.5	+23%	+21%
	SSP5-8.5	+42%	+40%
Maximum 5-day Precipitation Change(%)	SSP2-4.5	+20%	+21%
	SSP5-8.5	+41%	+37%
Average Frost Days Change (days)	SSP2-4.5	-27	-33
	SSP5-8.5	-50	-58

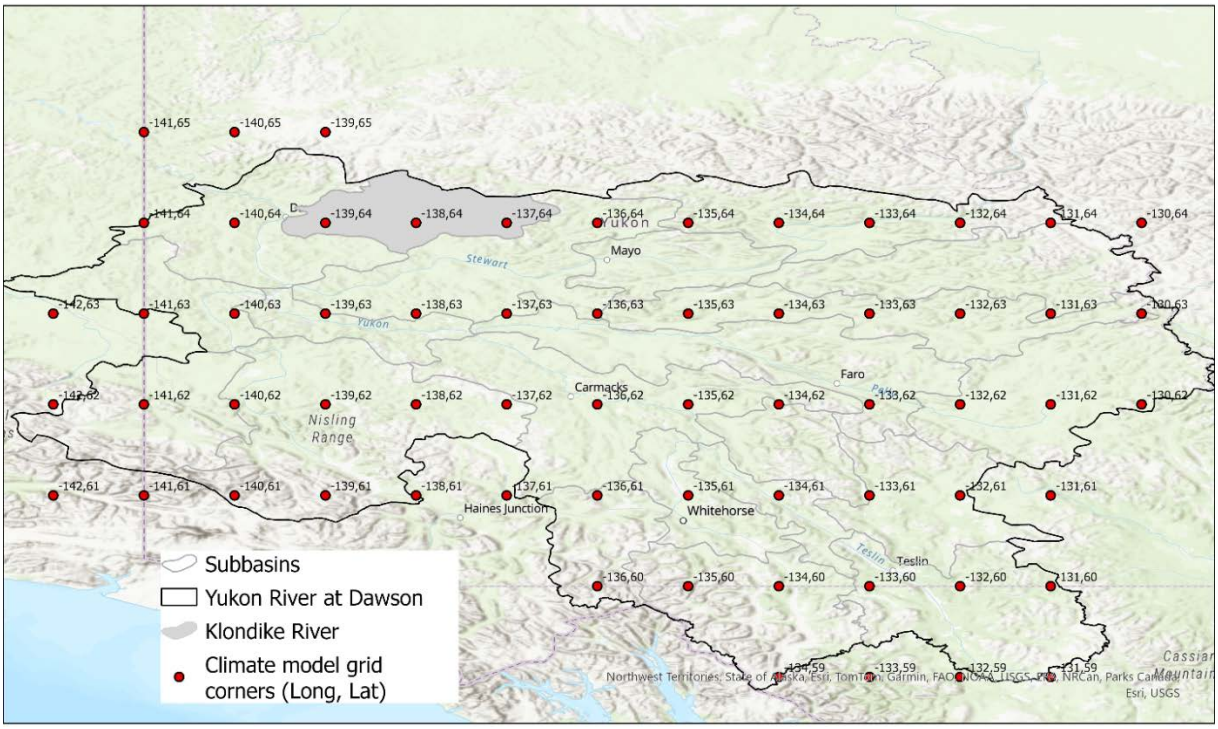

Figure 5-7 Yukon River Drainage Area Upstream of Dawson with IPCC Climate Model Grids Covering its Subbasins Including Klondike River

There are numerous published case examples and recommended methods for quantitatively incorporating climate change into AEP flow estimates where AEP flows are calculated using a deterministic hydrologic model (e.g., NRCan 2018; EGBC 2018). This Project does not calculate AEP flows from a deterministic hydrologic model, rather it uses single-station FFAs to develop AEP flow estimates. Therefore, these case examples and deterministic hydrologic methods not applicable.

EGBC (2018) provides some guidance for adjusting AEP flows based on projected precipitation changes if a statistically significant (presumably positive) trend exists in historical flows or precipitation:

> *"In large (seasonally driven) basins, adjust expected flood magnitude and frequency according to the best available regionally downscaled projections of annual precipitation and snowpack magnitude, assuming that the precipitation increment will all be added to peak runoff. For snowpack, compare projections with historical records of runoff from snowpacks of similar magnitude. Consider potential effects of plausible land use change. Combine the various effects if considered necessary."*

The above may be applicable for studies where AEP flows are calculated through single station FFAs. Although historical trends in peak flows at WSC Station 09EA003 and WSC Station 09EB001 were not statistically significant (Figure 5-3 through Figure 5-6), numerous studies have demonstrated historical positive trends in temperature and precipitation in the Yukon and across northern Canada (e.g., Research Northwest and Morrison Hershfield 2017; Streicker 2016; YG WRB 2011).

Therefore, an analysis in general accordance with the EGBC guidance was completed for this Project. This analysis considered an incremental precipitation increase in each of the catchments (from Table 5-1) that was added as runoff and distributed throughout the year proportionately to median flow on a daily basis. Figure 5-8 and Figure 5-9 illustrate the median annual flow hydrographs for WSC Station 09EA003 and WSC Station 09EB001 (respectively) including the runoff additions for SSP2-4.5 and SSP5-8.5. By this method, flows would increase by 25% and 43% at WSC Station 09EA003 and 20% and 34% at WSC Station 09EB001 for SSP2-4.5 and SSP5-8.5 respectively. The flow percentage increases are higher than the precipitation percentage increases from Table 5-1 because the entirety of precipitation in the incremental portion is converted to runoff (i.e., no losses) whereas a portion of the base annual precipitation is lost to infiltration, evaporation, evapotranspiration, and sublimation.

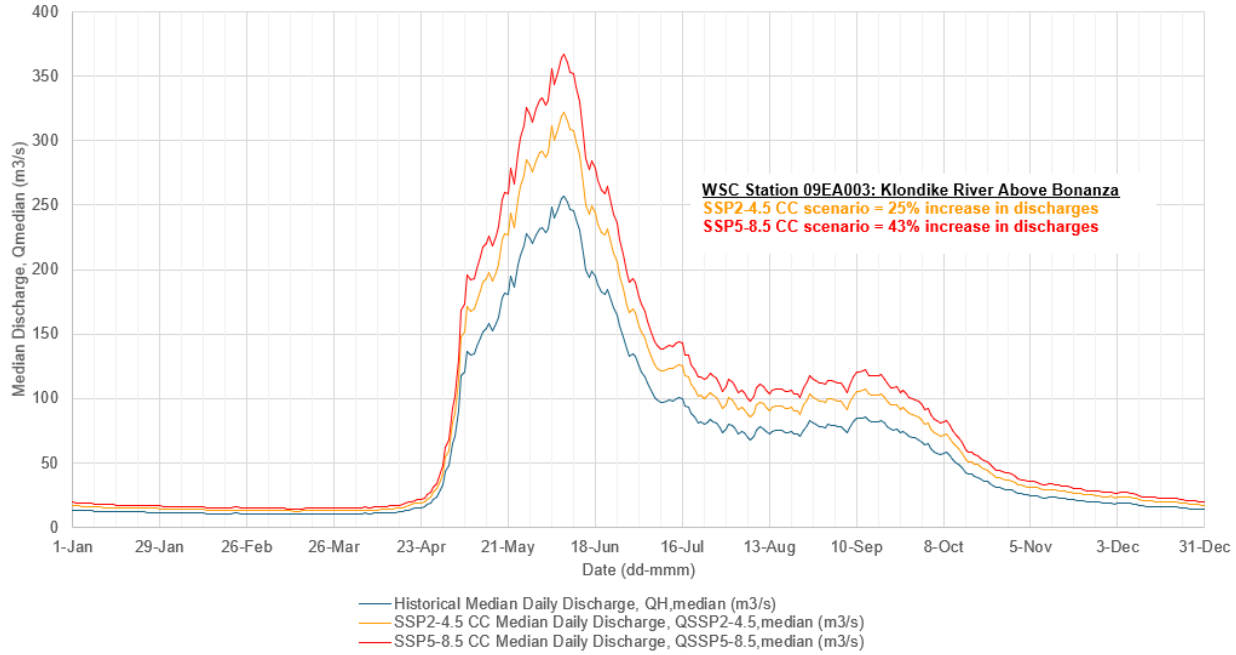

Figure 5-8 WSC Station 09EA003 Median Annual Flow Hydrograph with Incremental Precipitation Added as Runoff for SSP2-4.5 and SSP5-8.5

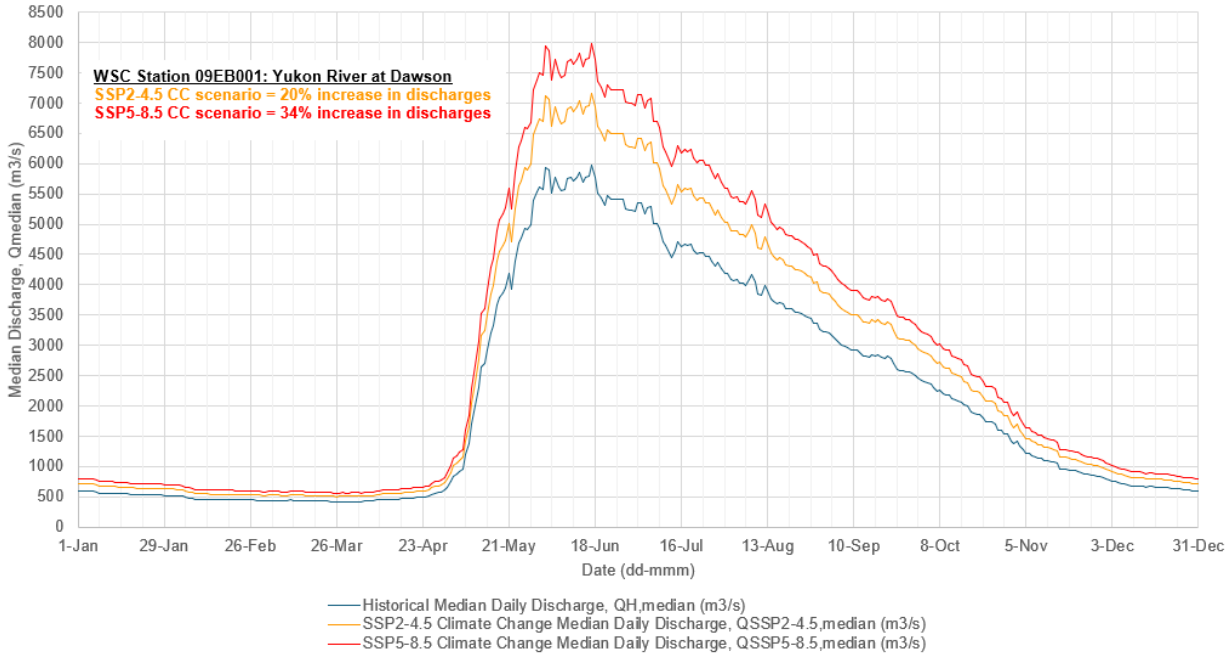

Figure 5-9 WSC Station 09EB001 Median Annual Flow Hydrograph with Incremental Precipitation Added as Runoff for SSP2-4.5 and SSP5-8.5

5.2 Land Cover Change

For the purposes of this Project, four potential watershed-scale land cover changes have been considered to potentially impact flood hydrology of the Klondike River and/or the Yukon River at Dawson:

1. Decrease in permafrost
2. Increase in development / impervious cover
3. Increases in bare / hydrophobic soil coverage from forest fires
4. Change to vegetation cover / composition

5.2.1 Decrease in Permafrost

Climate change leading to permafrost degradation in northern Canada is well documented in literature and a frequent topic of study. Changes to permafrost properties would impact hydrology, mainly by altering the surface/subsurface flow processes throughout the year (Janowicz 2008). This Project is primarily concerned with the impacts to *flood* hydrology (i.e., breakup peak flows or open water peak flows) resulting from permafrost degradation. Permafrost is widespread in the AOI, with the majority of the Klondike River watershed in the extensive discontinuous permafrost zone (50–90%) and at least half of the Yukon River watershed at Dawson in the extensive discontinuous permafrost zone (50–90%).

Janowicz (2008) found that areas with continuous and discontinuous permafrost showed annual mean flows to have slight positive trends over three decades, while annual peak flows decreased (but not statistically significant).

For the purposes of this Project, annual peak flows are of interest. The findings of Janowicz (2008) suggest that if permafrost were to affect flooding at the AEPs being looked at here (20% AEP and greater), it would be a mitigating effect (i.e., reduce peak flows) if there was an effect at all. Therefore changes to flood flows due to permafrost degradation are considered negligible for the purposes of this Project.

5.2.2 Increase in Development / Impervious Cover

Almost none of the 264,000 km^2 Yukon River at Dawson watershed and the 7,800 km^2 Klondike River drainage basin are currently urbanized. It is not likely that anthropogenic development could be substantial enough in future years to impact the current flood flow hydrology. Although development in the floodplain of the AOI (as outlined in the RFP for this Project) could impact flooding, it will not impact the watershed scale hydrology related drivers of flooding. Therefore, it is anticipated that changes to flood flows, volumes and timing due to land development will be negligible for the purposes of this Project.

5.2.3 Increases in Bare / Hydrophobic Soil Coverage from Forest Fires

Following a fire event, the landscape is bare and (depending on nature of the fire) soil may become hydrophobic, meaning runoff will increase. These bare/hydrophobic conditions can persist from 3 to 10 years depending on the nature of the fire. Increases in forest fire coverage, frequency, severity, and intensity can increase flood flows:

- Increased fire could mean more areas are in a bare/hydrophobic soil state.
- Increased frequency means conifers may not reach reproductive age before burning again, therefore slowing revegetation of the burn area. (Brown and Johnstone 2012).
- Increased fire severity (depth of burn into the soil) slows regrowth of grasses, shrubs, and other early colonizers.
- Increased intensity (heat of burn) may make conifer seeds non-viable, therefore inhibiting regrowth.
- Bare land also accumulates more snow (less being intercepted by the canopy) and can have more rapid snow melt, both which can impact runoff.

AECOM (2021) predicts longer and hotter fire seasons, the effects of which may be offset by higher amounts of annual precipitation. For this reason, AECOM (2021) predicts that while overall fire risk may remain similar to the past, extreme drought and heat events associated with climate change may lead to larger and more extreme fires (in terms of severity and intensity). There are several perspectives and studies that suggest an overall increase in fire risk in the central Yukon. Central Yukon – including large portions of the Yukon River catchment and portions of the Klondike River catchment – is regarded as being one of the most fire-vulnerable areas of the Yukon (personal communication, YG Wildland Fire, 11 September 2024), while also having permafrost, soil conditions, and spruce-dominated forests that make recolonization more difficult than in the southern Yukon (personal communication, Yukon Plant

Ecology Lab, 11 September 2024). ClimateData.ca (2025) suggests increases to, among other fire risk metrics, Fire Weather Index (FWI) and fire season length in the central Yukon.

Given the information summarized above, it is possible that bare/hydrophobic soil coverage from forest fires may increase and/or persist for longer periods in the future in the Klondike River and Yukon River catchments. Depending on the location of the bare/hydrophobic soil within the catchment, these changes may cause increases to flood flows.

5.2.4 Change to Vegetation Cover / Composition

The type of vegetation in a catchment can impact many aspects of the hydrologic cycle, including snowpack retention/accumulation, evaporation, evapotranspiration, and sublimation. Bare soil would have the highest runoff coefficient followed by grasslands, then shrubs, then forests.

Changes to the type of vegetation and its coverage can occur from insect infestations, recolonization of landscapes following forest fires, and/or general species transitions stemming from a changing climate.

Insect Infestations. If vegetation is defoliated by insect infestations, runoff may increase through decreased interception and evapotranspiration. The Yukon Forest Health Report (YG 2016) classifies the cumulative severity of deforestation by active defoliators (Bruce Spanworm, Large Aspen Tortrix and Serpentine Leadminer). The Yukon River watershed upstream of Dawson City includes areas within Forest Health Zones 1, 2, 3, and 4 while the Klondike River Watershed includes areas within Forest Health Zones 2 and 3. Over 90% of Forest Health Zone 1, 2, and 4 have a “Low” cumulative severity of defoliation since 2000; 77% of Forest Health Zone 3 had a Low cumulative severity of defoliation since 2000. These results would suggest that defoliation due to insect infestations is unlikely to be a factor which notably increases flood flows in the Klondike River and Yukon River catchments.

Regrowth of Landscapes Following Forest Fires. As outlined in Section 5.2.3, the Klondike River and Yukon River catchments are projected to have increasing forest fire risk in the future. Brown and Johnstone (2012), Johnstone et al. (2010), and Johnstone and Chapin (2006) have suggested that this increase in forest fire frequency, severity, and intensity reduces the ability of spruce and pine to recolonize and landscapes transition to aspen dominated or potentially grassland (each of which would carry higher runoff coefficients than spruce/pine).

Species Transitions from a Changing Climate. The general expectation is that the forests within the southern Yukon may transition to deciduous (Reid et al. 2022; personal communication, YG Wildland Fire personnel and Yukon Plant Ecology Lab, 11 September 2024) and in some cases may alter boreal forest to grassland. These species transitions will impact the hydrologic regime of affected watersheds, although a consensus on directionality (increase or decrease to runoff) in the published literature was not conclusive based on Stantec’s review. However, an increase in temperature and precipitation may lead to the expansion of lodgepole pine and shrubs farther north and farther into the alpine (Reid et al. 2022; Rasouli et al. 2019) which would likely decrease runoff.

Given the information summarized above, it is difficult to predict how vegetation cover/composition changes will impact flood flows for the Klondike River and Yukon River. There are identified changes that would likely increase flows and others which would likely decrease flows.

5.3 Factor of Safety for Climate Change and Land Cover Change

The following conclusions can be made from the climate change assessment (Section 5.1) and land cover change assessments (Section 5.2):

- Published literature consistently recommends that climate change should be considered in hydrologic and flood studies but, given the variable ways that climate change can impact hydrologic processes, it is important to evaluate the impacts on a system-by-system basis.
- The Klondike River flood hydrology is likely sensitive to changes to snowpack, rainfall, and temperatures (increases to these may increase flood flows), and the Yukon River flood hydrology is likely sensitive to snowpack and temperatures (increases to these may increase flood flows).
- There are no statistical trends in historical peak flows for WSC Station 09EA003 or WSC Station 09EB001, although published literature has documented increasing trends in temperature and precipitation in the Yukon and northern Canada.
- By the year 2100, temperature is projected to increase by 4.1 to 7.2˚C, precipitation (annual total, 1-day maximum, 5-day maximum) is projected to increase by 17 to 42%, and winter (as characterized by frost days) is projected to decrease by 27 to 58 days.
- Adding incremental precipitation as runoff following methods of EGBC (2018) results in an estimated increase in discharge of 25–43% on the Klondike River, and 20–34% on the Yukon River.
- It is unlikely for permafrost degradation and catchment-scale anthropogenic development to increase flood flows.
- Hydrophobic soil coverage may increase as the temperatures and fire season length increase in the central and northern Yukon which may increase runoff.
- Changes to vegetation composition may occur but their impact on flood hydrology is difficult to predict.

Given the above and a meeting with YG WRB, NRCan, and ECCC staff on December 17, 2024, Stantec adopted a Factor of Safety for Climate Change and Land Cover Change of 1.4 for the Klondike River and 1.3 for the Yukon River. Flat Creek, as it is within the Klondike River watershed, will consider the Klondike River Factor of Safety of 1.4. These Factors of Safety will be applied to the 0.5% AEP flows to form the 0.5% AEP + CC/LCC hydraulic model runs and sets of maps.

6 Fluvial Erosion Hazard Assessment

A qualitative fluvial erosion hazard assessment was completed within the AOI to identify geomorphic change that has occurred in the Klondike and Yukon Rivers in recent history. Flat Creek and other tributaries to the Klondike River and Yukon River were not included in this assessment. The objective of this assessment is to consider observed geomorphic changes to the Klondike and Yukon Rivers in the context of impacts to flood mapping extents and to make a recommendation on whether a detailed quantitative fluvial hazards assessment should be carried out, based on the determination of whether observed geomorphic changes could change the spatial distribution of flooding through changes in channel size and location.

Table 6-1 identifies and describes ten fluvial erosion hazard types which are often considered in fluvial erosion hazard assessments. As outlined in the right column of Table 6-1**,** fluvial hazards 1–4 and 8–10 were considered in this Project. Hazards 5–7 require thalweg profile data over a number of years to assess. This data does not exist for the Klondike and Yukon rivers in the AOI, and therefore Hazards 5–7 were not considered in this Project.

Ice processes are substantial agents of change in the Klondike and Yukon rivers and contribute to the overall fluvial hazard profile of the watercourses. An analysis of hazards associated with ice processes is not included in this assessment due to limitations in data availability.

Table 6-2 provides a summary of the aerial imagery capture dates, the sources for each, and the peak daily flows recorded at WSC Station 09EA003 and WSC Station 09EB001 on the day of aerial imagery capture. Aerial imagery is available for select zones of the Klondike River within the AOI at earlier dates; however, the spatially incomplete nature of these data precluded their use in this AOI-wide fluvial erosion hazard assessment. Between the years of available imagery for the Klondike River (2015 to 2024), the Klondike River experienced numerous high water events, most notably in 2023 with back-to-back ice jam and open water flooding (discussed in Section 2.2.4). Although the years between available aerial imagery is shorter than ideal for a fluvial erosion hazard assessment, the occurrence of substantial flood events mean that fluvial erosion processes are likely to be observed when comparing the 2015 and 2024 imagery.

Table 6-1 Potential Fluvial Erosion Hazards

Fluvial Hazard		Hazard Type	Description	Identified in the AOI
1.	Avulsion	Lateral, vertical	A change in river course caused when a large section of river is abandoned in favour of a new planform alignment. May also be the reoccupation of a previously abandoned channel.	Yes
2.	Fluvial Bank Erosion	Lateral	Flow-induced destabilization and transport of material from a riverbank. Results in lateral channel change.	Yes
3.	Bar/Island Evolution	Lateral, vertical	A change in bar or island size, shape, location, and/or vegetation cover as a result of flow-induced destabilization.	Yes
4.	Beaver Activity	Lateral, vertical	Beaver dams may contribute to avulsions if increased water levels upstream of the structure facilitate flow to adjacent abandoned side channels or other low-elevation areas. A breach of a beaver dam may result in erosion, deposition, and vertical incision impacting the surrounding channel morphology.	Yes
5.	Bedform Migration	Vertical	A change in bed elevation by the movement of material as a coherent feature, typically in sand-bedded channels. Bedforms include dunes, ripples, and anti-dunes. Bedform migration results in dynamic erosion causing fluctuations in the local hydraulic geometry of the channel.	Insufficient data to assess
6.	Incision/Scour	Lateral and Vertical	Refers to downcutting of a channel through erosion of bed material. Incision results in deepening of the channel and can lead to bank erosion if the banks become undermined.	Insufficient data to assess
7.	Knickpoint Migration	Vertical	Characterized by a sudden drop in elevation along the channel profile. A knickpoint may migrate upstream through erosion of bed material, resulting in a change to morphology	Insufficient data to assess
8.	Channel Cut-off	Vertical	A type of avulsion that cuts off a single meander loop. May be caused by flood flows that cross the meander neck and cut a channel which abandons the meander loop (chute cutoff), or by gradual bank erosion which “pinches off” the meander loop (neck cutoff). May lead to rapid channel degradation through head-cutting as the channel seeks to re-establish a stable grade.	Yes
9.	Meander Migration	Lateral	The progressive shifting of a meander caused by long term bank erosion on one bank.	Yes
10.	Woody Debris Accumulation	Lateral, vertical	Downed trees and other woody debris from the floodplain may deposit in the channel, creating an avulsion hazard upstream due to water impoundment, and an erosion hazard downstream if the debris accumulation breaches and releases a pulse of sediment and water downstream.	Yes

Table 6-2 Summary of Available Aerial Imagery

River	Imagery	Date of Capture	Estimated Discharge (m^3/s)
Klondike River	Orthoimagery	August 7, 2024	87
	ESRI Wayback digital images	July 23, 2015/September 4, 2015	109/135
Yukon River	GeoYukon	September 11, 1961	2,920
	ESRI Wayback digital images	June 5, 2023/July 5, 2023	5,030/4,890
	Orthoimagery	June 7, 2019/June 11, 2019/June 13, 2019	3,256 / 2,615 / 2, 666 (estimated using USGS open water regression

Bank lines were delineated and general morphologic features were identified in a detailed review of the above aerial imagery. The ability to accurately identify channel features was limited by a number of factors, including the quality of the aerial imagery, water level at the time of air photo acquisition, flight-line angle, and the presence of bank-obscuring features within the image (e.g., overhanging vegetation, shadows). Quality of the available imagery was also a factor which varied with each image observed. To account for relative submergence of channel features due to differences in flow volume between successive image capture dates, daily peak discharge values were obtained from the WSC gauge stations used in the hydrologic analysis for the dates the aerial imagery was taken. Where banks were obscured by floodplain features such as overhanging vegetation, the bank line delineation was interpolated by upstream and downstream bank positioning. The interpolated bank was assessed for reasonableness based on relative width and typical cross section expected based on local channel planform.

Each delineated reach was compared between successive aerial images to identify changes in channel characteristics (i.e., erosional features) or the presence of potential hazards (i.e., beaver dams and woody debris accumulations) to inform the fluvial erosion hazard assessment. Maps identifying the locations of the observed hazards and channel changes are provided in Appendix C.

6.1.1 Klondike River

The Klondike River is unregulated along its mainstem, and anthropogenic barriers to flow and sediment transport (e.g., dams) were not observed in the available aerial imagery. Information on bed, bank, and floodplain material was obtained from site photographs collected by Stantec field crews in the summer of 2024 and available surficial geology data. The Klondike River flows through a narrow valley bounded by the surrounding hillslopes. The floodplain materials are almost entirely unconsolidated glacial and fluvial deposits within the valley walls (Green and Roddick 1961). From the available photographs, the bed appears to be largely composed of gravel- and cobble-sized material. Exposed bank material was observed to be typically composed of a non-cohesive range of sediment sized from fine sands to cobble.

Quantitative information was not available on the sediment transport regime and such an analysis is beyond the scope of this Project; however, the Klondike River is generally regarded to have a relatively active sediment transport regime. This was evidenced by the relatively clean (i.e., recently transported) bed material throughout the AOI despite turbid freshet flows (Photograph 1 through Photograph 31, Appendix A).

The Klondike River was divided into fifteen reaches based on sections of channel with observable similarity. Reaches are numbered from 1 at the downstream extent of the AOI to 15 at the upstream extent. Reach breaks are provided in Figure 6-1. Determination of reach extents was limited by the availability of data and as such, reach delineation was largely based on channel planform morphology. Reach characteristics were observed or measured using the 2024 orthoimagery. Table 6-3 provides select reach-scale details.

Table 6-3 Summary of Klondike River Geomorphic Characteristics

Reach No.	Length (m)	Average Bankfull Width (m)	Average Valley Width (m)	Sinuosity	Channel Planform	Hazards Observed
1.	2,430	146	386	1.24	Low-sinuosity Meander	Bank Erosion Bar/Island Evolution Channel Migration
2.	4,594	87	1,149	1.09	Low-sinuosity Meander	None
3.	6,495	84	1,670	1.19	Low-sinuosity Meander	Avulsion Bank Erosion Bar/Island Evolution Channel Cut-Off Channel Migration
4.	2,930	81	1,380	1.18	Low-sinuosity Meander	Channel Migration
5.	5,749	84	1,533	1.24	Wandering Gravel Bed	Avulsion Bank Erosion Bar/Island Evolution Channel Cut-Off Channel Migration
6.	2,074	96	997	1.04	Straight	None
7.	4,489	89	1,469	1.19	Low-sinuosity Meander	Bar/Island Evolution Channel Migration
8.	3,575	77	2,126	1.09	Wandering Gravel Bed	Bar/Island Evolution Channel Migration
9.	4,970	92	3,153	1.29	Low-sinuosity Meander	Channel Migration
10.	3,348	88	3,115	1.33	Wandering Gravel Bed	Avulsion Bar/Island Evolution Channel Migration

Reach No.	Length (m)	Average Bankfull Width (m)	Average Valley Width (m)	Sinuosity	Channel Planform	Hazards Observed
11.	3,536	96	2,576	1.16	Low-sinuosity Meander	Bar/Island Evolution Channel Migration
12.	3,852	99	3,175	1.12	Low-sinuosity Meander	Channel Migration
13.	2,996	82	5,290	1.07	Low-sinuosity Meander	Avulsion Bar/Island Evolution Bank Erosion Channel Migration
14.	3,136	58	6,362	1.35	Moderately Sinuous Meander	Avulsion Bar/Island Evolution Channel Cut-Off Channel Migration
15.	4,412	43	5,079	N/A	Anastomosed	Avulsion Bar/Island Evolution Channel Cut-Off Channel Migration

Figure 6-1 shows the locations of observed fluvial erosion hazards identified within Klondike River AOI. The following sub-sections present select examples of each of the fluvial hazards as identified within Klondike River AOI.

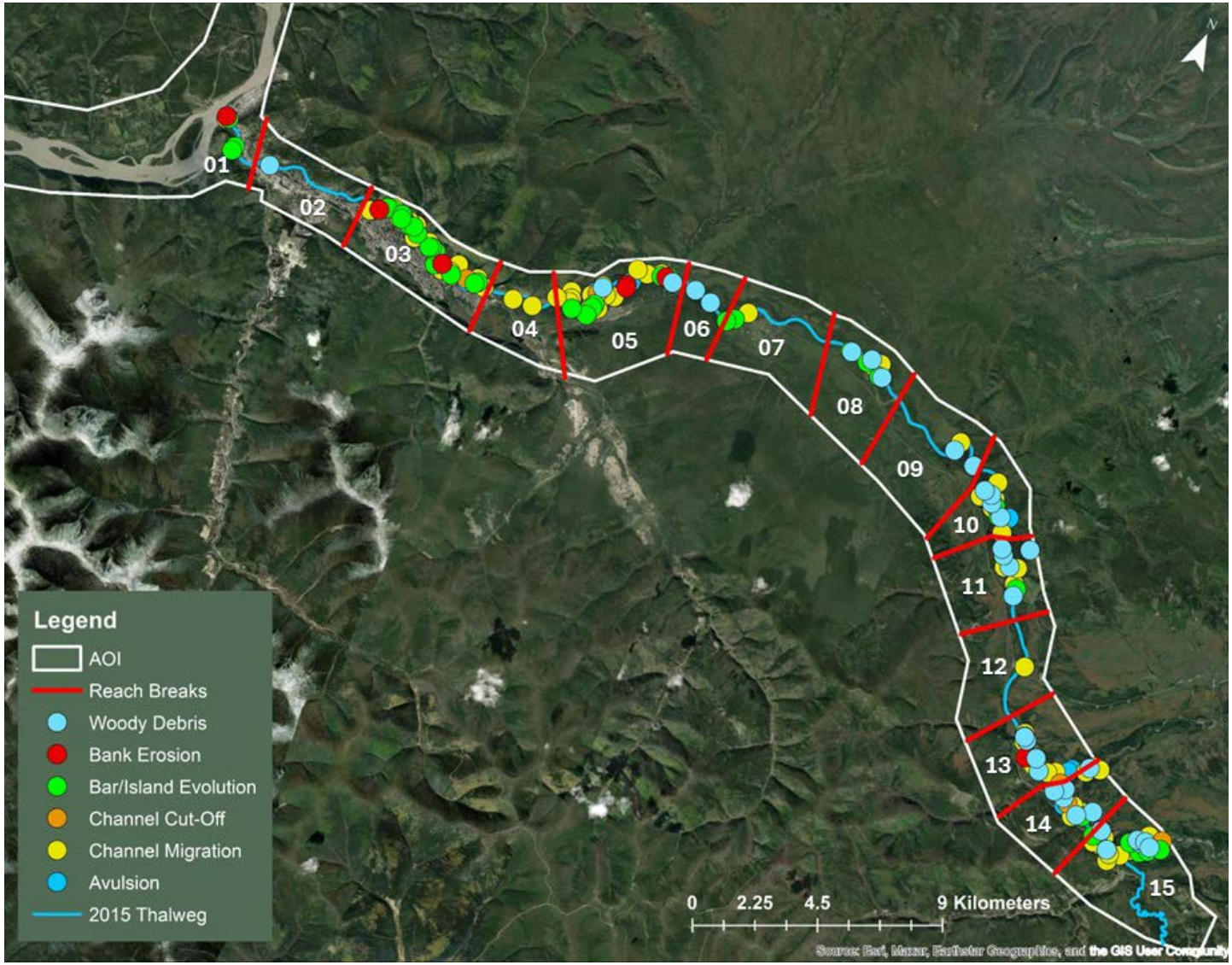

Figure 6-1 Klondike River AOI Reach Breaks and Observed Fluvial Hazard Locations

6.1.1.1 Avulsions and Meander Cut-offs

Due to the similarity in channel response, examples of avulsions and meander cut-offs are combined in this section. Evidence of the occurrence of channel avulsions between 2015 and 2024 were observed in Reaches 3, 5, 10, 13, 14, and 15, and of meander cut-off in 3, 5, 14, and 15. Observed avulsion included:

- Erosion of a new channel into the floodplain, likely a result of overland flow (e.g., avulsion b and c in Figure C-1 in Appendix C, avulsion a in Figure C-3 in Appendix C, and avulsion a in Figure C-4 in Appendix C).
- Shifting the larger fraction of discharge into a smaller existing channel, resulting in it becoming the main channel (e.g., avulsion a in Figure C-1 in Appendix C).
- Re-occupation of a previously abandoned channel (e.g., avulsion a and b in Figure C-2 in Appendix C).
- The slower progressive shifting of a higher fraction of the flow volume from one channel to the other (e.g., location b in Figure C-3 in Appendix C).
- Meander cut-off paired with avulsion (e.g., location a in Figure C-4 in Appendix C).

6.1.1.2 Bank Erosion and Channel Migration

Bank erosion and channel migration are considered together as they are both the result of displacement of bank material by flow. Figure C-5 in Appendix C shows side by side imagery from 2015 (left) and 2024 (right) that provides a specific example of progressive bank erosion while Figure C-6 through Figure C-9 in Appendix C show meander migration locations at the reach scale at several locations. Meander migration was by far the most prevalent channel change observed on the Klondike River within the AOI. This process results in a wide active floodplain.

6.1.1.3 Bar and Island Evolution

Changes in bar and island size, shape, and /or vegetation cover was categorized under the bar and island evolution hazard. Examples of bar and island evolution are provided in Figure C-10 and C-11 in Appendix C. These changes appear to have been brought about by:

- Bank erosion (e.g., location a in Figure C-6 in Appendix C and location a in Figure C-7 in Appendix C).
- Surface erosion and denudation of island vegetation (e.g., location b, c, and e in Figure C-6 in Appendix C and location a in Figure C-7 in Appendix C).
- Progressive shifting of bank and bed material to translate the bar or island downstream (e.g., location d, f, and g in Figure C-6 in Appendix C).

Changes in bar or island shape, size, and location results in a change to the hydraulic geometry of a channel and can contribute to increases in flow pressure to the bed and banks of the sounding channel, which can lead to further destabilization.

6.1.1.4 Large Wood Accumulation and Beaver Dams

Accumulations of large wood and constructed beaver dams may lead to/instigate the fluvial hazards listed above, including avulsion, meander cut-off and migration, and bar evolution. These accumulations typically occur on smaller channels. In the case of the Klondike River AOI, they typically occur in side channels and tributaries of the mainstem. Accumulations of large wood may, however, collect on mainstem channel bars (commonly at the upstream extent, and at the mouth of side channels, which can alter the flow dynamics in the mainstem. Select examples are provided in Figure C-12, Figure C-13, Figure C-14, and Figure C-15 in Appendix C.

6.1.2 Yukon River

Within the AOI, the Yukon River consists of a largely single-thread channel of width varying between approximately 350 m to 1,070 m flowing within a 1–3 km wide valley. The planform morphology displays a straight to low-sinuosity meandering mainstem with side-channels extending around stable islands within the active floodplain.

The floodplain materials are almost entirely unconsolidated glacial and fluvial deposits within the valley walls bounding the Yukon River (Green and Roddick 1961). From available imagery and 2024 field observations in Photograph 55 to Photograph 77 in Appendix A, the bed appears to be largely composed of gravel- and cobble-sized material which is consistent with the sand, gravel, and cobble bed reported by Gerard et al. (1992). Finer gravel and sand bed regions are present on channel margins and, based on multi-beam echosounder visualizations of dune bed morphology in the field survey of 2024, through the deeper portion of the Yukon River through Dawson City. Exposed bank material was observed to be typically composed of a non-cohesive range of sediment sized from fine sands to cobble. Quantitative information was not available on the sediment transport regime in the Yukon River within the AOI and such an analysis is beyond the scope of this Project.

The Yukon River was divided into three reaches based on sections of channel with observable similarity. Determination of reach extents was limited by the availability of data and as such, reach delineation was largely based on channel planform morphology. Reach characteristics were observed or measured using the 2023 orthoimagery. Table 6-4 provides select reach-scale details and Figure 6-2 provides an overview image of the Yukon River within the AOI, including the reaches delineated as part of this assessment.

Table 6-4 Yukon River Reach Characteristics

Reach No.	Length (m)	Average Bankfull Width (m)	Average Valley Width (m)	Sinuosity	Channel Planform	Hazards Observed
1	9,228	767	1,406	1.03	Straight	None
2	4,557	370	936	1.04	Straight	None
3	8,844	1,067	1,533	1.17	Low-Sinuosity Meander	None

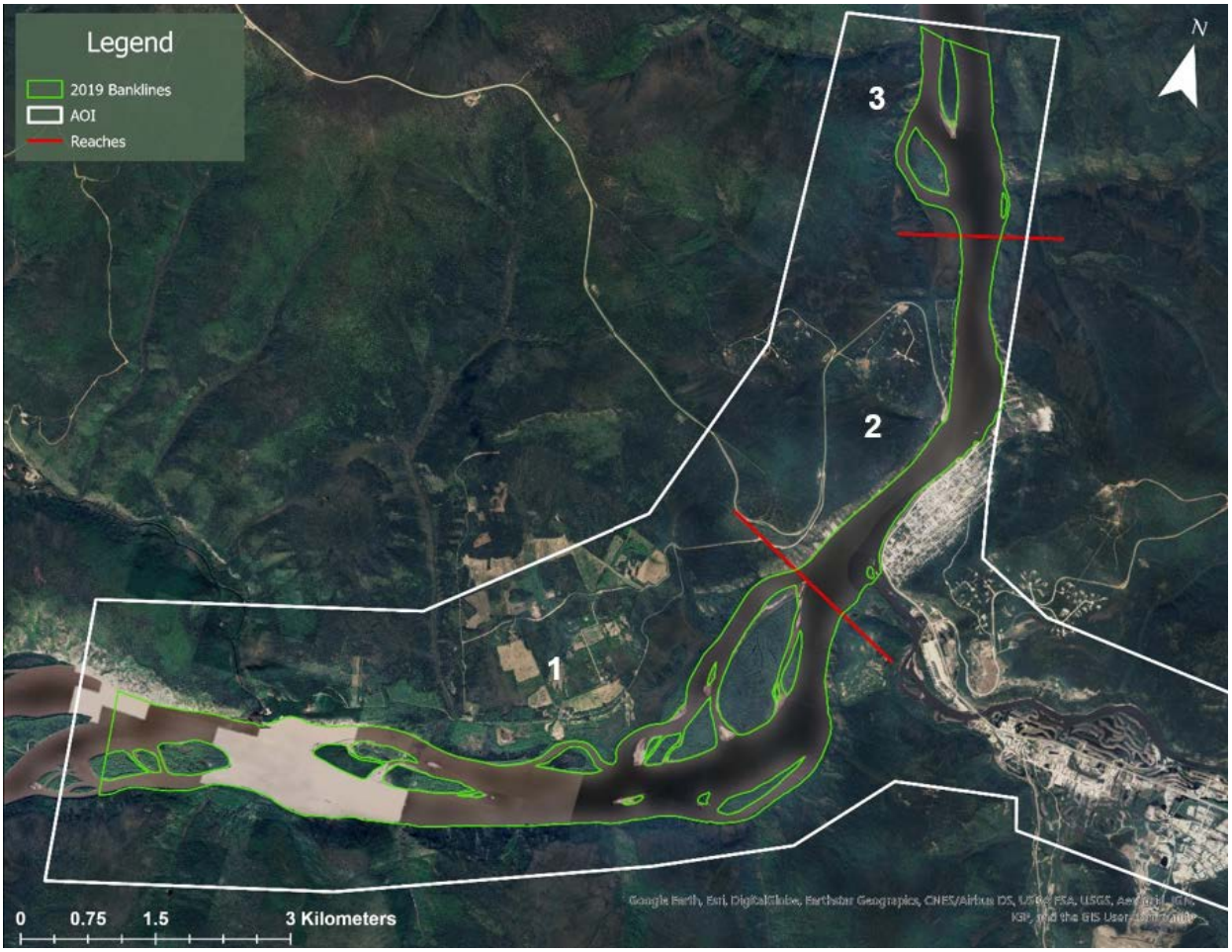

Figure 6-2 Yukon River AOI Reach Breaks

Appreciable change to the channel banks or floodplain were not observed in the aerial imagery for the Yukon River between 1961 and 2023. Lateral movement of the channel is restricted by the confinement of the narrow bedrock valley walls and diking along the channel within the Dawson City limits. Meaningful change was not observed in island position between 2019 and 2023; however, changes were observed in the islands between 1961 and 2019. Specifically, both erosion and growth were observed over this time period. The locations where these changes were observed are provided in Figure C-16 in Appendix C. The islands were observed to be heavily vegetated in the available aerial imagery, which contributes to their overall stability and resistance to erosion under high flow conditions. While erosion and growth were observed, the overall shape and location of these islands did not change substantially. Changes in bar and island size and location is considered a hazard if it causes a change to the direction of flow or a reduction in channel cross-sectional area. These instances could increase the angle and force of flow onto banks and increase the occurrence of bank erosion. Additionally, bar or island growth could reduce the channel capacity, resulting in overland flooding conditions under lower flows.

6.1.3 Summary of Fluvial Erosion Hazard Assessment

The Klondike River is a highly dynamic system characterized by frequent change to the channel size, shape, sinuosity, and position within the valley. Comparison of the delineated banks, thalweg, and bars between 2015 and 2024 indicates the Klondike River is a highly active watercourse, even over the short period of time that was available for observation. Observations of aerial imagery indicate that the Klondike River is prone to avulsion, bank erosion, bar and island evolution, meander cutoff and migration. Further to the identification of these fluvial hazards, beaver dams and accumulations of large woody debris were observed in the aerial imagery and have the potential to induce further channel change.

Observations of aerial imagery on the Yukon River suggest the channel is relatively stable within the AOI, with no appreciable change to the reaches of the channel observed between 1961 and 2023. While changes were observed to islands within the channel, evidence was not observed to suggest that the changes impact bank stability. The Yukon River is largely confined by narrow walls within the AOI, which limit the ability of the river to meander and avulse in ways seen in the Klondike River. There is potential for bars to evolve or for the mainstem of the river to shift greater volumes of flow into side channels in Reaches 1 and 3. Changes such as these would have the potential to alter the wetted width of the channel and have implications for flood mapping extents.

Given the documented erosion, channel migration, and avulsion risks on the Klondike River, detailed fluvial hazard studies delineating migration corridors are recommended following the guidelines presented in (ECCC and NRCan 2025). The Yukon River appears to be comparatively more stable which means detailed fluvial erosion study is less of a priority on the Yukon River than on the Klondike River. Should detailed fluvial erosion hazard studies be initiated, they should include both lateral (e.g., bank erosion/channel migration, avulsion, woody debris accumulation) and vertical (e.g., bedform and knickpoint migration, ice jam formation in shallow riffled sections) hazards that may influence the extent of flood hazards on the river.

7 Detailed Surveys

The detailed site survey was completed over multiple trips during the summer of 2024 (June, July, August, September) by Underhill Geomatics Ltd. (Underhill), Stantec, and Klondike H2O staff.
The detailed site survey included the following:

- Establishment of survey control.
- Survey of “verification points” along certain areas of the roads/highways and river corridor overlapping the Canadian Quality Level 1 (CQL1) Light Detection and Ranging (LiDAR) data provided by YG to Stantec (collected June 8-10, 2019), to verify datum agreement between survey and LiDAR.
- Survey of WSC benchmarks and verification of WSEs at WSC Station 09EA006 (Klondike River at Rock Creek), WSC Station 09EA003 (Klondike River above Bonanza Creek), and WSC Station 09EB001 (Yukon River at Dawson).
- On Flat Creek:
  - Survey of the Flat Creek bridge including deck, soffit, abutments, and photographs.
  - Survey of five cross-sections.
- On the Klondike River in the AOI:
  - Qualitative observation of bankfull and overbank conditions including photographic inventory.
  - Documentation of anecdotal flooding/ice process information identified by community members, YG personnel, and/or Yukon University personnel.
  - Open water freshet flow and corresponding WSE profile within the downstream 47 km of the AOI.
  - Riverbed profile within the downstream 47 km of the AOI.
  - Survey of high water marks (HWMs), ice scar marks and ice jam toe/head locations associated with 2023 ice jam and open water flood events.
  - Survey of 121 cross-sections throughout the AOI.
  - Survey of the Klondike River Bridge (Dempster Highway) and Klondike River Bridge (Klondike Highway) including deck, soffit, abutments, and photographs.
- On the Yukon River in the AOI:
  - Qualitative observation of bankfull and overbank conditions including photographic inventory.
  - Documentation of anecdotal flooding/ice process information as identified by community members, YG personnel, and/or Yukon University personnel.
  - Open water freshet flow and corresponding WSE profile within the AOI.
  - Riverbed profile within the AOI.

- Survey of observed HWMs, ice scar marks, and ice jam toe/head locations (where known/present) for the 1979 flood and the 1998 flood, as available.
- Bathymetric survey of approximately 6.0 km of river through the main part of the community (bathymetry reach).
- Survey of 12 cross-sections upstream and downstream of the bathymetry reach within the AOI, and one additional cross-section approximately 300 m downstream of the AOI.

The various detailed site survey elements are illustrated in plan view in Figure D-1 through Figure D-9 in Appendix D. The survey methods used for collection of various components of the detailed site survey are summarized in Table 7-1.

Table 7-1 Summary of Survey Methods

Detailed Survey Component		Survey Equipment / Method				
		RTK GPS Handheld Rover Pole	**Single Beam Echosounder w/ RTK GPS Integration**	**Multi-Beam Echosounder w/ RTK GPS Integration**	**Total Station w/ RTK GPS Integration**	**Flow Meter or Acoustic Doppler Current Profiler**
Survey Control and LiDAR Verification		Y	Y	N	N	N
Flat Creek	Cross-Sections	Y	Y	N	N	N
	Hydraulic Structures	Y	N	N	Y	N
Klondike River	Open Water High Flow Validation Event	Y	N	N	N	Y
	HWMs, Ice Scars, Ice Jam Toe Locations	Y	N	N	N	N
	Cross-Sections	Y	Y	N	N	N
	Hydraulic Structures	Y	N	N	Y	N
Yukon River	Open Water High Flow Validation Event	Y	N	N	N	Y
	HWMs, Ice Scars, Ice Jam Toe Locations	Y	N	N	N	N
	Bathymetry Reach	Y	Y	Y	N	N
	Cross-Sections	Y	Y	Y	N	N
	Hydraulic Structures	Y	N	N	Y	N

7.1 Survey Control

Four survey control points were established in the AOI by Underhill (Figure 1-1). Control point coordinates are provided in Table 7-2 and are referenced to the relevant geodetic systems through a 4-hour Global Navigation Satellite System (GNSS) Precise Point Positioning (PPP) observation at control points 9387061 and UGL_962. Control points UGL_009 and UGL_966 were tied to 9387061 and UGL_962 using static GNSS observations and a least squares adjustment. The GNSS PPP observation was collected on June 2, 2024 and had occupational precision of +/- 0.015 m horizontally and +/- 0.020 m vertically.

Table 7-2 Survey Control Points

Control Point ID	Northing (m) [1]	Easting (m) [1]	Elevation (m) [2]
9387061	7102928.098	577642.151	404.221
UGL_009	7105283.180	593987.909	378.473
UGL_966	7104425.836	601883.634	403.403
UGL_962	7097883.873	610251.444	437.479

Notes:
[1] Referenced to North American Datum of 1983 (NAD83), Canadian Spatial Referencing System (CSRS), Zone 7N
[2] Referenced to Canadian Geodetic Vertical Datum 2013 (CGVD2013)

7.2 Datum Agreement

Survey data collected during the detailed site survey was post-processed by Underhill in Trimble Business Centre (TBC). Following post-processing, the detailed survey data were consistently within acceptable survey tolerances (+/- 0.1 m) for river surveys when compared to the LiDAR data provided to Stantec by YG.

7.3 WSC Benchmark Surveys

Coordinates (northing, easting, elevation) for the WSC benchmarks and WSEs during the detailed field survey, along with the elevations provided through station records and reported datum conversions to CGVD2013 by GoC (2024a), are summarized in Appendix D.

WSC Station 09EA003 demonstrated agreement between the surveyed benchmark and WSE elevations and those reported by GoC (2024a). Benchmark elevation and WSE differentials between the detailed site survey and WSC were consistently within 0.03 m with the exception of two points where the greater differentials could be explained (detailed in Appendix D). The WSC reported WSEs at WSC Station 09EA003 were considered verified for use in this Project.

WSC Station 09EA006 demonstrated agreement between the surveyed benchmark and WSE elevations and those reported by GoC (2024a). Benchmark elevation and WSE differentials between the detailed site survey and WSC were consistently within 0.03 m with the exception of one point where the differential was 0.04 m (detailed in Appendix D). The WSC reported WSEs at WSC Station 09EA003 were considered verified for use in this Project.

WSC Station 09EB001 demonstrated general agreement between the surveyed benchmark and WSE elevations and those reported by GoC (2024a). Benchmark elevation and WSE differentials between the detailed site survey and WSC were approximately -0.06 m, which is considered on the outer bound of acceptable tolerances for detailed engineering work although is considered acceptable for flood mapping purposes. Therefore, WSC reported WSEs at WSC Station 09EB001 were considered verified for use in this Project; however, follow up survey efforts may be warranted to reduce this differential as it may have impacts for detailed engineering work which rely on the data from WSC Station 09EB001.

7.4 Flat Creek

Locations and identifiers of detailed survey features for Flat Creek are illustrated in plan view in Figure D-9 in Appendix D.

7.4.1 Cross-Section Survey

Five cross-sections were surveyed on Flat Creek: one immediately upstream of the Flat Creek Bridge, one immediately downstream of the bridge and three additional cross sections within the AOI.

7.4.2 Hydraulic Structure Surveys

The Flat Creek Bridge is located at Flat Creek station 1+128. The bridge soffit, deck, and abutments were surveyed during the detailed site survey. Figure 7-1 illustrates the cross-section at the Flat Creek Bridge crossing as it is presented within the hydraulic model.

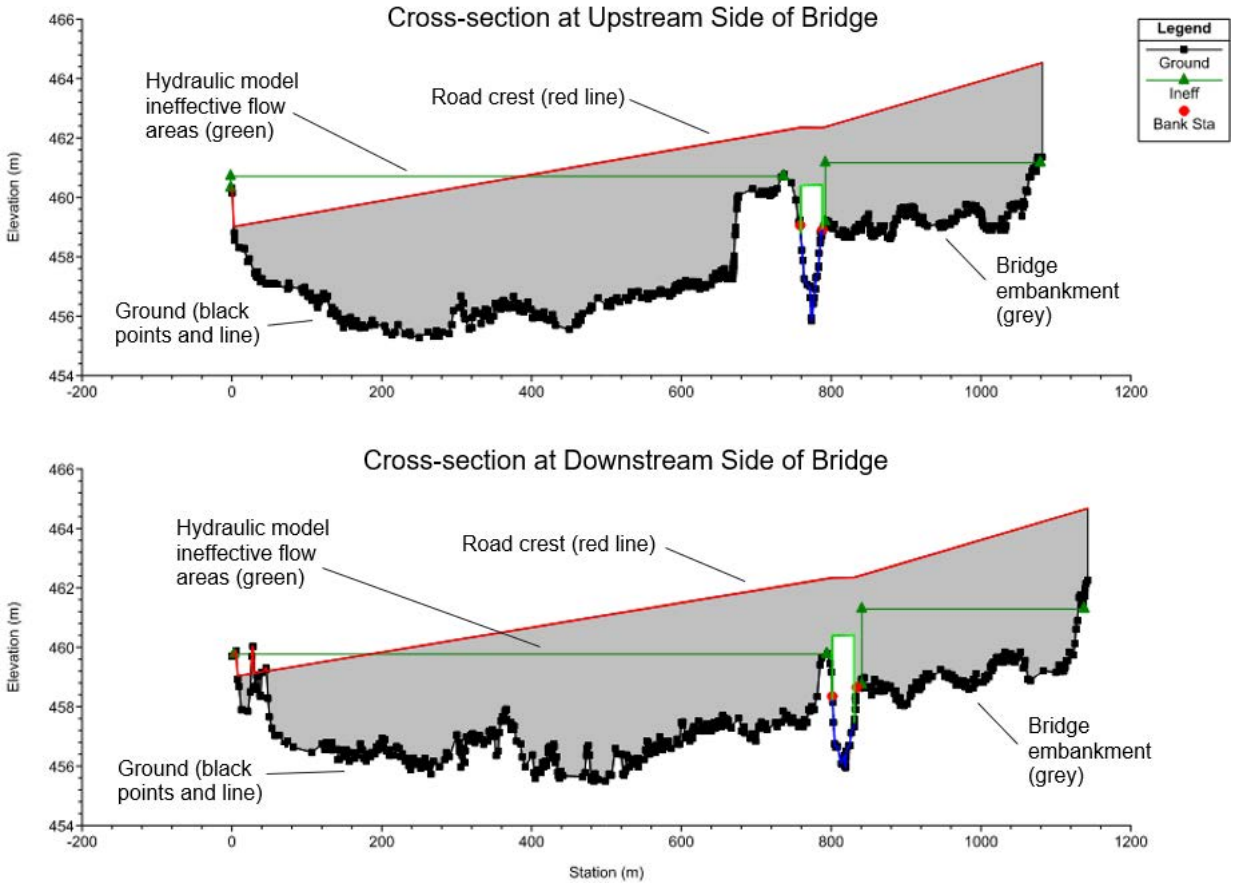

Figure 7-1 Flat Creek Bridge Cross-Sections Looking Downstream

7.4.3 Flood Mitigation Infrastructure

Stantec is not aware of flood mitigation infrastructure on Flat Creek. Therefore, flood mitigation infrastructure was not surveyed.

7.4.4 Surveyed Flood Events

Flood events were not surveyed for Flat Creek.

7.5 Klondike River

Locations and identifiers of detailed survey features for the Klondike River are illustrated in plan view in Figure D-3 through Figure D-9 in Appendix D.

7.5.1 Cross-Section Survey

Survey of bathymetry and cross-sections of the bankfull channel were obtained at locations in the Klondike River in the AOI specifically selected for hydraulic control of channel hydraulics and/or river ice dynamics (Figure D-3 through Figure D-9 in Appendix D).

A total of 121 cross-sections were obtained throughout the Klondike River within the AOI using RTK GPS survey pole and wading as well as single beam echosounder integrated with the RTK GPS.

Integration of surveyed bathymetry and cross-section data into the DTM is detailed in Section 7.7.

7.5.2 Hydraulic Structure Surveys

Two hydraulic structures are present along the Klondike River: i) the Klondike River Bridge (Dempster Highway) and ii) the Klondike River Bridge (Klondike Highway).

The Klondike River Bridge (Dempster Highway) is located at Klondike River station 46+503. The bridge soffit, deck, and abutments were surveyed during the detailed site survey. Figure 7-2 illustrates the hydraulic model cross-section at the Klondike River Bridge (Dempster Highway).

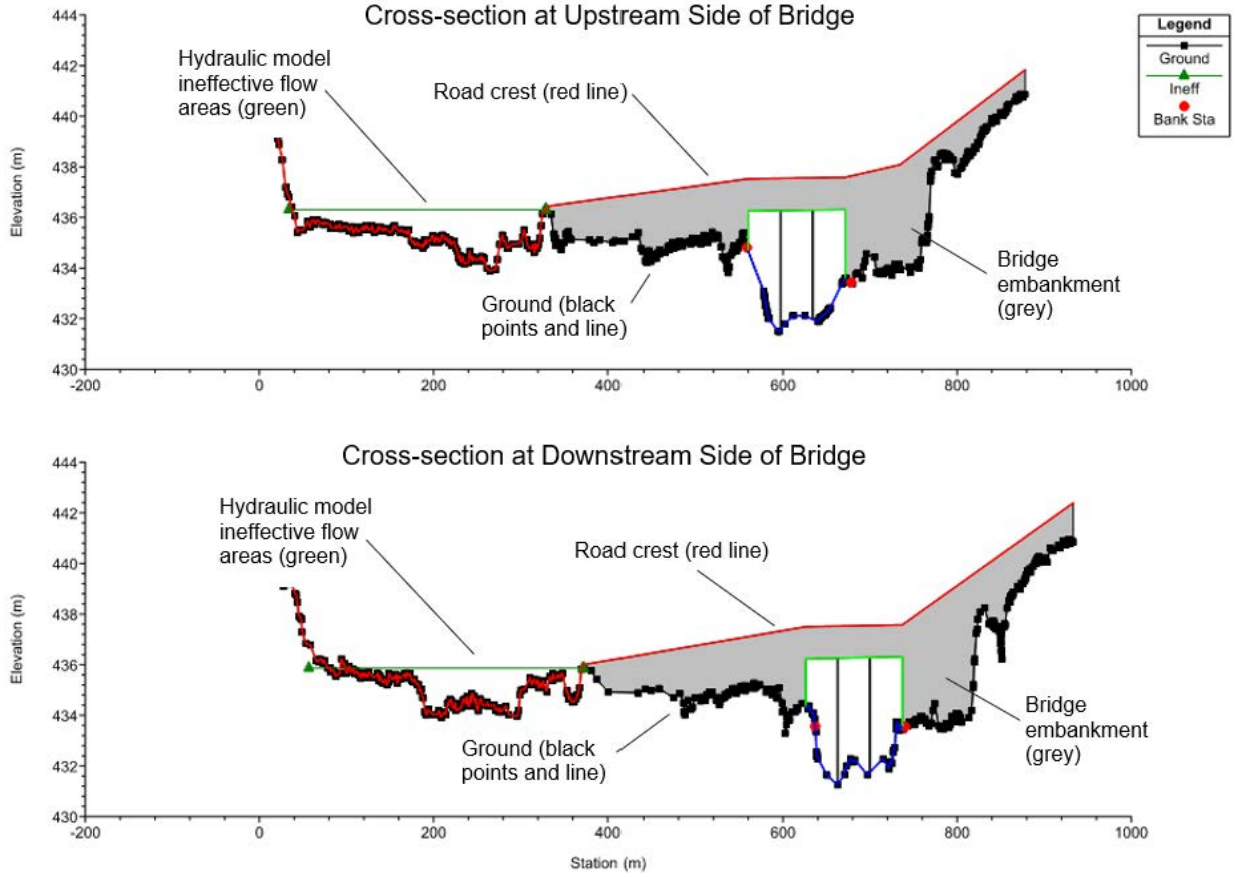

Figure 7-2 Klondike River Bridge (Dempster Highway) Cross-Sections Looking Downstream

The Klondike River Bridge (Klondike Highway) is located at Klondike River station 2+946. The bridge soffit, deck, and abutments were surveyed during the detailed site survey. Figure 7-3 illustrates the cross-section at the Klondike River Bridge (Klondike Highway) crossing.

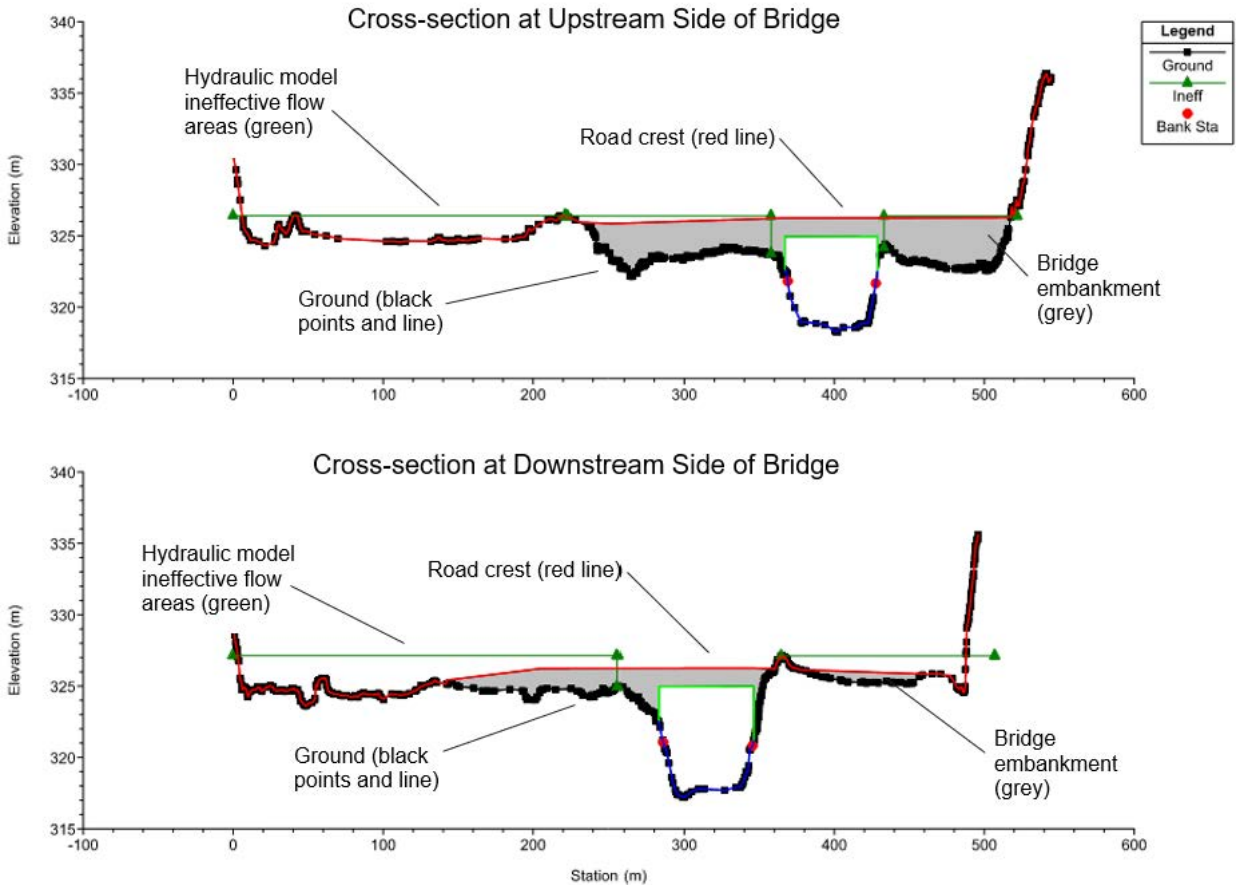

Figure 7-3 Klondike River Bridge (Klondike Highway) Cross-Section Looking Downstream

7.5.3 Flood Mitigation Infrastructure

The small earthen berm constructed at the TH Farm was surveyed (berm crest, toe) for integration into the DTM. Stantec is not aware of other flood mitigation infrastructure on the Klondike River within the AOI.

7.5.4 Surveyed Flood Events

Survey data for the following events were obtained through background review, community engagement, and 2024 field surveys:

- 2023 breakup ice jam flood event at Rock Creek.
- 2023 breakup ice jam flood event at Henderson's Corner.
- 2023 open water flood event.
- 2024 open water freshet event.

Survey data for the above events are described in Section 7.5.4.1 through Section 7.5.4.4, and illustrated in plan view in Figure D-3 through Figure D-9 in Appendix D.

7.5.4.1 2023 Ice Jam Flood Event at Rock Creek

Description of the 2023 ice jam flood event at Rock Creek is provided in Section 2.2.4.3.

7.5.4.1.1 High Water Marks

There were eight high water marks identified through community engagement from the 2023 Rock Creek breakup ice jam event. These HWMs were surveyed in the June 2024 detailed site survey. Table 7-3 lists the HWM point IDs, northings, eastings, elevations, and description. HWM locations are illustrated in Figure D-5 in Appendix D and detailed in individual HWM datasheets in Appendix D.

Table 7-3 High Water Marks for 2023 Rock Creek Breakup Ice Jam

Point ID	Northing (m)	Easting (m)	HWM Elevation (m)	Description
HWM_KR_2023_RC_IJ-01	7104066.9	592158.0	369.06	HWM true elevation, top of bottom log, base of Rock Creek campground sign
HWM_KR_2023_RC_IJ-02	7104684.2	592776.0	373.03	HWM true elevation, highwater on top of rock
HWM_KR_2023_RC_IJ-03	7104996.5	593020.2	374.13	HWM at 0.36 m, waterline on siding
HWM_KR_2023_RC_IJ-04	7105046.2	592962.3	374.28	HWM true elevation, nail on stump
HWM_KR_2023_RC_IJ-05	7105119.4	593091.7	374.72	HWM 2023 at 0.40 m, Homeowner remembers highwater mark
HWM_KR_2023_RC_IJ-06	7105145.4	593168.1	375.13	HWM at 0.96 m, homeowner remembers water to the top of tire of semi truck parked in driveway, semi truck moved and crew measured tire height
HWM_KR_2023_RC_IJ-07	7105137.8	593226.5	375.06	HWM at 0.45 m, Homeowner remembers water at top of the deck
HWM_KR_2023_RC_IJ-08	7105354.6	593492.0	376.03	HWM, nail and flagging found on a tree, placed during a flooding event, nail at 0.64 m, staff gauge at 1.10 m

7.5.4.1.2 Ice Scars

There were no ice scars identified through background review or community engagement for the 2023 Rock Creek breakup ice jam.

7.5.4.1.3 Jam Characteristics

As discussed in Section 2.2.4.3, the peak WSE of the Rock Creek breakup ice jam is understood to have occurred on May 8, 2023. Photograph 44 through Photograph 48 in Appendix A illustrate the 2023 Rock Creek breakup ice jam. The toe of the jam was located approximately 1.6 km downstream of the Rock Creek confluence, estimated as Klondike River Station 20+600. There was approximately 3 km of intact ice cover downstream of the jam toe. The jam was approximately 2.0 km long at its peak. The head of the jam was located approximately 300 m upstream of the Rock Creek confluence, estimated as Klondike River station 22+584.

7.5.4.1.4 Discharge

WSC Station 09EA003 data availability did not allow for discharge estimates on May 8, 2023. The estimated discharge at WSC Station 09EA003 was 393 m^3/s on May 9, 2023, and is considered a reasonable approximation of the May 8, 2023 discharge. Based on the FFA completed in Section 3.2.2, 393 m^3/s is between a 2% and 1% breakup period AEP discharge.

A discharge of 393 m^3/s at WSC Station 09EA003 equates to an estimated flow for the May 8, 2023 ice jam of 380 m^3/s below the Rock Creek confluence, and 355 m^3/s upstream of Rock Creek considering the Klondike River flow adjustment methodology described in Section 3.2.4. Table 7-4 provides the estimated discharges throughout the AOI during the May 8, 2023 ice jam event on the Klondike River.

Table 7-4 Estimated Klondike River and Yukon River Discharges in AOI on May 8, 2023

River	Reach	Estimated Discharge (m^3/s)
Klondike River	Yukon River to Bonanza Creek	404
Klondike River	Bonanza Creek to Hunker Creek	393
Klondike River	Hunker Creek to Rock Creek	380
Klondike River	Rock Creek to North Klondike	355
Klondike River	North Klondike to Flat Creek	289
Klondike River	Flat Creek to US End AOI	252
Yukon River	DS End AOI to Klondike River	3,683
Yukon River	Klondike River to Upstream End AOI	3,279

7.5.4.2 2023 Ice Jam Flood Event at Henderson's Corner

Description of the 2023 ice jam flood event at Henderson's Corner is provided in Section 2.2.4.3.

7.5.4.2.1 High Water Marks

There were four HWMs identified through community engagement regarding the 2023 Henderson's Corner breakup ice jam event. These HWMs were surveyed in the June 2024 detailed site survey. Table 7-5 lists the HWM point IDs, northings, eastings, elevations, and description. HWM locations are illustrated in Figure D-5 and Figure D-6 in Appendix D and detailed in individual HWM datasheets in Appendix D.

Table 7-5 High Water Marks for 2023 Henderson's Corner Breakup Ice Jam

Point ID	Northing (m)	Easting (m)	HWM Elevation (m)	Description
HWM_KR_2023_HC_IJ-01	7105405.1	596515.9	387.13	HWM at 0.40m, halfway up hydrant
HWM_KR_2023_HC_IJ-02	7105452.9	596489.0	386.02	HWM 2023 debris left by flooding – may be an underestimate
HWM_KR_2023_HC_IJ-03	7105532.7	596628.5	387.68	HWM at 1.30m, discolouration of wood on shed
HWM_KR_2023_HC_IJ-04	7105530.3	596644.3	387.86	HWM at 0.59m, damaged wood on house

7.5.4.2.2 Ice Scars

There were no ice scars identified through background review or community engagement for the 2023 Henderson's Corner breakup ice jam.

7.5.4.2.3 Jam Characteristics

As discussed in Section 2.2.4.3, the peak of the Henderson's Corner breakup ice jam is understood to have occurred on May 10–11, 2023. Photograph 49 through Photograph 51 in Appendix A illustrate the 2023 Henderson's Corner breakup ice jam. The toe of the jam was located approximately 250 m downstream of Fireweed Road with approximately 0.6 km of intact ice cover downstream of the jam toe. The toe location is estimated to be at Klondike River station 25+700. The jam was approximately 1.3 km long at its maximum. The head of the jam was located approximately 100 m upstream of Sans Souci Road where the Klondike River abuts the Klondike Highway, estimated as Klondike River station 26+869.

7.5.4.2.4 Discharge

The estimated instantaneous discharge at WSC Station 09EA003 was 401 m^3/s on May 10, 2023. Based on the FFA completed in Section 3.2.2, 401 m^3/s represents an approximately 1% breakup period AEP discharge.

A discharge of 401 m^3/s at WSC Station 09EA003 equates to an estimated flow of 362 m^3/s at the Henderson's Corner ice jam location considering the Klondike River flow adjustment methodology described in 3.2.4. Table 7-6**Error! Reference source not found.** provides the estimated discharges throughout the AOI during the May 10, 2023 ice jam event on the Klondike River.

Table 7-6 Estimated Klondike River and Yukon River Discharges in AOI on May 10, 2023

River	Reach	Estimated Discharge (m^3/s)
Klondike River	Yukon River to Bonanza Creek	412
Klondike River	Bonanza Creek to Hunker Creek	401
Klondike River	Hunker Creek to Rock Creek	388
Klondike River	Rock Creek to North Klondike	362
Klondike River	North Klondike to Flat Creek	294
Klondike River	Flat Creek to US End AOI	257
Yukon River	DS End AOI to Klondike River	3,683
Yukon River	Klondike River to Upstream End AOI	3,271

7.5.4.3 2023 Open Water Flood Event

Description of the 2023 open water flood event on the Klondike River is provided in Section 2.2.4.4.

7.5.4.3.1 High Water Marks

HWMs from the 2023 open water flood event on the Klondike River consisted of recorded WSEs at WSC Station 09EA003, WSC Station 09EA006, and a Yukon University temporary logger installation located between Rock Creek and Henderson's Corner, approximately 300 m upstream of the Slide Area.

Table 7-7 lists the HWM point IDs, northings, eastings, elevations, and description. The hydrometric station locations associated with the Klondike River 2023 open water event are illustrated in Figure D-3 and Figure D-5 in Appendix D.

Table 7-7 High Water Marks for 2023 Klondike River Open Water Event

Point ID	Northing (m)	Easting (m)	HWM Elevation (m)	Description
HWM_KR_2023_OW-01	7103405.9	577135.2	319.89	2023 open water flood peak reported at resident's house
HWM_KR_2023_OW-02	7102752.5	577753.8	322.88	WSC Station 09EA003 peak WSE on May 24, 2023
HWM_KR_2023_OW-03	7105323.4	593516.4	375.80	WSC Station 09EA006 peak WSE on May 24, 2023
HWM_KR_2023_OW-04	7104788.0	595221.0	381.53	Yukon University hydrometric station peak WSE on May 24, 2023

7.5.4.3.2 Discharge

The peak WSE on the Klondike River during the 2023 open water flood event occurred on May 24, 2023. The peak instantaneous flow on May 24, 2023 was estimated as 938 m^3/s at WSC Station 09EA003. Based on the open water FFA completed in Section 3.2.2, 938 m^3/s is almost a 0.5% AEP event.

Table 7-8 provides the estimated discharges throughout the AOI during the May 24, 2023 open water flood event on the Klondike River.

Table 7-8 Estimated Klondike River and Yukon River Discharges in AOI on May 24, 2023

River	Reach	Estimated Discharge (m^3/s)
Klondike River	Yukon River to Bonanza Creek	964
Klondike River	Bonanza Creek to Hunker Creek	938
Klondike River	Hunker Creek to Rock Creek	907
Klondike River	Rock Creek to North Klondike	844
Klondike River	North Klondike to Flat Creek	682
Klondike River	Flat Creek to US End AOI	594
Yukon River	DS End AOI to Klondike River	8,950
Yukon River	Klondike River to Upstream End AOI	7,986

7.5.4.4 2024 Open Water Freshet Event

7.5.4.4.1 High Water Marks

Stantec and Underhill surveyed a WSE profile of the Klondike River on June 5, 2024. There were 7,783 WSE points collected between Klondike River station 0+000 and 55+300, as illustrated in Figure D-3 through Figure D-9 in Appendix D.

7.5.4.4.2 Discharge

Stantec and Underhill measured discharge in the Klondike River with an Acoustic Doppler Current Profiler (ADCP) at two separate locations on June 3, 2024. The upstream location was immediately upstream of the Klondike River Bridge (Dempster Highway). The downstream location was immediately downstream of the Klondike River Bridge (Klondike Highway) and is at the same location that the WSC obtains discharge measurements for WSC Station 09EA003 (WSC 2024a). The discharge measurement locations are illustrated on Figure D-3 and Figure D-8 in Appendix D.

The upstream discharge measurement provided an average discharge of 224 m^3/s across four ADCP transects between 1:35 pm and 2:15 pm on June 3, 2024.

The downstream discharge measurement provided an average flow of 248 m^3/s across five ADCP transects between 5:15 pm and 6:00 pm on June 3, 2024. The downstream discharge measurement is applicable to the hydrometric data reported at WSC Station 09EA003. The discharge reported by WSC Station 09EA003 during the time of the discharge measurement was 269 m^3/s. The ADCP measured flow is approximately 8% lower than the WSC reported discharge, with the WSC reported discharges being higher. This difference is considered acceptable, and WSC reported discharges are considered to be valid for use as inputs for the FFA at WSC Station 09EA003.

The WSC reported discharges were therefore adopted for the open water WSE profile survey event on June 5, 2024. Table 7-9 summarizes the estimated discharges throughout the AOI, considering the Klondike River flow adjustment methodology described in Section 3.2.4.

Table 7-9 Estimated Klondike River and Yukon River Discharges in AOI on June 5, 2024

River	Reach	Estimated Discharge (m^3/s)
Klondike River	Yukon River to Bonanza Creek	289
Klondike River	Bonanza Creek to Hunker Creek	282
Klondike River	Hunker Creek to Rock Creek	273
Klondike River	Rock Creek to North Klondike	256
Klondike River	North Klondike to Flat Creek	212
Klondike River	Flat Creek to US End AOI	187
Yukon River	DS End AOI to Klondike River	3,820
Yukon River	Klondike River to Upstream End AOI	3,531

7.6 Yukon River

Locations and identifiers of detailed survey features for the Yukon River are illustrated in plan view in Figure D-1 and Figure D-2 in Appendix D.

7.6.1 Bathymetry and Cross-Section Surveys

Survey of bathymetry and cross-sections of the bankfull channel were obtained at various locations in the Yukon River in the AOI (Figure D-1 and Figure D-2 in Appendix D). Bathymetric data for the approximately 6 km long bathymetry survey reach in the central part of the AOI was obtained using RTK GPS survey pole as well as single beam and multibeam echosounders integrated with the RTK GPS.

A total of 12 cross-sections were obtained in reaches upstream and downstream of the bathymetry survey reach in the Yukon River using single beam echosounders integrated with the RTK GPS. An additional cross-section was obtained approximately 300 m downstream of the AOI using an ADCP during the flow measurement.

Integration of surveyed bathymetry and cross-section data into the DTM is detailed in Section 7.7.

7.6.2 Hydraulic Structure Surveys

There are no hydraulic structures on the Yukon River within the AOI.

7.6.3 Flood Mitigation Infrastructure

Local community member accounts and select published reports (e.g., McCreath et al. 1988) identify that sometime in the 1950s and 1960s, Front Street was raised to function as a dike for Dawson City. Local community member accounts suggest that the Front Street dike was effective at mitigating flooding up to the 1979 flood.

The Front Street dike was overtopped in the 1979 flood which prompted the construction of the current dike in the 1980s (Klohn Leonoff 1986; Klohn Leonoff 1987). The current Dawson City dike is located on the river side of the community from Crocus Bluffs (approximately Klondike River station 1+000) downstream to the north end of Dawson City (approximately Yukon River station 20+300).

The dike was surveyed via drone-mounted LiDAR in June 2025, for integration into the DTM. Drawings (plan and profile, cross-sections) of the Dawson City dike are provided in Appendix D. Dike crest elevations are generally between 320.5 m and 321.6 m in elevation. The low point of the dike (elevation = 320.04 m) is located at the downstream end of the dike (north end of Dawson City).

7.6.4 Surveyed Flood Events

Survey data for the following events were obtained through background review, community engagement, and 2024 field surveys:

- 1979 ice jam flood event.
- 1986 ice cover survey.
- 1998 ice jam event.
- 2022 open water high water event.
- 2024 open water freshet event.

Survey data for the above events are described in Section 7.6.4.1 through 7.6.4.5, and illustrated in plan view in Figure D-1 and Figure D-2 in Appendix D.

7.6.4.1 1979 Ice Jam Flood Event

Description of the 1979 ice jam flood event is provided in Section 2.3.4.1.

7.6.4.1.1 High Water Marks

HWMs for the 1979 ice jam flood event consisted of those directly surveyed by Stantec during the 2024 detailed field survey with the assistance of local community members. Table 7-10 lists the HWM point IDs, northings, eastings, elevations, and description. HWM locations are illustrated in Figure D-1 through Figure D-3 in Appendix D and detailed in individual HWM datasheets in Appendix D. The following notes are made regarding the HWMs within Dawson City:

a) Land settlement within Dawson City is a well documented process. Given that over 45 years has passed since the flood of 1979, the current surveyed elevation of HWMs may be lower than what occurred during the flood peak.

b) Peak inundation of Dawson City occurred in the night when the Front Street “dike” was overtopped. Following the jam release, WSEs in the river dropped but water remained pooled in the town for an extended period of time. It is difficult to know whether the HWMs surveyed in town are reflective of the peak WSE or the “pooled” WSE.

Items a and b above mean that it is possible that the surveyed elevations of HWMs may be lower than what occurred during the flood peak. For reference, the current “spill” elevation of Front Street is approximately 319.5 – 319.6 m. It is unknown if changes to Front Street road crest elevations have occurred, and if so to what degree, since 1979. If the road crest profile has not changed or changed

minimally, this spill elevation of 319.5 – 319.6 m would theoretically represent what the pooled WSE would have held at for the extended period of time before the Front Street dike was breached and the water drained from Dawson City. Photograph 116 through Photograph 119 in Appendix A provide aerial photographs demonstrating water held within the town after the ice jam had released and Yukon River WSEs decreased.

Table 7-10 High Water Marks for 1979 Yukon River Breakup Ice Jam

Point ID	Northing (m)	Easting (m)	HWM Elevation (m)	Description
HWM_YR_1979_IJ-01	7104848.5	576337.6	320.28	HWM 1979 at 1.33 m, faded paint line on tin, old tin building on Front Street
HWM_YR_1979_IJ-02	7104787.9	576329.2	319.60	HWM 1979 at 1.20 m, water damage on wooden building, initial flooding only lasted about 24 hours before receding, explain lower elevation of damage
HWM_YR_1979_IJ-03	7105000.15	576448.9	320.58	HWM 1979 at 1.20 m, discolouration, on old original wood building, still off its cribbing from flooding
HWM_YR_1979_IJ-04	7104674.7	576422.5	320.10	HWM 1979 at 0.9 5m, long water stain, on old blacksmith shop on 3rd Ave
HWM_YR_1979_IJ-05	7104656.2	576414.0	320.15	HWM 1979 at 0.94m, discoloured boards, wooden shed on 3rd Ave, noted that no saw dust insulation below line
HWM_YR_1979_IJ-06	7104649.2	576386.8	319.43	HWM 1979 at 0.41 m, consistent staining along the front of building on 3rd Ave
HWM_YR_1979_IJ-07	7104628.6	576372.8	319.29	HWM 1979 at 0.42 m, discolouration of wood building
HWM_YR_1979_IJ-08	7104587.5	576405.2	320.45	HWM 1979 at 0.64 m, straight horizontal line on small sheds, theorized by the guide that it was moved during the floods

7.6.4.1.2 Ice Scars

Gerard et al. (1992) documented ice scars throughout the Yukon River based on surveys completed through the 1980s. Table 7-11 lists the ice scar point IDs, northing, easting, elevations, descriptions, and general certainty level for each. The ice scar elevations presented in Table 7-11 have been corrected

from the CGVD28 datum (assumed to be used in Gerard et al. 1992) to the CGVD2013 datum being used in this Project.

Table 7-11 Ice Scars for 1979 Yukon River Breakup Ice Jam

Point ID	Northing (m)	Easting (m)	HWM Elevation (m)	Description
IS_YR_1979_IJ-01	7110216.0	575304.0	320.22	Ice scar, surveyed in 1989, as published in Gerard et al. 1992, right bank of XS Downstream (DS) of Dog Island and Moosehide
IS_YR_1979_IJ-02a	7107483.0	575935.0	319.12	Ice scar, surveyed in 1989, as published in Gerard et al. 1992, about 2 km DS of WSC gauge, on left bank at DS end of campground, 30 m Upstream (US) of old steamer
IS_YR_1979_IJ-02b	7107483.0	575935.0	319.89	Ice scar, surveyed in 1989, as published in Gerard et al. 1992, about 2 km DS of WSC gauge, on left bank at DS end of campground, 30 m US of old steamer
IS_YR_1979_IJ-03	7101117.7	574397.6	321.51	Ice scar, surveyed in 1989, as published in Gerard et al. 1992, about 4 km US of Dawson City, on right bank of island
IS_YR_1979_IJ-04	7107483.0	575935.0	319.88	Ice scar, surveyed in 1983, as published in Gerard et al. 1992, suspected 1979 flood
IS_YR_1979_IJ-05	7107483.0	575935.0	319.22	Ice scar, surveyed in 1983, as published in Gerard et al. 1992, suspected 1979 flood
IS_YR_1979_IJ-06	7107434.5	575948.0	319.69	Ice scar, surveyed in 1983, as published in Gerard et al. 1992, suspected 1979 flood
IS_YR_1979_IJ-07	7107382.7	575961.3	318.45	Ice scar, surveyed in 1983, as published in Gerard et al. 1992, suspected 1979 flood
IS_YR_1979_IJ-08	7107382.7	575961.3	320.05	Ice scar, surveyed in 1983, as published in Gerard et al. 1992, suspected 1979 flood
IS_YR_1979_IJ-09	7107242.8	575994.4	319.84	Ice scar, surveyed in 1983, as published in Gerard et al. 1992, suspected 1979 flood
IS_YR_1979_IJ-10	7107140.3	576010.1	318.69	Ice scar, surveyed in 1983, as published in Gerard et al. 1992, suspected 1979 flood
IS_YR_1979_IJ-11	7107140.3	576010.1	319.22	Ice scar, surveyed in 1983, as published in Gerard et al. 1992, suspected 1979 flood

Point ID	Northing (m)	Easting (m)	HWM Elevation (m)	Description
IS_YR_1979_IJ-12	7107140.3	576010.1	319.36	Ice scar, surveyed in 1983, as published in Gerard et al. 1992, suspected 1979 flood
IS_YR_1979_IJ-13	7106962.5	576037.2	319.34	Ice scar, surveyed in 1983, as published in Gerard et al. 1992, suspected 1979 flood
IS_YR_1979_IJ-14	7106861.3	576046.2	317.13	Ice scar, surveyed in 1983, as published in Gerard et al. 1992, suspected 1979 flood
IS_YR_1979_IJ-15	7106861.3	576046.2	317.52	Ice scar, surveyed in 1983, as published in Gerard et al. 1992, suspected 1979 flood
IS_YR_1979_IJ-16	7106861.3	576046.2	318.18	Ice scar, surveyed in 1983, as published in Gerard et al. 1992, suspected 1979 flood
IS_YR_1979_IJ-17	7103267.0	575851.6	320.24	Ice scar, surveyed in 1989, as published in Gerard et al. 1992, pre-1989, may be 1979 flood
IS_YR_1979_IJ-18	7101089.4	574324.1	321.04	Ice scar, surveyed in 1989, as published in Gerard et al. 1992, pre-1989, may be 1979 flood

7.6.4.1.3 Jam Characteristics

The timing of the 1979 ice jam flood event (i.e., overnight) and lack of ice or hydrologic monitoring in 1979 means that there is no reliable evidence or accounting of ice jam characteristics (e.g., exact toe and head locations, ice cover extents downstream, etc.). However, given the severity of the jam and Yukon River ice regime observations since 1979, it is assumed that the 1979 ice jam had a toe against an intact ice cover downstream of Fort Reliance (where ice resistance is greater). This location is estimated to be at Yukon River station 8+500 for the purposes of this Project. The head location is assumed to have extended past Dawson City given the presence of ice on Front Street and within Dawson City following the flood (illustrated in Photograph 103 through Photograph 124 in Appendix A), meaning the jam was at least 15 km long. Ice scars upstream of Dawson City suggest that the ice jam head may have extended well upstream of Dawson City.

7.6.4.1.4 Discharge

There is limited information (e.g., WSE data, discharge data) from WSC Station 09EB001 or other gauges available to inform discharge during the 1979 ice jam flood event. WSC estimates a peak flow during the breakup period of 4,020 m³/s (GOC 2024), with other (unpublished) estimates as low at 2,280 m³/s. Based on the breakup period FFA results in Section 3.3.2, a breakup period discharge of 2,280 m³/s is below the 50% AEP and a breakup period discharge of 4,020 m³/s is slightly above the 20% AEP.

Table 7-12 provides the estimated discharges throughout the AOI during the May 2–3, 1979 ice jam event on the Yukon River.

Table 7-12 Estimated Klondike River and Yukon River Discharges in AOI on May 2–3, 1979

River	Reach	Estimated Discharge (m^3/s)
Klondike River	Yukon River to Bonanza Creek	139
Klondike River	Bonanza Creek to Hunker Creek	136
Klondike River	Hunker Creek to Rock Creek	132
Klondike River	Rock Creek to North Klondike	124
Klondike River	North Klondike to Flat Creek	102
Klondike River	Flat Creek to US End AOI	90
Yukon River	DS End AOI to Klondike River	2,880 – 4,020
Yukon River	Klondike River to Upstream End AOI	2,471 – 3,881

7.6.4.2 1986 Ice Cover Survey

7.6.4.2.1 High Water Marks

Table 7-13 provides the WSEs, bottom of ice elevations, and width-averaged ice thicknesses surveyed on March 11–19, 1986 by Dr. Larry Gerard at the University of Alberta (as published in Gerard et al. 1992 and translated by Stantec into the Project's alignment stationing and CGVD2013 datum). This data is of value for ice hydraulic modelling and is therefore documented here despite it not representing a flood event.

Table 7-13 Ice Cover Characteristics on March 11–19, 1986

Point ID	Northing (m)	Easting (m)	WSE Elevation (m)	Bottom of Ice Elevation (m)	Width Averaged Ice Thickness (m)
HWM_YR_1986_IC-01	7106671	576400	312.55	312.11	0.94
HWM_YR_1986_IC-02	7105131	576232	312.63	311.33	1.41
HWM_YR_1986_IC-03	7103259	575654	312.97	311.76	1.32

7.6.4.2.2 Discharge

The discharge in the Yukon River during the March 1986 ice cover survey was estimated to be 423 m^3/s (Gerard et al. 1992).

Table 7-14 provides the estimated discharges throughout the AOI during the March 1986 ice cover survey on the Yukon River.

Table 7-14 Estimated Klondike River and Yukon River Discharges in AOI in late March 1986

River	Reach	Estimated Discharge (m^3/s)
Klondike River	Yukon River to Bonanza Creek	10
Klondike River	Bonanza Creek to Hunker Creek	10
Klondike River	Hunker Creek to Rock Creek	10
Klondike River	Rock Creek to North Klondike	9
Klondike River	North Klondike to Flat Creek	8
Klondike River	Flat Creek to US End AOI	7
Yukon River	DS End AOI to Klondike River	423
Yukon River	Klondike River to Upstream End AOI	413

7.6.4.3 1998 Ice Jam Event

Description of the 1998 ice jam event is provided in Section 2.3.4.2.

7.6.4.3.1 High Water Marks

There were three HWMs obtained for the 1998 ice jam event on the Yukon River, listed in Table 7-15 and illustrated in Figure D-1 and Figure D-3 in Appendix D. HWM_YR_1998_IJ-01 is from May 7, 1998 whereas HWM_YR_1998_IJ-02 and HWM_YR_1998_IJ-03 are from May 8, 1998. The reason for the WSE rise from May 7, 1998 to May 8, 1998 has been attributed to changing jam characteristics (ice accumulation, minor adjustments to head location) and potentially changes in flow (Jasek et al. 2001). A HWM datasheet with photographs for HWM_YR_1998_IJ-02 is provided in Appendix D. While there are multiple HWMs within HWM_YR_1998_IJ-02, the proximity of the HWMs in the photographs (i.e., all on a single property) meant they were considered a single HWM for the purposes of this Project.

Table 7-15 1998 Ice Jam Event High Water Marks

Point ID	Northing (m)	Easting (m)	HWM Elevation (m)	Description
HWM_YR_1998_IJ-01	7105764	576774	317.61	At WSC Station 09EB001, collected by Jasek on May 7, 1998
HWM_YR_1998_IJ-02	7109555	575059	316.7 - 316.9	Dog Island property HWM, considered peak (i.e., May 8, 1998)
HWM_YR_1998_IJ-03	7105764	576774	317.92	At WSC Station 09EB001, collected by Jasek on May 8, 1998

7.6.4.3.2 Ice Scars

Stantec's background review and field surveys did not reveal ice scar data which could be reliably attributed to the 1998 ice jam event.

7.6.4.3.3 Jam Characteristics

The toe and head of the jam were approximately 14.5 km and 1.4 downstream of WSC Station 09EB001, respectively (Jasek 1998; Jasek et al. 2001). The river was ice-free upstream of the jam and had intact ice cover downstream of the jam (Jasek 1998, Jasek et al. 2001).

7.6.4.3.4 Discharge

Jasek et al. (2001) estimated discharge during the 1998 breakup event to be 2,602 m^3/s using large-scale particle image velocimetry (LSPIV). LSPIV uses video recording of surface flow speed and velocity profile approximations to estimate discharge. Jasek et al. (2001) demonstrated that the LSPIV discharge generally provided good agreement with discharge estimates from ICEJAM modelling of the event across variable bed and ice roughness values.

Based on the breakup period FFA results in Section 3.3.2, a breakup period discharge of 2,602 m^3/s is below the 50% AEP.

Table 7-16 provides the estimated discharges throughout the AOI during the May 8, 1998 ice jam event on the Yukon River.

Table 7-16 Estimated Klondike River and Yukon River Discharges in AOI on May 8, 1998

River	Reach	Estimated Discharge (m^3/s)
Klondike River	Yukon River to Bonanza Creek	128
Klondike River	Bonanza Creek to Hunker Creek	125
Klondike River	Hunker Creek to Rock Creek	121
Klondike River	Rock Creek to North Klondike	114
Klondike River	North Klondike to Flat Creek	94
Klondike River	Flat Creek to US End AOI	83
Yukon River	DS End AOI to Klondike River	2,602
Yukon River	Klondike River to Upstream End AOI	2,474

7.6.4.4 2022 Open Water High Water Event

7.6.4.4.1 High Water Marks

A total of 13 HWMs surveyed in the Yukon River AOI on June 8, 2022 by Underhill are provided in Table 7-17 and illustrated in Figure D-3 in Appendix D.

Table 7-17 High Water Marks for June 8, 2022 on the Yukon River

Point ID	Northing (m)	Easting (m)	HWM Elevation (m)	Description
HWM_YR_2022_OW-01	7105852.6	576823.7	317.33	Surveyed HWM on river right
HWM_YR_2022_OW-02	7105787.2	576784.6	317.36	Surveyed HWM on river right
HWM_YR_2022_OW-03	7105685.5	576774.7	317.37	Surveyed HWM on river right
HWM_YR_2022_OW-04	7105431.4	576649.2	317.35	Surveyed HWM on river right
HWM_YR_2022_OW-05	7105200.2	576475.4	317.34	Surveyed HWM on river right
HWM_YR_2022_OW-06	7104944.8	576302.7	317.39	Surveyed HWM on river right
HWM_YR_2022_OW-07	7104811.7	576242.4	317.41	Surveyed HWM on river right
HWM_YR_2022_OW-08	7104653.0	576187.4	317.44	Surveyed HWM on river right
HWM_YR_2022_OW-09	7104505.6	576131.5	317.52	Surveyed HWM on river right
HWM_YR_2022_OW-10	7104369.5	576081.8	317.55	Surveyed HWM on river right
HWM_YR_2022_OW-11	7104234.6	576064.1	317.75	Surveyed HWM on river right
HWM_YR_2022_OW-12	7104108.9	576064.1	317.92	Surveyed HWM on river right
HWM_YR_2022_OW-13	7103976.9	576103.1	318.00	Surveyed HWM on river right

7.6.4.4.2 Discharge

Instantaneous flow at the time of the HWM survey (June 8, 2022 in the afternoon) was estimated to be 9,241 m^3/s at WSC Station 09EB001 based on instantaneous stage data and WSC rating curve #11.

Based on the open water period FFA results in Section 3.3.2, an open water peak instantaneous discharge of 9,241 m^3/s is above the 20% AEP but below the 10% AEP.

Table 7-18 provides the estimated discharges throughout the AOI during the June 8, 2022 open water event on the Yukon River.

Table 7-18 Estimated Klondike River and Yukon River Discharges in AOI on June 8, 2022

River	Reach	Estimated Discharge (m^3/s)
Klondike River	Yukon River to Bonanza Creek	454
Klondike River	Bonanza Creek to Hunker Creek	443
Klondike River	Hunker Creek to Rock Creek	430
Klondike River	Rock Creek to North Klondike	403
Klondike River	North Klondike to Flat Creek	332
Klondike River	Flat Creek to US End AOI	293
Yukon River	DS End AOI to Klondike River	9,241
Yukon River	Klondike River to Upstream End AOI	8,787

7.6.4.5 2024 Open Water Freshet Event

7.6.4.5.1 High Water Marks

Stantec and Underhill surveyed a WSE profile of the Yukon River on June 4, 2024. There were 3,863 WSE points collected between Yukon River station 17+000 and 33+000, as illustrated in Figure D-1 and Figure D-2 in Appendix D.

7.6.4.5.2 Discharge

Stantec and Underhill measured discharge in the Yukon River with an ADCP at two separate locations on June 4, 2024, illustrated in Figure D-1 and Figure D-2 in Appendix D.

The upstream location was in the upper portion of the AOI (Yukon River station 30+500). The upstream discharge measurement provided an average discharge of 3,415 m^3/s across seven ADCP transects between 10:25 am and 1:30 pm on June 4, 2023.

The downstream location was at the downstream end of the AOI (Yukon River station 14+700). The downstream discharge measurements provided an average flow of 3,699 m^3/s across five ADCP transects between 4:50 pm and 6:05 pm on June 4, 2023. The Klondike River contributes its flow to the Yukon River between the upstream and downstream Yukon River discharge measurement locations; the difference between the two discharge measurements (284 m^3/s) was comparable to the WSC reported discharge at WSC Station 09EA003 (269 m^3/s) on June 4, 2024 between 10:25 am and 6:05 pm. These discharges are within 5% of each other when a minor contribution from Bonanza Creek (tributary to the Klondike River, downstream of the WSC station and ADCP transect location) is included. The estimated contribution from Bonanza Creek at the time of the ADCP flow measurement is 6 m^3/s using a 1.02 flow increase scaling factor (Table 3-4).

In addition, the downstream discharge measurement is applicable to the hydrometric data produced at WSC Station 09EB001. The discharge reported by WSC Station 09EB001 during the time of the discharge measurement was 3,850 m^3/s. The ADCP measured flow was within 5% of the WSC reported discharge with the WSC discharge being slightly more conservative, and thus the WSC data is considered appropriate for use in the FFA inputs. There are no notable tributaries between the WSC station location and the transect used for the ADCP flow measurement.

For the purposes of this Project, the ADCP measured discharges are considered to have validated the WSC reported discharges at WSC Station 09EB001. Therefore, the adopted peak instantaneous discharges for the June 4, 2024 survey were taken from WSC records at WSC Station 09EB001: 3,850 m^3/s downstream of the Klondike River confluence and 3,580 m^3/s upstream of the Klondike River confluence considering a Klondike River contribution on that day of 270 m^3/s.

An instantaneous open water discharge of 3,850 m^3/s is half of the 50% AEP and is considered a below-average freshet flow on the Yukon River.

Table 7-19 provides the estimated discharges throughout the AOI during the June 4, 2024 open water event on the Yukon River.

Table 7-19 Estimated Klondike River and Yukon River Discharges in AOI on June 4, 2024

River	Reach	Estimated Discharge (m^3/s)
Klondike River	Yukon River to Bonanza Creek	277
Klondike River	Bonanza Creek to Hunker Creek	270
Klondike River	Hunker Creek to Rock Creek	262
Klondike River	Rock Creek to North Klondike	245
Klondike River	North Klondike to Flat Creek	203
Klondike River	Flat Creek to US End AOI	179
Yukon River	DS End AOI to Klondike River	3,850
Yukon River	Klondike River to Upstream End AOI	3,573

7.7 Digital Terrain Model

The Digital Terrain Model (DTM) is the terrain input for the hydraulic model. The DTM for each of the Klondike River and Yukon River in the AOI was derived from surveyed bathymetric/channel data, surveyed cross-section locations, surveyed topographic data, and the 2019 (AOI-wide) and 2024 (Klondike valley only) CQL1 LiDAR data provided by YG. Verification that survey data had datum agreement with the CQL1 LiDAR is documented in Section 7.2. To merge the surveyed channel data and the floodplain LiDAR data, Stantec completed data pre-processing in ArcGIS Desktop version 10.8 and ArcGIS Pro version 3.1.

For the Yukon River bathymetry reach, the surveyed data (RTK GPS survey pole points, single beam echosounder points, or multibeam echosounder points) were used to create a three-dimensional (3D) surface raster which was integrated with the CQL1 LiDAR datasets (e.g., Figure 7-4 and Figure 7-5). Underhill completed the majority of the bathymetry surveys with a multibeam echosounder, which provides substantial bathymetry point cloud coverage.

For the cross-sections, the surveyed points (either from RTK GPS survey pole, single beam echosounder, or multibeam echosounder) were converted into narrow (~15 m wide) surface rasters along each cross-section line. An example of a combined cross-section with multiple survey data sources for Klondike River station 33+067 is provided in Figure 7-6. The surveyed points were combined with sampled points from the bank and floodplain LiDAR data to create a three-dimensional narrow surface raster representative of the surveyed channel and overbank for each section.

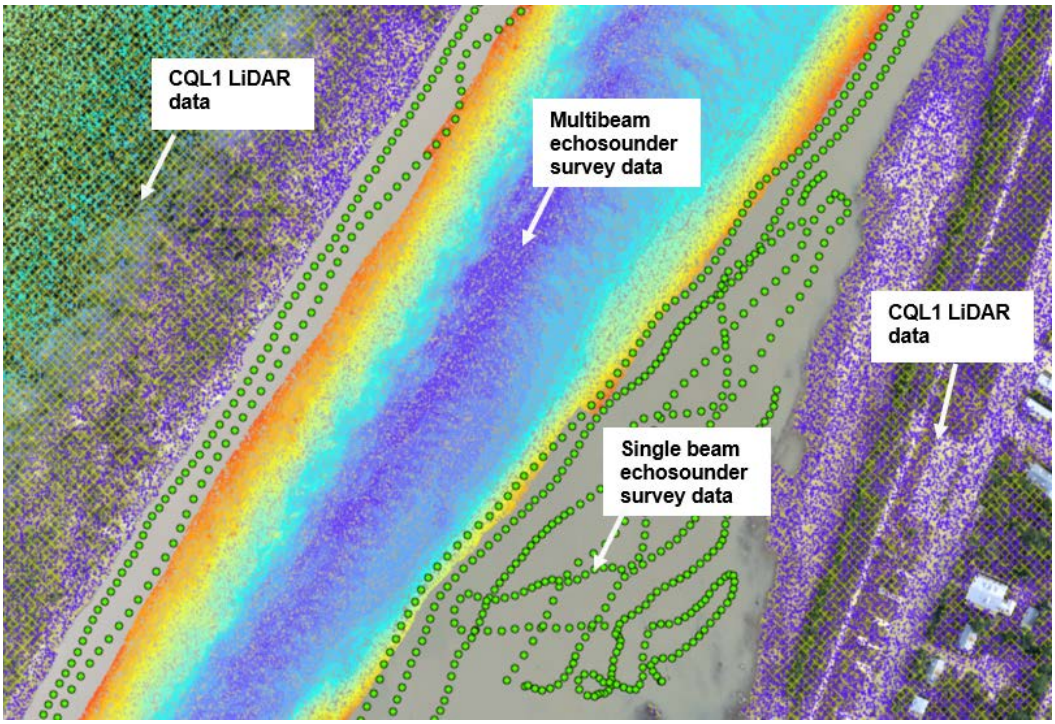

Figure 7-4 Survey Data and LiDAR Data Sources for Yukon River from Station 21+500 to 21+700

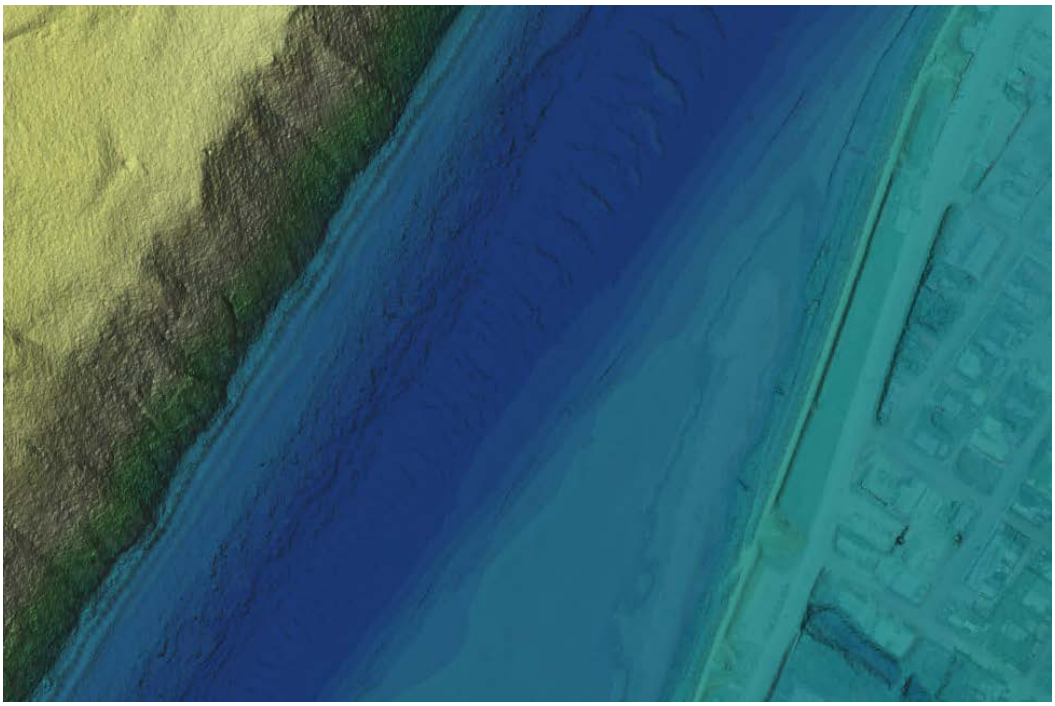

Figure 7-5 Combined Digital Terrain Model for Yukon River from Station 21+500 to 21+700

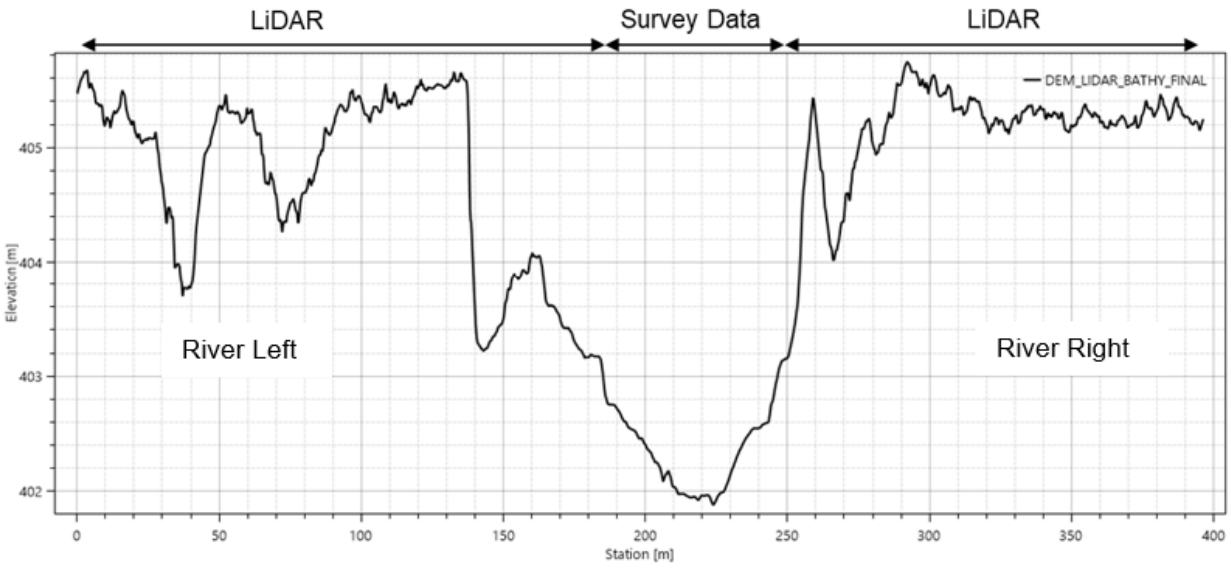

Figure 7-6 Combined Cross-Section at Klondike River Station 33+067

This surface raster, the narrow cross-section surface rasters, and the bathymetric data were then combined with the floodplain LiDAR data using the raster calculator. At the locations of the survey and/or bathymetric data, the floodplain LiDAR elevations were replaced to create a continuous combined surface in a final DTM. The channel areas between the narrow raster surfaces at each cross-section did not have terrain data in the final DTM. The surface rasters use a 0.5 m cell resolution.

Figures illustrating the final DTM for the AOI are provided in Figure D-10 to Figure D-18 in Appendix D. Electronic file submission of the DTM is detailed in Appendix E.

8 Hydraulic Modelling and Flood Mapping

The hydraulic analysis undertaken for the Project generally followed the one-dimensional (1D) hydraulic modelling pathway from NRCan (2019a), illustrated in green overtop of the NRCan (2019a) flowchart in Figure 8-1. The hydraulic modelling software for this Project was the Hydraulic Engineering Centre River Analysis Software (HEC-RAS) Version 6.3.1, produced by the United States Army Corps of Engineers (USACE). HEC-RAS allows users to perform 1D steady and unsteady flow and two-dimensional (2D) unsteady flow calculations. HEC-RAS was selected for this Project because of its industry-wide acceptance as the standard hydraulic modelling program for flood mapping and because it is capable of modelling breakup ice jams (in 1D steady state analysis) (FEMA 2018).

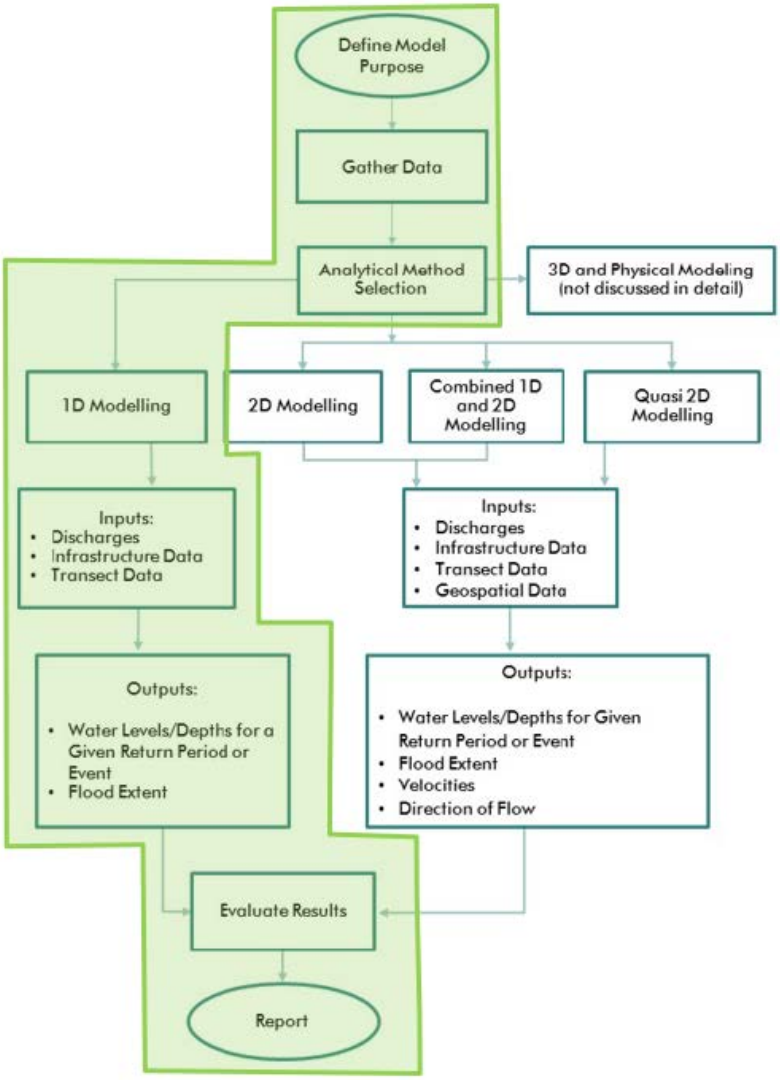

Figure 8-1 Hydraulic Procedures Flowchart from NRCan (2019a)

8.1 Design Events for Flood Mapping

The Flat Creek hydraulic model was a separate model from the Klondike River and Yukon River model. The Flat Creek hydraulic model runs considered the AEP discharges in Table 3-1 for the 5%, 1%, and 0.5% AEP events. The Flat Creek model considered a Factor of Safety for Climate Change and Land Cover Change of 1.4 (same as for the Klondike River), leading to a 0.5% AEP +CC/LCC discharge of 161 m^3/s.

Table 8-1 summarizes the AEP design events and individual model runs considered for flood mapping in this Project for the Klondike River and Yukon River model domain.

Table 8-1 Flow Inputs for Annual Exceedance Probability Design Events

AEP	Scenario Description	Model Run Code	Klondike River Yukon River to Bonanza Creek	Klondike River Bonanza Creek to Hunker Creek	Klondike River Hunker Creek to Rock Creek	Klondike River Rock Creek to North Klondike	Klondike River North Klondike to Flat Creek	Klondike River South Fork to US End AOI	Yukon River DS End AOI to Klondike River	Yukon River Klondike River to Upstream End AOI
5% AEP	Breakup Ice Jams - Klondike River Primary	5_BIJ_klondike	330	320	310	290	240	210	5,200	4,870
	Breakup Ice Jams - Yukon River Primary	5_BIJ_yukon								
	Open Water Flows - Klondike River Primary	5_OW_klondike	720	700	680	640	530	460	9,200	8,480
	Open Water Flows - Yukon River Primary	5_OW_yukon	600	590	570	540	440	390	11,100	10,500
1% AEP	Breakup Ice Jams - Klondike River Primary	1_BIJ_klondike	410	400	390	360	290	260	6,550	6,140
	Breakup Ice Jams - Yukon River Primary	1_BIJ_yukon								
	Open Water Flows - Klondike River Primary	1_OW_klondike	900	880	850	790	650	560	10,800	9,900
	Open Water Flows - Yukon River Primary	1_OW_yukon	820	800	770	720	590	510	13,600	12,780
0.5% AEP	Breakup Ice Jams - Klondike River Primary	0p5_BIJ_klondike	440	430	420	390	310	270	7,120	6,680
	Breakup Ice Jams - Yukon River Primary	0p5_BIJ_yukon								
	Open Water Flows - Klondike River Primary	0p5_OW_klondike	990	960	930	860	700	610	11,400	10,410
	Open Water Flows - Yukon River Primary	0p5_OW_yukon	910	890	860	800	650	560	14,700	13,790
0.5% AEP + Factor of Safety for Climate Change and Land Cover Change	Breakup Ice Jams - Klondike River Primary	0p5-CC-LC_BIJ_klondike	620	600	590	550	430	380	9,256	8,636
	Breakup Ice Jams - Yukon River Primary	0p5-CC-LC_BIJ_yukon								
	Open Water Flows - Klondike River Primary	0p5-CC-LC_OW_klondike	1,390	1,340	1,300	1,200	980	850	14,820	13,430
	Open Water Flows - Yukon River Primary	0p5-CC-LC_OW_yukon	1,270	1,250	1,200	1,120	910	780	19,110	17,840

8.2 Model Setup

Terrain import, mesh generation, visualization of hydraulic results, and cross-section delineation were completed in RAS Mapper, a mapping program produced by the USACE that interfaces with HEC-RAS.

8.2.1 Model Domain

The model domain covered 58.1 km of the Klondike River and 30.5 km of the Yukon River. The Yukon River model extends approximately 15 km downstream of the AOI. Methods for extending the model geometry inputs are discussed in this section. A single integrated hydraulic model was used to simultaneously simulate hydraulic calculations in the Klondike River and the Yukon River. A junction was established for the Klondike River confluence with the Yukon River, using the energy method for steady flow analysis. The angle of approach for the junction was set as 90° and 10° for the Klondike River and Yukon River, respectively. Calibration, validation, and design AEP runs were completed independently for each river; because of the single integrated model approach, an appropriate “paired” flow was assigned for the non-primary river for each run as outlined in Table 8-1.

The final hydraulic model for flood mapping in the Study Area was a single 1D model for the Klondike River and Yukon River, with separate model runs for design AEP events. An initial 2D model run was completed to delineate 1D cross-section alignments throughout the model domain which spanned the overbank zones and were perpendicular to flow.

8.2.2 Cross-Sections

Cross-sections in the HEC-RAS model consisted of three different types:

i. Surveyed cross-sections (5 on Flat Creek, 121 on Klondike River, 13 on Yukon River)

ii. Cross-sections cut from within bathymetry reach (none on Flat Creek, none on Klondike River, 52 on Yukon River)

iii. Interpolated cross-sections between and/or downstream of the above two types of cross-sections (6 on Flat Creek, 161 on Klondike River, 17 on Yukon River)

The above resulted in a total of 11 model cross-sections on Flat Creek, 297 model cross-sections on the Klondike River, and 81 model cross-sections on the Yukon River.

Interpolated cross-section spacing varied by location to facilitate model stability and ice jam modelling. At the proposed ice jam locations, cross sections were created using interpolated bathymetric data to capture the rapid changes in ice thickness at the toe of the ice jam. Beltaos et al. (2013) provides guidance on cross section spacing for ice jam modelling and recommends constant cross section spacing through the toe and transition zone on the jam at approximately 0.25 of the bank width. AutoCAD Civil 3D 2024 was used to develop the synthetic geometry for the interpolated cross-sections, using detailed streamwise channel alignment (banks, thalweg and LiDAR) and cross-sectional area checks as guides.

Figure 8-2 provides an example (at the Dempster Highway Jam, between Klondike River station 46+441 and 46+050) of where/how interpolated cross-sections were added.

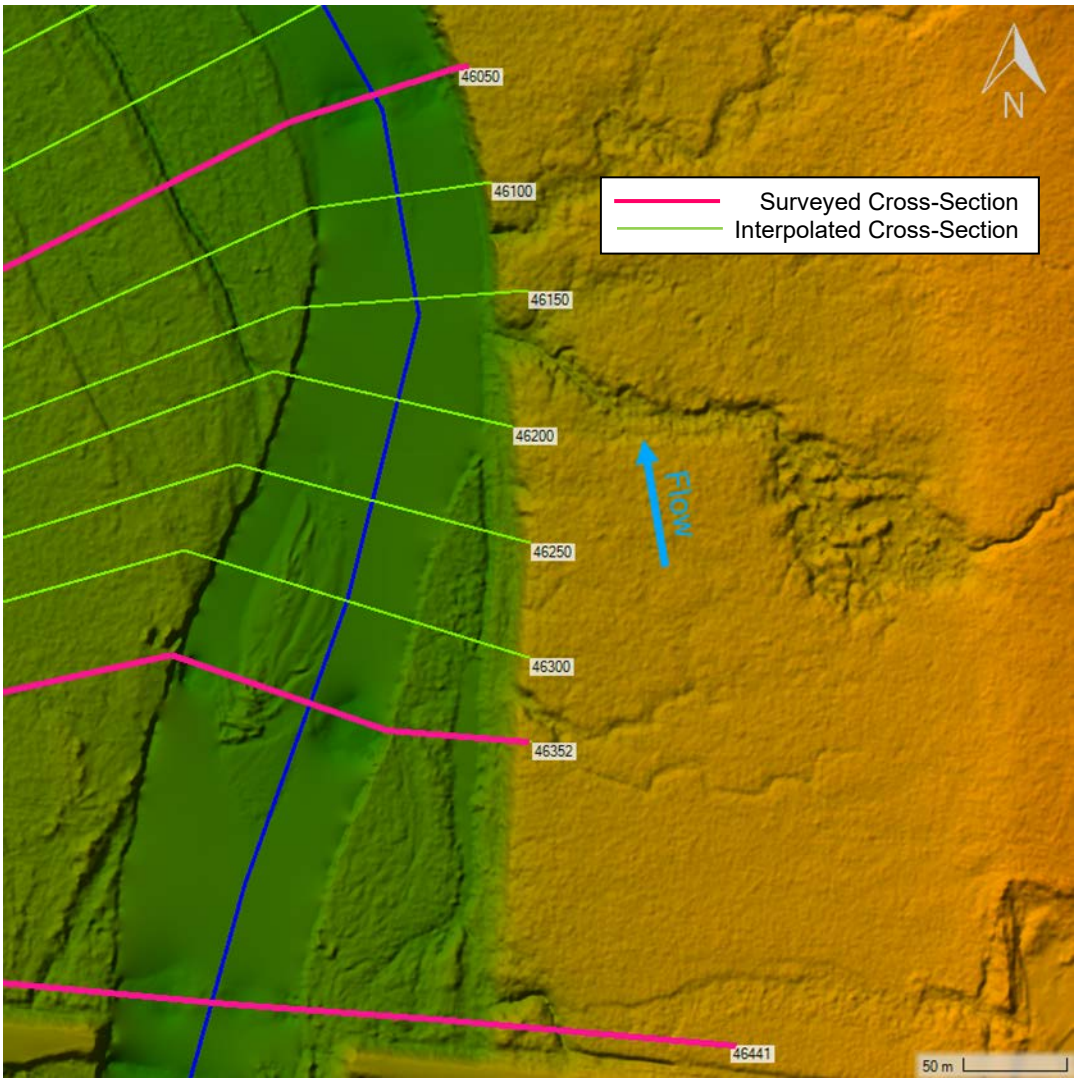

Figure 8-2 Example of Surveyed and Interpolated Cross-Sections Between Klondike River Station 46+441 and 46+050

Excluding cross-sections at bridges (where spacing was 13–15 m apart), cross-section spacing on Flat Creek was 105 – 1,368 m, with an average spacing of 533 m. Bankfull width on Flat Creek is approximately 15 m (on average) meaning cross-section spacing was 7–71 bankfull widths, with an average of 35.5 bankfull widths. While these spacings are generally above the recommended ratios, the simplicity of the creek's geometry and lack of documented ice jam flooding meant this resolution was reasonable for the purposes of this Project.

Excluding cross-sections at bridges (where spacing was 46 – 72 m apart), cross-section spacing on the Klondike River was 13 – 1,788 m, with an average spacing of 195 m. Bankfull width on the Klondike River is approximately 160 m (on average) meaning cross-section spacing was 0.08–11 bankfull widths, with an average of 1.2 bankfull widths.

Cross-section spacing on the Yukon River was 64 – 3,833 m, with an average spacing of 406 m. Bankfull width on the Yukon River is approximately 620 m (on average) meaning cross-section spacing was 0.1 to 6.2 bankfull widths, with an average of 0.65 bankfull widths.

8.2.3 Model Extension

Downstream of the AOI on the Yukon River the model geometry was extended by approximately 15 km to i) reduce sensitivity of the modelled WSEs within the AOI to downstream boundary conditions, and ii) to facilitate modeling the observed, dominant ice jam location on the Yukon River. This extended portion of the model is downstream of the AOI and not included in the flood hazard maps. The model extension utilized synthetic cross sections based on captured surveyed cross sections from within the AOI with similar overbank geometry and river width. The selected bathymetric sections were translated in space based on the WSE slope captured in the Surface Water and Ocean Topography (SWOT) Water Surface Elevations Captured 2024-07-02 (SWOT 2024) and distance from the surveyed cross section location. LiDAR was not available for this reach. The publicly available High Resolution Digital Elevation Model HRDEM provided through NRCan as part of the National Elevation Data Strategy was used to supplement the overbank elevation data. The resulting reach geometry allows for ice jam modelling in the area downstream of Dawson City.

8.2.4 Hydraulic Structures

Hydraulic structure dimensions as described in Section 7.4.2 and Section 7.5.2 were entered into HEC-RAS within the 1D model geometry editor. At the Flat Creek bridge, cross-sections were located 13 m downstream of the bridge and 15 m upstream of the structure. At the Klondike River Bridge (Dempster Highway), cross-sections were located 10 m upstream and 62 m downstream of the structure. At the Klondike River Bridge (Klondike Highway), cross-sections were located 19 m upstream and 27 m downstream of the structure. The bridge sections were extended to capture potential overtopping of the road deck adjacent to the bridge span. Ineffective flow areas were added based on the size of the bridge openings in the upstream and downstream cross-sections where the flow transition pattern occurs and meets the bridge surrounding cross-sections.

Standard contraction and expansion coefficients, 0.1 and 0.3, were selected for cross sections in the model. However, contraction and expansion coefficients were increased to 0.3 and 0.5 for “Typical Bridge Sections” based on the HEC-RAS Hydraulic Reference Manual (USACE 2023). The values were updated for the two cross-sections upstream and one cross-section downstream of the bridges.

An initial 1D model run was completed using the 0.5% AEP open water flows as the upstream boundary conditions, published Mannings n values, Chow (1959) and USACE (2023), and normal depth as the downstream boundary condition (energy slope = 0.0368% based on SWOT Water Surface Elevations Captured 2024-07-02) (SWOT 2024). As the hydraulic model was a single model for both the

Klondike River and Yukon River, a downstream boundary condition was only required for the Yukon River; the downstream boundary condition for the Klondike River was the model's internally calculated WSE on the Yukon River at the confluence for that model run. Edge lines and downstream flow lengths were assigned in RAS Mapper based on the inundation results from the 1D model run. The result was an operating 1D HEC-RAS model consisting of both Klondike River and Yukon River reaches within the model.

8.3 Open Water Modelling

8.3.1 Flat Creek

Flat Creek is one of the main tributaries to the Klondike River. It was the one tributary identified for modelling due to the proximity of the Flat Creek Bridge (Klondike Highway) to the Klondike River. Flat Creek Bridge (Klondike Highway) is located approximately 1.3 km upstream of the confluence of Flat Creek with the Klondike River and is critically important for access to Dawson City. A 5 km reach of Flat Creek was modeled with a separate HEC-RAS geometry and simulations to establish the backwater effect of Klondike River flooding on the Flat Creek Bridge (Klondike Highway).

8.3.1.1 Boundary Conditions

The upstream boundary condition for the Flat Creek open water hydraulic model was the flow specified for the run. The downstream boundary condition for the Flat Creek open water hydraulic model was the WSE from the Klondike River simulations for the same AEP event (Table 8-2).

Table 8-2 Flat Creek Boundary Conditions

AEP Design Event	Downstream Boundary WSE (m)	Upstream Boundary Inflow (m^3/s)
5% AEP	455.79	68
1% AEP	455.92	102
0.5% AEP	455.97	117
0.5% + Factor of Safety for Climate Change and Land Cover Change	456.21	164

8.3.1.2 Model Calibration and Validation

Flow rate and WSE data for an open water hydraulic model calibration on Flat Creek were not available for this Project and calibration could therefore not be completed. Mannings n values calibrated for the Klondike River were assigned to Flat Creek.

8.3.2 Klondike River

8.3.2.1 Boundary Conditions

The upstream boundary condition for the Klondike River open water hydraulic model was the specified flow for the run. The downstream boundary condition for the Klondike River open water hydraulic model was the modelled WSE of the Yukon River under open water conditions at the junction (Yukon River station 23+779) using the paired flow in the Yukon River for the Klondike River run being completed (Table 8-1) and a downstream boundary condition on the Yukon River of normal depth with a slope of 0.0368% (SWOT 2024), which is consistent with other published slope ranges for the Yukon River at Dawson (e.g., Gerard et al. 1992).

8.3.2.2 Model Calibration

Open water hydraulic model calibration for the Klondike River was completed for the May 24, 2023 flood event which had a flow rate of 938 m³/s, recorded at WSC Station 09EA003 on the Klondike River. The recorded flow rate in the Yukon River upstream of the confluence on May 24, 2023 was estimated to be 8,174 m³/s (GoC 2024a) and was adopted as the paired Yukon River flow rate for the Klondike River open water calibration. Calibrated Mannings n values are summarized in Table 8-3 .

Table 8-3 Calibrated Mannings n for Klondike River Open Water Conditions

Model Land Classification Name	Mannings n
Dense Trees	0.065
Brush	0.045
Road	0.020
Short Grass/Gravel	0.020
Dredge Ponds	0.100
Dawson City	0.040
Klondike River Main Channel Upper Klondike	0.033
Klondike River Side Channel	0.041
Klondike River Main Channel Lower Klondike	0.022

The calibration data indicated less hydraulic resistance and headloss on the Klondike River main channel below Klondike River Bridge (Klondike Highway). To match the calibration WSE in that reach the Mannings n value was reduced. The Klondike River from the Klondike River Bridge (Klondike Highway) and confluence of the Yukon River had fewer in stream obstructions than the Klondike River upstream of that point.

The resulting WSE differential and summary statistics in Table 8-4 and Table 8-5 consider the definitions of WSE Differential (WSE Differential = Simulated WSE – Surveyed WSE) and Root Mean Square Error (RMSE), outlined in Equation 5 and Equation 6, respectively, where N is the number of surveyed WSEs (4 for the Klondike River open water calibration run). Calibration statistics for the final calibration run WSEs are presented both as absolute values (in m) and as percentage of the average maximum flow

depth across the cross-sections in the calibration run (3.78 m). The WSEs of the final calibration are illustrated in Figure 8-3 and Figure 8-4 for portions of the Klondike River with HWMs. Simulated WSE is plotted against surveyed WSE in Figure 8-5, demonstrating that the calibrated model effectively captures both trend and magnitude. The coefficient of determination (R^2) and trendline slope are both close to 1, indicating strong agreement. A profile of WSE Differential is provided in Figure 8-6.

$$WSE\ Differential = Simulated\ WSE - Surveyed\ WSE \quad (5)$$

$$\text{RMSE} = \sqrt{\frac{\sum_{i=1}^{N}(WSE\ Differential)^2}{N}} \quad (6)$$

The Klondike River open water calibration is considered reasonable for the purposes of this Project given the information available. The calibration flow represents is between the 1% and 0.5% open water AEPs. The calibration results have an average WSE Differential of 0.02 m or 0.53% of average maximum cross-section flow depth. The maximum WSE Differential of 0.09 m, located near Rock Creek approximately halfway through the AOI, is 0.01 m greater than the next highest WSE differential (0.08 m). Future improvements in model calibration could be achieved through increased cross-section survey data and higher-resolution WSE calibration points during high-flow events, especially considering the variable bed profile and meandering planform of the Klondike River. The main channel Mannings n values used fall within the ranges provided in published literature, such as Chow (1959) and USACE (2023), for roughness coefficients of gravel-bed rivers during flood stage.

Table 8-4 Klondike River Open Water Calibration WSE Results

Point Description	River Station (m)	Survey Elevation (m)	Modelled Elevation (m)	WSE Differential (m)	WSE Differential (% of Average Thalweg Depth)
HWM_KR_2023_OW-01	1+578	319.89	319.92	+0.03	+0.79%
HWM_KR_2023_OW-02	2+972	322.88	322.95	+0.07	+1.85%
HWM_KR_2023_OW-03	22+580	375.80	375.89	+0.09	+2.38%
HWM_KR_2023_OW-04	24+489	381.26	381.17	-0.09	-2.38%

Table 8-5 Klondike River Open Water Calibration Summary Statistics

Parameter	Value	WSE Differential (% of Average Thalweg Depth)
Average WSE Differential	+0.02 m	+0.79%
Minimum WSE Differential	-0.09 m	-2.38%
Maximum WSE Differential	+0.09 m	+2.38%
RMSE	+0.07 m	+1.85%
R^2	0.999	Not Applicable

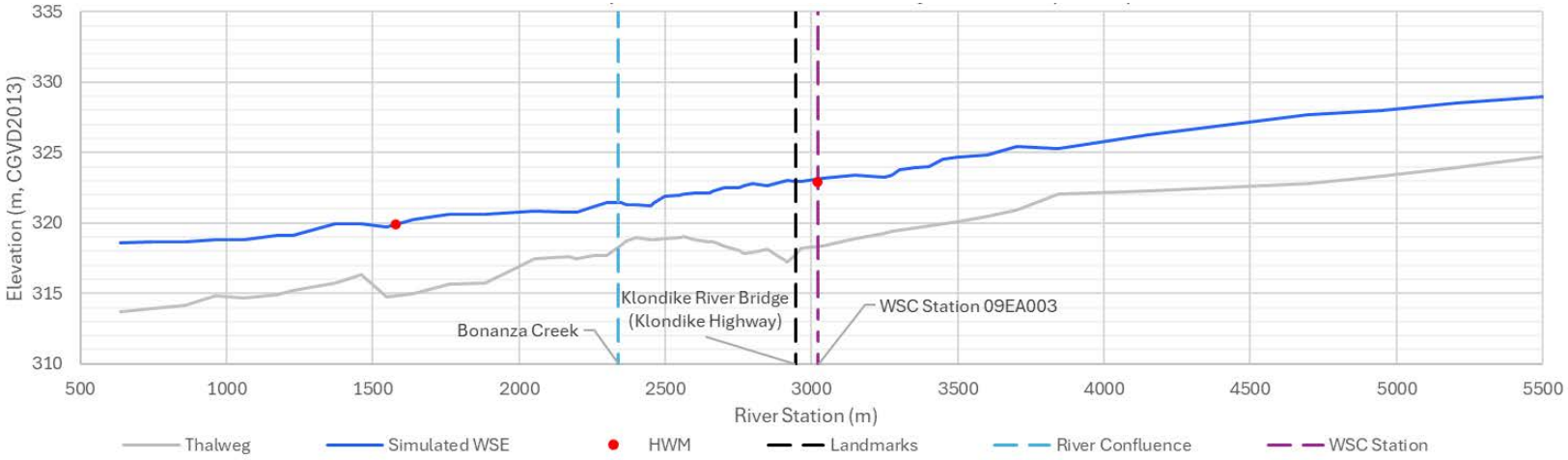

Figure 8-3 Klondike River Open Water Calibration (May 24, 2023 Event) (1 of 2)

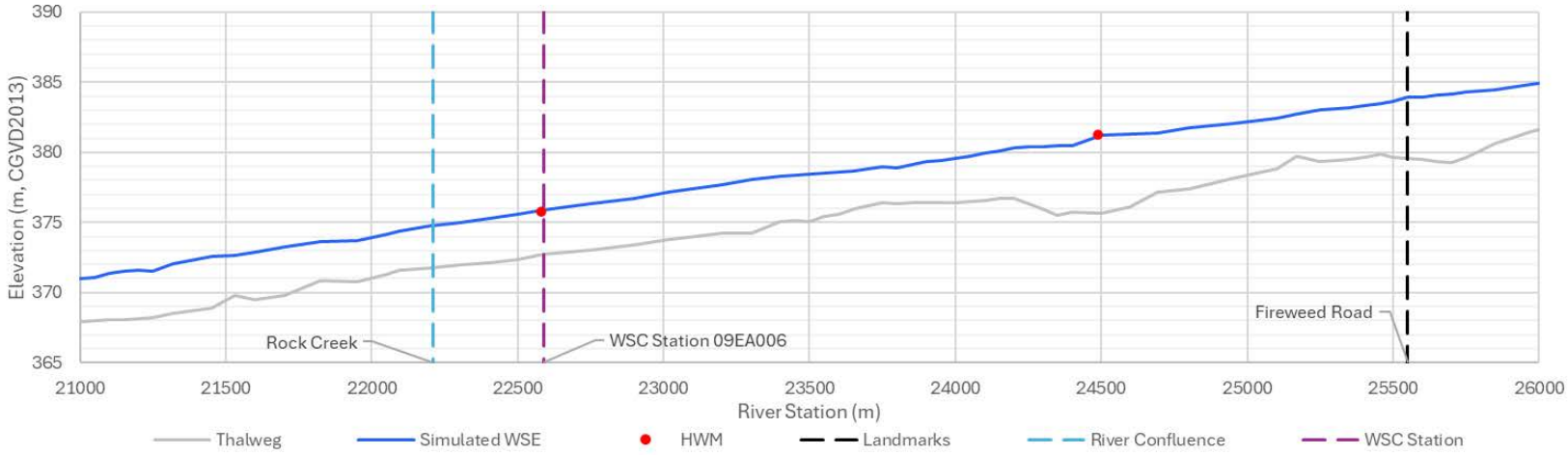

Figure 8-4 Klondike River Open Water Calibration (May 24, 2023 Event) (2 of 2)

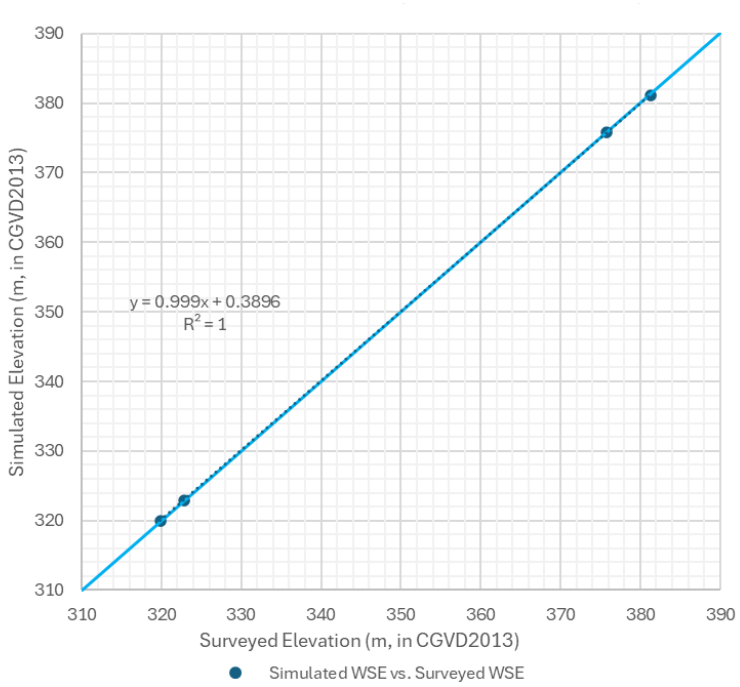

Figure 8-5 Klondike River Open Water Calibration Simulated WSEs vs. Surveyed WSEs (May 24, 2023 Event)

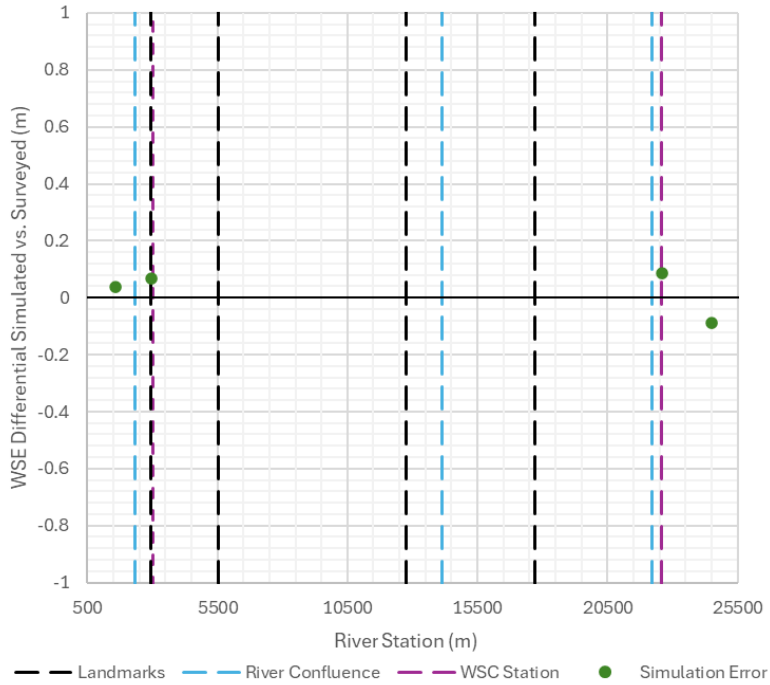

Figure 8-6 Klondike River Open Water Calibration WSE Differentials (May 24, 2023 Event)

8.3.2.3 Model Validation

As the open water calibration was limited to the four surveyed WSE's, Stantec undertook two exercises to further validate the open water hydraulic model.

8.3.2.3.1 Water Survey of Canada Station Rating Curve

The rating curve for WSC Station 09EA003, last updated in 2021, was used to validate the calibrated model. The model simulated a range of flows for the Klondike River and the resulting WSEs at the location of WSC Station 09EA003 were compared to the current WSC rating curve #17 at the station. As shown in Figure 8-7, the calibrated model produces WSE values consistent with WSC observations for flow rates below the highest WSC measured flow rate. Above the highest WSC measured flow rate, the simulated WSE is higher than the extrapolated rating curve WSE.

The extrapolated portion of the WSC rating curve is based on a regression equation and is unlikely to capture the backwater effects of the constriction formed by the bridge abutments and Klondike Highway downstream of WSC Station 09EA003. The effect of which would become more substantial at higher flow rates when more of the overbank flow is in contact with these constriction elements. In contrast, the calibrated hydraulic model produces WSEs which reflect the bridge constriction backwater effects as flows increase. This likely accounts for the difference between the WSC extrapolated rating curve WSE and the model simulated WSEs.

To test the reason for the differences at higher flows, the calibrated hydraulic model was run a second time with the bridge removed from the geometry. The results in Figure 8-7 indicate WSEs closer to the extrapolated rating curve, therefore supporting the above explanation for the difference in WSEs.

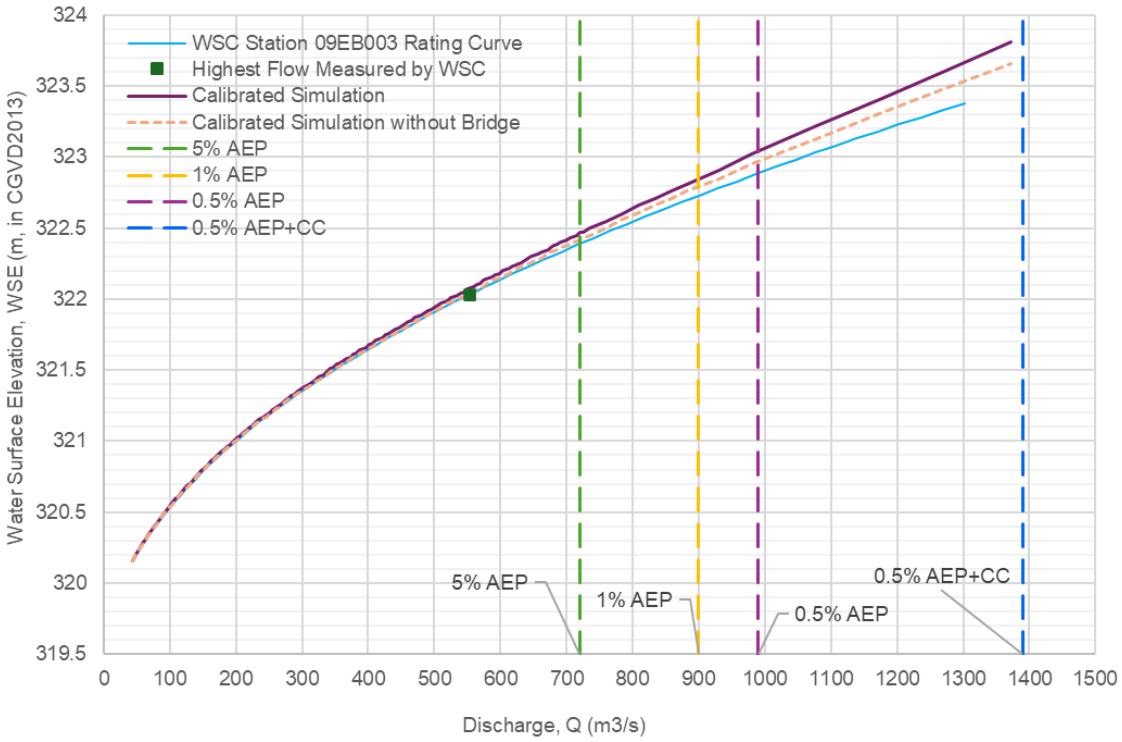

Figure 8-7 Klondike River WSC Gauge 09EA003 Rating Curve Validation

8.3.2.3.2 June 2024 Longitudinal Profile

Open water hydraulic model validation for the Klondike River was also completed using WSE's throughout the AOI during the June 3, 2024 survey when flow rates on the Klondike River were recorded as 270 m³/s (below a 50% AEP event). The flow rate on the Yukon River on June 3, 2024, was 3,850 m³/s. This open water validation run used the same Mannings n values determined in calibration. The resulting WSE is plotted against the simulated event in Figure 8-8 and Figure 8-9.

The results suggest that the calibrated hydraulic model may underestimate the WSE for Klondike River in non-flood events when the flow rates that are being simulated are below the AEP events modelled for this flood mapping Project. First principles of hydraulics and relative roughness would support a theoretical underestimation of WSEs for lower flows. That is, as the depth of flow increases the relative roughness and associated hydraulic resistance of the same bed material decreases. Since the model was developed for high flow scenarios the Mannings n selected may not be sufficiently high for non-flood conditions. Additionally, average flow conditions may not follow the defined flow path of this 1D model as the floodplain would not be engaged, limiting flow to the braided channels.

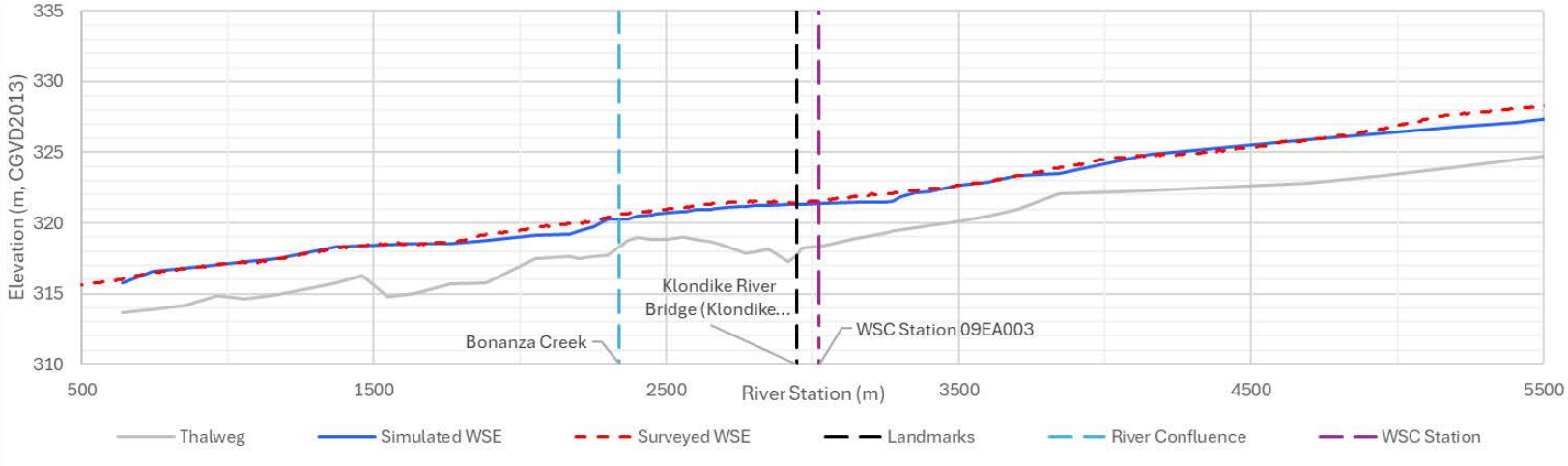

Figure 8-8 Klondike River Open Water Validation (June 5, 2024 Event) (1 of 2)

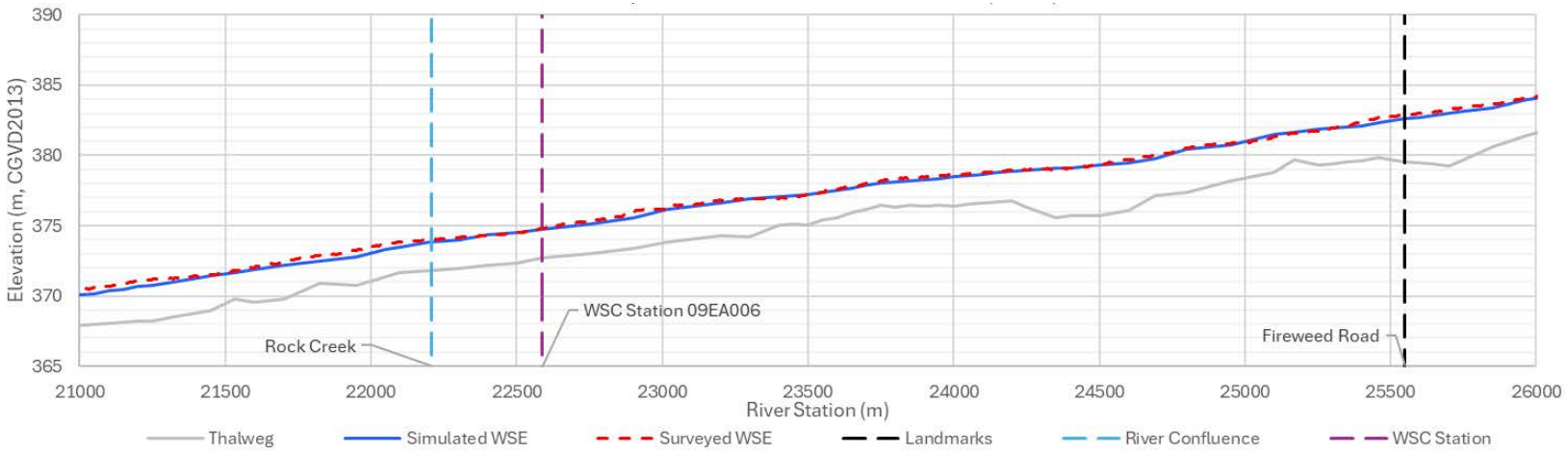

Figure 8-9 Klondike River Open Water Validation (June 5, 2024 Event) (2 of 2)

8.3.3 Yukon River

8.3.3.1 Boundary Conditions

The upstream boundary condition for the Yukon River open water hydraulic model was the specified flow rate for the run. As noted in Section 8.2, the downstream boundary condition for the Yukon River open water hydraulic model was normal depth assuming a slope of 0.0368% (SWOT 2024).

The HEC-RAS model geometry for the Yukon River was based on river bathymetry and LiDAR surveys conducted in 2024 detailed in Section 7. Detailed data were collected in the AOI, while the water surface slope from the SWOT satellite (SWOT 2024) along with the known discharge at the time of the SWOT data acquisition was used to synthesize the geometry downstream of the AOI so that the effect of downstream boundary conditions could be reduced within the AOI, and so that documented ice jams with their toe downstream of the AOI could be modelled (discussed in Section 8.4.2).

Flow in the Yukon River increased at the Klondike River confluence (Yukon River station 23+779) to include the paired Klondike River flow for the Yukon River run being completed.

8.3.3.2 Model Calibration

Open water hydraulic model calibration for the Yukon River was completed for the June 8, 2022 event detailed in Section 7.6.4.4, with a Yukon River flow rate upstream of the confluence of 8,789 m³/s. The flow rate in the Klondike River on June 8, 2022 was estimated to be 452 m³/s (GoC 2024a); this flow rate was adopted as the paired Klondike River flow for the Yukon River open water calibration.

The calibrated Mannings n values are listed in Table 8-6 .

Table 8-6 Calibrated Mannings n for Yukon River Open Water Conditions

Model Land Classification Name	Mannings n
Dense Trees	0.065
Brush	0.045
Road	0.020
Short Grass/Gravel	0.020
Dredge Ponds	0.100
Dawson City	0.040
Yukon River - Base	0.026
Yukon River- Smooth	0.022
Yukon River- Rough	0.033

The resulting WSE differential and summary statistics in Table 8-7 and Table 8-8 consider the definitions of WSE Differential and RMSE previously outlined in Equation 5 and Equation 6, where N is the number of surveyed WSEs (13 for the Yukon River open water calibration run). Calibration statistics for the final calibration run WSEs are presented both as value (in m) and in a percentage of the average flow depth

across the cross-sections in the calibration run (11.83 m). The WSEs of the final calibration are illustrated in Figure 8-10. Simulated WSE is plotted against Surveyed WSE in Figure 8-11, demonstrating that the calibrated model effectively captures both trend and magnitude. The coefficient of determination (R^2) is 0.972 and trendline slope is 0.9, indicating strong agreement. A profile of WSE differential is provided in Figure 8-12.

The maximum WSE Differential of 0.08 m is located halfway through the AOI. The main channel Mannings n are within given ranges in published literature such as Chow (1959) and USACE (2023) for roughness of sand and gravel bed rivers during flood stage. The Yukon River open water calibration detailed herein is considered reasonable for the purposes of this Project given the information available to Stantec at the time of writing. The calibration flow rate is among the highest flow rates recorded at WSC Station 09EB001 and is 200 m^3/s lower than the 5% open water AEP.

Table 8-7 Yukon River Open Water Calibration WSE Results

Point Description	River Station (m)	Survey Elevation (m)	Modelled Elevation (m)	WSE Differential (m)	WSE Differential (% of Average Thalweg Depth)
HWM	21+997	317.33	317.33	+0.00	+0.00%
HWM	22+059	317.36	317.34	-0.02	-0.17%
HWM	22+144	317.37	317.37	+0.00	+0.00%
HWM	22+357	317.35	317.36	+0.01	+0.08%
HWM	22+615	317.34	317.37	+0.03	+0.25%
HWM	22+938	317.39	317.37	-0.02	-0.17%
HWM	23+075	317.41	317.37	-0.04	-0.34%
HWM	23+239	317.44	317.46	+0.02	+0.17%
HWM	23+387	317.52	317.55	+0.03	+0.25%
HWM	23+510	317.55	317.63	+0.08	+0.68%
HWM	23+624	317.75	317.7	-0.05	-0.42%
HWM	23+731	317.92	317.86	-0.06	-0.51%
HWM	23+821	318.00	317.93	-0.07	-0.59%

Table 8-8 Yukon River Open Water Calibration Summary Statistics

	Value	WSE Differential (% of Average Thalweg Depth)
Average WSE Differential	-0.01 m	-0.08%
Minimum WSE Differential	-0.07 m	-0.59%
Maximum WSE Differential	+0.08 m	+0.68%
RMSE	+0.04 m	+0.34%
R^2	0.972	Not Applicable

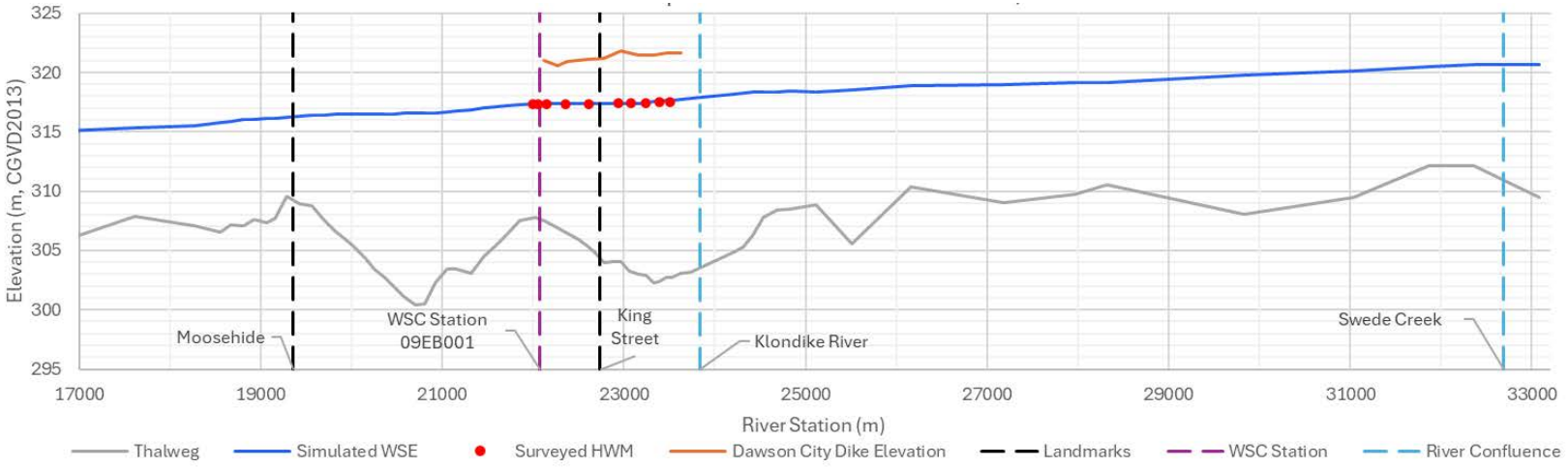

Figure 8-10 Yukon River Open Water Calibration (June 8, 2022 Event)

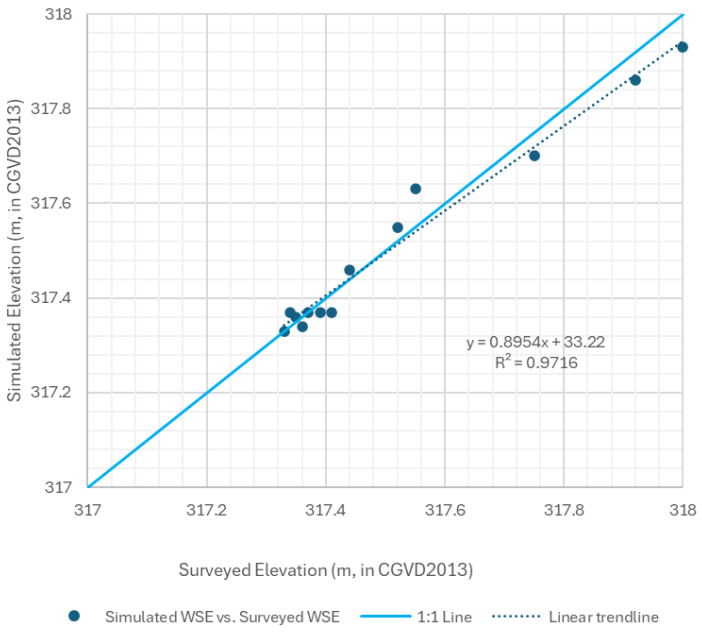

Figure 8-11 Yukon River Open Water Calibration Simulated WSEs vs. Surveyed WSEs (June 8, 2022 Event)

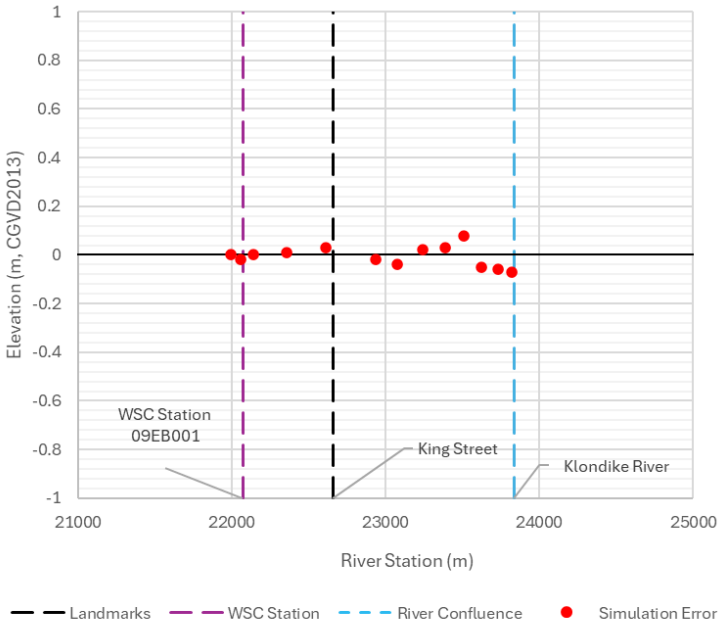

Figure 8-12 Yukon River Open Water Calibration WSE Differentials (June 8, 2022 Event)

8.3.3.3 Model Validation

Similar to the Klondike River, Stantec undertook two exercises to further validate the calibrated open water hydraulic model on the Yukon River.

8.3.3.3.1 Water Survey of Canada Station Rating Curve

The rating curve for WSC Station 09EB001 was used to validate the calibrated open water model of the Yukon River. The model was used to simulate a range of flow rates for the Yukon River and the resulting WSEs at WSC Station 09EB001 were compared to the current WSC rating curve #11. As shown in Figure 8-13, the calibrated model, under the same flow conditions, produces WSEs similar to the WSC rating curve.

The highest measured flow rate at the gauge was 9,940 m³/s and the values in the WSC rating curve above that flow rate are extrapolated from what was measured. The corresponding WSE measured by WSC for the establishment of the WSC rating curve was 317.70 m. When simulating this flow rate, the calibrated model of the Yukon River produces a WSE 317.65 m (0.05 m lower), while the published WSC rating curve produces a WSE of 317.77. (0.07 m higher than WSC's measured value).

Additionally, the calibration event from June 8, 2022 had a measured WSE of 317.36 m for a flow rate of 9,241 m³/s. The use of the WSC rating curve to estimate WSE results in an elevation of 317.42 m (0.06 m higher), while the Yukon River open water model simulated a WSE of 317.34 m (0.02 m lower). The calibrated hydraulic model produces WSE estimates that are closer to the WSE measurements taken by WSC to establish the rating curve than the WSC rating curve produces.

As was observed during open water model validation on the Klondike River, the open water model WSEs deviates from the WSC rating curve within the extrapolated portion of the WSC rating curve.
The hydraulic model accounts for river geometry (e.g., increased floodplain access) and impacts to hydraulics at these elevated discharges, whereas the rating curve relies on extrapolation of a regression equation which itself is based on lower flow rates. For this reason, the calibrated hydraulic model is likely to produce better estimates of WSEs at these higher discharges.

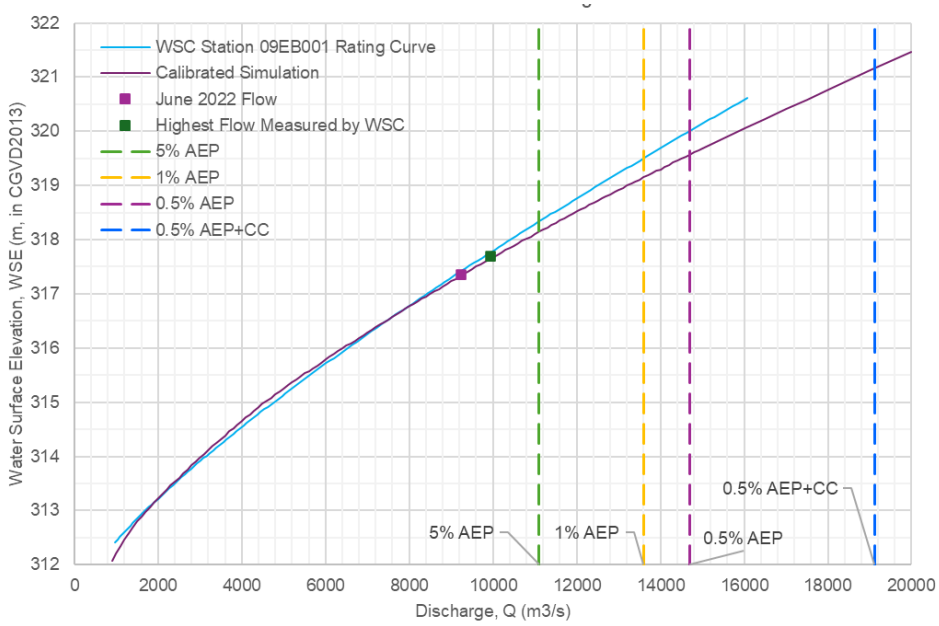

Figure 8-13 Yukon River WSC Gauge 09EB001 Rating Curve Validation

8.3.3.3.2 June 2024 Surveyed Longitudinal Profile

Open water hydraulic model validation for the Yukon River was also completed using the June 4, 2024, survey data detailed in Section 7.6.4.5, with a Yukon River flow rate downstream of the confluence of 3,699 m³/s which is below a 50% AEP. The open water validation run used the Mannings n values determined in calibration. The flow rate in the Klondike River on June 4, 2024, was 270 m³/s. The resulting WSE is plotted against the surveyed WSEs in Figure 8-14.

While the focus of the Project is on modelling flood events, this second validation exercise suggests that the calibrated hydraulic model can effectively model flow rates on the Yukon River when flows are less than half of the 50% open water AEP.

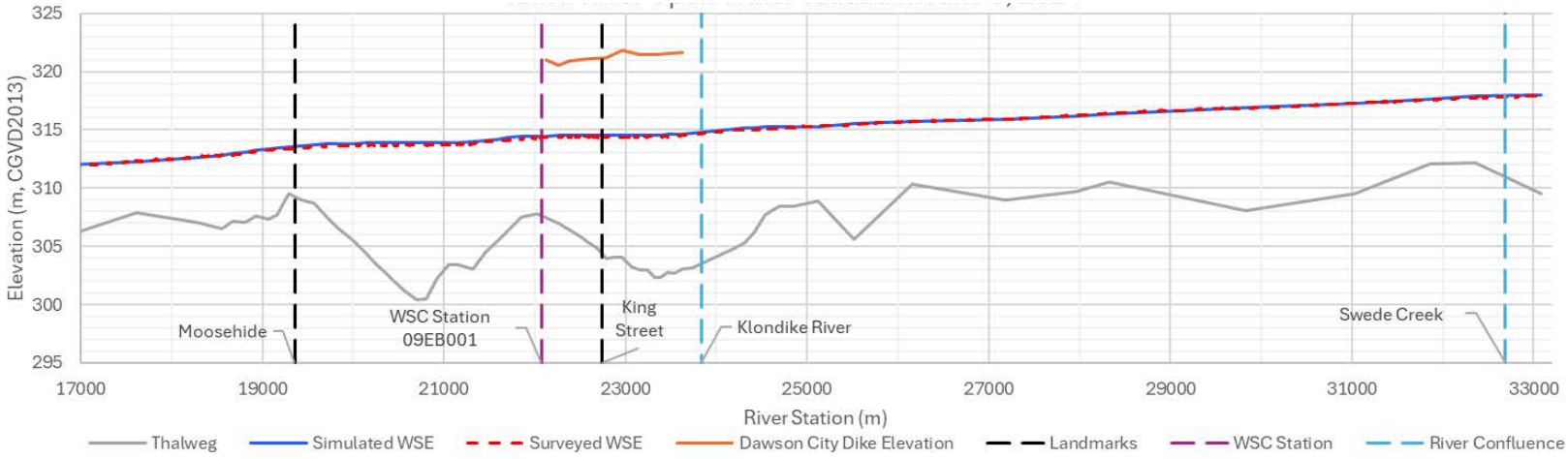

Figure 8-14 Yukon River Open Water 2024 Validation (June 4, 2024 Event)

8.3.4 Design AEP Model Runs

The open water design AEP runs from Table 8-1 were completed in the calibrated hydraulic model to produce WSE results that are used in flood mapping. Results of each of the model runs are provided in tabular format in Appendix F. WSE profiles from the open water AEP design runs are illustrated for Flat Creek in Figure 8-15, the Klondike River in Figure 8-16 through Figure 8-21, and the Yukon River in Figure 8-22.

The elevation of the low cord of the Flat Creek Bridge (Klondike Highway) is 460.39 m, which is 1.06 m above the 0.5%+LL-CC AEP WSE at upstream of the bridge. The elevation of the low cord of the Klondike River Bridge (Klondike Highway) is 324.95 m, which is 1.19 m above the 0.5%+LL-CC AEP WSE at upstream of the bridge. The elevation of the low cord of the Klondike River Bridge (Dempster Highway) is 436.23 m, which is 0.06 m above the 0.5%+LL-CC AEP WSE at upstream of the bridge. Therefore, the modelled AEP WSEs does not contact the bridge low chord in any of the open water AEP event simulations.

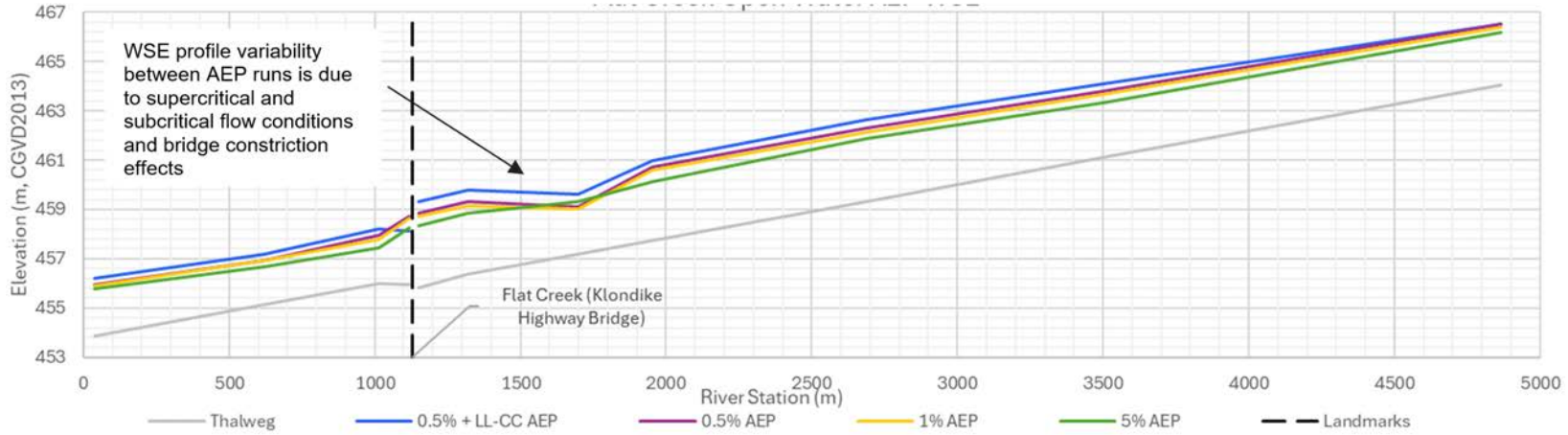

Figure 8-15 Flat Creek WSE Profiles for Open Water Yukon River Primary Runs

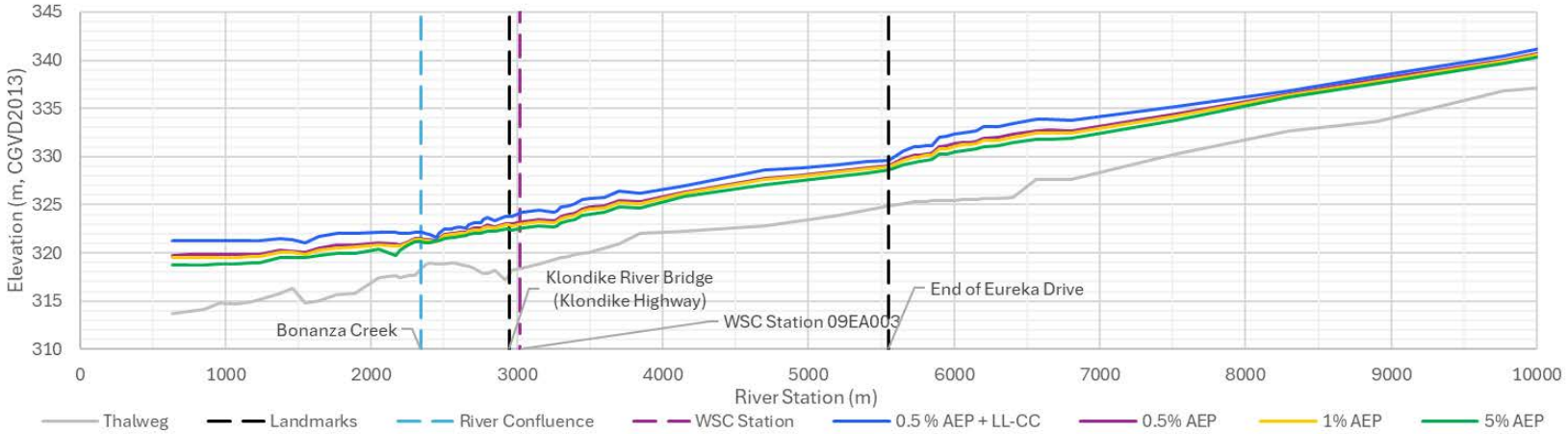

Figure 8-16 Klondike River WSE Profiles for Open Water Klondike River Primary Runs (Station 00+000 to Station 10+000)

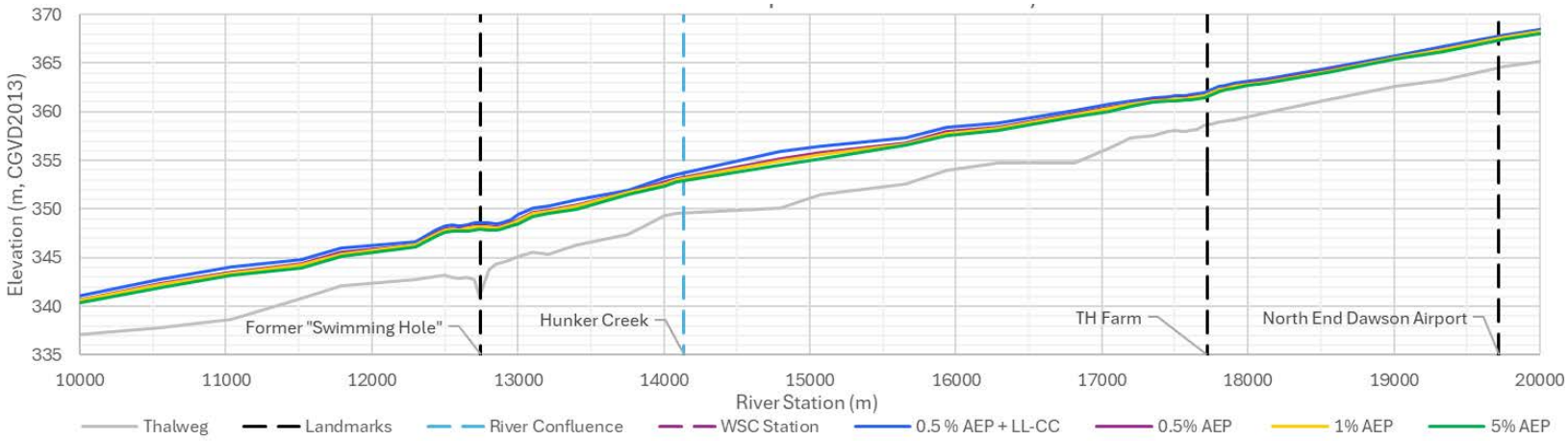

Figure 8-17 Klondike River WSE Profiles for Open Water Klondike River Primary Runs (Station 10+000 to Station 20+000)

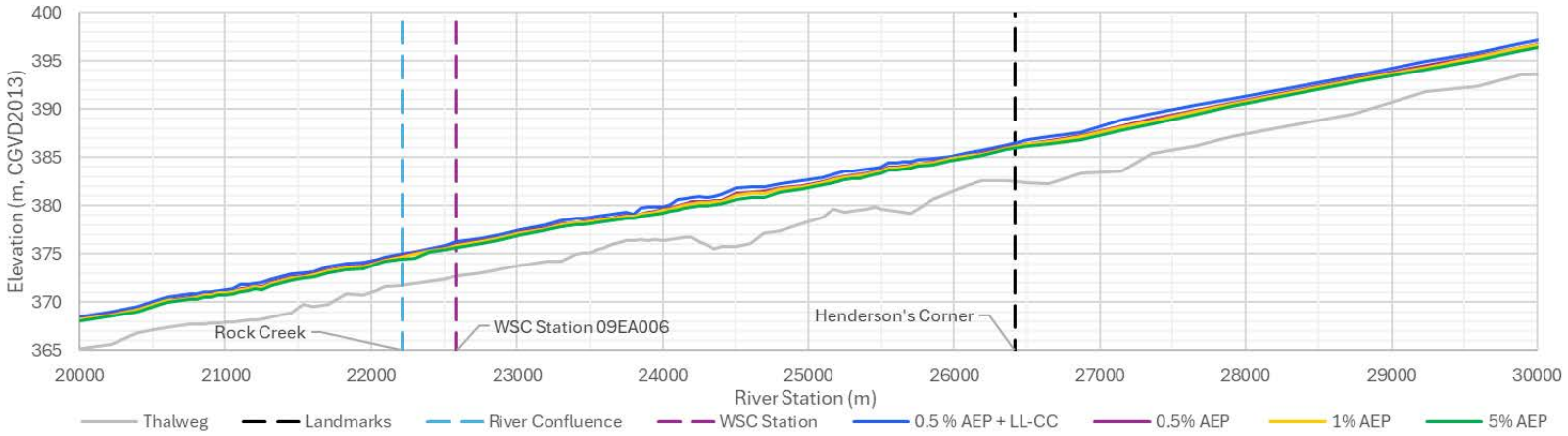

Figure 8-18 Klondike River WSE Profiles for Open Water Klondike River Primary Runs (Station 20+000 to Station 30+000)

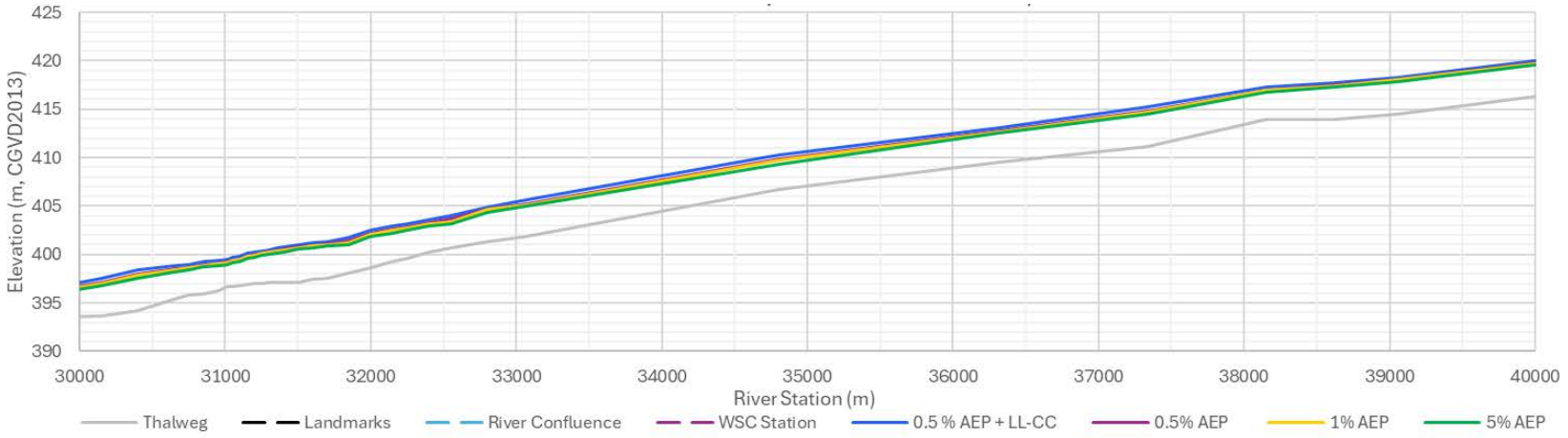

Figure 8-19 Klondike River WSE Profiles for Open Water Klondike River Primary Runs (Station 30+000 to Station 40+000)

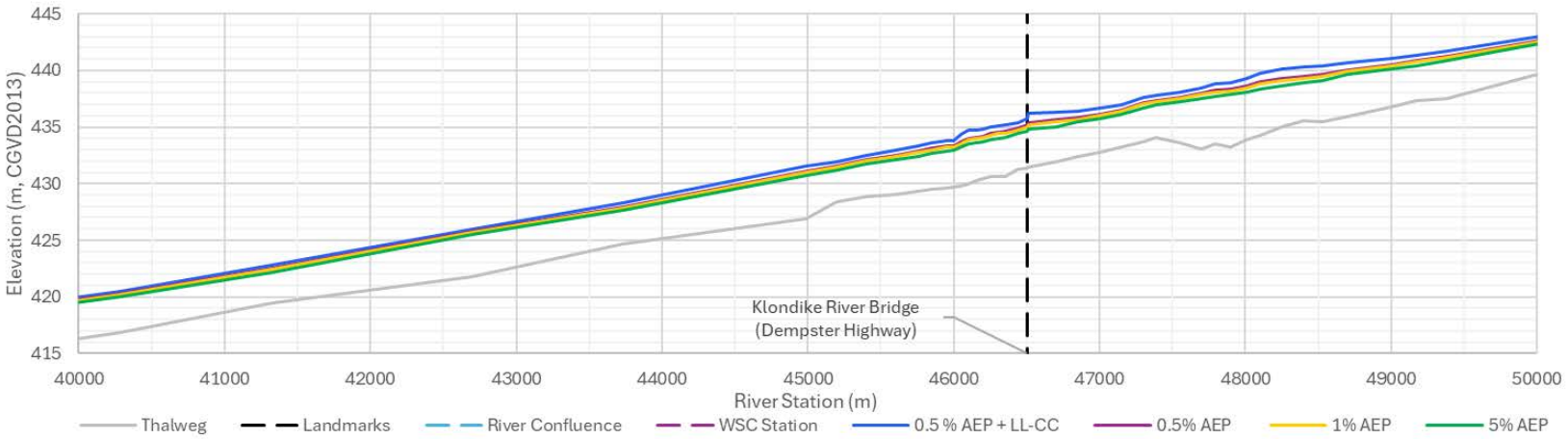

Figure 8-20 Klondike River WSE Profiles for Open Water Klondike River Primary Runs (Station 40+000 to Station 50+000)

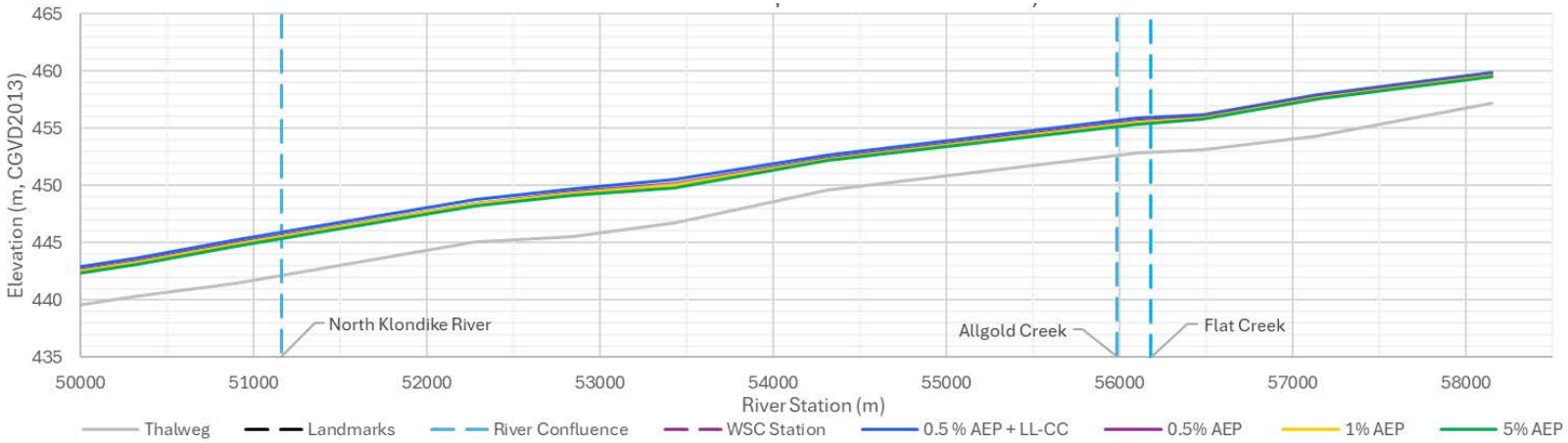

Figure 8-21 Klondike River WSE Profiles for Open Water Klondike River Primary Runs (Station 50+000 to Station 58+500)

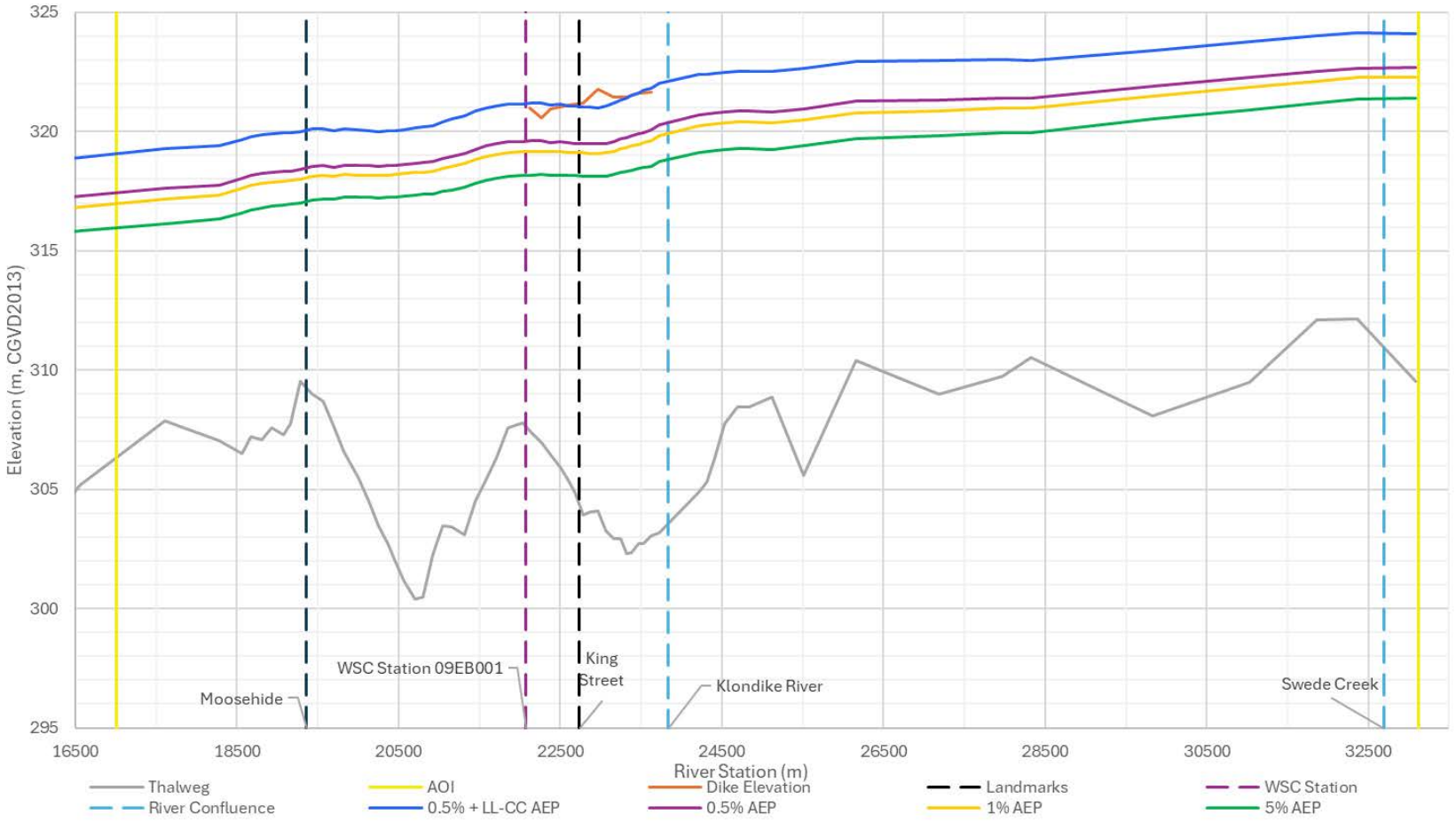

Figure 8-22 Yukon River WSE Profiles for Open Water Yukon River Primary Runs

8.3.5 Sensitivity Analysis

A sensitivity analysis on the open water model results was undertaken to understand how different model parameters impact the model outputs. Findings from sensitivity analyses were not used to alter the calibration, validation, or design runs or AEP simulations.

A total of four sensitivity analysis runs considering the 0.5% AEP open water design flows were completed to evaluate the sensitivity of the Klondike River and Yukon River open water WSEs to main channel and floodplain Mannings n, as well as the downstream boundary condition of the model (Yukon River normal depth energy slope) on the Yukon River WSEs:

1. Sensitivity of WSEs to increasing main channel and floodplain Mannings n by 10%, considering the 0.5% AEP open water for the Yukon River and Klondike River run flows
2. Sensitivity of WSEs to decreasing main channel and floodplain Mannings n by 10%, considering the 0.5% AEP open water for the Yukon River and Klondike River run flows
3. Sensitivity of Yukon River WSEs to increasing the Yukon River normal depth energy slope by 50% used for the downstream boundary condition, considering the 0.5% AEP open water Yukon River run flows
4. Sensitivity of Yukon River WSEs to decreasing the Yukon River normal depth energy slope by 50% used for the downstream boundary condition, considering the 0.5% AEP open water Yukon River run flows

Figure 8-23 and Figure 8-24 illustrate profiles of the changes to WSE in each of the open water sensitivity runs for the Klondike River. Figure 8-25 and Figure 8-26 illustrate profiles of the changes to WSE in each of the open water sensitivity runs for the Yukon River.

The results of the open water sensitivity analysis indicate that the uncertainty in the simulated flood levels, on average, is within ± 0.12 m along the Klondike River and ±0.50 m along the Yukon River for the ±10% change in Mannings n. Maximum difference in WSE values were at the downstream end of the Klondike River and caused by the backwater effects from Yukon River (Figure 8-23). The results of downstream boundary sensitivity analysis indicate that the uncertainty in WSE changes between -0.13 m (for +50% change in downstream boundary condition) and 0.48 m (for -50% change in downstream boundary condition) on the Yukon River in the AOI, shown in Figure 8-26. The changes in downstream boundary condition propagate upstream on the Yukon River and impact the WSEs by ± 0.15 m at the confluence with the Klondike River. Figures 8-26 and 8-27 present the residual WSE for each of the sensitivity analysis simulations from the open water 0.5% AEP simulations for the Klondike and Yukon Rivers, respectively.

The 10% reduction of Mannings n on the Klondike River creates sections of supercritical flow at Station 2+369 to 2+464 near the C4 subdivision and at Station 12+300. These areas have a significant decrease in WSE compared to the average with a -0.32 m at Station 2+369 and -1.04 m at Station 12+300. These sensitive areas are shown in Figure 8-26.

Table 8-9 Open Water Sensitivity Analysis Summary Statistics

River	Klondike River	Klondike River	Yukon River	Yukon River	Yukon River	Yukon River
AEP Design Flow	0.5% AEP	0.5% AEP	0.5% AEP	0.5% AEP	0.5% AEP	0.5% AEP
Sensitivity Run	Decrease Mannings n by 10%	Increase Mannings n by 10%	Decrease Mannings n by 10%	Increase Mannings n by 10%	Increase normal depth energy slope by 50%	Decrease normal depth energy slope by 50%
Average WSE Differential (m)	-0.12	+0.11	-0.50	+0.49	-0.06	+0.24
Minimum WSE Differential (m)	-1.04	+0.00	-0.56	+0.43	-0.13	+0.06
Maximum WSE Differential (m)	+0.18	+0.39	-0.44	+0.54	-0.01	+0.48

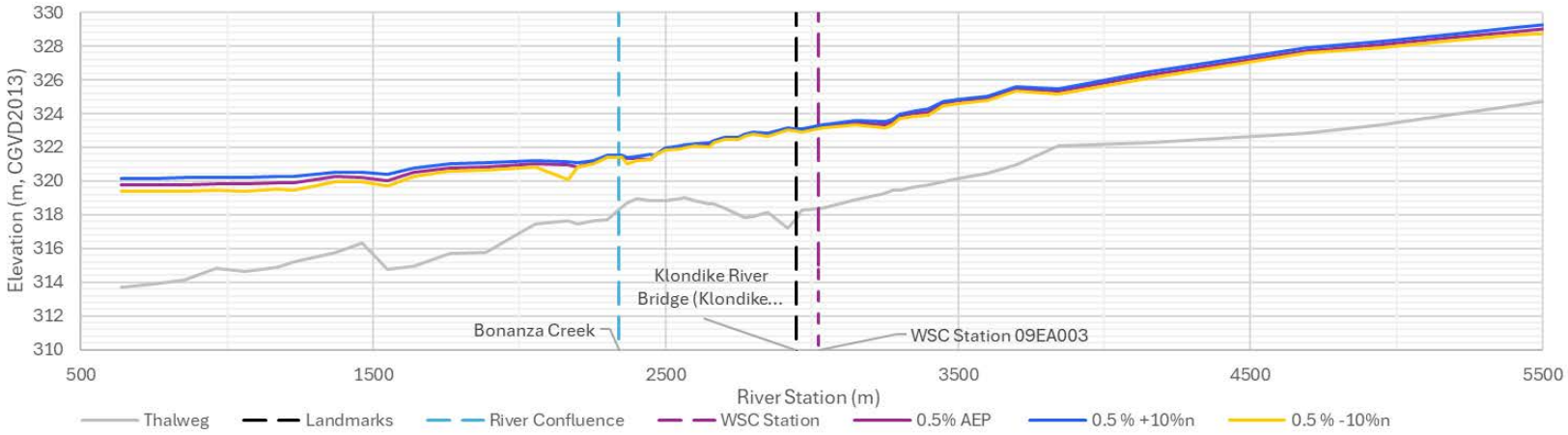

Figure 8-23 Klondike River WSE Profiles for Open Water 0.5% AEP Klondike River Sensitivity Analysis – Mannings n

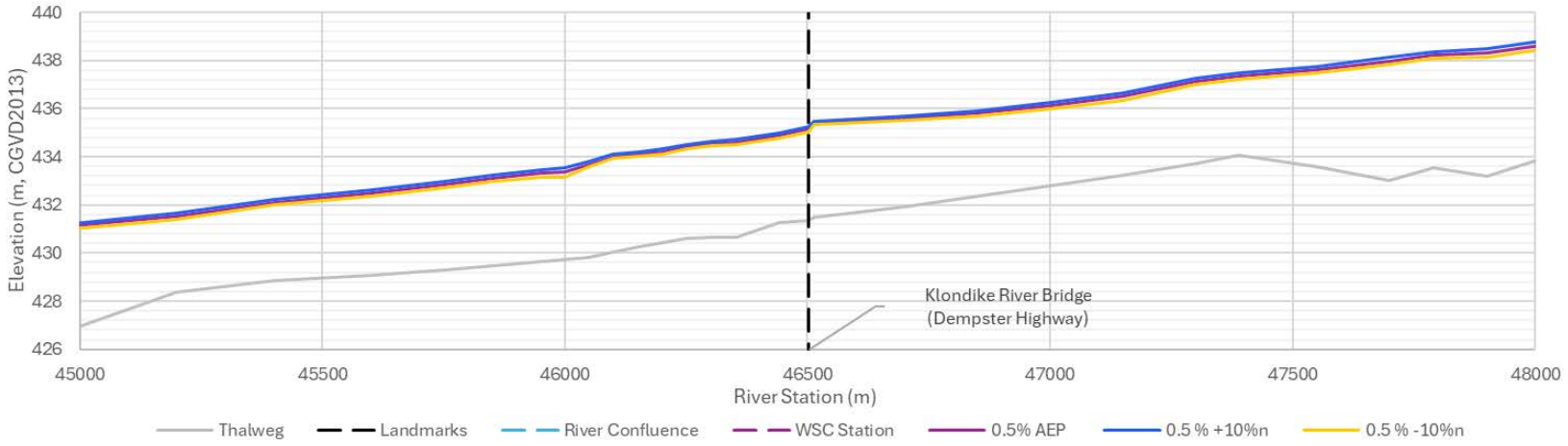

Figure 8-24 Klondike River WSE Profiles for Open Water 0.5% AEP Klondike River Sensitivity Analysis – Mannings n

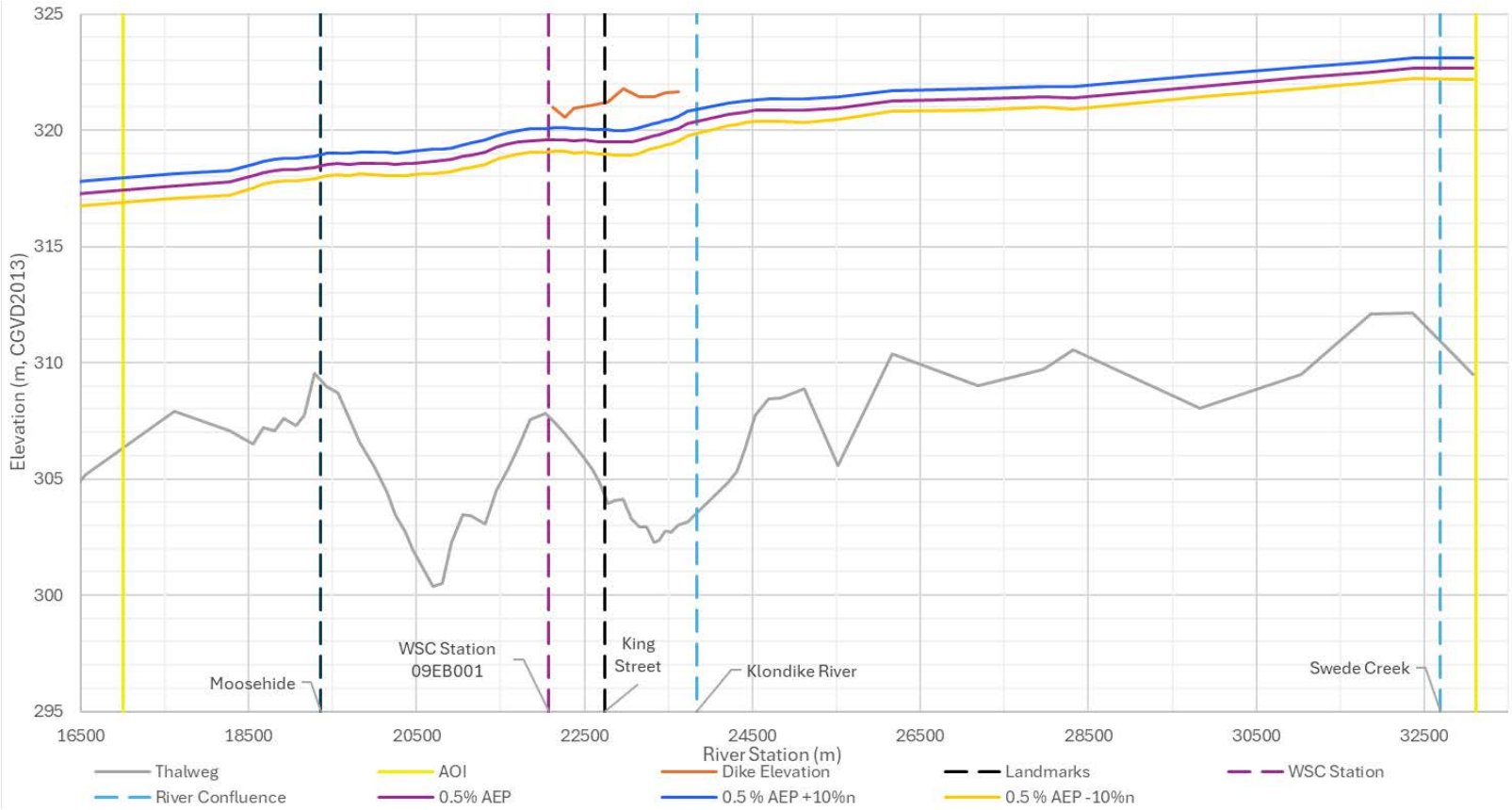

Figure 8-25 Yukon River WSE Profiles for Open Water 0.5% AEP Yukon River Sensitivity Analysis – Mannings n

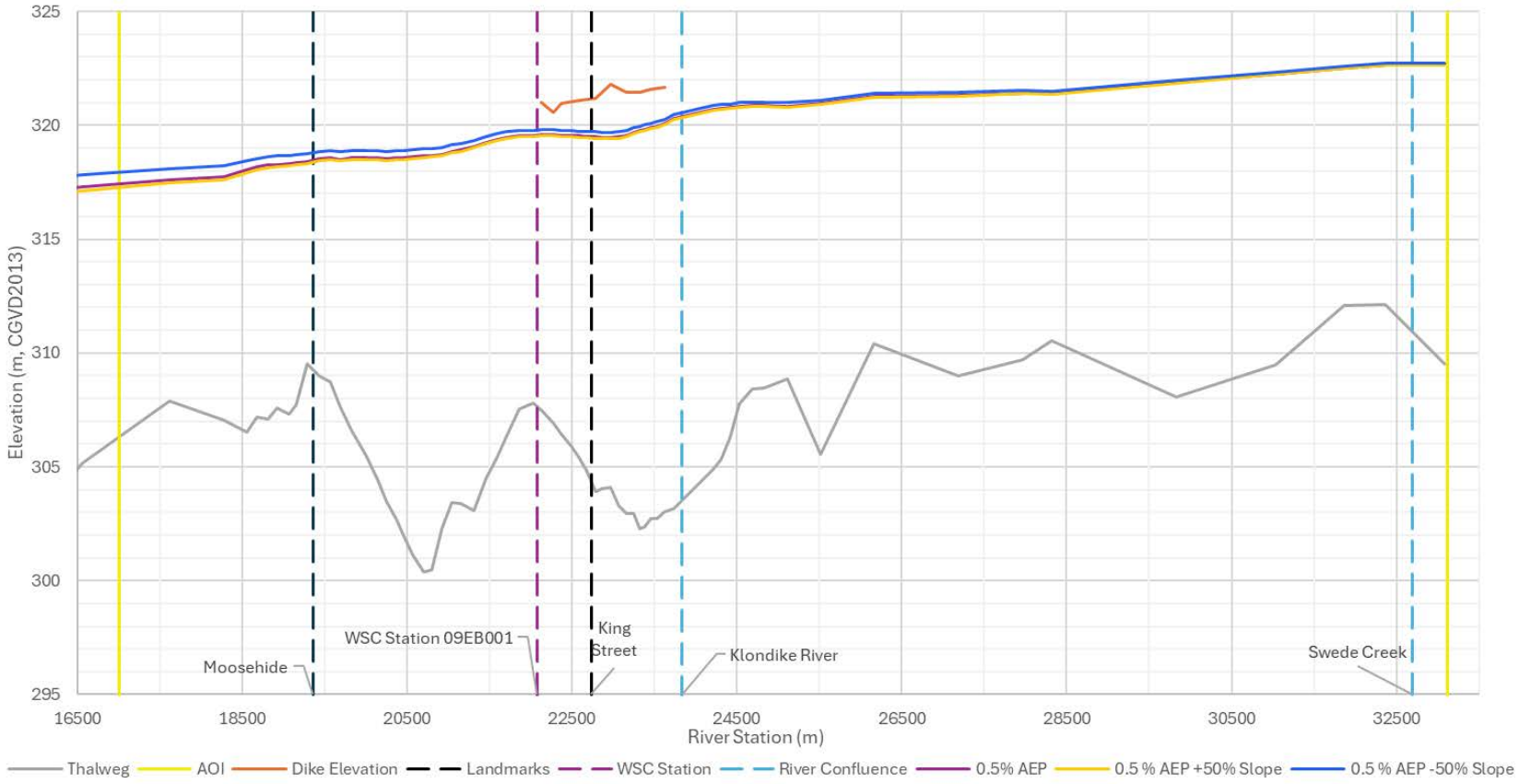

Figure 8-26 Yukon River WSE Profiles for Open Water 0.5% AEP Yukon River Sensitivity Analysis – Downstream Boundary Condition Slope

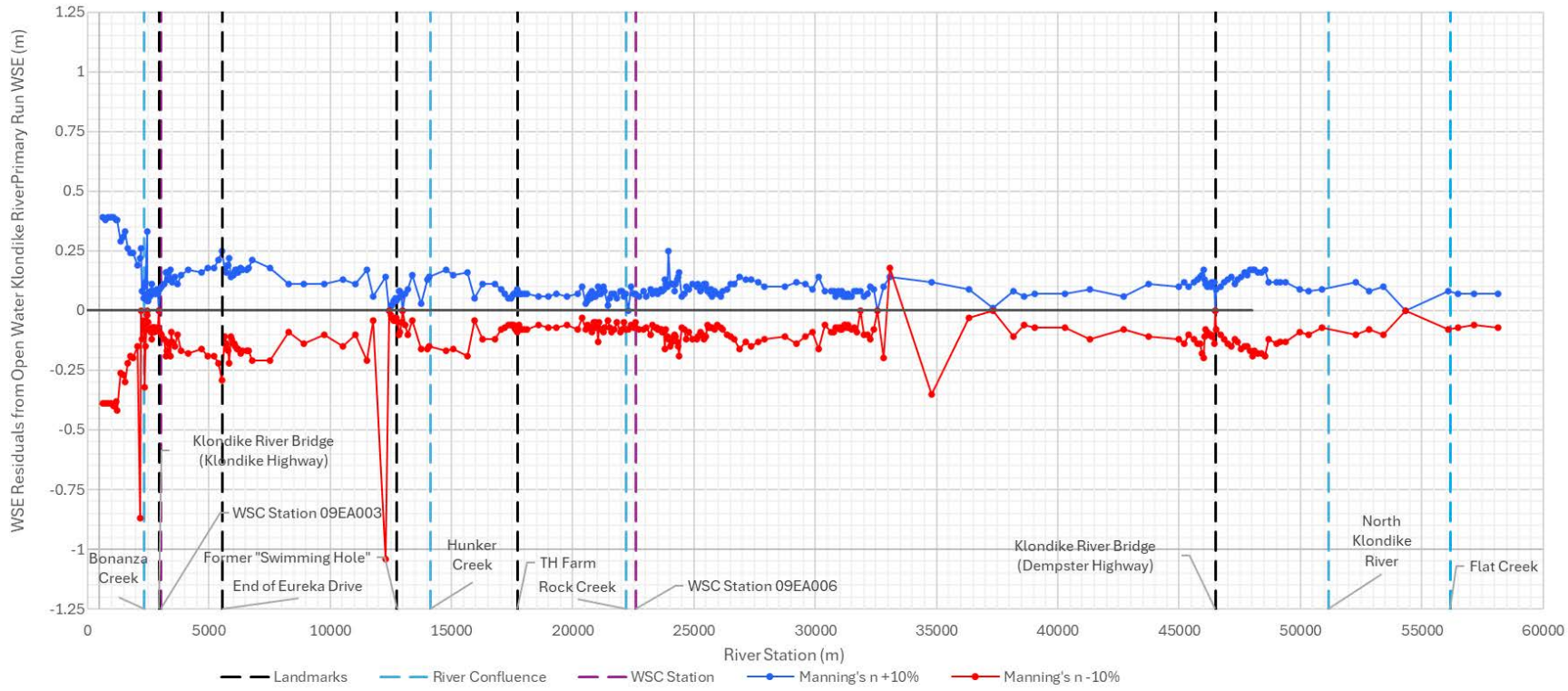

Figure 8-27 Klondike River Open Water Sensitivity Analysis for Open Water 0.5% AEP – Mannings n

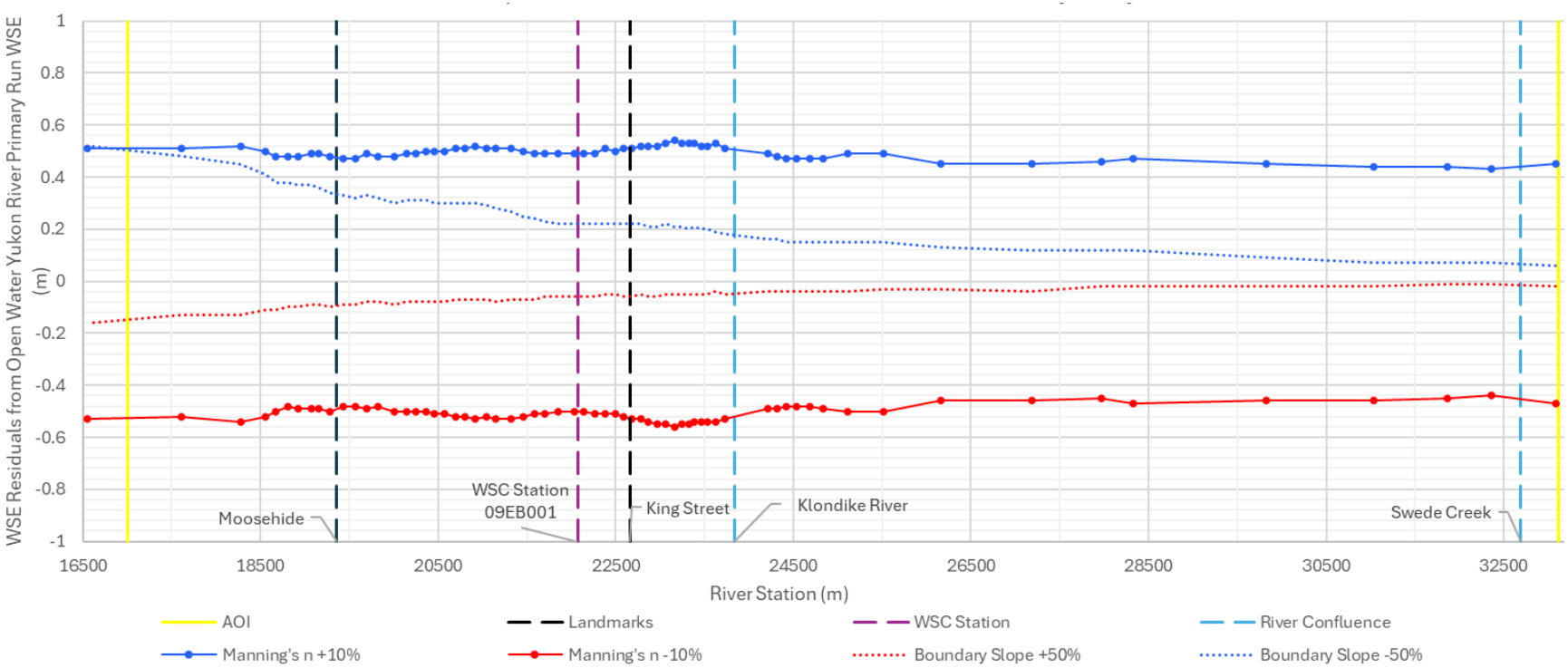

Figure 8-28 Yukon River Open Water Sensitivity Analysis for Open Water 0.5% AEP – Mannings n and Downstream Boundary Condition Slope

8.4 Breakup Ice Jam Modelling

There are notable uncertainties in modelling breakup ice jams which are important to acknowledge in this Project. Breakup ice jam modelling requires ice roughness under ice cover and during ice jams which can spatially vary during an event, and also temporally variable between events. Further, discharge during ice jam events is hard to obtain as river conditions are often dangerous and backwater effects render open water rating curves inaccurate (Gerard et al. 1992). An example of how these uncertainties were applied in practice is presented in Gerard et al. (1992) to understand the conditions which could result in the dike being overtopped, they varied both flow and roughness across multiple scenarios to obtain ranges of flows which might overtop the dike.

The Project's breakup ice jam model was developed with an understanding of the uncertainties inherent to ice jam modelling and was calibrated and validated using the available information from observed ice jam events.

8.4.1 Klondike River

8.4.1.1 Boundary Conditions

The upstream boundary condition for the Klondike River ice jam hydraulic model runs was the discharge specified for the run. The downstream boundary condition for the Klondike River ice jam hydraulic model runs was the modelled WSE of the Yukon River under ice covered conditions at the junction (Yukon River station 23+787), using the paired flow rate in the Yukon River for the Klondike River events (as discussed in Section 4.2.1). An ice cover of 0.4 m for the Klondike River and 1.25 m for the Yukon River during the Klondike River breakup period is considered a reasonable average based on ice thickness observations detailed in Section 2.2.3.2. An ice cover roughness of 0.02 was used for the Yukon River across the Klondike River ice jam runs based on the Yukon River ice cover calibration, as presented in Section 8.4.2.2. Ice covered conditions on the Yukon River during Klondike River breakup ice jam runs was considered reasonable for modelling purposes given that the Klondike River typically breaks up one to two weeks before the Yukon River.

8.4.1.2 Model Calibration

In May of 2023 the Klondike River had several documented ice jams at multiple locations. The data collected from the May 8–12, 2023 ice jam events detailed in Section 2.2 and Section 7.5.4 were used for calibration of breakup ice jams on the Klondike River. Specifically, the jams at Rock Creek and Henderson's Corner were used as calibration events while the jam at the TH Farm was used to validate breakup ice jam conditions at these locations (Section 8.4.1.3). The ice jam calibration considered the bed roughness values from the open water calibration (Section 8.3.2.2).

8.4.1.2.1 2023 Rock Creek Breakup Ice Jam

In May of 2023 a breakup ice jam formed downstream of the Rock Creek confluence on the Klondike River. Based on the detailed survey of the 2023 Rock Creek ice jam event documented in Section 7.5.4.1,the model calibration run considered the following jam configuration:

a) Toe of jam at cross-section 20+600 and head of jam at cross-section 22+584.

b) The available photographs and accounts of the 2023 Rock Creek ice jam event (e.g., Photograph 44 to Photograph 48 in Appendix A) demonstrate that jamming occurred in the main channel of the river and that there was little (if any) ice present in the overbank. Therefore, for the cross-sections between the toe and the head of the jam, the model considered ice jamming in the main channel and no ice cover in the overbank.

c) Ice-free conditions upstream of cross-section 22+584.

d) Ice cover (thickness of 0.4 m in main channel and no ice in the overbank) downstream of the jam toe, from cross-section 17+600 to 20+600.

e) Ice free conditions downstream of Klondike River station 17+600.

Other ice jam parameters used in the ice jam model runs are based on typical values, consistent with guidance from USACE (2023) and Beltaos et al. (2013):

- Ice Cover Specific Gravity: 0.916
- Internal Friction Angle: 45 degrees
- Ice Jam Porosity (fraction water filled): 0.4
- Coefficient K1 (lateral to longitude stress in jam): 0.33
- Maximum Mean Velocity (under ice cover): 4 m/s (adjusted default 1.524 m/s to promote jam stability)

Based on the timing of the 2023 Rock Creek ice jam event documented in Section 7.5.4.1, the calibration model run considered the following flow rates:

a) Klondike River flow rate of 380 m^3/s below the Rock Creek confluence and 355 m^3/s upstream of the Rock Creek confluence.

b) Yukon River flow rate of 3279 m^3/s under ice cover was assigned based on the recorded flow rate on May 8, 2023 at WSC Station 09EB001.

The calibrated ice jam parameters were the ice jam roughness in the main channel. The ice jam roughness was calibrated to be 0.07 in the main channel. The intact ice cover downstream of the jam used the roughness calibrated on the Yukon River of 0.02 (Section 8.4.2.2), as data were not available to independently calibrate the intact ice cover roughness (winter ice cover conditions) on the Klondike River.

Figure 8-29 illustrates the simulated event resulting depths (blue) with the surveyed HWM locations (orange diamonds) and jam extent (orange hatched polygon). The inundation extents in Figure 8-29 can be visually compared to Photograph 44 to Photograph 48 in Appendix A. The resulting WSE differential and summary statistics in Table 8-10 and Table 8-11 consider the definitions of WSE differential and RMSE outlined in Equation 5 and Equation 6, where N is the number of surveyed WSEs (8 for the 2023 Rock Creek ice jam). Calibration statistics for the final calibration run WSEs are presented both as absolute values (in m) and as percentage of the average maximum flow depth across the cross-sections in the calibration run (2.88 m). The WSEs of the final calibration are illustrated in Figure 8-30. The R^2 and trendline slope are both near 1, indicating strong correlation.

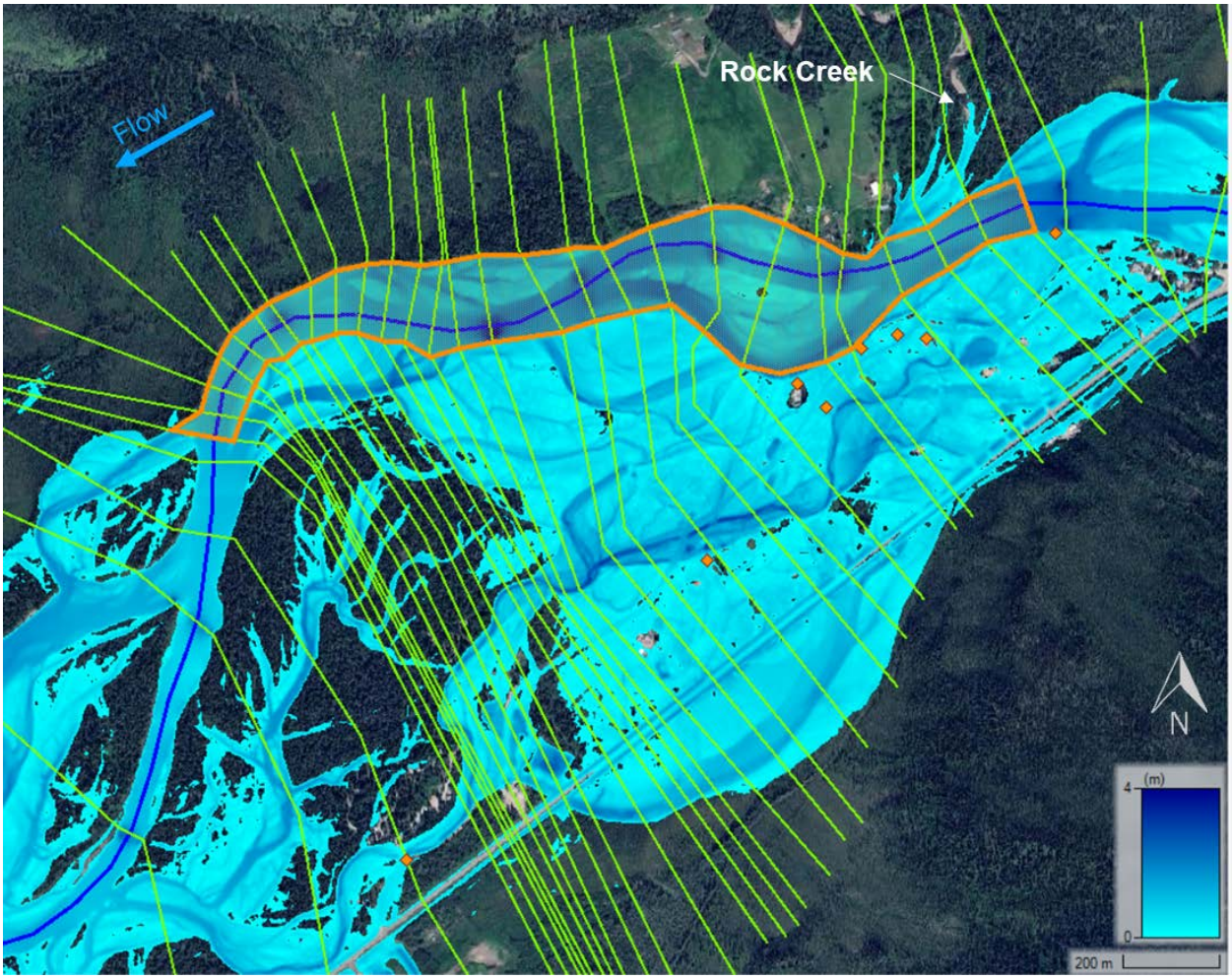

Figure 8-29 2023 Rock Creek Breakup Ice Jam Hydraulic Model Calibration Plan

Table 8-10 2023 Rock Creek Breakup Ice Jam Calibration WSE Results

Point Description	River Station (m)	Survey Elevation (m)	Modelled Elevation (m)	WSE Differential (m)	WSE Differential (% of Average Thalweg Depth)
HWM_KR_20223_RC_IJ-01	20+400	369.06	369.01	+0.05	+1.73%
HWM_KR_20223_RC_IJ-02	21+576	373.03	373.17	-0.14	-4.86%
HWM_KR_20223_RC_IJ-03	21+994	374.13	374.4	-0.27	-9.37%
HWM_KR_20223_RC_IJ-04	22+000	374.28	374.26	+0.02	+0.69%
HWM_KR_20223_RC_IJ-05	22+113	374.72	374.83	-0.11	-3.82%
HWM_KR_20223_RC_IJ-06	22+145	375.13	374.92	+0.21	+7.28%
HWM_KR_20223_RC_IJ-07	22+182	375.06	374.97	+0.09	+3.12%
HWM_KR_20223_RC_IJ-08	22+533	376.03	376.10	-0.07	-2.43%

Table 8-11 2023 Rock Creek Breakup Ice Jam Calibration Summary Statistics

	Value	WSE Differential (% of Average Thalweg Depth)
Average WSE Differential	-0.03 m	-1.04%
Minimum WSE Differential	-0.27 m	-9.37%
Maximum WSE Differential	+0.21 m	+7.28%
RMSE	+0.14 m	+4.86%
R^2	0.995	Not Applicable

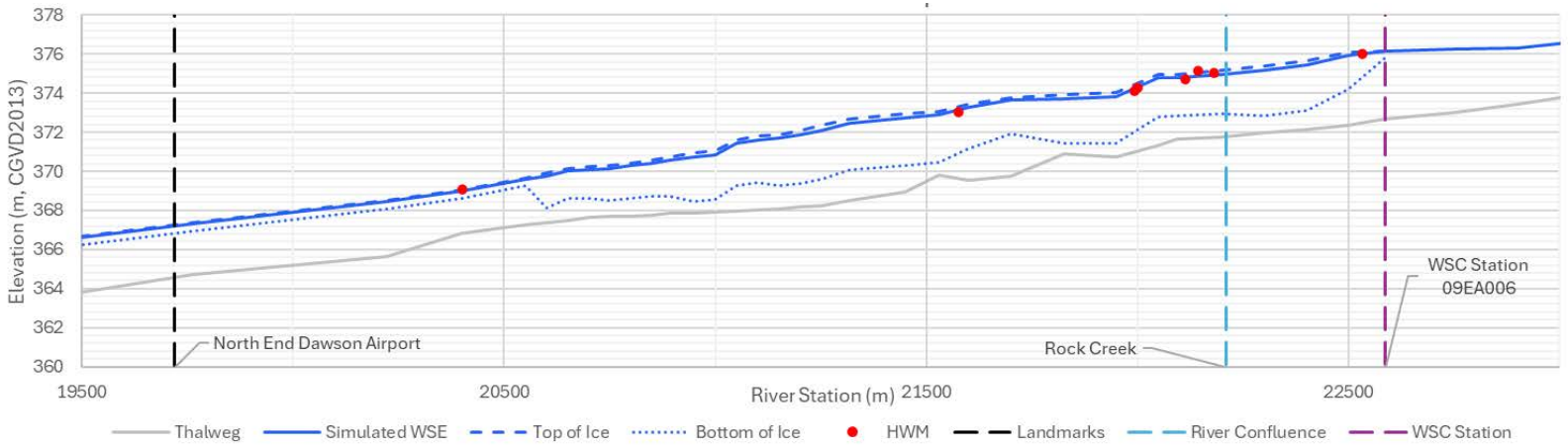

Figure 8-30 2023 Rock Creek Breakup Ice Jam Calibration (May 8, 2023 Event)

8.4.1.2.2 2023 Henderson's Corner Breakup Ice Jam

In May of 2023 a breakup ice jam formed at the Henderson's Corner Subdivision on the Klondike River. Based on the detailed survey of the 2023 Henderson's Corner ice jam event documented in Section 7.5.4.2, the calibration model run considered the following jam configuration:

a) Toe of jam at cross-section 25+700 and head of jam at cross-section 26+869.

b) The available photographs and accounts of the 2023 Henderson's Corner ice jam event (e.g., Photograph 49 to Photograph 51 in Appendix A) demonstrate that jamming occurred in the main channel of the Klondike River. Therefore, the model considered breakup jams in the main channel.

c) The available photographs (Photograph 49 to Photograph 51 in Appendix A) also indicate that there was ice present in the notable side channel on river left, which is different from the 2023 Rock Creek ice jam (which did not have a notable side channel with ice in it). This ice in the side channel would contribute increased roughness to flow outside of the main channel jamming area. Ice jam modelling in HEC-RAS allows users to identify ice conditions in only two zones: main channel, and overbank (which includes side channels). The options for ice conditions in those two zones are i) ice jam, ii) ice cover, and iii) no ice. To capture increased roughness from presence of ice in the overbank (side channel) at the 2023 Henderson's Corner jam, the model adopted ice cover conditions in the overbank zone, with a thickness of 0.4 m.

d) Ice-free conditions upstream of cross-section 26+869.

e) Ice cover in the main channel from cross-section 24+950 to 25+700 with a thickness of 0.4 m.

f) At cross section 26+363 the main channel splits around a large island. At this location jamming in the overbank was allowed.

Other ice jam parameters used for the ice jam model runs are based on typical values in alignment with USACE (2023) and Beltaos et al. (2013):

- Ice Cover Specific Gravity: 0.916
- Internal Friction Angle: 45 degrees
- Ice Jam Porosity (fraction water filled): 0.4
- Coefficient K1 (lateral to longitude stress in jam): 0.33
- Maximum Mean Velocity (under ice cover): 4 m/s (adjusted default 1.524 m/s to promote jam stability)

Based on the timing of the 2023 Henderson's Corner ice jam event documented in Section 7.5.4.2, the calibration model run considered the following flow rates:

a) Klondike River flow of 362 m^3/s at the Henderson's Corner jam location.

b) Yukon River flow of 3,683 m^3/s under ice cover was assigned based on reported discharge on May 10, 2023 from WSC Station 09EB001.

The calibrated ice jam parameters were the ice jam roughness and the ice cover roughness in the main channel and in the overbank. The ice jam roughness was calibrated to be 0.07 in the main channel. The intact ice cover downstream of the jam used the roughness calibrated on the Yukon River of 0.02 (Section 8.4.2.2), as data were not available to independently calibrate the intact ice cover roughness (winter ice cover conditions) on the Klondike River.

Figure 8-31 illustrates the simulated event resulting depths (blue) with the captured HWMs (orange diamonds) and jam extent (orange hatched polygon). The inundation extents in Figure 8-31 can be visually compared to Photograph 49 to Photograph 51 in Appendix A for areas north of the highway. Areas south of the highway required alternative mapping approaches that are discussed in Section 8.5 and are not reflected in Figure 8-31. The resulting WSE differential and summary statistics in Table 8-12 and Table 8-13 consider the definitions of WSE differential and RMSE outlined Equation 5 and Equation 6, where N is the number of surveyed WSEs (4 for the 2023 Henderson's Corner ice jam). Calibration statistics for the final calibration run WSEs are presented both as absolute values (in m) and as percentage of the average maximum flow depth across all cross-sections in the calibration run (2.89 m). The WSEs of the final calibration are illustrated in Figure 8-32. The R^2 and trendline slope are both near 1, indicating strong correlation.

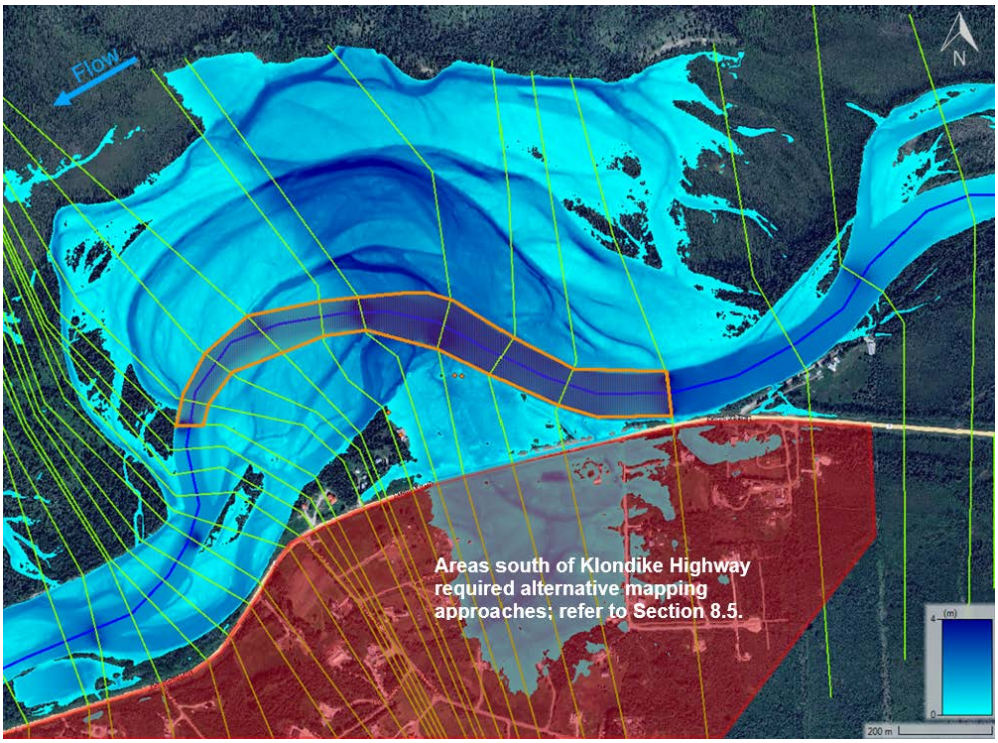

Figure 8-31 2023 Henderson's Corner Breakup Ice Jam Hydraulic Model Calibration Plan

Table 8-12 2023 Henderson's Corner Breakup Ice Jam Calibration WSE Results

Point Description	River Station (m)	Survey Elevation (m)	Modelled Elevation (m)	WSE Differential (m)	WSE Differential (% of Average Thalweg Depth)
HWM_KR_2023_HC_IJ-01	26+151	387.13	387.03	+0.10 m	+3.46%
HWM_KR_2023_HC_IJ-02	26+107	386.02	385.97	+0.04 m	+1.38%
HWM_KR_2023_HC_IJ-03	26+387	387.68	387.85	-0.17 m	-5.89%
HWM_KR_2023_HC_IJ-04	26+399	387.86	387.87	-0.01 m	-0.35%

Table 8-13 2023 Henderson's Corner Breakup Ice Jam Calibration Summary Statistics

	Value	WSE Differential (% of Average Thalweg Depth)
Average WSE Differential	-0.05 m	-1.73%
Minimum WSE Differential	-0.17 m	-5.89%
Maximum WSE Differential	+0.10 m	+3.46%
RMSE	+0.10 m	+3.46%
R^2	0.988	Not Applicable

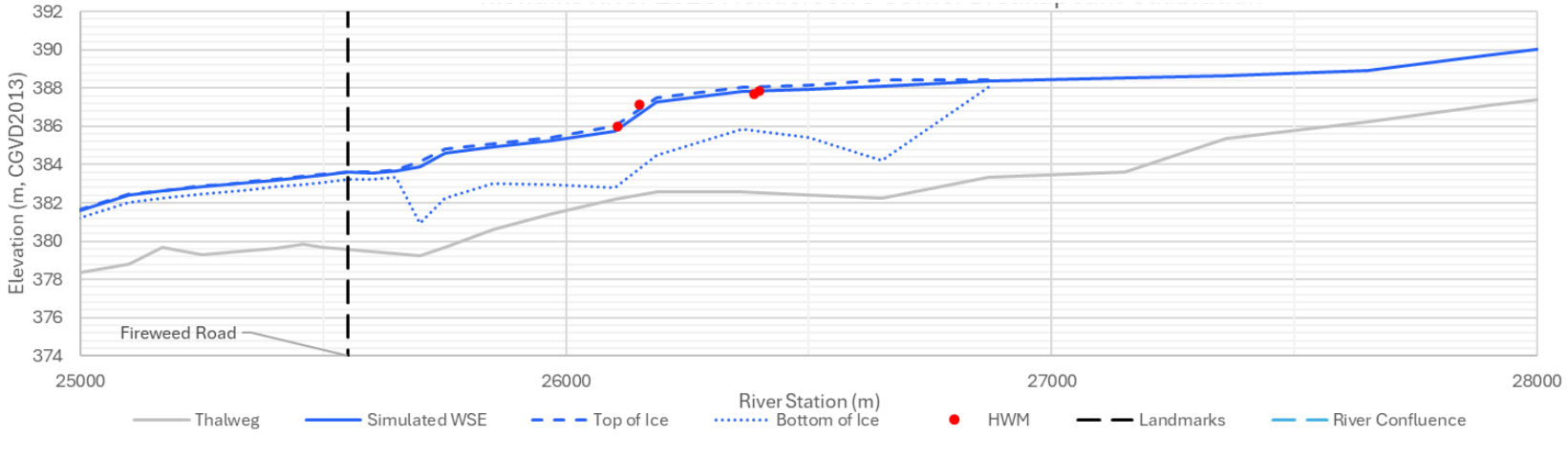

Figure 8-32 2023 Henderson's Corner Breakup Ice Jam Calibration (May 10, 2023 Event)

8.4.1.2.3 Selected Ice Jam Parameters

The calibration simulations for both the 2023 Rock Creek Jam and the 2023 Henderson's Corner jam demonstrated strong alignment with the observed HWMs. The calibration simulations illustrated that adjustments to the overbank parameter selection were required to capture the complex hydraulic characteristics of the Klondike River during ice jams. This section describes the methods used to determine where select parameter adjustments were required to accurately model jam events in the 1D modelling environment and how those adjustments were applied.

One of the limitations of 1D hydraulic modelling on multichannel streams is that the allotment of discharge in each channel is not maintained between cross sections. Under open water conditions this limitation can be mitigated through careful selection of cross section locations. In ice jam modelling however when one of the channels is blocked with an ice jam additional measures are required to limit the impact of discharge to select the channel of least resistance independent of direct connection.

Ice jam modelling is sensitive to bank station location and channel width because the width of the channel is used to determine the jam thickness. The LiDAR surface and historic ice jam photographs were analysed in detail cross section by cross section to define the channel width at each jam location. Only one channel could be included within the bank stations, therefore, where multiple channels are present only the jammed channel was within the bank stations. By necessity secondary channels were classified as part of the overbank.

The river and overbank geometry, flow paths during open water conditions and historic jam photography at each of the jam location were examined to determine the level of complexity in flow paths. Where no significant side channel was identified, no change to overbank ice parameters was required. Rock Creek jam is an example of that type of channel geometry and most of the jam locations fall into that category (Category 1). Figure 8-33 illustrates the topographic features for a jam location without significant side channels. This Category 1 Klondike River jams did not require a change to the ice jam parameters determined through the Rock Creek ice jam calibration. Ice jam locations where significant side channels were present were examined in further detail to establish appropriate adjustment to the overbank jam parameters to mitigate the impact of those channels.

Ice jam locations with significant side channels were identified as Category 2. Henderson's Corner jam is an example of a jam location with a significant side channel. It was not possible to recreate HWMs captured during the event without mitigating the impact of the side channel. During the calibration process several options were examined to determine appropriate mitigation options for limiting the side channel capacity to simulate the observed jam from 2023. Adjustments of banks station locations, implementation of ineffective flow areas and side channel obstructions and overbank parameter adjustments were evaluated for effectiveness in simulating the observed 2023 ice jam event. Selective overbank parameter adjustment was determined to be the most effective approach at recreating that ice jam event. Overbank ice cover was implemented at the cross sections within the jam reach and ice jamming in the overbank was allowed at the cross section located at the entrance to the side channel (Category 2B). Section 8.4.1.2.2 presents the results of the Henderson's Corner 2023 ice jam calibration using this approach.

Category 2 ice jam locations were subdivided onto Category 2A and Category 2B based on the relative location of the entrance to the side channel.

Category 2A identified locations where the entrance to the side channel is upstream of the jam reach. Overbank ice cover was implemented at the cross sections within the jam reach to limit the side channel flows when the main channel is obstructed by the jam. The TH Farm ice jam location at is an example of the channel geometry which required this approach (Figure 8-33). The selection of the parameters based on this categorization were validated against areal imagers of the 2023 ice jam flood event at TH Farm (Section 8.3.2.3).

Category 2B identified locations where the entrance to the side channel is within the modelled jam reach, like Henderson's Corner; jamming was allowed in both the channel and the overbank at the cross section where the side channel splits from the main channel. The Henderson's Corner ice jam location is an example of the channel geometry which required this approach (Figure 8-33).

In summary, calibration of ice jams in multiple locations indicated that specific morphologic features require slight adjustments to the application of ice to recreate the observed events. Based on the presence and locations of side channels ice jam locations can be represented by 3 categories: Category 1, Category 2A, and Category 2B. A summary applicability of each category and the identified modelling requirements is provided below.

Category 1

- Applicable to jams which occur in locations without notable side channels
- Jamming in main channel zones
- Ice cover (thickness = 0.4 m) in the main channel for approximately 200 – 300 m downstream of the jam toe
- No ice in overbank zones

Category 2A

- Applicable to jams which occur in locations with notable side channels, with the side channels splitting from the main channel upstream of the jam extents
- Adopted jam characteristics:
  - Jamming in main channel zones
  - Ice cover in the main channel for approximately 200 – 300 m downstream of the jam toe
  - Ice cover in overbank zones adjacent to main channel jamming

Category 2B

- Applicable to jams which occur in locations with notable side channels, with the side channels splitting from the main channel within the extents of the jam
- Adopted jam characteristics:
  - Jamming in main channel zones
  - Ice cover in the main channel for approximately 200 – 300 m downstream of the jam toe
  - Ice cover in overbank zones adjacent to main channel jamming
  - Ice jamming in the overbank zones at entrance to the side channel (where it splits from the main channel)

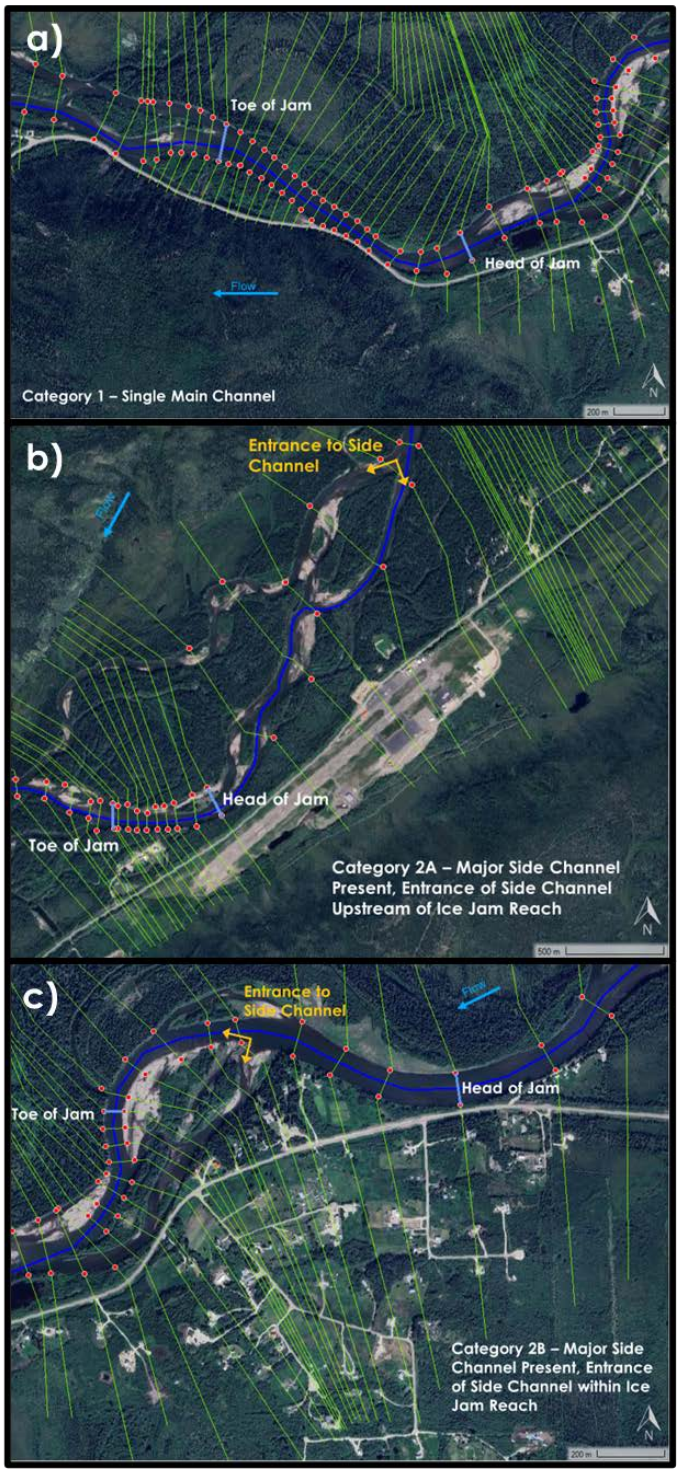

Figure 8-33 Examples of Klondike River Morphologies and Corresponding Ice Jam Categorizations: a) Category 1, b) Category 2A, and c) Category 2B

Table 8-14 details the modelling parameters as defined in the HEC-RAS modelling software and values which were adopted for each of the ice jam categories. Categorization of each of the ice jams considered in validation and AEP runs is detailed in Section 8.4.1.3 and Section 8.4.1.1.

Table 8-14 Selected HEC-RAS Ice Jam Parameters for Klondike River

	Downstream Intact Ice Cover	Downstream Intact Ice Cover	Ice Jam Category 1	Ice Jam Category 2A/2B	Ice Jam Category 2B (Select Cross Section)
Description of Overall Conditions	With Overbank Ice	Without Overbank Ice	Without Overbank Ice	With Overbank Ice	With Overbank Jam
Left Overbank (LOB) ice Thickness (m)	0.4	0	0	0.4	0.4
Channel ice Thickness (m)	0.4	0.4	0.4	0.4	0.4
Right Overbank (ROB) ice Thickness (m)	0.4	0	0	0.4	0.4
LOB ice Mann n	0.02	0.02	0.07	0.07	0.07
Channel ice Mannings n	0.02	0.02	0.07	0.07	0.07
ROB ice Mannings n	0.02	0.02	0.07	0.07	0.07
Ice Specific Gravity	0.916	0.916	0.916	0.916	0.916
Ice Jam Chan (y/n)	n	n	y	y	y
Ice Jam Overbank (y/n)	n	n	n	n	y
Friction Angle	45	45	45	45	45
Porosity	0	0	0.4	0.4	0.4
Stress K1 ratio	0.33	0.33	0.33	0.33	0.33
Max Velocity (m/s)	1.524	1.524	4	4	4
Ice Cohesion	0	0	0	0	0
Fixed Mannings n (y/n)	y	y	y	y	y

Under ice velocity is a key indicator of ice jam stability and spikes in under ice velocities in modelling results can indicate unrealistic jam parameter selection or other modelling issues. The parameter “maximum under ice velocity” is used to limit the iterative calculation of jam thickness. If the selected maximum under ice velocity is too low, the jam can be artificially thinned in the model. A maximum under ice velocity of 4 m/s was selected for the Klondike River ice jam scenarios. The resulting under ice jam velocity for the calibration simulations was generally less than 1.5 m/s with peak values occurring under the toe. Maximum velocities approaching 3 m/s occurred for a single cross section and velocities above 1.5 m/s occurred at up to 4 cross sections under the toe. This is an indication of a stable ice jam simulation and that the selected maximum value of 4 m/s does not artificially thin the resulting ice jam. For the purposes of this Project this was assumed to be reasonable; however, under ice velocity thresholds are complex. Future river ice research may help refine the assumption of equilibrium jam thresholds.

8.4.1.3 Model Validation

During the 2023 breakup period multiple jams occurred on the Klondike River providing an opportunity to validate the ice jam parameters from calibration.

The 2023 TH Farm ice jam occurred on May 12, 2023 and was used as a validation scenario. The ice jam validation run used the Mannings n values determined in the calibration of the 2023 Rock Creek and 2023 Henderson's Corner ice jams. The morphology of the Klondike River at the location of the 2023 TH Farm jam aligned with Category 2A. That is, presence of a notable side channel which splits from the main channel upstream of the jam extents.

Therefore, the 2023 TH Farm ice jam validation run considered the following jam configuration:

a) Toe of jam at cross-section 17+574 and head of jam at cross-section 18+123. For the cross-sections between the toe and the head of the jam the model considered breakup jams in the main channel and ice cover (no jam) in the overbank with a thickness of 0.4 m (based on a jam category of 2A). Overbank ice cover (and not jamming) was considered reasonable for this section of the Klondike River given the floodplain conveyance (which may include ice) that has been observed during jam events.

b) Ice-free conditions upstream of cross-section 18+123

c) Ice cover (thickness of 0.4 m in main channel and overbank) from cross-section 17+350 to 18+123.

Based on the timing of the 2023 TH Farm ice jam event (May 12, 2023), the validation model run considered the following flow rates:

a) Klondike River flow of 504 m^3/s at the TH Farm ice jam location.

b) Yukon River flow of 5655 m^3/s under ice cover was assigned based on reported discharge on May 12, 2023 from WSC Station 09EB001.

Figure 8-34 presents a side-by-side comparison of the resulting simulated inundation extent and the photographed inundation extent during the ice jam event. Visual validation is applied for the TH Farm validation run because HWMs were not directly surveyed. The simulation results show a similar area being inundated as the photograph, which indicates the ice jam parameters selected (based on the Category A ice jam characteristics) are appropriate for modelling at the TH Farm.

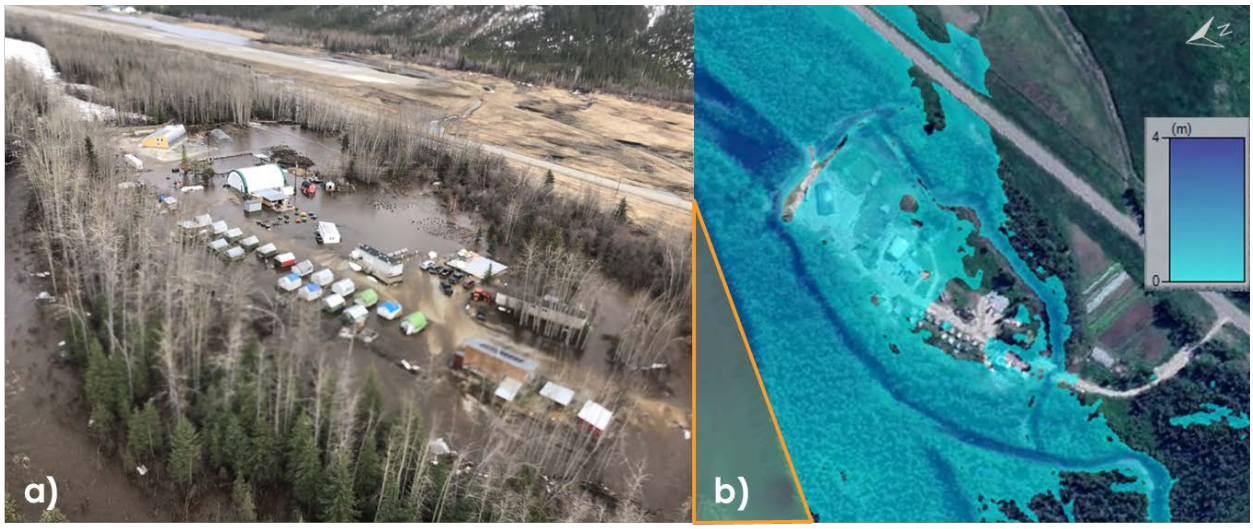

Figure 8-34 Klondike River TH Farm Breakup Ice Jam Validation – Inundation Area Comparison (May 8- 12, 2023 Event) a) Areal Imagery Captured May 12, 2023 by YG b) Simulated Validation Results (ice jam location indicated in orange)

8.4.1.1 AEP Event Simulation

Ice jams on the Klondike River are a regular occurrence. Jams often form on the Klondike River and release to form new jams downstream (Turcotte 2024a). Though ice jams can form anywhere on the Klondike River, 11 dominant ice jam locations were selected for modelling where ice jams are consistently observed to cause notable flooding, as outlined in Section 2.2.3.3.

Jam locations and lengths were based on historically observed jams at each location and review of the topographic and bathymetric features at each high-risk location. Jam severity (length and thickness) is highly variable and is affected by both ice availability and the velocity threshold at which the ice jam dislodges. These are both a factor of temperature sequence, hydrology and river morphology. Ice availability on the Klondike River was not considered to be a limiting factor (Section 8.4.1.2). Therefore, velocity threshold was the one unknown model parameter when considering jam severity. No reliable estimate for velocity threshold on the Klondike River exists and Klondike River ice jams have remained in place at remarkably high flows in the past, as documented recently for the 2023 floods by Turcotte (2023). Therefore, jams were assumed to hold at AEP discharges.

As outlined in Section 8.4.1.2.3, slightly different jam characteristics should be adopted depending on the morphology present at a given jam location. Table 8-15 summarizes the categorization of each of the 11 jam locations considered in the AEP runs.

General characteristics for all AEP jam scenarios are summarized below.

- Ice jam head location approximately 549 – 1,900 m upstream of the toe.
- Open water conditions upstream of the ice jam head location.

- Ice cover for two cross-sections (200 – 300 m) downstream of the toe (considered reasonable representation of transition from jam to downstream open water).
- No ice conditions downstream of the aforementioned ice cover.
- Ice jamming, ice cover, and no ice conditions for main channel and overbank zones according to the ice jam category (categorization summarized in Table 8-15; characteristics and parameter values provided in Section 8.4.1.2.3).

Each of the 11 jams were run in independent simulations. Considering the steep slope of the Klondike River, the jams which would have effects on one another are those which physically overlap (e.g., C4 Jam occurring at the same time as a Klondike Highway Bridge jam), which has not been documented. Figure 8-35 through Figure 8-45 provide the 0.5% AEP ice jam run results at each of the 11 jam locations. Appendix F contains profiles for the AEP design ice jam runs. Results of each of the model runs are provided in tabular format in Appendix F.

The elevation of the low cord of the Klondike River Bridge (Klondike Highway) is 324.95 m. The WSE and ice during a C4 Subdivision Jam under the 1% AEP, 0.5% AEP and 0.5%+LL-CC AEP contact the bridge deck, while the C4 Subdivision Jam under the 5% AEP does not contact the bridge deck. The elevation of the low cord of the Klondike River Bridge (Dempster Highway) is 436.23 m, which is 0.18 m above the top of ice during the Dempster Highway Bridge Jam under the 0.5%+LL-CC AEP event.

Table 8-15 Categorization of Klondike River AEP Ice Jam Locations

Jam	Toe Station (m)	Head Station (m)	Category 1	Category 2A	Category 2B
C4 Subdivison Jam	2+254	3+500	X		
Upstream of Klondike Highway Jam	3+250	4+694	X		
Eureka Drive Jam	5+850	6+650	X		
Swimming Hole Jam	12+600	13+209		X	
TH Farm Jam	17+574	18+123		X	
Rock Creek Jam	20+600	22+500	X		
Slide Area Jam	23+700	24+800	X		
Henderson's Corner Jam	25+700	26+869			X
Km 30-32 Jam	30+950	32+000			X
Dempster Highway Bridge Jam	46+050	47+000	X		
Dempster Highway Corner Jam	48+010	49+175	X		

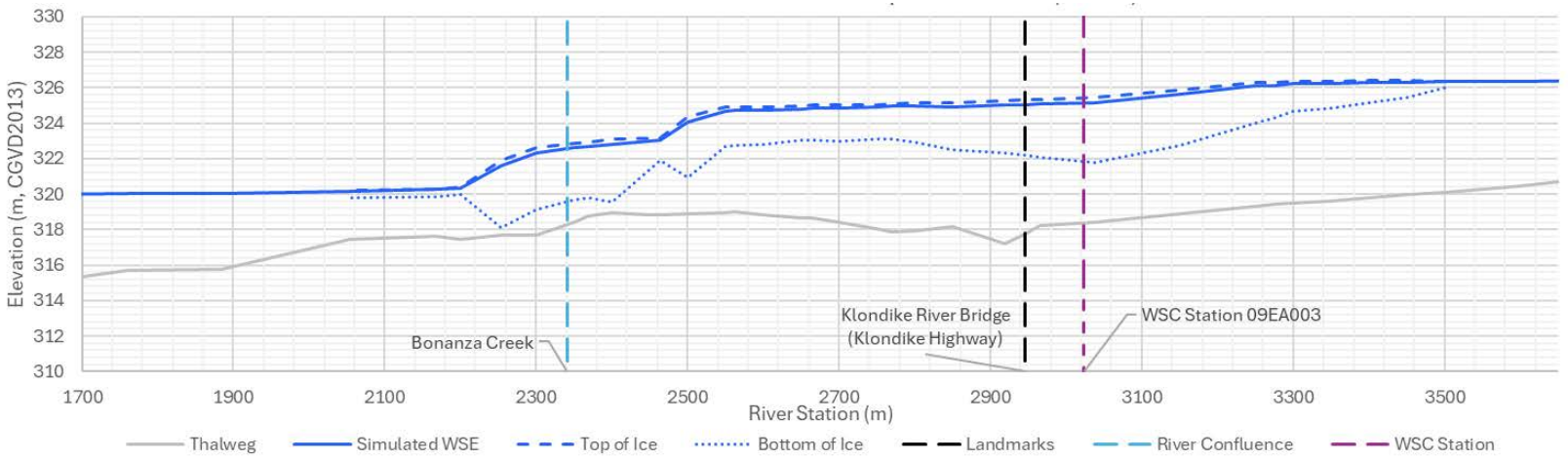

Figure 8-35 Klondike River WSE Profile 0.5% AEP Breakup Ice Jam at C4 (2+254)

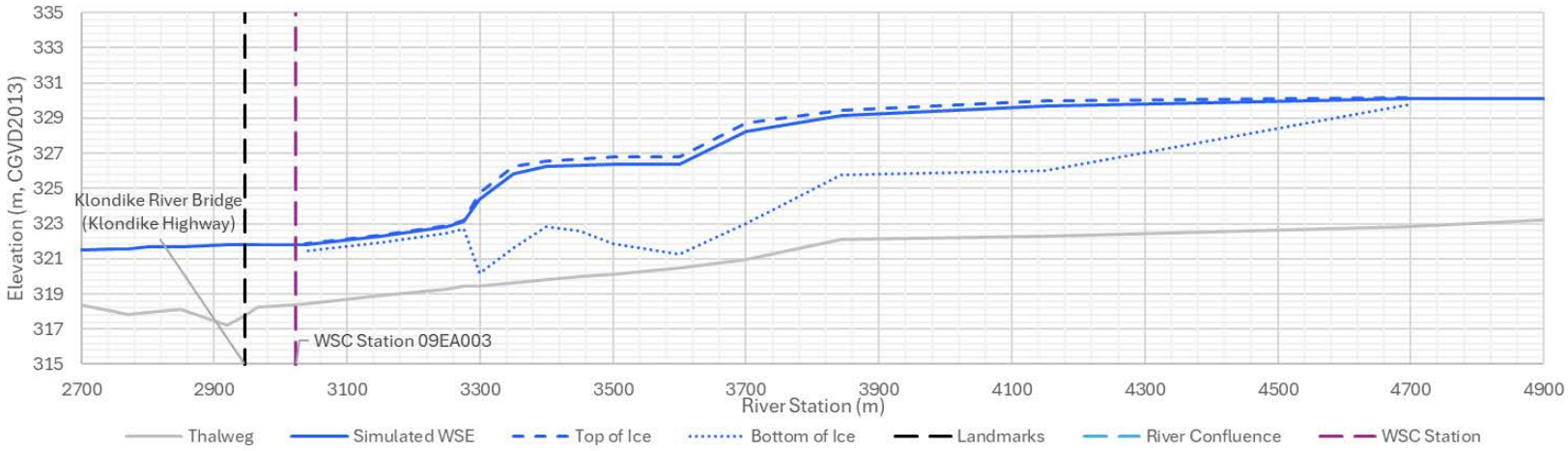

Figure 8-36 Klondike River WSE Profile 0.5% AEP Breakup Ice Jam at Klondike Highway Bridge (3+250)

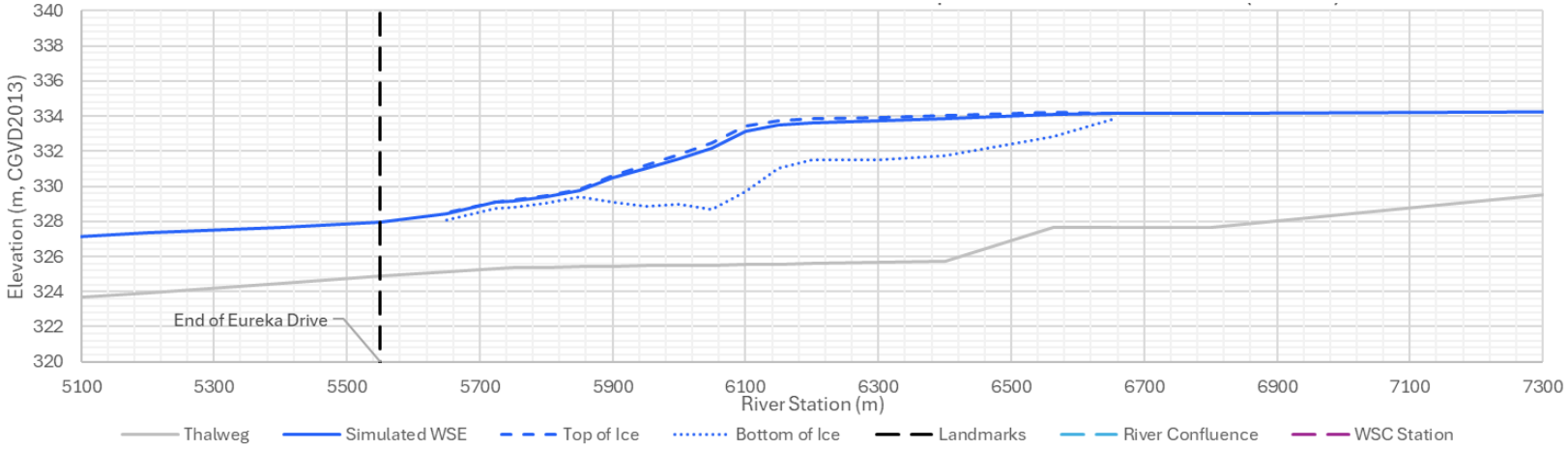

Figure 8-37 Klondike River WSE Profile 0.5% AEP Breakup Ice Jam at Eureka Drive (5+850)

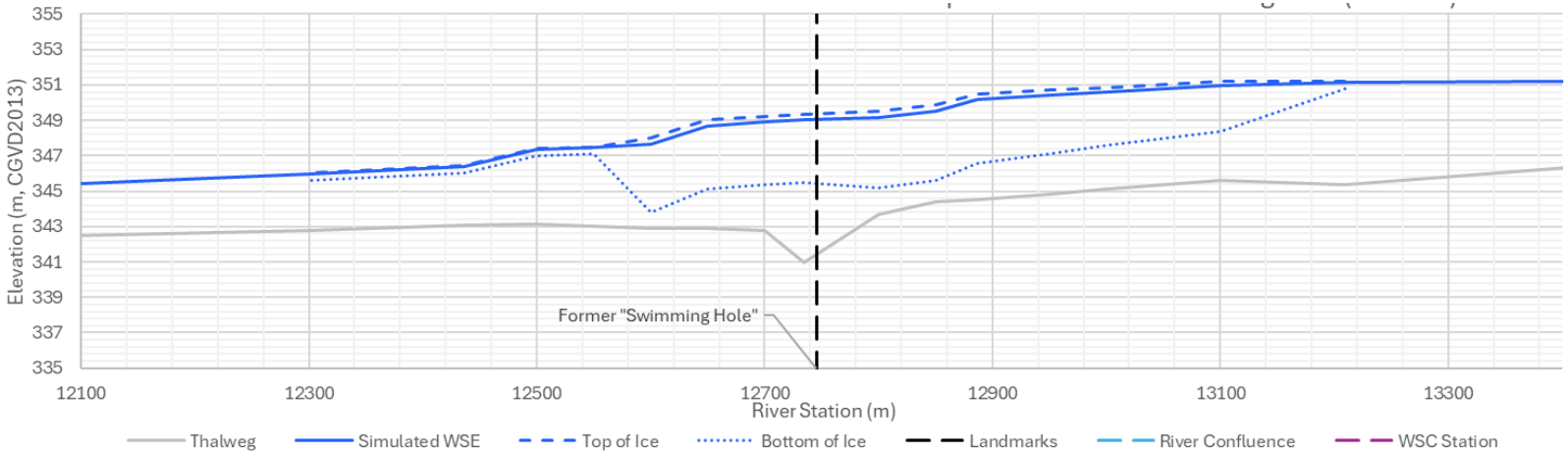

Figure 8-38 Klondike River WSE Profile 0.5% AEP Breakup Ice Jam at The "Swimming Hole" (12+600)

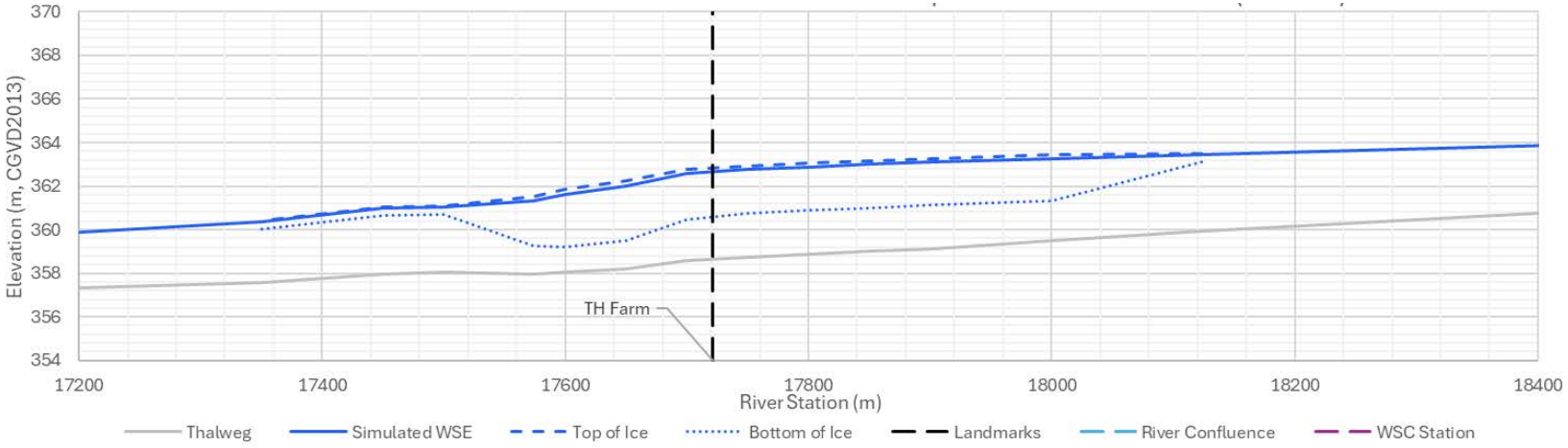

Figure 8-39 Klondike River WSE Profile 0.5% AEP Breakup Ice Jam at The TH Farm (17+574)

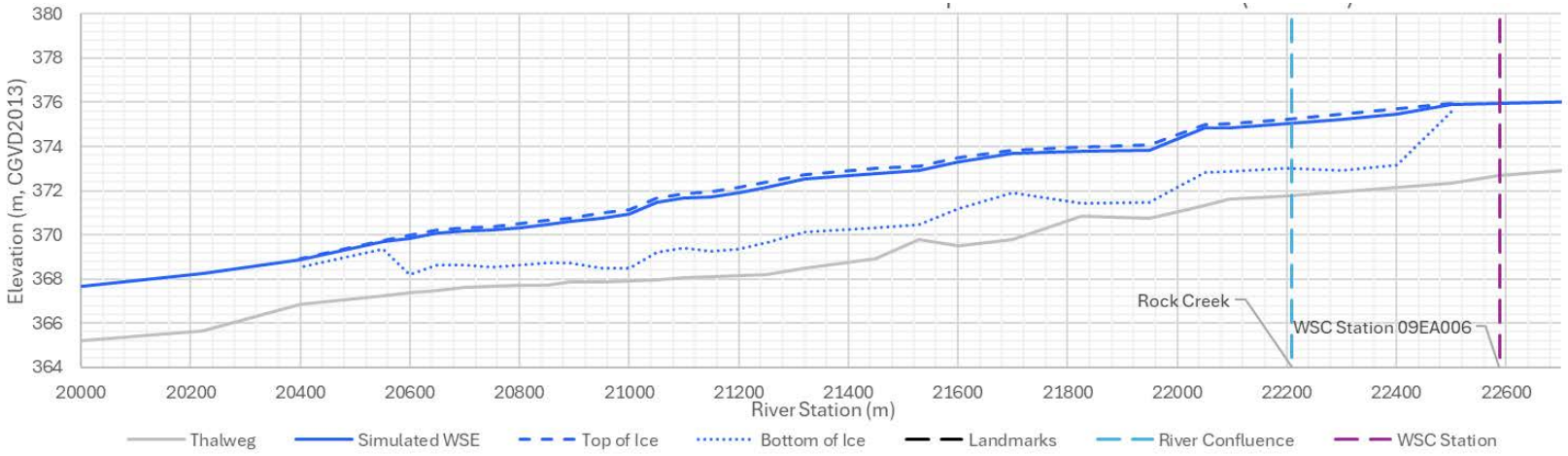

Figure 8-40 Klondike River WSE Profile 0.5% AEP Breakup Ice Jam at Rock Creek (20+600)

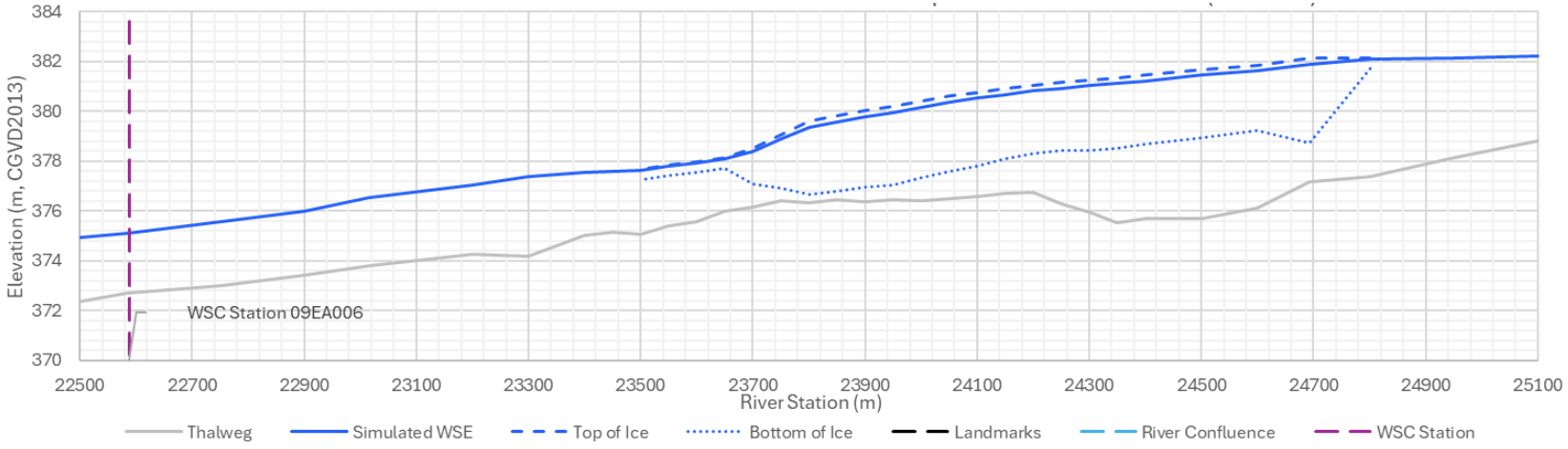

Figure 8-41 Klondike River WSE Profile 0.5% AEP Breakup Ice Jam at Slide Area (23+700)

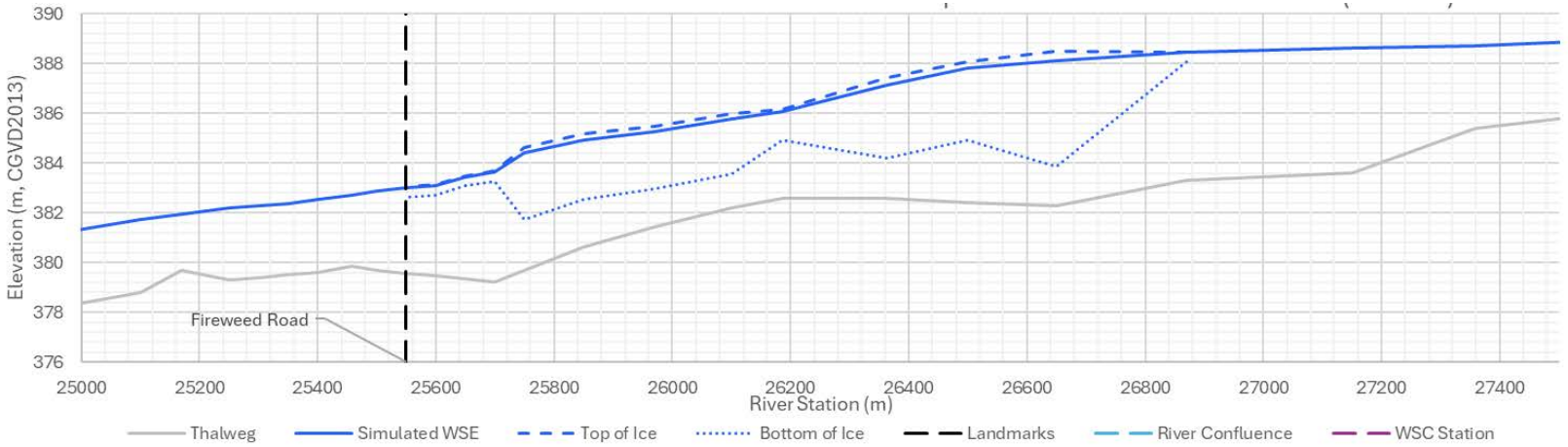

Figure 8-42 Klondike River WSE Profile 0.5% AEP Breakup Ice Jam at Henderson's Corner (25+700)

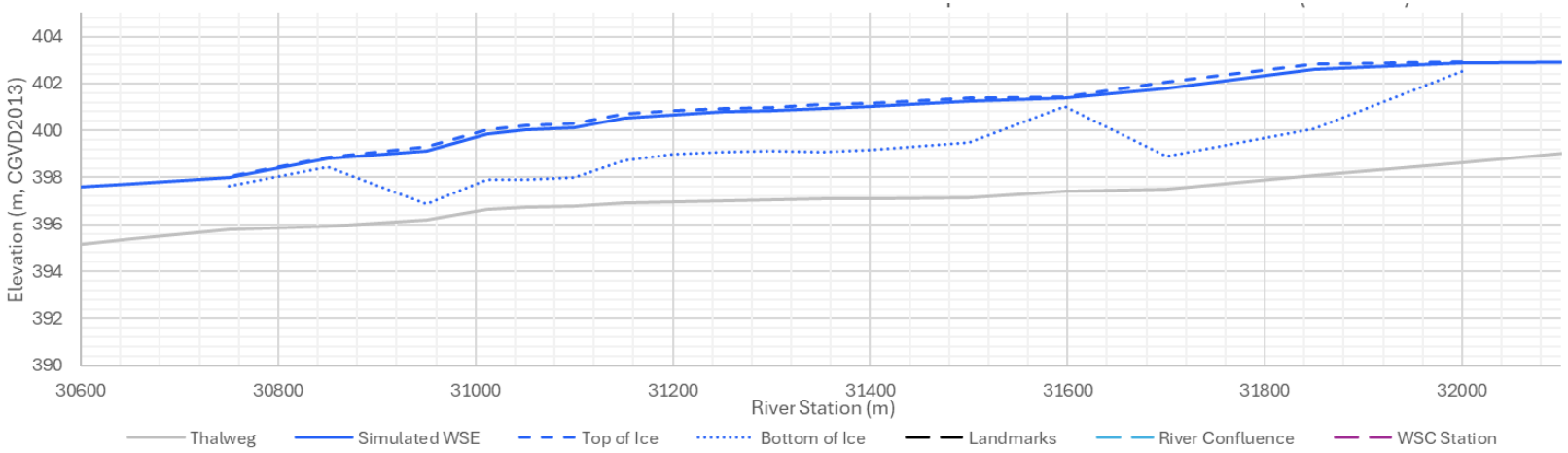

Figure 8-43 Klondike River WSE Profile 0.5% AEP Breakup Ice Jam at Km 30 to 32 (30+950)

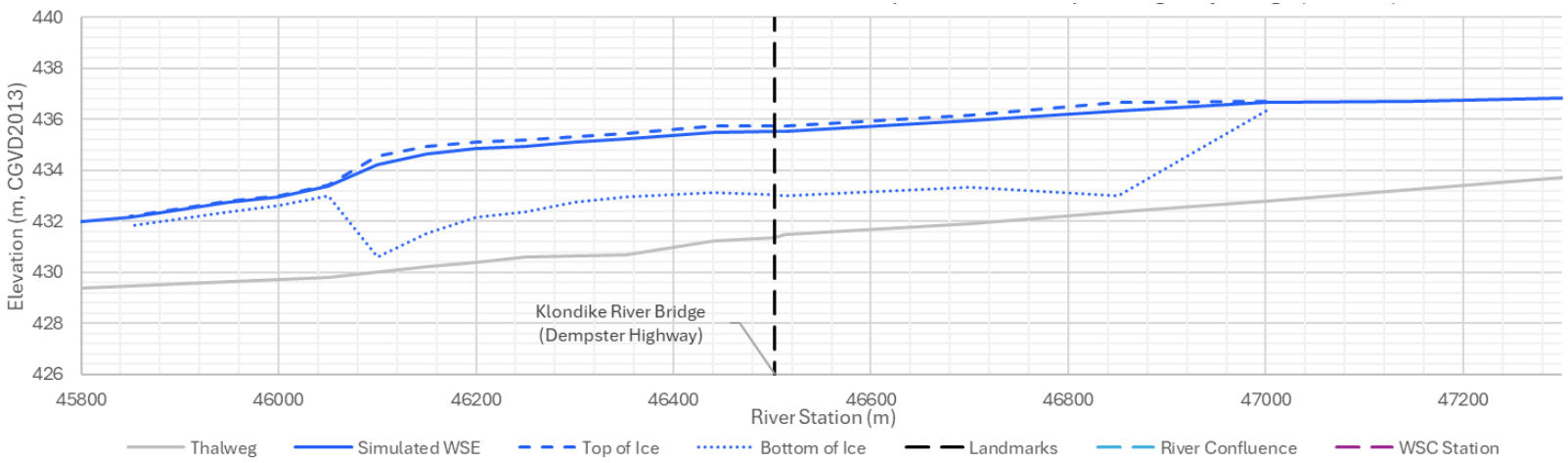

Figure 8-44 Klondike River WSE Profile 0.5% AEP Breakup Ice Jam at Dempster Highway Bridge (46+050)

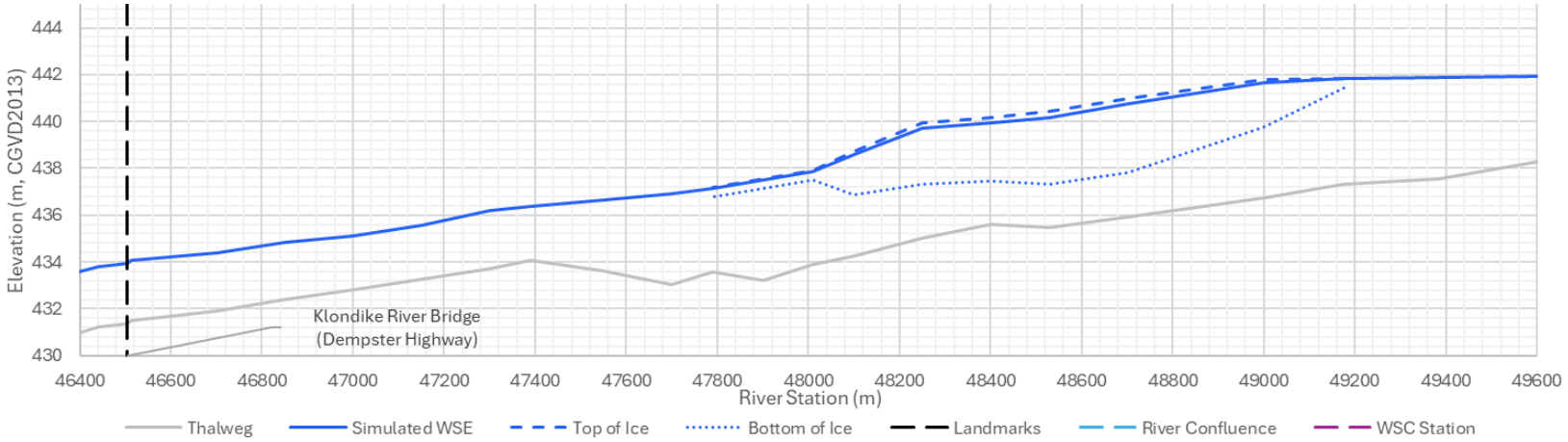

Figure 8-45 Klondike River WSE Profile 0.5% AEP Breakup Ice Jam at Upstream of Dempster Highway Corner (48+010)

8.4.1.2 Ice Volume Availability

The 1D HEC-RAS ice jam model estimates an ice jam volume for each design scenario while assuming an adequate supply of upstream ice is available to be transported to the jam location for its formation. Considering an ice thickness of 0.4 m across the main channel of the Klondike River and an average Klondike River channel width (with ice) of 100 m, the upstream length of river required to generate the HEC-RAS produced ice jam volume estimates are presented in Table 8-16.

Table 8-16 Klondike River Ice Jam Volume Requirements

Jam	Toe Station (m)	Head Station (m)	Ice Volume Required (m^3)	Length of Upstream Intact Ice Required (km)
C4 Subdivison Jam	2+254	3+500	169,757	4.2
Upstream of Klondike Highway Jam	3+250	4+694	304,347	7.6
Eureka Drive Jam	5+850	6+650	77,294	1.9
The Swimming Hole	12+600	13+209	371,044	9.3
The TH Farm	17+574	18+123	281,545	7.0
Rock Creek	20+600	22+500	285,800	7.1
Slide Area	23+700	24+800	162,031	4.1
Henderson's Corner	25+700	26+869	409,994	10.2
KM 30 to 32	30+950	32+000	354,426	8.9
Dempster Highway	46+050	47+000	145,427	3.6
Upstream Dempster Highway	48+010	49+175	205,878	5.1

Given that the required ice cover river lengths are within the total lengths of the Klondike River (tens of km), the above analysis suggests that ice supply is not a limiting factor for the breakup ice jams being simulated in this Project.

8.4.1.3 Sensitivity Analysis

A sensitivity analysis on the ice jam model results was undertaken to provide an understanding of how different model parameters impact the model outputs. Findings from sensitivity analyses were not used to alter the calibration, validation, or design runs or AEP simulations.

The scope of this Project included one sensitivity analysis for select ice jam model parameters. The selected jam for sensitivity analysis was the Rock Creek jam because it is the jam which had the greatest quantity and quality of calibration data.

A total of three sensitivity analysis runs were completed on the Rock Creek jam to evaluate the sensitivity of the model to overbank ice cover thickness and ice jam extent. These parameters were selected for sensitivity analysis because they are key unknowns in this analysis. Jam roughness has a marginal effect on inundation caused by jamming because the flow under the jam is relatively low on the Klondike River, as most of the flow is routed through side channels and through the overbank. Due to the majority of the flow being directed to the overbank, overbank ice cover was selected for sensitivity analysis. Jam length is unique to each jam event and the AEP event simulations were based on observed jams from each

location. However, with no shortage of ice for jamming on the Klondike and the limited understanding of the limits of jam integrity this sensitivity analysis provides insight into the impact of jam length on resulting WSE.

The three parameters selected for sensitivity analysis were the following:

1. Sensitivity of Klondike River WSEs to increasing jam length by 50%, considering the 0.5% AEP Breakup Ice Jam flows.

2. Sensitivity of Klondike River WSEs to decreasing jam length by 50%, considering the 0.5% AEP Breakup Ice Jam flows.

3. Sensitivity of Klondike River WSEs to include an overbank ice cover, considering the 0.5% AEP Breakup Ice Jam flows.

Figure 8-46 illustrates the sensitivity of the model to jam length at Rock Creek (20+600). The impact of jam length is isolated to the jam area and the river immediately upstream of the jam (approximately 1.5 km). Therefore, an increase to jam length extends increased WSE of the jam farther upstream. The increase in WSE is limited to upstream of the original head location.

Figure 8-47 illustrates the impact of overbank ice coverage at Rock Creek (20+600). The river morphology, overbank vegetation and observed behaviour at Rock Creek indicate overbank ice is not present during jamming, this analysis presents the sensitivity of the model to that assumption. The addition of overbank ice to the Rock Creek jam (20+600) increases the WSE within the reach of the jam an average of 0.70 m. The impact of this increase is limited to the jam reach and 1 km upstream of the jam head, where the two simulated WSEs converge.

The findings of the ice jam sensitivity analyses highlight the impact that jam extents and overbank ice cover have on the resulting WSE. As additional data on the Klondike River ice jams is collected it may be used to inform additional refinement of ice jam modelling.

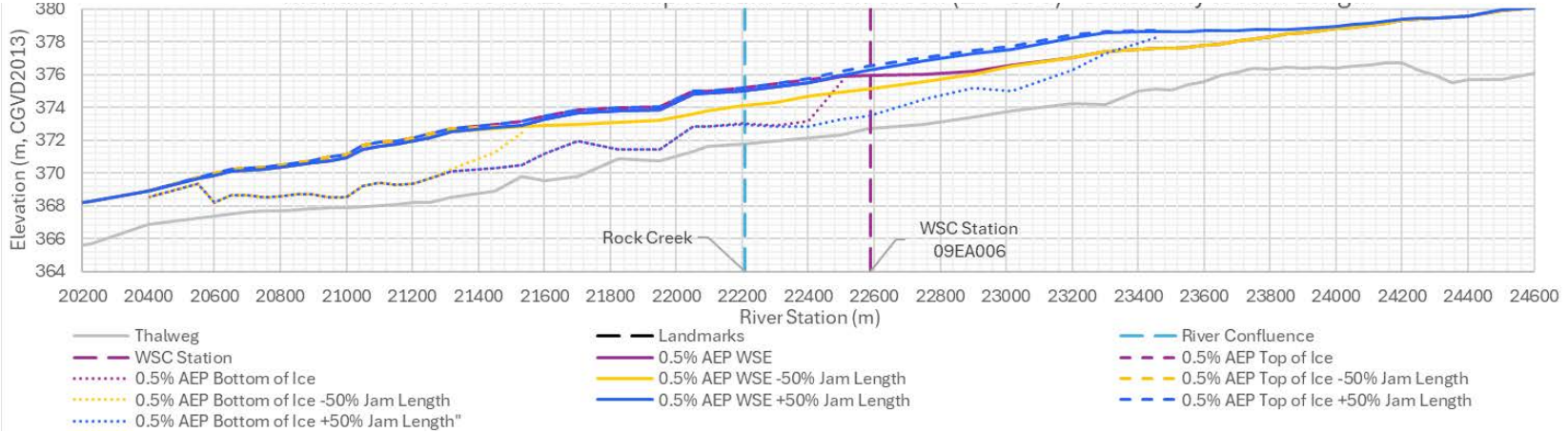

Figure 8-46 Klondike River Ice Jam Sensitivity Analysis for Jam Length for Rock Creek Ice Jam

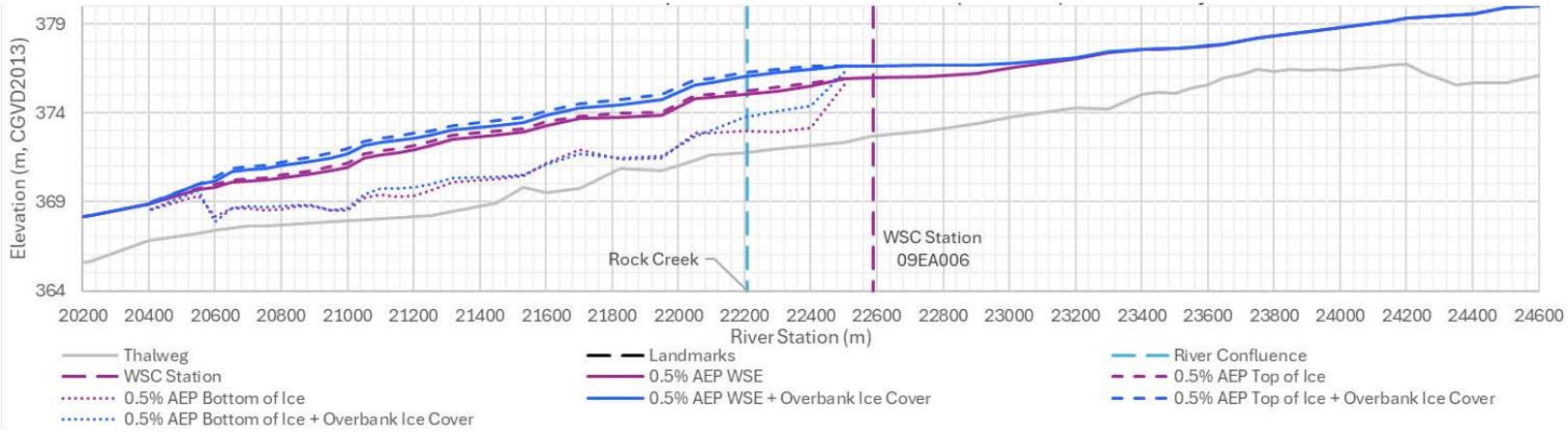

Figure 8-47 Klondike River Ice Jam Sensitivity Analysis for Overbank Ice Cover for Rock Creek Ice Jam

8.4.2 Yukon River

8.4.2.1 Boundary Conditions

The upstream boundary condition for the Yukon River ice jam hydraulic model runs was the flow rate specified for each event. The downstream boundary condition for the Yukon River ice jam hydraulic model runs was the normal depth energy slope established in the open water model calibration (Section 8.3.3.2). Flow contribution from the Klondike River was assigned using the paired flow rate in the Klondike River for the Yukon River event being simulated.

8.4.2.2 Model Calibration – Ice Cover

Ice cover calibration was completed for the Yukon River prior to the ice jam calibration. Intact ice cover roughness was calibrated using measurements taken in 1986 by the University of Alberta and published in Gerard et al. (1992). That is, ice cover thickness of 1.25 m, under ice flow of 423 m³/s and three WSE measurements as detailed in Section 7.6.4.2. The calibration resulted in an under-ice roughness of n of 0.02.

The resulting WSE differential and summary statistics in Table 8-17 and Table 8-18 consider the definitions of WSE differential and RMSE outlined in Equation 5 and Equation 6 where N is the number of surveyed WSEs (3 for the Yukon River 1986 ice cover). Calibration statistics for the final calibration run WSEs are presented both as absolute values (in m) and as percentage of the average maximum flow depth across the cross-sections in the calibration run (6.49 m). The WSEs of the final calibration are illustrated in Figure 8-48. The R^2 and trendline slope are both near 1, indicating strong agreement.

Table 8-17 1986 Yukon River Ice Cover Calibration WSE Results

Point Description	River Station (m)	Survey Elevation (m)	Modelled Elevation (m)	WSE Differential (m)	WSE Differential (% of Average Thalweg Depth)
HWM_YR_1986_IC-01	21+622	312.55	312.44	+0.11	+1.69%
HWM_YR_1986_IC-02	22+755	312.63	312.54	+0.09	+1.39%
HWM_YR_1986_IC-03	24+866	312.97	312.67	+0.30	+4.62%

Table 8-18 Yukon River 1986 Ice Cover Calibration Summary Statistics

	Value	WSE Differential (% of Average Thalweg Depth)
Average WSE Differential	+0.17 m	+2.62 %
Minimum WSE Differential	+0.09 m	+1.39%
Maximum WSE Differential	+0.30 m	+4.62%
RMSE	+0.19 m	+2.93%
R^2	0.930	Not Applicable

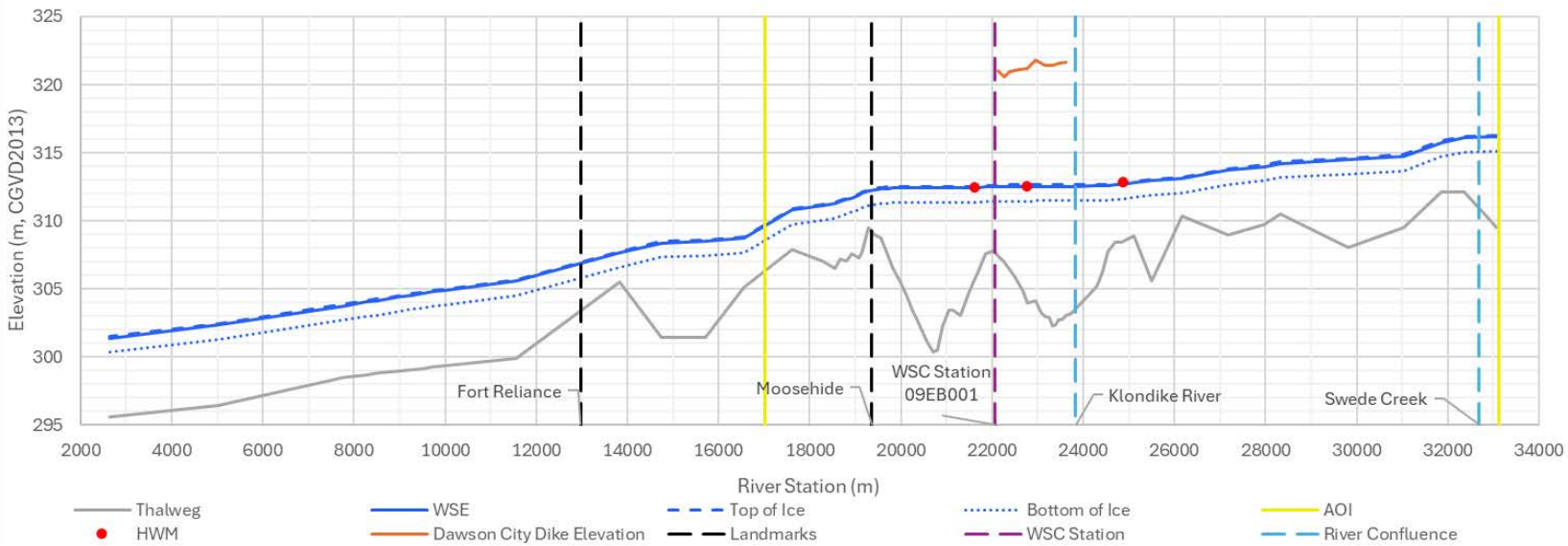

Figure 8-48 1986 Yukon River Ice Cover Calibration Profile

8.4.2.3 Model Calibration – Ice Jam

Based on documentation of the May 1998 ice jam, described in Sections 2.3.4.2 and 7.6.4.3, the following jam configuration was adopted for the Yukon River ice jam calibration:

a) Toe of jam at cross-section 8+500 and head of jam at cross-section 32+363. For the cross-sections between the toe and the head of the jam, the model considered breakup jams in the main channel and ice cover (no jam) in the overbank and side channels with a thickness of 1.25 m (average of typical range of 1 to 1.5 m). Overbank and side channels ice cover (and not jamming) was considered reasonable for the Yukon River given the floodplain conveyance (which may include ice) that has been observed during jam events.

b) Ice-free conditions upstream of cross-section 32+363.

c) Ice cover (thickness of 1.25 m in main channel and 1.25 m in overbank) from cross-section 8+500 to downstream boundary of Yukon River model.

Other ice jam parameters used for the ice jam model runs are based on typical values in alignment with USACE (2023) and Beltaos et al. (2013):

- Ice Cover Specific Gravity: 0.916
- Internal Friction Angle: 45 degrees
- Ice Jam Porosity (fraction water filled): 0.4
- Coefficient K1 (lateral to longitude stress in jam): 0.33
- Maximum Mean Velocity (under ice cover): 6 m/s (adjusted default 1.524 m/s to promote jam stability)

Based on the timing of the 1998 ice jam event, the calibration model run considered the following flow inputs:

a) Yukon River flow of 2,602 m^3/s downstream of the Klondike River confluence, and 2,475 m^3/s upstream of the Klondike River confluence.

b) Klondike River flow of 127 m^3/s based on the downstream translated flow from WSC Station 09EA003 on May 7–8, 1998.

The calibrated ice jam parameters were the ice jam roughness and the ice cover roughness in the main channel and in the overbank. The ice jam roughness was calibrated to be 0.062 in the main channel and 0.062 in the overbank though jamming was not permitted in the overbank. The intact ice cover roughness was previously calibrated to be 0.02. The increase in ice cover roughness calibrated in the jam scenario (0.02 to 0.062) reflects conditions during a jam where ice in the overbank may not increase in thickness with the jam profile, but may be present in fragments/large and therefore have higher roughness than an intact ice cover during winter conditions.

A maximum jam under ice velocity of 6 m/s was selected for the Yukon River ice jam scenarios. For the final iteration, the maximum under ice jam velocity (excluding the toe region outside the AOI) was generally less than 1.5 m/s with peak values of 5.89 m/s occurring at location 8+500. This is an indication of a stable ice jam simulation and that the selected maximum value of 6 m/s does not artificially thin the resulting ice jam.

The resulting WSE differential and summary statistics in Table 8-19 and Table 8-20 consider the definitions of WSE differential and RMSE outlined Equation (1), where N is the number of surveyed WSEs (3 for the Yukon River 1998 ice jam). Calibration statistics for the final calibration run WSEs are presented both as absolute values (in m) and as percentage of the average maximum flow depth across all cross-sections in the calibration run (11.97 m and 12.25 m for May 7 and 8, respectively). The WSEs of the final calibration are illustrated in Figure 8-49. The R^2 and trendline slope are both near 1, indicating strong agreement.

The calibrated ice jam and ice cover roughness values are within the ranges provided in the USACE (2023) and Beltaos et al. (2013) for the ice jams formed by blocks of sheet ice. The simulated WSE has a relatively low differential, particularly for the observed WSEs. Based on the relatively low WSE differentials and acknowledging that ice jam modelling has inherent uncertainties due to available data, measurements, and modelling limitations, the calibration detailed herein is considered reasonable for use in this Project given the information available to Stantec at the time of writing.

Table 8-19 1998 Yukon River Breakup Ice Calibration WSE Results

Point Description	River Station (m)	Survey Elevation (m)	Modelled Elevation (m)	WSE Differential (m)	WSE Differential (% of Average Thalweg Depth)
HWM_YR_1998_IJ-01	22+040	317.61	317.61	0	0.00%
HWM_YR_1998_IJ-02	17+903	316.9	316.97	0.07	0.57%
HWM_YR_1998_IJ-03	22+040	317.92	317.89	-0.03	-0.24%

Table 8-20 1998 Yukon River Ice Jam Calibration Summary Statistics

	Value (m)	WSE Differential (% of Average Thalweg Depth)
Average WSE Differential	+0.01	+0.08%
Minimum WSE Differential	-0.03	-0.24%
Maximum WSE Differential	+0.07	+0.57%
RMSE	+0.01	+0.08%
R^2	0.997	Not Applicable

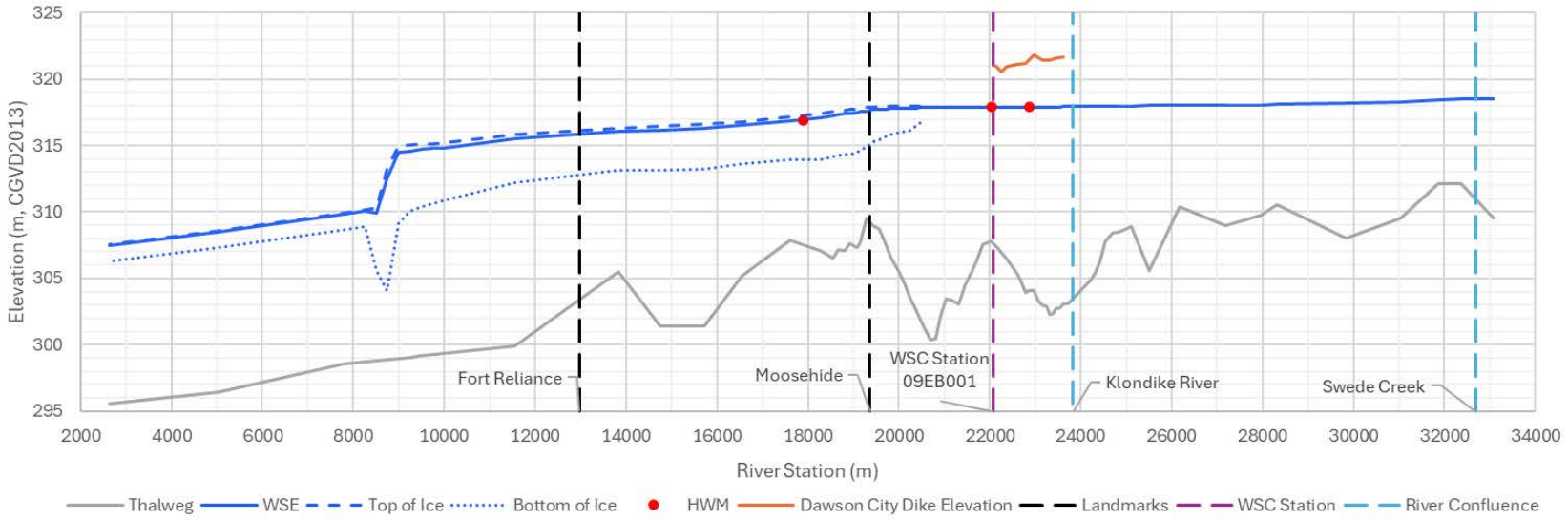

Figure 8-49 1998 Yukon River Ice Jam Calibration

8.4.2.4 Model Validation

Based on documented details of the 1979 ice jam in Section 7.6.4.1, the following jam configuration was adopted for the Yukon River ice jam validation of the 1979 ice jam:

a) Toe of jam at cross-section 8+500 and head of jam at cross-section 32+363. For the cross-sections between the toe and the head of the jam, the model considered breakup jams in the main channel and ice cover (no jam) in the overbank and side channels with a thickness of 1.5 m. Overbank and side channel ice cover (and not jamming) was considered reasonable for the Yukon River given the floodplain conveyance (which may include ice) that has been observed during jam events

b) Ice-free conditions upstream of cross-section 32+363.

c) Ice cover (thickness of 1.5 m in main channel and 1.5 m in overbank and side channels) from cross-section 8+500 to the downstream boundary of the model.

In 1979, the current Dawson City dike did not exist, and Front Street acted as the dike for the town. For the validation model simulation, the dike was removed from the model cross sections.

The ice jam validation run used the Mannings n values and other ice jam parameter values determined in calibration of the 1998 Yukon River ice jam in Section 8.4.2.3.

There is WSC published daily discharge for the dates of the flood (May 2-3, 1979) of 4,020 m³/s. However, there is a lack of published stage data until about a week after the event leading to uncertainty about the accuracy of the discharge value. Using the published discharge estimate and the 1998 calibrated ice jam roughness, the modelling produced a water profile that was 0.5 m higher than the highest and most confident HWM where Front Street was overtopped near King Street for the 1979 simulation.

Many of the 1979 HWMs in town are much lower and this is thought to be a combination of building settlement in the permafrost in the community, where the HWMs on the buildings were surveyed many decades after the event, and/or the brevity of the 1979 event, where there was not enough time for the floodplain to equalize with a brief peak water level. A brief peak water level could have occurred if the ice jam through Dawson City was briefly augmented by a jave from upstream and then released or shoved downstream, subsequently rapidly reducing the river level. Javes are known to be common during the breakup period and can produce high water levels. However, analysis of historic events indicate that unimpeded javes have not previously been the governing flood process for the AOI (Muirhead et al. 2025).

To make a simulation that was consistent with the 1998 calibrated roughness and the 1979 HWMs and ice scars, the WSC flow estimate had to be reduced to 3,679 m³/s (a 10% reduction). This reduction is deemed within the general accuracy of WSC discharge estimates during breakup conditions, especially since the stage data is missing for the breakup period and estimates have ranged from 2,280 m³/s to 4,020 m³/s.

Table 8-21 summarizes WSE differentials for the 8 HWMs and 4 ice scars which had a “good” certainty level from Section 7.6.4.1.

Table 8-21 1979 Yukon River Breakup Ice Validation WSE Results

Point Description	River Station (m)	Survey Elevation (m)	Modelled Elevation (m)	WSE Differential (m)	WSE Differential (% of Average Thalweg Depth)
HWM_YR_1979_IJ-01	22+949	320.28	321.12	-0.84	-5.80%
HWM_YR_1979_IJ-02	23+008	319.6	321.15	-1.55	-10.70%
HWM_YR_1979_IJ-03	22+765	320.58	321.06	-0.48	-3.28%
HWM_YR_1979_IJ-04	23+064	320.1	321.17	-1.08	-7.41%
HWM_YR_1979_IJ-05	23+084	320.15	321.18	-1.03	-7.09%
HWM_YR_1979_IJ-06	23+103	319.43	321.19	-1.77	-12.17%
HWM_YR_1979_IJ-07	23+128	319.29	321.20	-1.91	-13.20%
HWM_YR_1979_IJ-08	23+149	320.45	321.21	-0.77	-5.28%
IS_YR_1979_IJ-01	17+417	320.22	318.21	2.01	13.86%
IS_YR_1979_IJ-02a	20+233	319.12	319.34	-0.22	-1.52%
IS_YR_1979_IJ-02b	20+233	319.89	319.34	0.55	3.79%
IS_YR_1979_IJ-03	27+853	321.51	322.26	-0.75	-5.17%

Regarding HWM WSE Differentials, the simulated 1979 ice jam produces consistently higher WSEs than the surveyed HWMs. As discussed above and in Section 7.6.4.1, the surveyed HWMs were likely to be lower than the actual flood peak of 1979 because of land subsidence since 1979 and because HWMs identified by the community may be a function of the “pooled” WSE not the peak WSE.

Regarding ice scar WSE differentials, there are three locations of 1979 tree ice scars from Gerard et al. (1992) plotted in Figure 8-50, at approximately stations 17+400, 20+200 and 27+900 m:

- The ice scar at Station 17+400 (IS_YR_1979_IJ-01) is 2.1 m above the simulated water level but examining the photograph of this ice scar in Gerard et al. (1992) shows an inclined aspen tree that the ice pushed over suggesting that significant ice ride-up above the water could have occurred at this location.
- Ice scars at Station 20+200 (IS_YR_1979_IJ-02a, IS_YR_1979_IJ-02b) are also above the simulated water level. These ice scars were surveyed along the gently sloped left bank where the channel narrows so this location is conducive for ice ride-up and justifies that the simulation is below the highest ice scars in this group for which photos are not available. The lowest scars in this group are close to the HEC-RAS simulated profile.
- The photo of the tree for the scar near Station 27+900 (IS_YR_1979_IJ-03) in Gerard et al. (1992) indicates a large vertical poplar tree right on the edge of a cut bank that is parallel with the flow direction suggesting ice ride-up likely did not occur there and that this scar was a more accurate representation of the 1979 water level at this location. It plots slightly below the HEC-RAS profile.

The maximum under ice jam velocity (excluding the toe region outside the AOI) was generally less than 1.5 m/s with peak values of 5.54 m/s occurring at location 8+750. This is an indication of a stable ice jam simulation and that selected maximum values of 6 m/s does not artificially thin the resulting ice jam.

Figure 8-50 shows the simulated 1979 HEC-RAS water surface profile using the 1998 roughness calibration and the reduced discharge with the jam extending through the AOI. The elevation of Front Street, which at the time acted as the dike, is shown in green. Historical records demonstrate that the flood overtopped near King Street shown in Figure 8-50 but not at the upstream end of Front Street (the HWMs get lower in the upstream direction). However, the fully extended simulated jam through to the upstream end of the AOI, shows an exceedance of Front Street at its upstream end. This is a possible indication that the actual head of the jam in 1979 was not that far upstream, perhaps only as far as the confluence with the Klondike River.

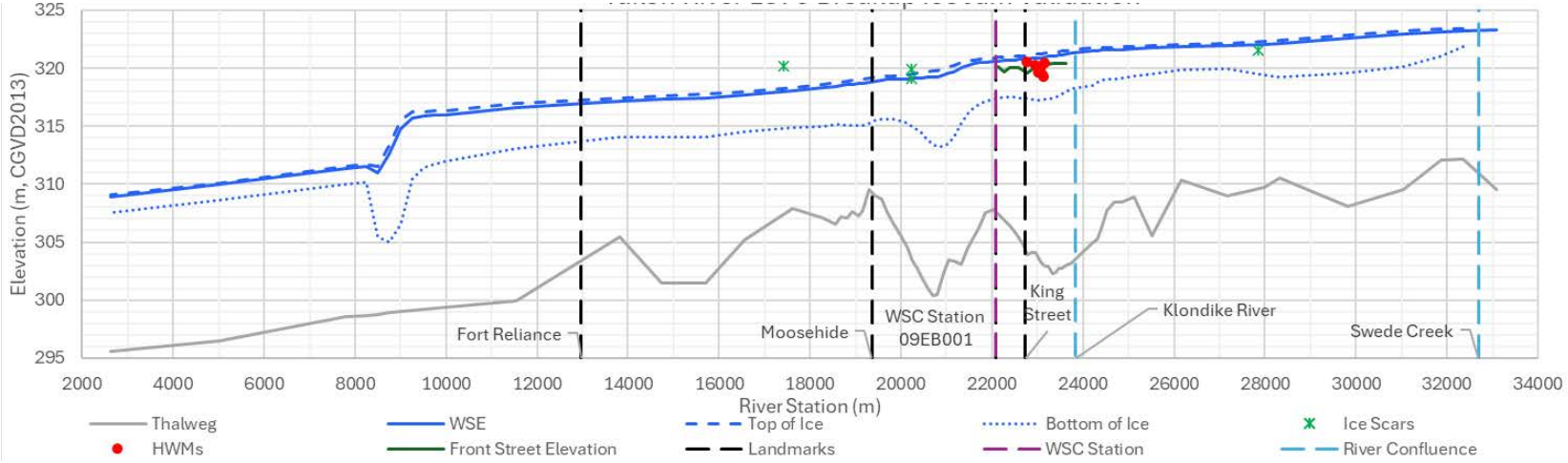

Figure 8-50 1979 Yukon River Breakup Ice Jam Validation (May 2–3, 1979 Event)

8.4.2.5 Design AEP Model Runs

WSE FFAs and Flood Mapping: A WSE FFA can be completed when sufficient stage (WSE) data records have captured the breakup period WSE, including impacts from ice jams, for a suitable number of years. For this Project, the WSC Station 09EB001 in Dawson provided sufficient data to complete a WSE FFA at the station location, as outlined in Section 3.4.

For this Project the AEP WSE profile was required across the entire Yukon River AOI, which necessitates a translation from the stationary WSE FFA at the gauge both upstream and downstream on the Yukon River. To complete the floodplain mapping the hydraulic model was used to simulate jam events that reproduced the WSE FFA levels at the gauge to provide the AEP WSE profiles for the length of the Yukon River AOI.

Yukon River Ice Jam Modelling Inputs: Flood history on the Yukon River has shown that ice jam flooding leading to a certain WSE severity can occur in two ways, from a high flow rate and less severe jam or a proportionately lower flow and more severe jam. The two conditions used for model calibration and validation were:

- The 1979 event was an approximately 1:140-year WSE event, however the estimated flow (~4,020 m³/s) is equivalent to approximately a 1:20-year breakup period flow rate; the jam front is largely assumed to have extended through Dawson City; exact head location is unknown.
- The 1998 event was an approximate 1:15-year WSE event at WSC Station 09EB001, however the estimated flow rate (2,802 m³/s) is equivalent to approximately a 1:2-year breakup period flow rate; head location was downstream of Dawson City.

When bed roughness, jam roughness, toe location, specifics of main channel/overbank jamming, and downstream boundary conditions are known or calibrated (as they generally are for severe Yukon River ice jams in this Project), ice jam head location becomes the variable driving jam severity. In other words, WSE becomes a function of discharge and jam head location.

Yukon River AEP Ice Jam Modelling: Based on the above, a given AEP WSE at WSC Station 09EB001 can be achieved through multiple scenarios, which may be bounded by the following two combinations:

i. A severe (long) jam with a flow lower than the breakup AEP flow.

ii. A less severe (short) jam with the breakup AEP flow.

Figure 8-51 to Figure 8-54 illustrate these two such scenario runs for the Yukon River at Dawson for 5%, 1%, 0.5% and 0.5%+ Climate Change AEP events. The “full AEP flow, short jam” scenario (blue profile) adopted the breakup period AEP flow and adjusted the jam head location until the WSE at WSC Station 09EB001 was equal to the Stage FFA WSE. This scenario represents the minimum ice impact (of a jam at the known toe location) required for the AEP flow to meet the AEP WSE at WSC Station 09EB001 and represents the selected AEP WSE profile downstream of the WSC Station. The “reduced flow, full AOI jam” scenario (green profile) pushed the jam head through the AOI and reduced the flow rate until the WSE at WSC Station 09EB001 was equal to the AEP WSE. This scenario represents the minimum flow

required for a jam at the known toe location that extends through the AOI to meet the AEP WSE at the WSC Station and represents the WSE profile upstream of the WSC Station. This “reduced flow rate, full AOI jam” scenario is considered reasonable for simulation given that ice supply from upstream reaches is not considered to be jam length limiting for the Yukon River at Dawson (Section 8.4.2.6).

Both the “full AEP flow, short jam” and the “reduced flow, full AOI jam” scenarios (Table 8-22 and Figure 8-51 to Figure 8-54) cross through the AEP WSE at the WSC Station 09EB001 location. It is important to consider these two simulations each as having a probability of occurrence aligned with the AEP (e.g., both lines have a “X %” chance of occurring) but represent different combinations of inputs to arrive at such an event. For flood mapping throughout the AOI, this Project adopts the higher WSE of those two ice jam simulations within the AOI for each AEP event. The adopted WSE through the AOI is presented as the black dash-dot line in Figure 8-51 to Figure 8-54.

Table 8-22 Yukon River Jam Locations

Simulation Name	Toe Station (m)	Head Station (m)	Jam Season	Jam Type	Upstream Conditions	Downstream Conditions
Full AEP flow, Short Jam	8+500	Variable	Breakup	Standard	Open Water	Ice Covered
Reduced Flow, Full AOI Jam	8+500	32+363	Breakup	Standard	Open Water	Ice Covered

The AEP ice jam simulations resulted in a maximum under ice jam velocity that was generally less than 1.5 m/s with peak values under the toe. Maximum velocities approaching 5.98 m/s occurring for a single cross section and velocities above 1.5. m/s for up to 4 cross sections under the toe. This is an indication of a stable ice jam simulation and that selected maximum values of 6 m/s does not artificially thin the resulting ice jam.

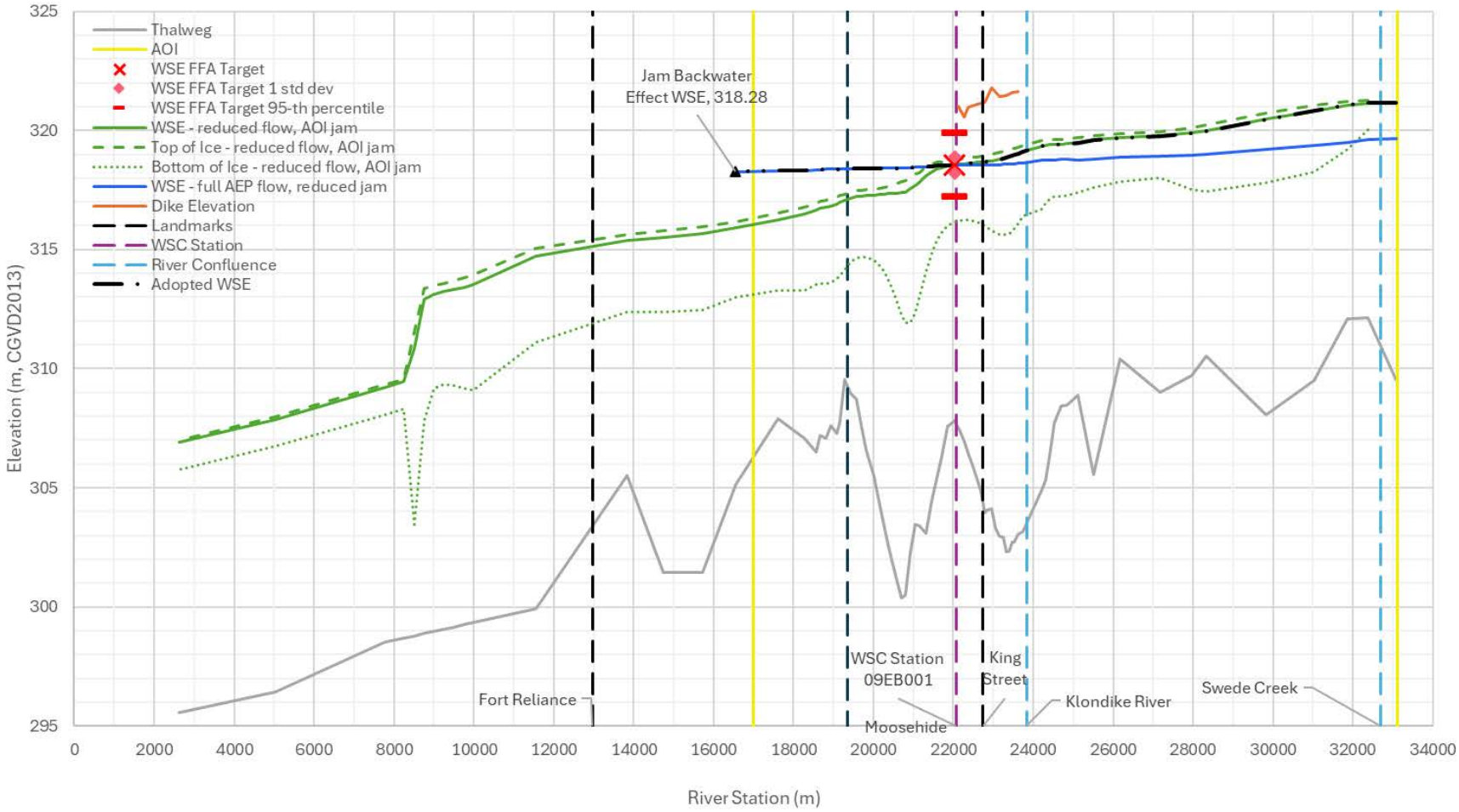

Figure 8-51 5% AEP Yukon River WSE Profiles for Ice Jam Runs

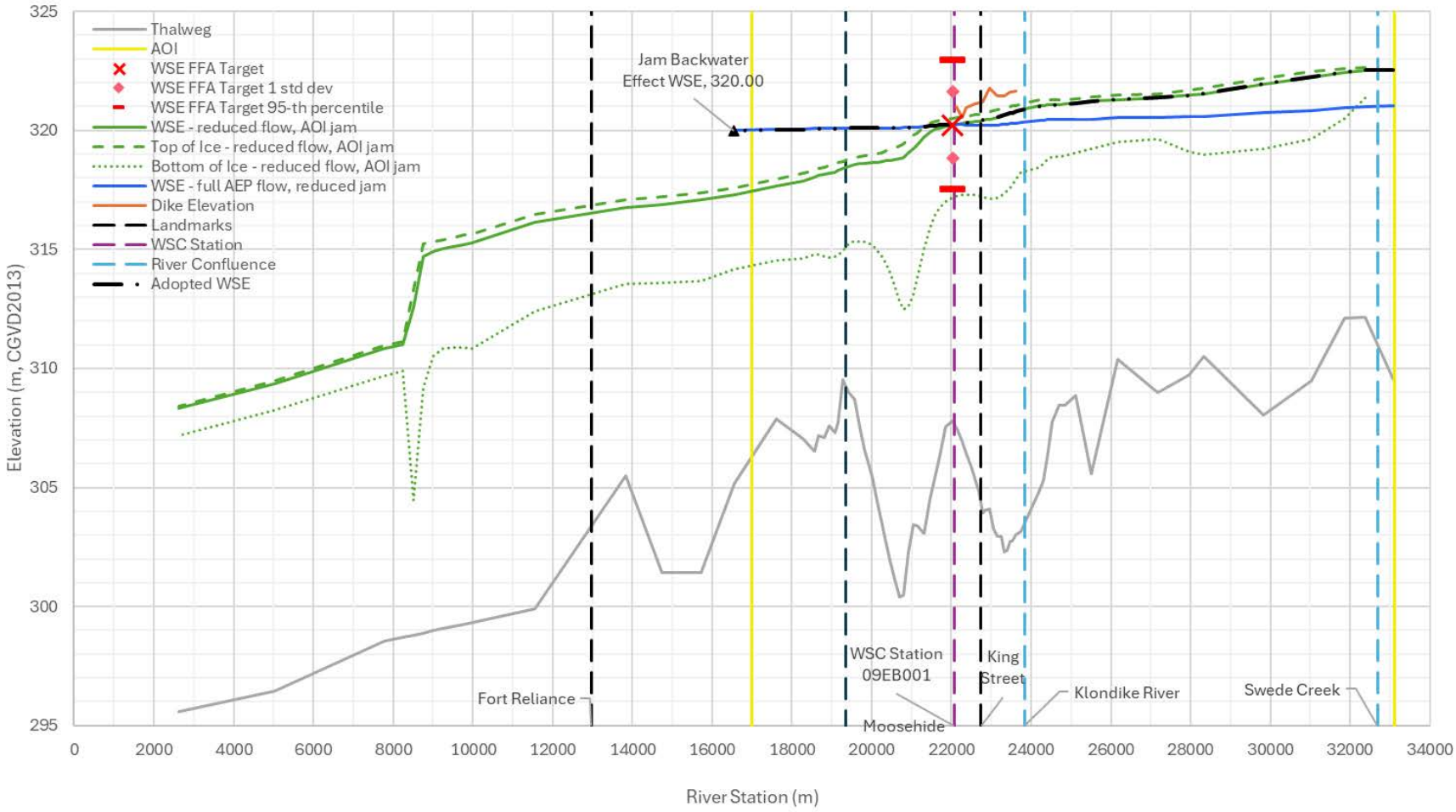

Figure 8-52 1% AEP Yukon River WSE Profiles for Ice Jam Runs

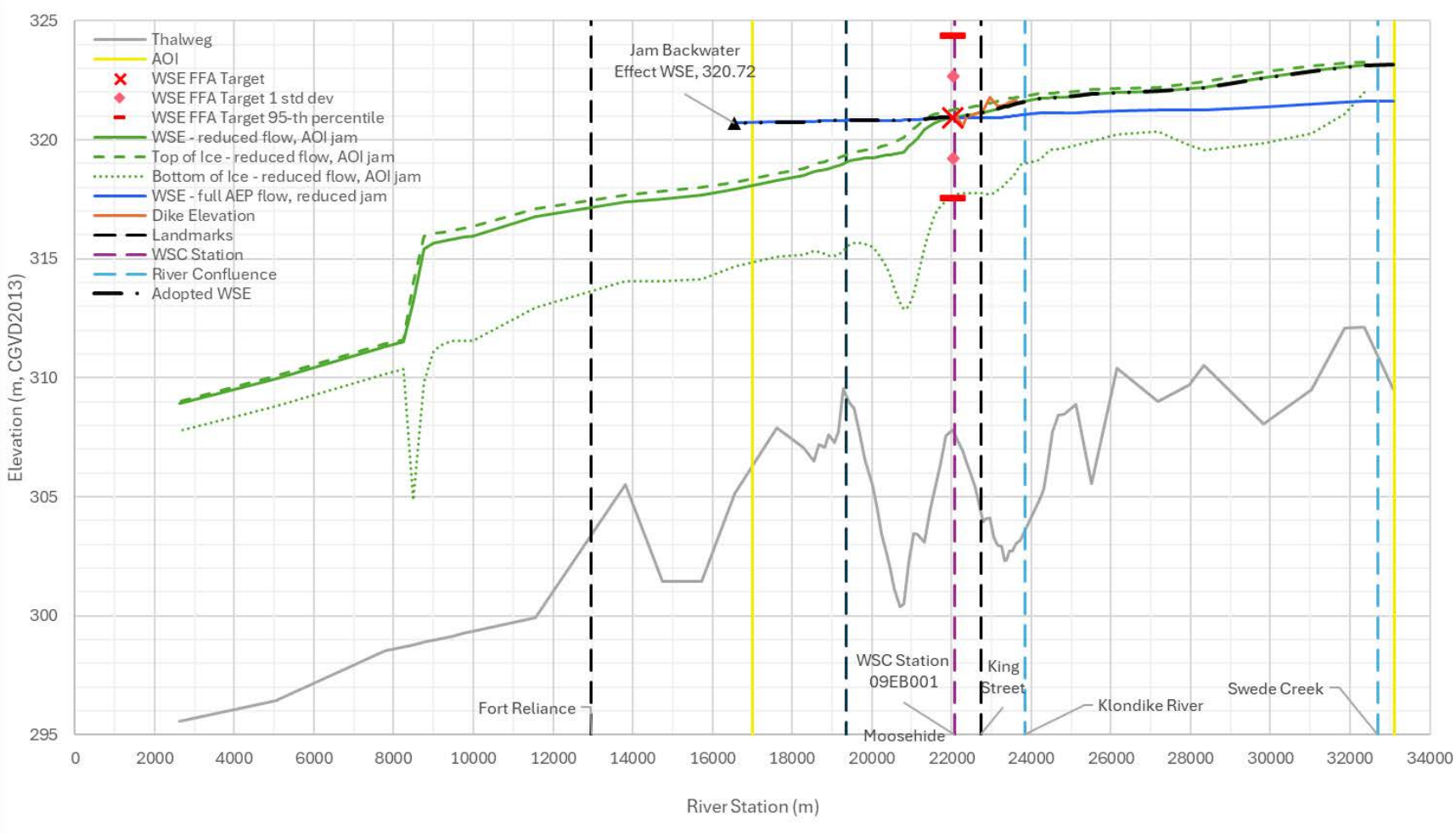

Figure 8-53 0.5% AEP Yukon River WSE Profiles for Ice Jam Runs

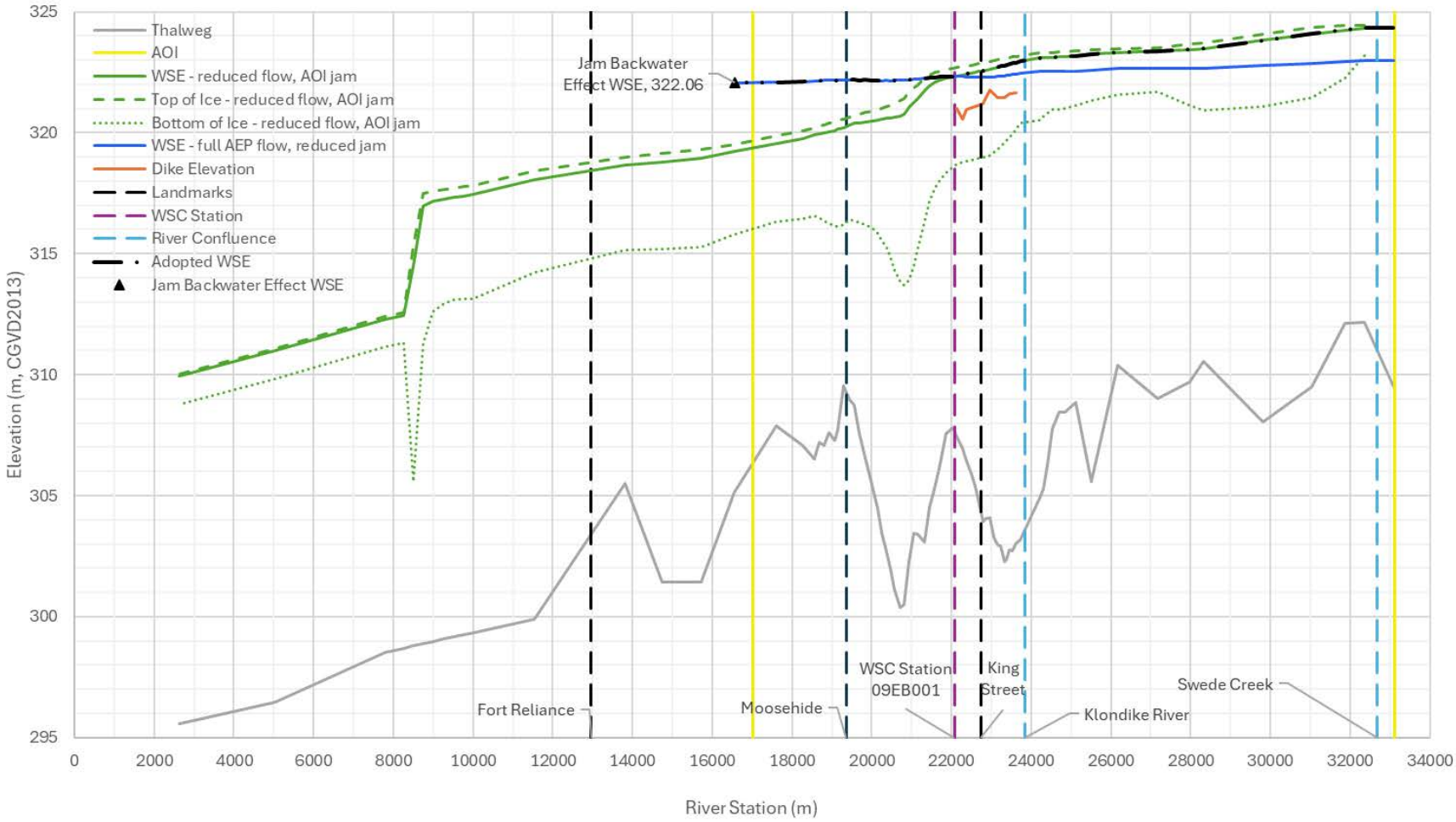

Figure 8-54 0.5 %+LC-CC AEP Yukon River WSE Profiles for Ice Jam Runs

8.4.2.6 Ice Volume Availability

The 1D HEC-RAS ice jam model estimates an ice jam volume for each design scenario while assuming an adequate supply of upstream ice is available to be transported to the jam location for its formation. Considering an ice thickness of 1.25 m across the main channel of the Yukon River and an average Yukon River channel width (with ice) of 650 m, the upstream length of river required to produce the HEC-RAS produced ice jam volume estimate was calculated.

Yukon River AOI jam total ice jam volume was 34,000,768 m³, which would require approximately 42 km of upstream ice to form the jam or approximately one third of the ice available upstream of Dawson City to the confluence of the White River. Jams at this location have been observed to extend past Dawson City and other jams on the Yukon River (e.g., Fortymile River jam of 2023) have been estimated as greater than 30 km.

Given that the required ice cover river lengths are within the total lengths of the Yukon River (tens of km), the above analysis suggests that ice supply is unlikely to be a limiting factor for the breakup ice jams being simulated in this Project.

8.4.2.7 Sensitivity Analysis

A sensitivity analysis on the ice jam model results was undertaken to provide a sense of how different model parameters impact the model outputs. Findings from sensitivity analyses are not used to change or alter the calibration, validation, or design runs or AEP simulations.

A total of three sensitivity analysis runs were completed to evaluate the sensitivity of the model to ice jam/ice cover roughness and the use of the WSE FFA to anchor the simulation to the joint probability of the jam severity and river flow:

1. Sensitivity of Yukon River WSEs to increasing ice jam and ice cover roughness by 10%, considering the 0.5% AEP Yukon River AOI Breakup Ice Jam flows.
2. Sensitivity of Yukon River WSEs to decreasing ice jam and ice cover roughness by 10%, considering the 0.5% AEP Yukon River AOI Breakup Ice Jam flows.
3. Sensitivity of Yukon River WSEs to increasing jam length to the upstream end of the AOI (total jam length of approximately 25 km) considering the 0.5% AEP Breakup Ice Jam discharge.

Table 8-23, Figure 8-55, and Figure 8-56 present the summary of the Yukon River breakup jam sensitivity analyses. The results indicate moderate sensitivity to ice jam roughness, but a substantially greater sensitivity to the jam length – particularly upstream of the base case jam head location. The results reinforce the value of monitoring of breakup flow rates and breakup jam toe/head locations in order to increase the accuracy of ice jam flood maps on the Yukon River.

Table 8-23 Yukon River Ice Jam Sensitivity Analysis Summary Statistics

Sensitivity Run	WSE (m) under an Increase in Mannings n by 10% considering the 0.5% AEP Breakup Discharge	WSE (m) under a Decrease Mannings n by 10% considering the 0.5% AEP Breakup Discharge	WSE (m) under an Increased Jam Length (25 km) considering the 0.5% AEP Breakup Discharge
Average WSE Differential (m)	+0.37	-0.38	+3.29
Minimum WSE Differential (m)	+0.04	-0.49	+2.38
Maximum WSE Differential (m)	+0.47	-0.05	+3.96

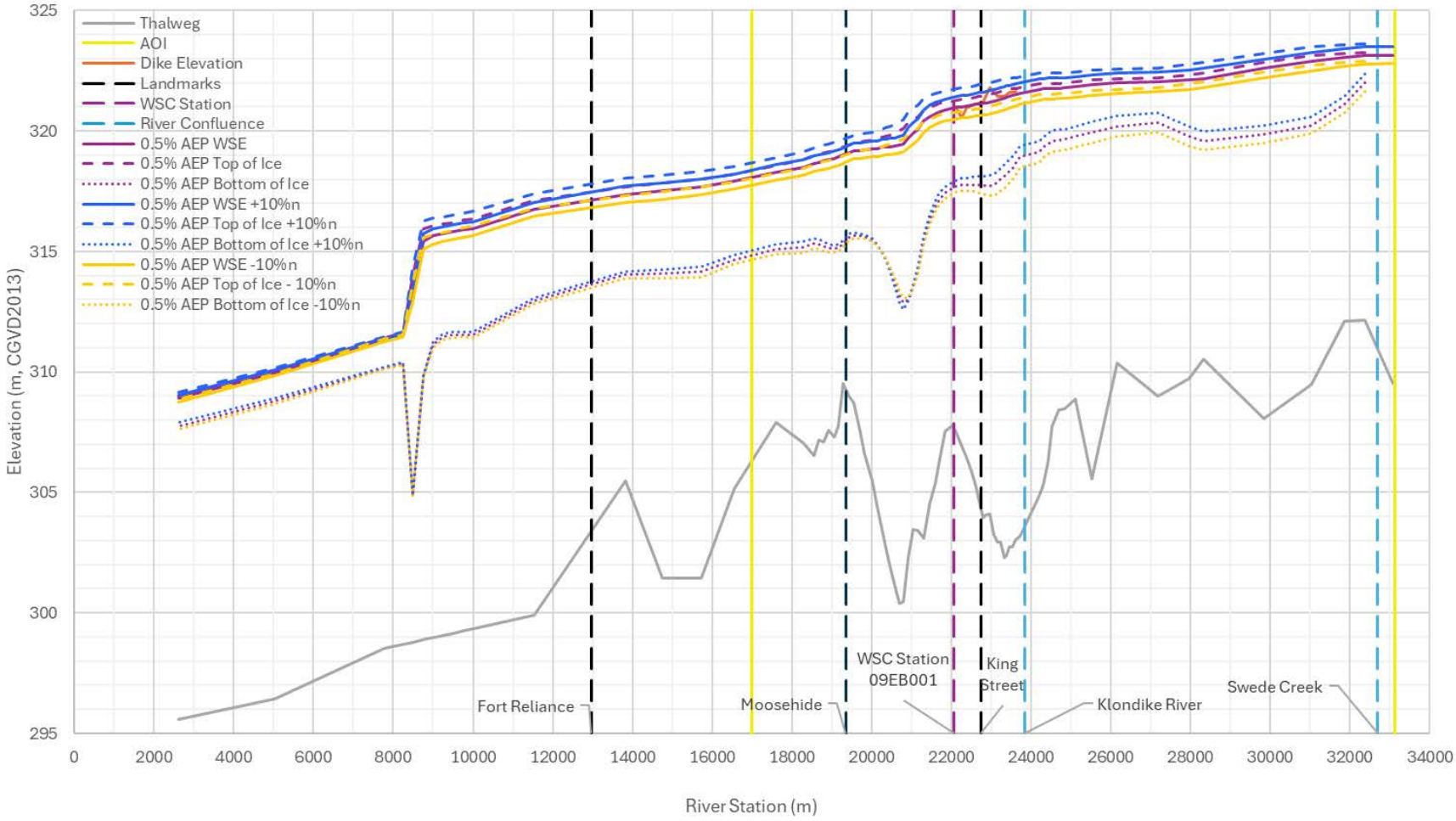

Figure 8-55 Yukon River Ice Jam Sensitivity Analysis for Ice Jam Roughness

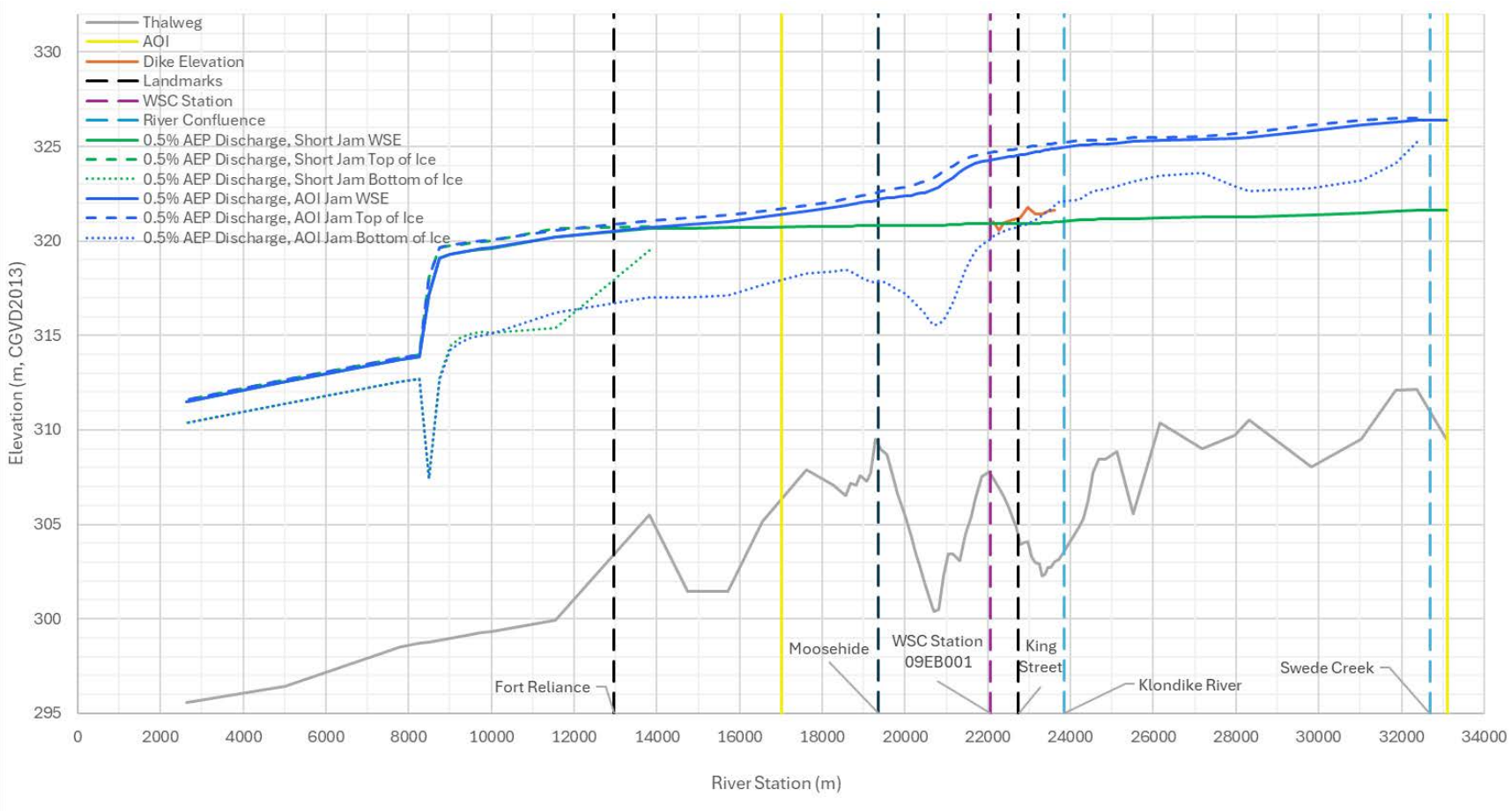

Figure 8-56 Yukon River Ice Jam Sensitivity Analysis for Increased Jam Length

8.5 Composite Flood Hazard Maps

The method for developing the composite flood hazard maps followed the flood processes component of the joint probability analysis detailed in Section 4.1. This method accounts for different flood processes being the driving process for the overall AEP event at different locations throughout the AOI. For each design AEP event (i.e., the 5% AEP, 1% AEP, 0.5% AEP, and 0.5% AEP + climate change), five separate sets of model simulations were overlain to create a composite flood hazard inundation and WSE surface for that design AEP:

i) A Flat Creek open water run (Section 8.3.4).

ii) Eleven individual Klondike River breakup ice jam runs (Section 8.4.1.1).

iii) A Klondike River primary open water run (Section 8.3.4).

iv) Two Yukon River breakup ice jam runs (Section 8.4.2.5).

v) A Yukon River primary open water run (Section 8.3.4).

The resulting composite design AEP inundations were considered representative of the overall flood hazard extent for the AEP. The separate model simulations for each flood mechanism and subsequent data overlay result in a composite AEP inundation area unlikely to occur in a single event.

Manual edits using 2D hydraulic model domains were completed at two locations in the AOI to refine and confirm flood inundations where the results at cross-sections were unable to accurately reflect inundation extents within each of the 1D model runs. The two locations where these additional mapping efforts were applied were south of the Klondike Highway adjacent to the Henderson's Corner jam, and south of the Klondike Highway (upstream of the airport) between the Rock Creek and TH Farm jams.

The composite flood hazard maps for each of the AEP events are provided in Appendix G. The composite flood hazard maps indicate a single inundation extent for each AEP event but also identify specific mechanism under which that inundation occurs. That is, the inundation under open water conditions and breakup ice jam inundation are delineated within the overall composite inundation extent. Within the ice jam extents, separate hatching has been included in the maps to indicate the areas modelled as i) ice jamming, labelled as "Ice Jamming Extents" in the maps and ii) ice cover (used in the model as outlined in Section 8.4 to represent increased roughness from the presence of ice), labelled as "Potential Presence of Ice During Jam Scenarios" in the maps.

At the request of YG, the 50% AEP open water flow inundation extent was simulated and is shown on the composite flood hazard maps for context, however it should be noted that the hydraulic model is not calibrated for lower AEP flow rates.

The composite flood hazard maps assume that the access ramp opening flood panels in Dawson City are installed and surface water drainage culverts have been closed and effectively prevent backflow into Dawson City via the storm system.

8.5.1 Seepage Considerations in Klondike River Valley

The standard mapping approach required surface water connection for an area to be included in the inundation. However, the dredge reach of the Klondike River (between the Yukon River and Hunker Creek) has a demonstrated history of rapid seepage through the dredge tailings. This rapid seepage indicates that water does not require direct surface connection to equalize throughout the valley during flood events.

Therefore, due to the unique seepage characteristics, seepage-related flooding is included as part of the inundation area on the composite flood hazard maps for the Klondike River dredge reach.
The seepage-related flooding areas are displayed separately from the inundated areas using the standard approach (requiring surface connection) on the maps in Appendix G. The dredge tailings and associated seepage connectivity does not continue upstream of Hunker Creek. Therefore, for the non-dredge areas upstream of the Hunker Creek confluence, the standard approach of requiring a surface connection (e.g. road overtopping, side channels, or culverts) was applied in mapping.

To verify whether a Klondike River flood event has sufficient capacity to inundate the dredge tailings areas, a volumetric flood-depth analysis using ArcGIS Pro was completed. The LiDAR-derived original ground surface was compared against the modeled water surface for the 0.5% AEP+LCC/CC event (highest WSE) to calculate flood depths across the identified dredge tailings footprint. Depth values were integrated over the area of interest to estimate the total floodwater volume that would be present under this scenario. A resulting volume of approximately 12,863,000 m³ is required to inundate these areas. To determine if flooding along the Klondike River can supply this required volume of water, the May 2023 open water flooding was reviewed. On the evening of May 24, 2023 the instantaneous flow reached 938 m³/s and remained elevated (above 700 m³/s) for approximately 36 hours on the rising and falling limb of this flood event. A total of approximately 66,500,000 m^3 of water was supplied on May 24, 2023 alone, or approximately five times higher than the required inundation volume at the 0.5% AEP+LL-CC scenario. This high-level volumetric analysis indicates that flooding events provide sufficient water to fully inundate the impacted dredge tailings areas as mapped in Appendix G, as the incremental amount of additional water required for inundating the dredge tailing areas is supplied by the estimated AEP flow rates for open water and ice jam conditions.

An exception to the seepage-related flooding was applied at the Swimming Hole jam location under the breakup ice jam scenario. It was not considered representative of flood conditions to extend ice jam WSE profiles laterally across the valley south of the Klondike Highway given that the WSE profile at the Klondike River drops by over 2 m over the approximately 300 m length of river at the jam location, and the distance that seepage would need to occur laterally would be up to 700 m. This dramatic WSE change would not translate across the valley through the seepage paths identified to the far south extent of the valley. For this reason, the ice jam WSEs were not included south of the Klondike Highway and inundation was based on the open water WSE profiles at each AEP in this area. The lateral extents of other jams in the Klondike River dredge reach (Eureka Drive jam, Upstream of Klondike Highway Bridge Jam, C4 Subdivison Jam) were fully preserved across the river valley because the surface connections either reduced the required seepage extents or eliminated the seepage consideration altogether. Open water WSE profiles have a more consistent gradient (i.e., without rapid WSE drops) which meant it was reasonable to adopt open water inundation laterally across the valley in the Klondike River dredge reach.

9 Dawson City Dike

Dawson City is separated from the Yukon River by a dike. The dike was constructed in the 1980s as a response to the flooding from the 1979 ice jam flood event which overtopped Front Street. The dike crest elevation generally ranges from 320.5 m to 321.6 m, though some areas of the crest vary from this range (discussed below). The dike contains surface water drainage culverts and a river access ramp which can be closed during flood events to prevent backflow behind the dike. Findings from a formal dike condition assessment of the Dawson City dike (Stantec 2025) indicate that the dike is generally in good condition with no evidence of instability, significant erosion, or rip rap deterioration. Several locations along the dike overtop under the high AEP events and raising of the dike is recommended to provide 1.0 m of freeboard (Stantec 2025).

The highest section of the dike crest is at the upstream end of the dike (which is upstream of the confluence on the Klondike River) and has a crest elevation of approximately 322.15 m. The lowest part of the dike is at the downstream end (north end of Dawson City) and has a crest elevation of 320.04 m. During flooding events the lowest point of the crest is the first section to overtop.

Additional dike-specific details and analysis may be found in the formal dike condition assessment in Stantec (2025).

The composite flood hazard inundations illustrated in Appendix G consider the dike to effectively prevent the entry of water into Dawson City until overtopping occurs. That is, the inundation mapping in Appendix G assumes that the dike functions as intended, access ramp opening flood panels are installed before flooding, and surface water drainage culverts have been closed and effectively prevent backflow into Dawson City via the storm system. If overtopping does not occur under a given AEP, then there is no area in Dawson City included in the flood hazard inundation for that AEP. If overtopping at a certain location occurs for a given AEP, Dawson City would be inundated at the WSE at the overtopping location(s) and this is reflected in the flood hazard inundation extents.

9.1 Area Protected by Dike

The area protected by the dike is considered to be the area beyond the flood hazard inundation extents which would be inundated if the dike did not exist. Areas protected by the dike are illustrated on the flood hazard maps in Appendix G by a hatched zone. A brief description of the area protected by the dike for each AEP is described below.

- The 5% AEP events do not overtop the dike, resulting in no mapped inundation within Dawson City. If the dike was not present, there are areas within Dawson City which would be inundated based on the adjacent WSEs in the Klondike River and Yukon River. These areas are the areas protected by the dike illustrated in Appendix G for the 5% AEP.
- The 1% AEP event overtops by approximately 0.22 m for an approximately 5 m width at the downstream end of the dike (north end of Dawson City). This overtopping results in a “flat water” mapped inundation behind the dike considering the WSE at that overtopping location (320.26 m).

If the dike was not present, there are additional areas beyond the flat water mapped inundation extent within Dawson City which would also be inundated, based on the adjacent WSEs in the Klondike River and Yukon River. These areas outside of the 1% AEP mapped inundation areas within Dawson City are the areas protected by the dike illustrated in Appendix G for this AEP.

- The 0.5% AEP event overtops the dike for approximately 730 m of the downstream portion of the dike. In areas within Dawson City adjacent to dike overtopping, the 0.5% AEP flood hazard inundation in Dawson City adopts the adjacent Yukon River WSE. In areas within Dawson City upstream of the dike overtopping, the 0.5% AEP flood hazard inundation adopts “flat water” inundation from the most upstream overtopping location (cross-section 22869, WSE = 321.18 m). If the dike was not present, there are additional areas beyond the flat water mapped inundation extent within Dawson City (i.e., upstream of cross-section 22869) which would also be inundated, based on the adjacent WSEs in the Klondike River and Yukon River. These areas outside of the 0.5% AEP mapped inundation areas within Dawson City are the areas protected by the dike illustrated in Appendix G for this AEP.

- The 0.5% AEP + CC/LCC event overtops the entire length of the dike. If the dike was not present, there would be no additional areas which would be inundated. Therefore there are no areas protected by the dike under the 0.5% AEP + CC/LCC event in Appendix G.

The above approach for areas protected by the dike considers the WSEs from hydraulic model runs with the dike geometry. The WSEs from those hydraulic model runs were laterally projected to areas on the non-river side of the dike. The above approach did not consider WSEs from hydraulic model runs without the dike geometry.

9.2 Dike Breach Considerations

The dike is constructed from earthfill material and in the event of an overtopping would likely begin to erode at the point of overtopping. Earthfill dams can also fail under seepage/piping conditions (i.e., water moving through the dike itself) which does not require the dike to be overtopped. Generally, when earthfill dikes breach, the erosion progresses into a trapezoidal shaped opening in the dike with a bottom elevation equal to the toe of the dike.

Detailed dam or dike breach analyses have been developed for dams [dikes] that retain a fixed volume reservoir to be released (Frolich 2016). The Yukon River has a surplus of available water volume to fill the area behind the Dawson City Dike in the event of a breach. Therefore, the breach may continue to grow in size (in plan) until the area behind the dike is filled to the height of the river at the breach location at that time. It was reported that the Front Street dike overtopping during the 1979 flood inundated the community within 40 minutes (Whitehorse Daily Star 1979; Orecklin 1981; Jasek 1998). It is considered likely Dawson City would be inundated on a similar timeframe in the event that the current dike is breached or overtopped.

The “worst-case” breach for a given AEP is represented by considering a breach at the location of highest WSE along the length of the dike. This worst case breach scenario is often of interest given the potential for infrastructure damage and loss of life if a Dawson City dike breach were to occur.

10 Assumptions and Limitations

The contents of this Report are subject to the following assumptions and limitations:

- Unless otherwise specified, WSC hydrometric data was used as the source for hydrologic data considered in the FFAs for breakup and open water periods. Stantec did not perform any separate analyses to adjust WSC flows during any of these time periods.
- The hydraulic analysis and flood mapping was on based topographic and bathymetric data that represented the channel and floodplain geometry of the Klondike and Yukon Rivers at the time of this Project. Changes to river channel and bed and changes to floodplain topography and land use, such as the construction of new or raised dikes, can change results from those presented in this report and accompanying maps.
- The breakup ice jam modelling completed in this Project was based on documented instances of ice processes which cause flooding events in the AOI. This analysis is based on limited historical observations and may not represent the worst-case scenario and new or altered ice processes. Anticipation of potential future ice jam events was not in the scope of this Project.
- Stantec's recommendations are based on the assumptions, information from project partners and stakeholders, and past published data and reports, which are based on reasonably available scientific data. Such data contains inherent limitations given that the climatic conditions measured by such data are constantly evolving and cannot be predicted with certainty.

11 Areas for Future Study

This Project has been completed using the information available to Stantec at the time of writing. Flood hazard maps should be updated as new information, processes, or industry standards become available. The following items may facilitate improvements and refinements of the Dawson City & Klondike Valley Flood Hazard Maps in future years.

i. Continued ice process monitoring (freeze up, ice cover, breakup) on the Klondike River and Yukon River, including but not limited to:
   - Freeze-up and breakup dates.
   - Late winter ice thickness measurements under ice cover conditions.
   - Ice jam toe and head locations, particularly at peak WSEs.
   - Aerial imagery and photographs of ice jam events throughout event but particularly at peak WSEs.
   - Peak WSE profiles and inundated area extents associated with ice jam events.
   - Timeline of events during ice jams (formation, growth, breakup).
   - Consider addition of remote cameras at known ice jam locations.
   - If safe, collection of a flow measurement during/immediately after ice jam events.

ii. Continued hydrometric monitoring at the WSC Station 09EB001, WSC Station 09EA003, and WRB Station 09EA006.

iii. Document (including photographs and high water mark surveys) peak conditions of flood events that occur in future years.

iv. Review and potentially update flow records during ice-affected periods (freeze-up, breakup) given the simplified trendline method currently applied by WSC and the implications of flow estimation during these time periods to FFA and AEP flow estimates.

v. Groundwater and seepage monitoring and modelling in adjacent areas – particularly the dredge reach – under high flows, given the observed impacts to areas not surface connected (but still impacted) during flood events.

vi. Consider mitigating flood hazards in ways which align with the Yukon's territory-wide approach to flood mitigation and emergency management.

vii. Consider unsteady river ice breakup analysis as tools become available to model the role of javes in peak breakup water levels.

viii. Conduct more detailed steady state simulations of the 1979 flood to ascertain if an equilibrium ice jam or an unsteady jave was responsible for this flood of record.

12 Summary

Stantec was retained by Yukon Government Water Resources Branch to perform the Dawson City & Klondike Valley Flood Mapping Study (the Project). The final outcome of the Project are flood hazard maps for the Yukon River (*Chu kon' dëk*) and the Klondike River (*Tr'ondëk*) valley within the Area of Interest. The study area is located within the Traditional Territory of the Tr'ondëk Hwëch'in.

This report is the Final Report for the Project, which documents the background data gathering, surveys, Digital Terrain Model (DTM) development, hydrologic assessment, river ice assessment, joint probability analysis, climate change and land cover change assessments, geomorphic assessments, hydraulic analysis, flood hazard mapping and a dike breach inundation anaylsis.

A hydrological assessment was completed to determine breakup and open water flood frequency estimates on the Klondike River and Yukon River. Single station flood frequency analyses were conducted to estimate discharges for the annual exceedance probabilities (AEPs) of 50%, 20%, 10%, 5%, 2%, 1%, 0.5%, and 0.2% for Water Survey of Canada (WSC) Stations 09EA003 (Klondike River Above Bonanza) and 09EB001 (Yukon River at Dawson) during the breakup and open water periods (Table E1).

Table E1 Results of Hydrologic Assessment

AEP	Klondike River Above Bonanza Peak Instantaneous Discharge (m^3/s)		Yukon River At Dawson Peak Instantaneous Discharge (m^3/s)	
	Breakup	Open Water	Breakup	Open Water
50% AEP (1:2-year event)	146	412	3,000	7,110
20% AEP (1:5-year event)	227	534	3,970	8,890
10% AEP (1:10-year event)	276	616	4,610	10,000
5% AEP (1:20-year event)	320	696	5,200	11,100
2% AEP (1:50-year event)	369	801	5,970	12,500
1% AEP (1:100-year event)	403	882	6,550	13,600
0.5% AEP (1:200-year event)	433	964	7,120	14,700
0.2% AEP (1:500-year event)	470	1,080	7,890	16,100

Flooding on the Klondike River can occur during open water flooding or from ice jamming. Ice jams have been documented at many locations along the Klondike River, and generate the highest water levels along at several locations within the AOI. Eleven dominant breakup jam locations which have historically governed flooding were identified and modelled in this study. Locations from these dominant ice jams on the Klondike River extend from approximately 2.5 km upstream of the confluence with the Yukon River to approximately 48 km upstream of the confluence at the Dempster Highway Corner, near the upstream end of the study area.

Flooding on the Yukon River can occur from open water or breakup ice jam conditions. Extreme flood events on the Yukon River are generally governed by breakup ice jam events although elevated open water flows may also cause flooding at less severe AEPs. Open water processes are responsible for flooding below the 15-year return period, whereas breakup ice jams are responsible for flood events above the 15-year return period. The lowest AEP being mapped in this Project is the 5-year return period and as such breakup ice jam and open water flood processes were considered in the flood hazard maps. Two breakup ice jam runs on the Yukon River were modelled as part of this Project.

Freeze-up jams have not historically been a driving flood process on the Klondike River or Yukon River at Dawson; however, elevated flows during freeze-up and colder than average winters may increase the probability of severe breakup ice jamming in the following spring.

The potential effect on climate change and land cover change on flood hydrology in the Klondike River valley and Yukon River at Dawson City watersheds was considered to determine appropriate factors of safety. The Klondike River flood hydrology is likely sensitive to changes to snowpack, rainfall, and temperatures (increases to these may increase flood flows), and the Yukon River flood hydrology is likely sensitive to snowpack and temperatures (increases to these may increase flood flows). The adopted climate change/land cover change factors of safety for this Project are:

- 1.4 (+40%) for the Klondike River watershed, including Flat Creek
- 1.3 (+30%) for the Yukon River

These Factors of Safety were applied to the 0.5% AEP flows to produce an additional set of model runs and corresponding set of flood hazard maps.

A one-dimensional (1D) HEC-RAS model was developed to perform the hydraulic analysis for the Study Area. A single integrated hydraulic model was used to simultaneously simulate hydraulic calculations in the Klondike River and the Yukon River. The results of the design AEP model runs were overlain to create a composite flood hazard inundation and WSE surface for that design AEP. The resulting composite design AEP inundations were considered representative of the overall flood hazard extent for the AEP.

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Appendices

Appendix A Photographic Inventory

Photographic Inventory Index

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79	Yukon River - transition to single channel, canyon-like morphology
80	Yukon River - 2017 breakup ice thickness
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131 - 133	Klondike River Bridge (Dempster Highway)
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Stantec

Photographic Log

Client:	**Government of Yukon Water Resources Branch**	**Project:**	**123222713 - Dawson City and Klondike Valley Flood Mapping Study**
Site Name:	**Klondike River, Yukon River**	**Site Location:**	**Varies**

Photograph ID: 1

Photo Location:
Klondike River

Direction:
Looking upstream from Klondike River Bridge (Dempster Highway)

Survey Date:
6/3/2024

Comments:
Typical Klondike River banks upstream of dredge reach: accessible floodplains and vegetated banks.

Photograph ID: 2

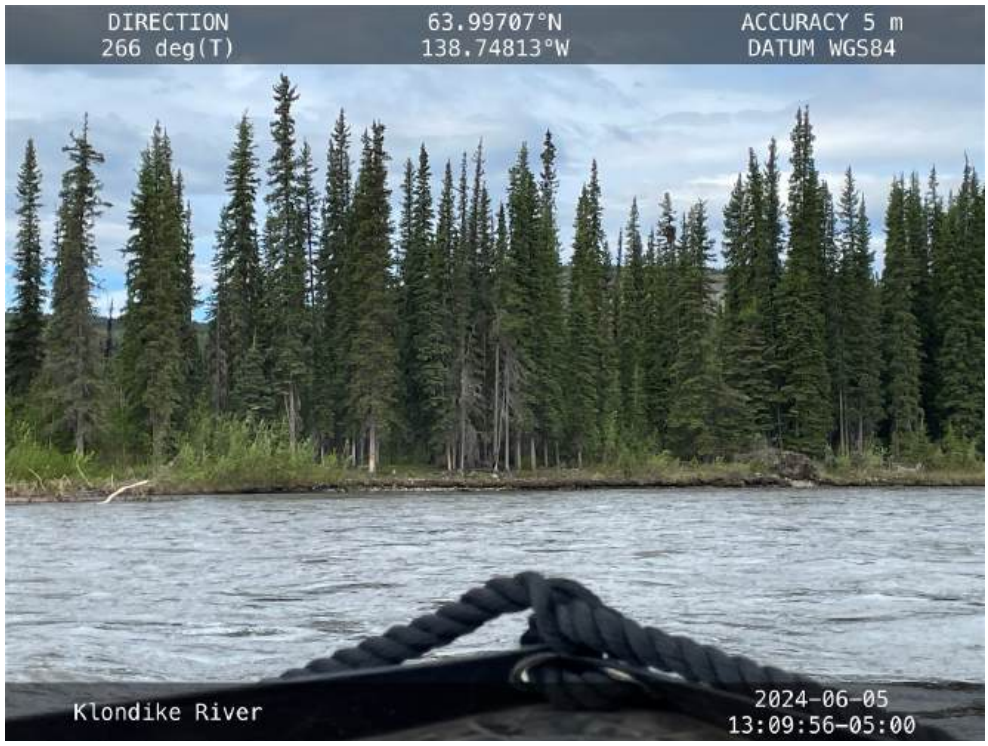
Photo Location:
Klondike River

Direction:
Right bank in natural reach upstream of dredge reach

Survey Date:
6/5/2024

Comments:
Occasional eroding banks present.

Client:	**Government of Yukon Water Resources Branch**	**Project:**	**123222713 - Dawson City and Klondike Valley Flood Mapping Study**
Site Name:	**Klondike River, Yukon River**	**Site Location:**	**Varies**

Photograph ID: 3	
Photo Location: Klondike River	
Direction: Bank in natural reach upstream of dredge reach	
Survey Date: 6/5/2024	
Comments: Typical low vegetated bank with ice scars on trees.	

Photograph ID: 4	
Photo Location: Klondike River	
Direction: Bank in natural reach upstream of dredge reach	
Survey Date: 6/5/2024	
Comments: Typical low vegetated bank with ice scars on trees.	

Client:	**Government of Yukon Water Resources Branch**	**Project:**	**123222713 - Dawson City and Klondike Valley Flood Mapping Study**
Site Name:	**Klondike River, Yukon River**	**Site Location:**	**Varies**

Photograph ID: 5 **Photo Location:** Klondike River **Direction:** Bank in natural reach upstream of dredge reach **Survey Date:** 6/3/2024 **Comments:** Example of ice scars on trees on bank.	
Photograph ID: 6 **Photo Location:** Klondike River **Direction:** Bank in natural reach upstream of dredge reach **Survey Date:** 6/5/2024 **Comments:** Typical occasional moderate erosion on elevated banks with large woody debris tangles.	

Client:	**Government of Yukon Water Resources Branch**	**Project:**	**123222713 - Dawson City and Klondike Valley Flood Mapping Study**
Site Name:	**Klondike River, Yukon River**	**Site Location:**	**Varies**

Photograph ID: 7 **Photo Location:** Klondike River **Direction:** Looking downstream **Survey Date:** 6/5/2024 **Comments:** Typical occasional large woody debris jams.	
Photograph ID: 8 **Photo Location:** Klondike River **Direction:** Natural reach upstream of dredge reach **Survey Date:** 6/5/2024 **Comments:** Typical low vegetated bank.	

Client:	**Government of Yukon Water Resources Branch**	**Project:**	**123222713 - Dawson City and Klondike Valley Flood Mapping Study**
Site Name:	**Klondike River, Yukon River**	**Site Location:**	**Varies**

Photograph ID: 9 **Photo Location:** Klondike River **Direction:** Natural reach upstream of dredge reach **Survey Date:** 6/5/2024 **Comments:** Typical low vegetated bank with large woody debris tangles at side channel inlets.	
Photograph ID: 10 **Photo Location:** Klondike River **Direction:** Bank in natural reach upstream of dredge reach **Survey Date:** 6/5/2024 **Comments:** Occasional bank scarp where river abuts elevated terrace or valley walls.	

Client:	**Government of Yukon Water Resources Branch**	**Project:**	**123222713 - Dawson City and Klondike Valley Flood Mapping Study**
Site Name:	**Klondike River, Yukon River**	**Site Location:**	**Varies**

Photograph ID: 11

Photo Location:
Klondike River

Direction:
Natural reach upstream of dredge reach

Survey Date:
6/5/2024

Comments:
Typical low vegetated bank.

Photograph ID: 12

Photo Location:
Klondike River

Direction:
Bank in natural reach upstream of dredge reach

Survey Date:
6/5/2024

Comments:
Typical occasional moderate erosion on elevated banks with large woody debris tangles; note cobble material underlying.

Client:	**Government of Yukon Water Resources Branch**	**Project:**	**123222713 - Dawson City and Klondike Valley Flood Mapping Study**
Site Name:	**Klondike River, Yukon River**	**Site Location:**	**Varies**

Photograph ID: 13	
Photo Location: Klondike River	
Direction: Looking downstream towards left bank and Klondike Highway at Slide Area	
Survey Date: 6/5/2024	
Comments:	

Photograph ID: 14	
Photo Location: Klondike River	
Direction: Looking downstream past left bank and Klondike Highway at Slide Area	
Survey Date: 6/5/2024	
Comments:	

Client:	**Government of Yukon Water Resources Branch**	**Project:**	**123222713 - Dawson City and Klondike Valley Flood Mapping Study**
Site Name:	**Klondike River, Yukon River**	**Site Location:**	**Varies**

Photograph ID: 15

Photo Location:
Klondike River

Direction:
Bank in natural reach upstream of dredge reach

Survey Date:
6/5/2024

Comments:
Typical low vegetated bank with ice scars on trees.

Photograph ID: 16

Photo Location:
Klondike River

Direction:
Natural reach upstream of dredge reach

Survey Date:
6/5/2024

Comments:
Example of medial bar inducing lateral flow.

Client:	**Government of Yukon Water Resources Branch**	**Project:**	**123222713 - Dawson City and Klondike Valley Flood Mapping Study**
Site Name:	**Klondike River, Yukon River**	**Site Location:**	**Varies**

Photograph ID: 17 **Photo Location:** Klondike River **Direction:** Natural reach upstream of dredge reach looking at left bank towards TH Farm **Survey Date:** 6/5/2024 **Comments:** Low bank providing floodplain access.	
Photograph ID: 18 **Photo Location:** Klondike River **Direction:** Natural reach upstream of dredge reach looking downstream **Survey Date:** 6/5/2024 **Comments:** Example of river abutting valley wall on right side.	

Client:	**Government of Yukon Water Resources Branch**	**Project:**	**123222713 - Dawson City and Klondike Valley Flood Mapping Study**
Site Name:	**Klondike River, Yukon River**	**Site Location:**	**Varies**

Photograph ID: 19 **Photo Location:** Klondike River **Direction:** Left bank in dredge reach **Survey Date:** 6/5/2024 **Comments:** Dredge pilings evident on left bank.	
Photograph ID: 20 **Photo Location:** Klondike River **Direction:** Left bank in dredge reach **Survey Date:** 6/5/2024 **Comments:** Typical low bank providing floodplain access.	

Client:	**Government of Yukon Water Resources Branch**	**Project:**	**123222713 - Dawson City and Klondike Valley Flood Mapping Study**
Site Name:	**Klondike River, Yukon River**	**Site Location:**	**Varies**

Photograph ID: 21

Photo Location:
Klondike River

Direction:
Looking downstream in dredge reach

Survey Date:
6/5/2024

Comments:
Typical occasional log jams within dredge reach.

Photograph ID: 22

Photo Location:
Klondike River

Direction:
Right bank in dredge reach

Survey Date:
6/5/2024

Comments:
Typical bank erosion where river abuts right valley wall confinement.

Client:	**Government of Yukon Water Resources Branch**	**Project:**	**123222713 - Dawson City and Klondike Valley Flood Mapping Study**
Site Name:	**Klondike River, Yukon River**	**Site Location:**	**Varies**

Photograph ID: 23 **Photo Location:** Klondike River **Direction:** Looking downstream in dredge reach **Survey Date:** 6/5/2024 **Comments:** Dredge piles evident on left bank.	
Photograph ID: 24 **Photo Location:** Klondike River **Direction:** Looking downstream at swimming hole avulsion in dredge reach **Survey Date:** 6/3/2024 **Comments:**	

Client:	**Government of Yukon Water Resources Branch**	**Project:**	**123222713 - Dawson City and Klondike Valley Flood Mapping Study**
Site Name:	**Klondike River, Yukon River**	**Site Location:**	**Varies**

Photograph ID: 25 **Photo Location:** Klondike River **Direction:** Looking downstream at swimming hole avulsion in dredge reach **Survey Date:** 6/3/2024 **Comments:** Channel formerly was located to far right of photo. Avulsion represented in current photo.	
Photograph ID: 26 **Photo Location:** Klondike River **Direction:** Looking upstream at swimming hole avulsion in dredge reach **Survey Date:** 6/3/2024 **Comments:**	

Client:	**Government of Yukon Water Resources Branch**	**Project:**	**123222713 - Dawson City and Klondike Valley Flood Mapping Study**
Site Name:	**Klondike River, Yukon River**	**Site Location:**	**Varies**

Photograph ID: 27 **Photo Location:** Klondike River **Direction:** Left bank in dredge reach **Survey Date:** 6/5/2024 **Comments:** Exposed cobble banks typical within dredge reach.	
Photograph ID: 28 **Photo Location:** Klondike River **Direction:** Right bank in dredge reach **Survey Date:** 6/5/2024 **Comments:** Typical bank erosion where river abuts right valley wall confinement.	

Client:	**Government of Yukon Water Resources Branch**	**Project:**	**123222713 - Dawson City and Klondike Valley Flood Mapping Study**
Site Name:	**Klondike River, Yukon River**	**Site Location:**	**Varies**

Photograph ID: 29

Photo Location:
Klondike River

Direction:
Right bank in dredge reach

Survey Date:
6/5/2024

Comments:
Bedrock right valley wall.

Photograph ID: 30

Photo Location:
Klondike River

Direction:
Looking downstream in dredge reach downstream of Klondike River Bridge (Klondike Highway) at shallow braided portion adjacent to C4 Subdivision

Survey Date:
6/5/2024

Comments:
Approximate location of C4 Subdivision jam toe.

Client:	**Government of Yukon Water Resources Branch**	**Project:**	**123222713 - Dawson City and Klondike Valley Flood Mapping Study**
Site Name:	**Klondike River, Yukon River**	**Site Location:**	**Varies**

Photograph ID: 31

Photo Location:
Klondike River

Direction:
Looking downstream at confluence of Klondike River with Yukon River

Survey Date:
6/5/2024

Comments:
Braided delta-type morphology at confluence.

Client:	**Government of Yukon Water Resources Branch**	**Project:**	**123222713 - Dawson City and Klondike Valley Flood Mapping Study**
Site Name:	**Klondike River, Yukon River**	**Site Location:**	**Varies**

Photograph ID: 32

Photo Location:
Klondike River

Direction:
Looking downstream at the Ogilvie Bridge (near the location of the current Klondike River Bridge - Klondike Highway)

Survey Date: Unknown

Comments:
Photo courtesy Dawson City Museum. Caption from Dawson Museum Archives: Black and white view of the break-up of the Klondike River. Several very large bergs of ice are threatening the Ogilvie Bridge. Inscription recto: The Ice Jam at the Ogilvie Bridge May the 7, 1910. Photo by J. Doody. Notes: Ogilvie bridge collapsed in 1959; current Klondike Highway bridge location is near the Ogilvie Bridge location.

Client:	**Government of Yukon Water Resources Branch**	**Project:**	**123222713 - Dawson City and Klondike Valley Flood Mapping Study**
Site Name:	**Klondike River, Yukon River**	**Site Location:**	**Varies**

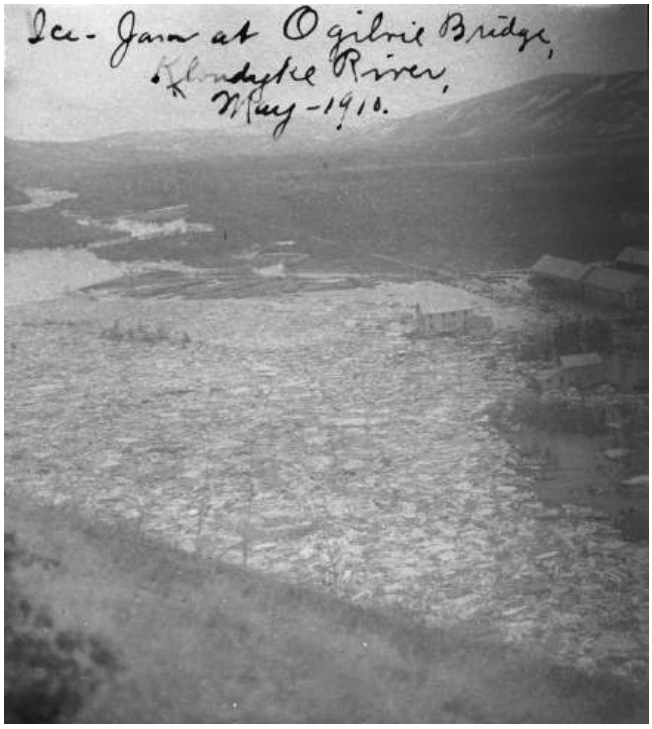
Photograph ID: 33

Photo Location:
Klondike River

Direction:
Looking upstream from the Dome, upstream of the Ogilvie Bridge (near the location of the current Klondike River Bridge - Klondike Highway)

Survey Date: Unknown

Comments:
Photo courtesy Dawson City Museum. Caption from Dawson Museum Archives: Inscription: Ice Jam at Ogilvie Bridge, Klondyke River, May – 1910. Ice floes jamming during the break-up of the Klondike River near the Ogilvie Bridge. Nearby buildings are surrounded by ice and flooding water.



Client:	**Government of Yukon Water Resources Branch**	**Project:**	**123222713 - Dawson City and Klondike Valley Flood Mapping Study**
Site Name:	**Klondike River, Yukon River**	**Site Location:**	**Varies**

Photograph ID: 34

Photo Location:
Klondike River

Direction:
Looking at the Ogilvie Bridge (near the location of the current Klondike River Bridge - Klondike Highway) from the Dome

Survey Date: Unknown

Comments:
Photo courtesy Dawson City Museum. Caption from Dawson Museum Archives: A group of people sit on a hillside overlooking the break-up of the Klondike River beneath a truss (Ogilvie) bridge. An ice jam has caused flooding in the surrounding area with waters rising around buildings. Notes: undated photo, based on photo series collection is believed to be 1910.

Client:	**Government of Yukon Water Resources Branch**	**Project:**	**123222713 - Dawson City and Klondike Valley Flood Mapping Study**
Site Name:	**Klondike River, Yukon River**	**Site Location:**	**Varies**

Photograph ID: 35

Photo Location:
Klondike River

Direction:
Looking upstream from the Dome, upstream of the Ogilvie Bridge (near the location of the current Klondike River Bridge - Klondike Highway)

Survey Date: Unknown

Comments:
Photo courtesy Dawson City Museum. Caption from Dawson Museum Archives: "Ice Jam on Klondyke River, Above Ogilvie bridge. May 1911“ facing upriver from Dawson.

Photograph ID: 36

Photo Location:
Klondike River

Direction:
Looking downstream towards the Yukon River

Survey Date: Unknown

Comments:
Photo courtesy Dawson City Museum. Caption from Dawson Museum Archives: View of an ice jam being dynamited. Notes: undated photo; bridge in background may be Klondike Mines Railway Bridge.

Client:	**Government of Yukon Water Resources Branch**	**Project:**	**123222713 - Dawson City and Klondike Valley Flood Mapping Study**
Site Name:	**Klondike River, Yukon River**	**Site Location:**	**Varies**

Photograph ID: 37

Photo Location:
Klondike River

Direction:
Looking downstream (west) at the breakup jam toe location.

Survey Date: Unknown

Comments:
1986 breakup ice jam on the Klondike River downstream of the Klondike River Bridge (Klondike Highway). Present day C4 subdivision would be on river right in midpoint of photo. Breakup ice jam toe located at upstream end of braided section adjacent to present day C4 subdivision. Photo courtesy of Government of Yukon.

Client:	**Government of Yukon Water Resources Branch**	**Project:**	**123222713 - Dawson City and Klondike Valley Flood Mapping Study**
Site Name:	**Klondike River, Yukon River**	**Site Location:**	**Varies**

Photograph ID: 38

Photo Location:
Klondike River

Direction:
Looking west at overtopping of the Klondike Highway downstream (west) of the Klondike River Bridge (Klondike Highway)

Survey Date: Unknown

Comments:
1986 breakup ice jam on the Klondike River downstream of the Klondike River Bridge (Klondike Highway). Spilling over Klondike Highway. Photo courtesy of Government of Yukon.

Photograph ID: 39

Photo Location:
Klondike River

Direction:
Looking west (downstream) at the breakup jam head location

Survey Date: Unknown

Comments:
1986 breakup ice jam on the Klondike River downstream of the Klondike River Bridge (Klondike Highway). Breakup jam head location is estimated to be ~300 m upstream of the Klondike River Bridge (Klondike Highway). Photo courtesy of Government of Yukon.

Client:	**Government of Yukon Water Resources Branch**	**Project:**	**123222713 - Dawson City and Klondike Valley Flood Mapping Study**
Site Name:	**Klondike River, Yukon River**	**Site Location:**	**Varies**

Photograph ID: 40 **Photo Location:** Klondike River **Direction:** Looking slightly upstream from flight **Survey Date:** 5/7/2023 **Comments:** May 7, 2023 ice jam with toe at C4 Subdivision location and extending upstream of the Klondike River Bridge (Klondike Highway).	
Photograph ID: 41 **Photo Location:** Klondike River **Direction:** Looking upstream from Klondike River Bridge (Klondike Highway) **Survey Date:** 5/7/2023 **Comments:** May 7, 2023 ice jam at Klondike River Bridge (Klondike Highway).	

Client:	**Government of Yukon Water Resources Branch**	**Project:**	**123222713 - Dawson City and Klondike Valley Flood Mapping Study**
Site Name:	**Klondike River, Yukon River**	**Site Location:**	**Varies**

Photograph ID: 42 **Photo Location:** Klondike River **Direction:** Looking at downstream at Klondike River Bridge (Klondike Highway) from right bank **Survey Date:** 5/7/2023 **Comments:** May 7, 2023 ice jam at Klondike River Bridge (Klondike Highway).	
Photograph ID: 43 **Photo Location:** Klondike River **Direction:** Looking at downstream from Klondike River Bridge (Klondike Highway) **Survey Date:** 5/7/2023 **Comments:** May 7, 2023 ice jam downstream of Klondike River Bridge (Klondike Highway).	

Client:	**Government of Yukon Water Resources Branch**	**Project:**	**123222713 - Dawson City and Klondike Valley Flood Mapping Study**
Site Name:	**Klondike River, Yukon River**	**Site Location:**	**Varies**

Photograph ID: 44 **Photo Location:** Klondike River **Direction:** From flight **Survey Date:** 5/8/2023 **Comments:** May 8, 2023 ice jam at Rock Creek.	
Photograph ID: 45 **Photo Location:** Klondike River **Direction:** From flight **Survey Date:** 5/8/2023 **Comments:** May 8, 2023 ice jam at Rock Creek.	

Client:	**Government of Yukon Water Resources Branch**	**Project:**	**123222713 - Dawson City and Klondike Valley Flood Mapping Study**
Site Name:	**Klondike River, Yukon River**	**Site Location:**	**Varies**

Photograph ID: 46 **Photo Location:** Klondike River **Direction:** From flight **Survey Date:** 5/8/2023 **Comments:** May 8, 2023 ice jam at Rock Creek.	
Photograph ID: 47 **Photo Location:** Klondike River **Direction:** From flight **Survey Date:** 5/8/2023 **Comments:** May 8, 2023 ice jam at Rock Creek. Looking at Water Survey of Canada Station 09EB003 location (time: 12:17 pm).	

Client:	**Government of Yukon Water Resources Branch**	**Project:**	**123222713 - Dawson City and Klondike Valley Flood Mapping Study**
Site Name:	**Klondike River, Yukon River**	**Site Location:**	**Varies**

Photograph ID: 48 **Photo Location:** Klondike River **Direction:** From flight **Survey Date:** 5/8/2023 **Comments:** May 8, 2023 ice jam at Rock Creek.	
Photograph ID: 49 **Photo Location:** Klondike River **Direction:** From flight **Survey Date:** 5/11/2023 **Comments:** May 11, 2023 ice jam at Hendersons Corner; spilling over highway evident.	

Client:	**Government of Yukon Water Resources Branch**	**Project:**	**123222713 - Dawson City and Klondike Valley Flood Mapping Study**
Site Name:	**Klondike River, Yukon River**	**Site Location:**	**Varies**

Photograph ID: 50 **Photo Location:** Klondike River **Direction:** From flight **Survey Date:** 5/11/2023 **Comments:** May 11, 2023 ice jam at Hendersons Corner; spilling over highway evident.	
Photograph ID: 51 **Photo Location:** Klondike River **Direction:** From flight **Survey Date:** 5/11/2023 **Comments:** May 11, 2023 ice jam at Hendersons Corner; spilling over highway evident.	

Client:	**Government of Yukon Water Resources Branch**	**Project:**	**123222713 - Dawson City and Klondike Valley Flood Mapping Study**
Site Name:	**Klondike River, Yukon River**	**Site Location:**	**Varies**

Photograph ID: 52 **Photo Location:** Klondike River **Direction:** From flight **Survey Date:** 5/12/2023 **Comments:** May 12, 2023 ice jam at TH Farm.	
Photograph ID: 53 **Photo Location:** Klondike River **Direction:** From flight **Survey Date:** 5/12/2023 **Comments:** May 12, 2023 ice jam at TH Farm.	

Client:	**Government of Yukon Water Resources Branch**	**Project:**	**123222713 - Dawson City and Klondike Valley Flood Mapping Study**
Site Name:	**Klondike River, Yukon River**	**Site Location:**	**Varies**

Photograph ID: 54

Photo Location:
Klondike River

Direction:
From flight

Survey Date:
5/12/2023

Comments:
May 12, 2023 ice jam at TH Farm.

Photograph ID: 55

Photo Location:
Yukon River

Direction:
Looking downstream from upstream end of AOI

Survey Date:
6/4/2024

Comments:
Vegetated accessible floodplain on left side of channel, vegetated valley wall on right side of channel.

Client:	**Government of Yukon Water Resources Branch**	**Project:**	**123222713 - Dawson City and Klondike Valley Flood Mapping Study**
Site Name:	**Klondike River, Yukon River**	**Site Location:**	**Varies**

Photograph ID: 56

Photo Location:
Yukon River

Direction:
Looking at left bank in upper portion of AOI, upstream of Dawson

Survey Date:
6/4/2024

Comments:
Large woody debris tangles occasionally present on banks.

Photograph ID: 57

Photo Location:
Yukon River

Direction:
Looking downstream and island in upper portion of AOI, upstream of Dawson

Survey Date:
6/4/2024

Comments:
Vegetated accessible floodplain on left side of channel.

Client:	**Government of Yukon Water Resources Branch**	**Project:**	**123222713 - Dawson City and Klondike Valley Flood Mapping Study**
Site Name:	**Klondike River, Yukon River**	**Site Location:**	**Varies**

Photograph ID: 58

Photo Location:
Yukon River

Direction:
Looking downstream in upper portion of AOI, upstream of Dawson

Survey Date:
6/4/2024

Comments:
Vegetated accessible floodplain on left side of channel, vegetated valley wall on right side of channel.

Photograph ID: 59

Photo Location:
Yukon River

Direction:
Looking downstream at bank of mid-channel island in upper portion of AOI, upstream of Dawson

Survey Date:
6/4/2024

Comments:
Eroding bank on island contributing suspended sediment and large woody debris.

Client:	**Government of Yukon Water Resources Branch**	**Project:**	**123222713 - Dawson City and Klondike Valley Flood Mapping Study**
Site Name:	**Klondike River, Yukon River**	**Site Location:**	**Varies**

Photograph ID: 60

Photo Location:
Yukon River

Direction:
Looking at left bank in upper portion of AOI, upstream of Dawson

Survey Date:
6/4/2024

Comments:
Eroding bank on island contributing suspended sediment and large woody debris.

Photograph ID: 61

Photo Location:
Yukon River

Direction:
Looking at right bank in upper portion of AOI, upstream of Dawson

Survey Date:
6/4/2024

Comments:
Slide on valley wall on right bank contributing sediment and large woody debris.

Client:	**Government of Yukon Water Resources Branch**	**Project:**	**123222713 - Dawson City and Klondike Valley Flood Mapping Study**
Site Name:	**Klondike River, Yukon River**	**Site Location:**	**Varies**

Photograph ID: 62 **Photo Location:** Yukon River **Direction:** Looking downstream in upper portion of AOI, upstream of Dawson **Survey Date:** 6/4/2024 **Comments:** Valley confinement and lack of floodplain becoming more prevalent as approach Dawson.	
Photograph ID: 63 **Photo Location:** Yukon River **Direction:** Looking downstream in upper portion of AOI, upstream of Dawson **Survey Date:** 6/4/2024 **Comments:** Valley confinement and lack of floodplain becoming more prevalent as approach Dawson.	

Client:	**Government of Yukon Water Resources Branch**	**Project:**	**123222713 - Dawson City and Klondike Valley Flood Mapping Study**
Site Name:	**Klondike River, Yukon River**	**Site Location:**	**Varies**

Photograph ID: 64

Photo Location:
Yukon River

Direction:
Looking downstream at confluence of Klondike River with Yukon River

Survey Date:
6/4/2024

Comments:
Upstream (south) end of Dawson City visible.

Photograph ID: 65

Photo Location:
Yukon River

Direction:
Looking downstream at left bank across from Dawson

Survey Date:
6/4/2024

Comments:
Steep bank opposite Dawson.

Client:	**Government of Yukon Water Resources Branch**	**Project:**	**123222713 - Dawson City and Klondike Valley Flood Mapping Study**
Site Name:	**Klondike River, Yukon River**	**Site Location:**	**Varies**

Photograph ID: 66

Photo Location:
Yukon River

Direction:
Looking downstream at right bank and Dawson downstream of confluence

Survey Date:
6/4/2024

Comments:
Dawson, dike, and slide visible.

Photograph ID: 67

Photo Location:
Yukon River

Direction:
Looking at left bank across from Dawson

Survey Date:
6/4/2024

Comments:
Bank consists of bedrock and large cobble/ boulders.

Client:	**Government of Yukon Water Resources Branch**	**Project:**	**123222713 - Dawson City and Klondike Valley Flood Mapping Study**
Site Name:	**Klondike River, Yukon River**	**Site Location:**	**Varies**

Photograph ID: 68

Photo Location:
Yukon River

Direction:
Looking downstream at right bank at Dawson

Survey Date:
6/4/2024

Comments:
Boat launch and Dawson George Black ferry launch visible.

Photograph ID: 69

Photo Location:
Yukon River

Direction:
Looking at right bank towards Dawson City

Survey Date:
6/4/2024

Comments:
Dawson City; dike on bank.

Client:	**Government of Yukon Water Resources Branch**	**Project:**	**123222713 - Dawson City and Klondike Valley Flood Mapping Study**
Site Name:	**Klondike River, Yukon River**	**Site Location:**	**Varies**

Photograph ID: 70

Photo Location:
Yukon River

Direction:
Looking downstream from adjacent to Dawson

Survey Date:
6/4/2024

Comments:
West Dawson George Black ferry launch visible on left bank.

Photograph ID: 71

Photo Location:
Yukon River

Direction:
Looking downtream from downstream of Dawson

Survey Date:
6/4/2024

Comments:
Steep bedrock bank on right.

Client:	**Government of Yukon Water Resources Branch**	**Project:**	**123222713 - Dawson City and Klondike Valley Flood Mapping Study**
Site Name:	**Klondike River, Yukon River**	**Site Location:**	**Varies**

Photograph ID: 72

Photo Location:
Yukon River

Direction:
Looking downtream from downstream of Dawson

Survey Date:
6/4/2024

Comments:
Dog Island and Sister Island visible.

Photograph ID: 73

Photo Location:
Yukon River

Direction:
Looking at right bank in lower portion of AOI, downstream of Dawson

Survey Date:
6/4/2024

Comments:
Well vegetated bank, lack of substantial floodplain.

Client:	**Government of Yukon Water Resources Branch**	**Project:**	**123222713 - Dawson City and Klondike Valley Flood Mapping Study**
Site Name:	**Klondike River, Yukon River**	**Site Location:**	**Varies**

Photograph ID: 74

Photo Location:
Yukon River

Direction:
Looking downstream in lower portion of AOI, downstream of Dawson

Survey Date:
6/4/2024

Comments:
Dog Island and Sister Island on left/downstream; Moosehide on right.

Photograph ID: 75

Photo Location:
Yukon River

Direction:
Looking downstream at left bank in lower portion of AOI, downstream of Dawson

Survey Date:
6/4/2024

Comments:
Dog Island and Sister Island visible; vegetated steep left bank, lack of substantial floodplain.

Client:	**Government of Yukon Water Resources Branch**	**Project:**	**123222713 - Dawson City and Klondike Valley Flood Mapping Study**
Site Name:	**Klondike River, Yukon River**	**Site Location:**	**Varies**

Photograph ID: 76

Photo Location:
Yukon River

Direction:
Looking at right bank in lower portion of AOI, downstream of Dawson

Survey Date:
6/4/2024

Comments:
Moosehide

Photograph ID: 77

Photo Location:
Yukon River

Direction:
Looking downstream from downstream end of AOI

Survey Date:
6/4/2024

Comments:
Confined single channel morphology downstream of Fort Reliance is visible in rear of photo.

Client:	**Government of Yukon Water Resources Branch**	**Project:**	**123222713 - Dawson City and Klondike Valley Flood Mapping Study**
Site Name:	**Klondike River, Yukon River**	**Site Location:**	**Varies**

Photograph ID: 78

Photo Location:
Location of present day Dawson City

Direction:
Looking west from the Dome

Survey Date: Unknown

Comments:
Looking West at Location of Current Day Dawson in Pre-Development State (1896). Photo Courtesy Dawson City Museum.

Photograph ID: 79

Photo Location:
Yukon River

Direction:
Looking north (downstream) at at morphology transition from main channel with islands (foreground) to single channel, canyon-like morphology downstream of Fort Reliance (background)

Survey Date: Unknown

Comments:
Photo courtesy of Indigenous Yukon: Dawson City (https://indigenousyukon.ca/places-to-go/dawson-city)

Client:	**Government of Yukon Water Resources Branch**	**Project:**	**123222713 - Dawson City and Klondike Valley Flood Mapping Study**
Site Name:	**Klondike River, Yukon River**	**Site Location:**	**Varies**

Photograph ID: 80

Photo Location:
Yukon River

Direction:
Unkown

Survey Date: 5/5/2017

Comments:
Ice thickness on banks during Yukon River breakup on May 5, 2017. Photo courtesy of Government of Yukon.

Photograph ID: 81

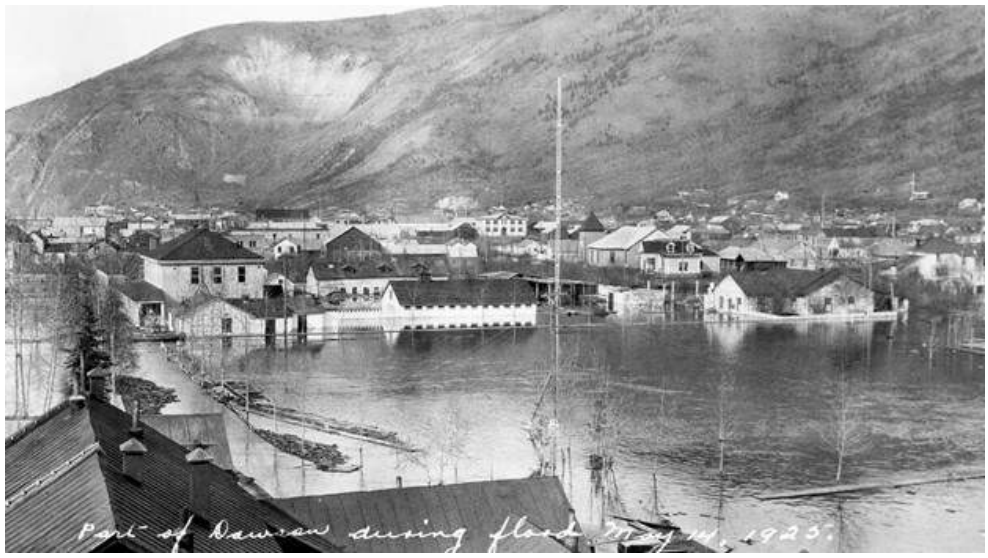
Photo Location:
Yukon River

Direction:
From flight looking downtream towards Dawson City

Survey Date:
5/8/2023

Comments:
May 8, 2023 local breakup of Yukon River being initiated by Klondike River breakup.

Client:	**Government of Yukon Water Resources Branch**	**Project:**	**123222713 - Dawson City and Klondike Valley Flood Mapping Study**
Site Name:	**Klondike River, Yukon River**	**Site Location:**	**Varies**

Photograph ID: 82 **Photo Location:** Dawson City **Direction:** Looking north at Dawson **Survey Date:** 5/14/1925 **Comments:** Photo courtesy University of Calgary. 1925 was first photographed flood event in Dawson.	
Photograph ID: 83 **Photo Location:** Dawson City **Direction:** Looking south on Front Street from Duke Street **Survey Date:** Unknown **Comments:** Photo courtesy of Dawson City Museum. Caption from Dawson Museum Archives: Photograph taken looking south on Front Street from Duke Street. Inscription recto: Dawson Y.T. May 1925.	

Client:	**Government of Yukon Water Resources Branch**	**Project:**	**123222713 - Dawson City and Klondike Valley Flood Mapping Study**
Site Name:	**Klondike River, Yukon River**	**Site Location:**	**Varies**

Photograph ID: 84

Photo Location:
Dawson City

Direction:
Looking south along Fifth Avenue from Church Street

Survey Date: Unknown

Comments:
Photo courtesy of Dawson City Museum. Caption from Dawson Museum Archives: Photograph taken looking south along Fifth Avenue from Church Street at the Territorial Administration Building and surrounding grounds. Note: It appears that the inscription "Flood May 1925, Dawson, Y.T." has been scratched backwards on this print. See 1984.116.14, same photo but printed correctly.

Photograph ID: 85

Photo Location:
Dawson City

Direction:
Looking south across Klondike River at confluence with Yukon River

Survey Date: Unknown

Comments:
Photo courtesy of Dawson City Museum. Caption from Dawson Museum Archives: The Klondike River in flood conditions. The Klondike Mines Railway Bridge during the flood of 1925.

Client:	**Government of Yukon Water Resources Branch**	**Project:**	**123222713 - Dawson City and Klondike Valley Flood Mapping Study**
Site Name:	**Klondike River, Yukon River**	**Site Location:**	**Varies**

Photograph ID: 86 **Photo Location:** Dawson City **Direction:** Looking northwest along Fifth Avenue **Survey Date:** Unknown **Comments:** Photo courtesy of Dawson City Museum. Caption from Dawson Museum Archives: Looking northwest along Fifth Avenue during the flood in 1925. The Territorial Administration Building on the right, and Commanding Officer's house of the Northwest Mounted Police of the left. Dawson Public School can be seen in the distance.	
Photograph ID: 87 **Photo Location:** Dawson City **Direction:** Looking west across Yukon River in wide angle view of South Dawson **Survey Date:** Unknown **Comments:** Photo courtesy of Dawson City Museum. Caption from Dawson Museum Archives: Wide angle view of South Dawson during the flood of 1925, photo taken from the hill behind town. Court house is visible.	

Client:	**Government of Yukon Water Resources Branch**	**Project:**	**123222713 - Dawson City and Klondike Valley Flood Mapping Study**
Site Name:	**Klondike River, Yukon River**	**Site Location:**	**Varies**

Photograph ID: 88	
Photo Location: Dawson City	
Direction: View of Dawson taken from Crocus Bluff looking north	
Survey Date: Unknown	
Comments: Photo courtesy of Dawson City Museum. Caption from Dawson Museum Archives: View of Dawson taken from Crocus Bluff looking north during the flood of 1925. The Territorial Administration Building can be seen with flood waters surrounding it. Inscription verso: Dawson's view from the hill.	

Photograph ID: 89	
Photo Location: Dawson City	
Direction: Looking west across Yukon River in wide angle view of South Dawson	
Survey Date: Unknown	
Comments: Photo courtesy of Dawson City Museum. Caption from Dawson Museum Archives: View of Dawson taken during the 1925 flood. Photo is taken from Crocus Bluff. Shows the Klondike Mines Railway bridge that went from Dawson to Klondike City.	

Client:	**Government of Yukon Water Resources Branch**	**Project:**	**123222713 - Dawson City and Klondike Valley Flood Mapping Study**
Site Name:	**Klondike River, Yukon River**	**Site Location:**	**Varies**

Photograph ID: 90

Photo Location:
Dawson City

Direction:
Looking south along Fifth Avenue near the Territorial Administration Building and Commissioner's Residence.

Survey Date: Unknown

Comments:
Photo courtesy of Dawson City Museum. Caption from Dawson Museum Archives: Photograph of Flood of 1936. Looking south along Fifth Avenue near the Territorial Administration Building and Commissioner's Residence.

Photograph ID: 91

Photo Location:
Dawson City

Direction:
looded ground, government reserve, Dawson (near Old Court House).

Survey Date: Unknown

Comments:
Photo courtesy of Dawson City Museum. Caption from Dawson Museum Archives: Photograph of Flood of 1936. Flooded ground, government reserve, Dawson (near Old Court House).

Client:	**Government of Yukon Water Resources Branch**	**Project:**	**123222713 - Dawson City and Klondike Valley Flood Mapping Study**
Site Name:	**Klondike River, Yukon River**	**Site Location:**	**Varies**

Photograph ID: 92

Photo Location:
Dawson City

Direction:
From the second floor of Winaut's Store looking down to Second Avenue.

Survey Date: Unknown

Comments:
Photo courtesy of Dawson City Museum. Caption from Dawson Museum Archives: Photograph of a flood taken from the second floor of Winaut's Store looking down to Second Avenue. Bank of Montreal visible in right corner. Two trucks in foreground. Water has not yet receded. Inscription verso: Flood 1944 - 2nd. Ave. taken from upstairs Winauts Store - at peak Winauts Store had water to top of counters.

Client:	**Government of Yukon Water Resources Branch**	**Project:**	**123222713 - Dawson City and Klondike Valley Flood Mapping Study**
Site Name:	**Klondike River, Yukon River**	**Site Location:**	**Varies**

Photograph ID: 93

Photo Location:
Dawson City

Direction:
Looking south along Front Street

Survey Date: Unknown

Comments:
Photo courtesy of Dawson City Museum. Caption from Dawson Museum Archives: Another excellent view of the damage caused by the 1944 flood. Ice and debris are piled up to buildings on Front Street including the Bank of Commerce.

Photograph ID: 94

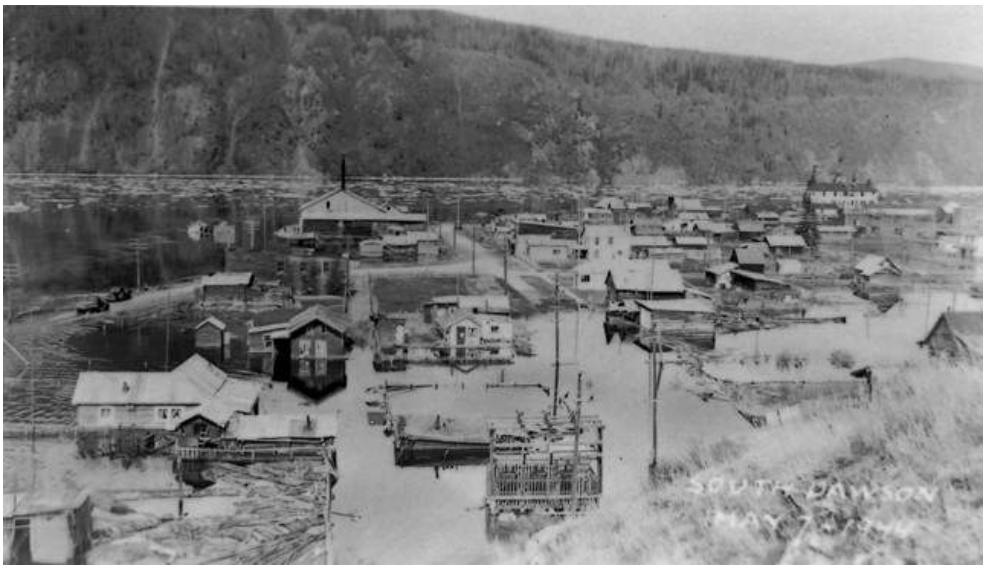
Photo Location:
Dawson City

Direction:
Looking south along Front Street

Survey Date: Unknown

Comments:
Photo courtesy of Dawson City Museum. Caption from Dawson Museum Archives: A view of the extensive damage caused by the flood of 1944. Ice from the river is deposited well into Front Street.

Client:	**Government of Yukon Water Resources Branch**	**Project:**	**123222713 - Dawson City and Klondike Valley Flood Mapping Study**
Site Name:	**Klondike River, Yukon River**	**Site Location:**	**Varies**

Photograph ID: 95 **Photo Location:** Dawson City **Direction:** Looking north along Front and Queen Streets **Survey Date:** Unknown **Comments:** Photo courtesy of Dawson City Museum. Caption from Dawson Museum Archives: Photograph of corner of Front and Queen Streets during the flood of May 7, 1944.	
Photograph ID: 96 **Photo Location:** Dawson City **Direction:** Looking west across Yukon River and south Dawson **Survey Date:** 5/7/1944 **Comments:** Photo courtesy of Dawson City Museum. Caption from Dawson Museum Archives: Photograph of south Dawson, looking westward during the flood of 1944.	

Client:	**Government of Yukon Water Resources Branch**	**Project:**	**123222713 - Dawson City and Klondike Valley Flood Mapping Study**
Site Name:	**Klondike River, Yukon River**	**Site Location:**	**Varies**

Photograph ID: 97

Photo Location:
Dawson City

Direction:
Looking south on Third Avenue between Princess and Harper Streets

Survey Date: 5/7/1944

Comments:
Photo courtesy of Dawson City Museum. Caption from Dawson Museum Archives: Photograph taken looking south on Third Avenue between Princess and Harper Streets, shows the flood of 1944. Water has not yet receded. First building on the right, sign reads: "P.C.M. Rangers No. 135 COY." Third building on the right, sign reads: "Guns Ammunition Hardware Tobacco Furniture Crockery Clothing Tents."

Client:	**Government of Yukon Water Resources Branch**	**Project:**	**123222713 - Dawson City and Klondike Valley Flood Mapping Study**
Site Name:	**Klondike River, Yukon River**	**Site Location:**	**Varies**

Photograph ID: 98

Photo Location:
Dawson City

Direction:
Looking from the south end of Front Street towards Crocus Bluff

Survey Date: Unknown

Comments:
Photo courtesy of Dawson City Museum. Caption from Dawson Museum Archives: A photo looking from the south end of Front Street towards Crocus Bluff, during the flood of 1944. The water has not yet receded. Four log cabins are visible on the hillside. Same as 1984.110.14.

Photograph ID: 99

Photo Location:
Dawson City

Direction:
Looking north along Second Avenue

Survey Date: Unknown

Comments:
Photo courtesy of Dawson City Museum. Caption from Dawson Museum Archives: Colour view of Second Avenue. Dawson Flood. Caption: Second Avenue Looking North June 1964.

Client:	**Government of Yukon Water Resources Branch**	**Project:**	**123222713 - Dawson City and Klondike Valley Flood Mapping Study**
Site Name:	**Klondike River, Yukon River**	**Site Location:**	**Varies**

Photograph ID: 100

Photo Location:
Dawson City

Direction:
Looking south along Second Avenue

Survey Date: Unknown

Comments:
Photo courtesy of Dawson City Museum. Caption from Dawson Museum Archives: Somewhat damaged colour view of Second Avenue looking south. Dawson Flood. Caption: Second Avenue Looking South June 1964.

Photograph ID: 101

Photo Location:
Dawson City

Direction:
Looking at residence of powerplant foreman

Survey Date: Unknown

Comments:
Photo courtesy of Dawson City Museum. Caption from Dawson Museum Archives: Colour view of the foreman for the powerplant residence during the flood of 1964. Identified by John Butterworth.

Client:	**Government of Yukon Water Resources Branch**	**Project:**	**123222713 - Dawson City and Klondike Valley Flood Mapping Study**
Site Name:	**Klondike River, Yukon River**	**Site Location:**	**Varies**

Photograph ID: 102	
Photo Location: Dawson City	
Direction: Looking north along Front Street	
Survey Date: Unknown	
Comments: Photo courtesy of Dawson City Museum. Caption from Dawson Museum Archives: Somewhat damaged colour view of the Yukon River and large chunks of ice. The British Yukon Navigation Company building is visible at center. Caption: May 11 1966 Dawson City Flood.	
Photograph ID: 103	
Photo Location: Dawson City	
Direction: Looking south across Klondike River at confluence with Yukon River	
Survey Date: Unknown	
Comments: Photo courtesy of Dawson City Museum. Caption from Dawson Museum Archives: Photo of the mouth of the Klondike River, looking up the Yukon River during the flood of 1979.	

Client:	**Government of Yukon Water Resources Branch**	**Project:**	**123222713 - Dawson City and Klondike Valley Flood Mapping Study**
Site Name:	**Klondike River, Yukon River**	**Site Location:**	**Varies**

Photograph ID: 104

Photo Location:
Dawson City

Direction:
Looking west from the northwest corner of Seventh Avenue and Dugas Street

Survey Date: Unknown

Comments:
Photo courtesy of Dawson City Museum. Caption from Dawson Museum Archives: View of Eighth Avenue and Dugas Street during flood of 1979. Picture was taken from the northwest corner of Seventh Avenue and Dugas Street . Water has not receded and roads and houses are still under water.

Client:	**Government of Yukon Water Resources Branch**	**Project:**	**123222713 - Dawson City and Klondike Valley Flood Mapping Study**
Site Name:	**Klondike River, Yukon River**	**Site Location:**	**Varies**

Photograph ID: 105

Photo Location:
Dawson City

Direction:
Looking north along Front Street

Survey Date: Unknown

Comments:
Photo courtesy of Dawson City Museum. Caption from Dawson Museum Archives: Photo of Front Street looking north from the Commissioner's Residence. Ice in the Yukon River is level with the road. The Bank of Commerce is visible as is the Yukon Hotel. Notes: presumed to be 1979, based on photo series collection.

Photograph ID: 106

Photo Location:
Dawson City

Direction:
Looking north along Front Street

Survey Date: Unknown

Comments:
Photo courtesy of Dawson City Museum. Caption from Dawson Museum Archives: Photo taken just after the flood of 1979. Ice chunks are still on the road. The ferry is visible on the shoulder of Front Street and the Ladue Sawmill is on the right of the photo. See also 1984.104.28 for a closer view.

Client:	**Government of Yukon Water Resources Branch**	**Project:**	**123222713 - Dawson City and Klondike Valley Flood Mapping Study**
Site Name:	**Klondike River, Yukon River**	**Site Location:**	**Varies**

Photograph ID: 107

Photo Location:
Dawson City

Direction:
Looking north along Front Street

Survey Date: Unknown

Comments:
Photo courtesy of Dawson City Museum. Caption from Dawson Museum Archives: View of north end of Front Street looking north. A tour boat called the Yukon Lou is straddled across the road where the flood waters left it. Notes: this is assumed to be from the 1979 flood based on photo series collection.

Photograph ID: 108

Photo Location:
Dawson City

Direction:
Looking north at Seventh Avenue and Craig Street

Survey Date: Unknown

Comments:
Photo courtesy of Dawson City Museum. Caption from Dawson Museum Archives: Photo of Royal Canadian Mounted Police cruiser flooded at the corner of Seventh Avenue and Craig Street. View is looking northeast and shows the vehicle and houses surrounded by water. Notes: assumed to be 1979 flood based on photo series collection and vintage of cruiser.

Client:	**Government of Yukon Water Resources Branch**	**Project:**	**123222713 - Dawson City and Klondike Valley Flood Mapping Study**
Site Name:	**Klondike River, Yukon River**	**Site Location:**	**Varies**

Photograph ID: 109

Photo Location:
Dawson City

Direction:
Looking north at Fifth Avenue

Survey Date: Unknown

Comments:
Photo courtesy of Dawson City Museum. Caption from Dawson Museum Archives: View of flooded car just behind the government compound on Fifth Avenue. Water has not receded yet. Notes: assumed to be 1979 flood, based on photo series collection and vintage of vehicle.

Photograph ID: 110

Photo Location:
Dawson City

Direction:
Looking at George and Martha Black's house

Survey Date: Unknown

Comments:
Photo courtesy of Dawson City Museum. Caption from Dawson Museum Archives: View of George and Martha Black's house surrounded by water from the flood. Parks Canada owns this house and has renovated it for staff to live in. Residence is on the corner of Turner Street and Fifth Avenue. Notes: assumed to be 1979 based on photo series collection.

Client:	**Government of Yukon Water Resources Branch**	**Project:**	**123222713 - Dawson City and Klondike Valley Flood Mapping Study**
Site Name:	**Klondike River, Yukon River**	**Site Location:**	**Varies**

Photograph ID: 111

Photo Location:
Dawson City

Direction:
Looking east at Princess Street and Second Avenue

Survey Date: Unknown

Comments:
Photo courtesy of Dawson City Museum. Caption from Dawson Museum Archives: View of Princess Street from Second Avenue taken during the flood. Water is still in the street, almost covering a stop sign (on right of photo), the Odd Fellows Hall, Harrington's Store, and the Red Feather Saloon are visible. Notes: assumed to be 1979 based on photo series collection.

Client:	**Government of Yukon Water Resources Branch**	**Project:**	**123222713 - Dawson City and Klondike Valley Flood Mapping Study**
Site Name:	**Klondike River, Yukon River**	**Site Location:**	**Varies**

Photograph ID: 112

Photo Location:
Dawson City

Direction:
Looking down Harper Street towards Front Street from Eighth Avenue

Survey Date: Unknown

Comments:
Photo courtesy of Dawson City Museum. Caption from Dawson Museum Archives: Photograph taken looking down Harper Street towards Front Street from Eighth Avenue. Ken Moore's house is first on the right - corner of Seventh Avenue and Harper Street. The next block down on the right, at the corner of Sixth and Harper is St. Paul's Manse and the Gold City Motor Inn is on the right at the corner of Fifth and Harper. This inn is now (1990) called the Westmark Dawson. Notes: this is assumed to be the 1979 flood based on era of truck and extent of flooding.

Client:	**Government of Yukon Water Resources Branch**	**Project:**	**123222713 - Dawson City and Klondike Valley Flood Mapping Study**
Site Name:	**Klondike River, Yukon River**	**Site Location:**	**Varies**

Photograph ID: 113

Photo Location:
Dawson City

Direction:
Looking down Queen Street from Eighth Avenue towards Front Street

Survey Date: Unknown

Comments:
Photo courtesy of Dawson City Museum. Caption from Dawson Museum Archives: Photograph taken looking down Queen Street from Eighth Avenue towards Front Street. Water from flood is still visible. The Arctic Brotherhood Hall is the first building on the right. The Carnegie Library (now Masonic Temple) is the first large building on the left. Notes: as previous, this is assumed to be the 1979 flood based on era of truck and extent of flooding.

Client:	**Government of Yukon Water Resources Branch**	**Project:**	**123222713 - Dawson City and Klondike Valley Flood Mapping Study**
Site Name:	**Klondike River, Yukon River**	**Site Location:**	**Varies**

Photograph ID: 114

Photo Location:
Dawson City

Direction:
Looking northeast at Second Avenue from Harper Street

Survey Date: Unknown

Comments:
Photo courtesy of Dawson City Museum. Caption from Dawson Museum Archives: View of Second Avenue looking northeast from Harper Street. Floodwaters are still apparent. House in the foreground belongs to G. Castellarin, the Odd Fellows Hall is visible on the left of the photo. Notes: assumed to be 1979 flood based on photo series collection.

Client:	**Government of Yukon Water Resources Branch**	**Project:**	**123222713 - Dawson City and Klondike Valley Flood Mapping Study**
Site Name:	**Klondike River, Yukon River**	**Site Location:**	**Varies**

Photograph ID: 115

Photo Location:
Dawson City

Direction:
Looking southwest from Front Street just south of Queen Street

Survey Date: Unknown

Comments:
Photo courtesy of Dawson City Museum. Caption from Dawson Museum Archives: Photograph of Yukon River flood of May 1979. View from Front Street just south of Queen Street, behind the Klondike Nugget Shop. Two unidentified children on makeshift raft. The wheelhouse of the Nasutlin is floating upside-down behind a garage. It was previously part of a mini-museum set up in the yard beside the Klondike Nugget Shop. In the background, the peaked roof cabin on the left with a chimney, was the home of Pete Huley. Far right is the pilot house of the steam Nasutlin. George Shaw placed it in his park in front of his store. In 1962, during the Gold Festival it served as the Visitor's Centre, manned by Archibald McCuish, a gracious old-timer. Source: Star Jones.

Client:	**Government of Yukon Water Resources Branch**	**Project:**	**123222713 - Dawson City and Klondike Valley Flood Mapping Study**
Site Name:	**Klondike River, Yukon River**	**Site Location:**	**Varies**

Photograph ID: 116 **Photo Location:** Dawson City **Direction:** From flight **Survey Date:** Unknown **Comments:** Photo courtesy of Dawson City Museum. Aerial flight footage in the days following the 1979 flood. Ice jam has released however water is trapped inside Dawson by the Front Street dike.	
Photograph ID: 117 **Photo Location:** Dawson City **Direction:** From flight **Survey Date:** Unknown **Comments:** Photo courtesy of Dawson City Museum. Aerial flight footage in the days following the 1979 flood. Ice jam has released however water is trapped inside Dawson by the Front Street dike.	

Client:	**Government of Yukon Water Resources Branch**	**Project:**	**123222713 - Dawson City and Klondike Valley Flood Mapping Study**
Site Name:	**Klondike River, Yukon River**	**Site Location:**	**Varies**

Photograph ID: 118

Photo Location:
Dawson City

Direction:
From flight

Survey Date: Unknown

Comments:
Photo courtesy of Dawson City Museum. Aerial flight footage in the days following the 1979 flood. Ice jam has released however water is trapped inside Dawson by the Front Street dike.

Photograph ID: 119

Photo Location:
Dawson City

Direction:
From flight

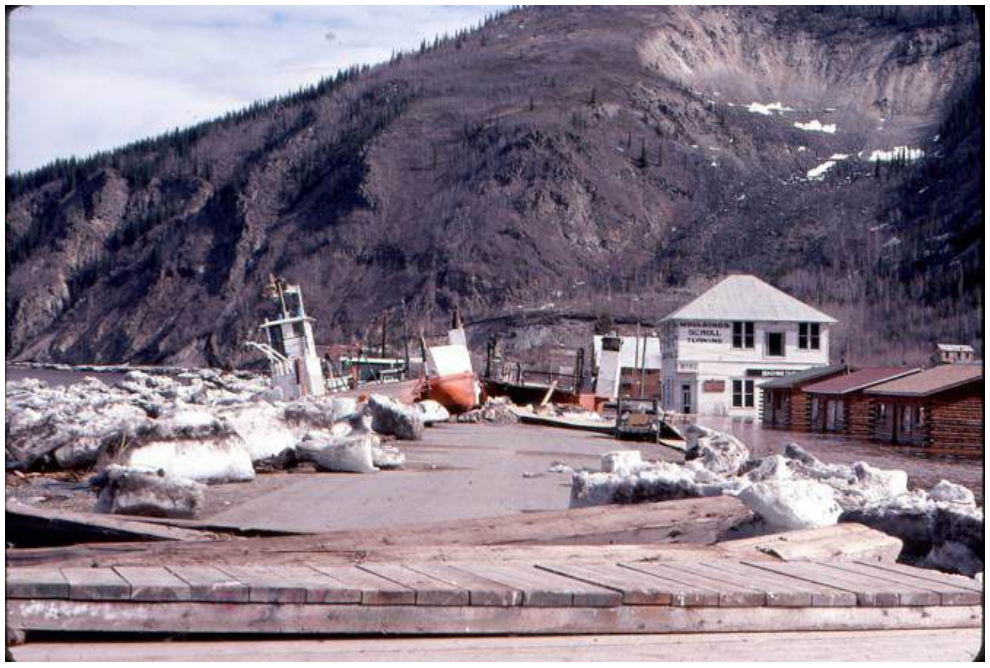
Survey Date: Unknown

Comments:
Photo courtesy of Dawson City Museum. Aerial flight footage in the days following the 1979 flood. Ice jam has released however water is trapped inside Dawson by the Front Street dike.

Client:	**Government of Yukon Water Resources Branch**	**Project:**	**123222713 - Dawson City and Klondike Valley Flood Mapping Study**
Site Name:	**Klondike River, Yukon River**	**Site Location:**	**Varies**

Photograph ID: 120 **Photo Location:** Dawson City **Direction:** Looking southeast **Survey Date:** Unknown **Comments:** Photo courtesy of Dawson City Museum. Inundation in the aftermath of 1979 flood.	
Photograph ID: 121 **Photo Location:** Dawson City **Direction:** Looking east **Survey Date:** Unknown **Comments:** Photo courtesy of Dawson City Museum. Inundation in the aftermath of 1979 flood.	

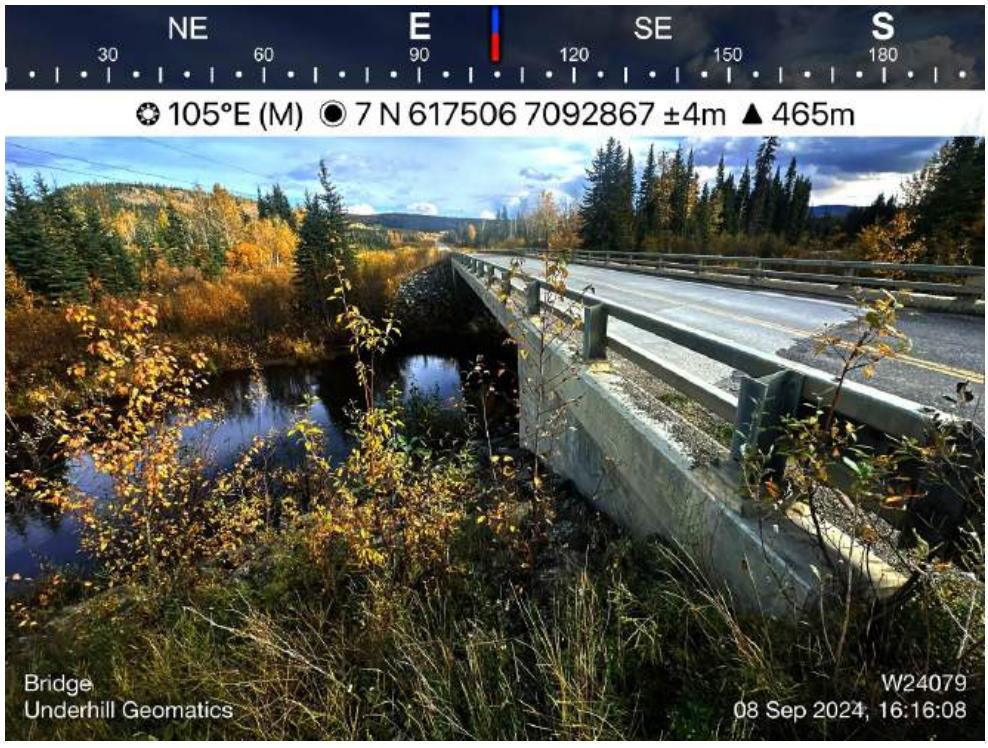
Client:	**Government of Yukon Water Resources Branch**	**Project:**	**123222713 - Dawson City and Klondike Valley Flood Mapping Study**
Site Name:	**Klondike River, Yukon River**	**Site Location:**	**Varies**

Photograph ID: 122 **Photo Location:** Dawson City **Direction:** Looking downstream (north) along Front Street **Survey Date:** Unknown **Comments:** Photo courtesy of Dawson City Museum. Ice jam remnants on Front Street following 1979 flood.	
Photograph ID: 123 **Photo Location:** Dawson City **Direction:** Looking east **Survey Date:** Unknown **Comments:** Photo courtesy of Dawson City Museum. Inundation in the aftermath of 1979 flood.	

Client:	**Government of Yukon Water Resources Branch**	**Project:**	**123222713 - Dawson City and Klondike Valley Flood Mapping Study**
Site Name:	**Klondike River, Yukon River**	**Site Location:**	**Varies**

Photograph ID: 124 **Photo Location:** Dawson City **Direction:** Front Street **Survey Date:** Unknown **Comments:** Photo courtesy of Dawson City Museum. Ice jam remnants on Front Street following 1979 flood.	
Photograph ID: 125 **Photo Location:** Flat Creek **Direction:** Looking east from location upstream of bridge **Survey Date:** 9/8/2024 **Comments:** Rip rap erosion protection around abutment.	

Client:	**Government of Yukon Water Resources Branch**	**Project:**	**123222713 - Dawson City and Klondike Valley Flood Mapping Study**
Site Name:	**Klondike River, Yukon River**	**Site Location:**	**Varies**

Photograph ID: 126 **Photo Location:** Flat Creek **Direction:** Looking west from location upstream of bridge **Survey Date:** 9/8/2024 **Comments:** Rip rap erosion protection around abutment.	
Photograph ID: 127 **Photo Location:** Flat Creek **Direction:** Looking east from location downstream of bridge **Survey Date:** 9/8/2024 **Comments:** Rip rap erosion protection around abutment.	

Client:	**Government of Yukon Water Resources Branch**	**Project:**	**123222713 - Dawson City and Klondike Valley Flood Mapping Study**
Site Name:	**Klondike River, Yukon River**	**Site Location:**	**Varies**

Photograph ID: 128 **Photo Location:** Flat Creek **Direction:** Looking west from location downstream of bridge **Survey Date:** 9/8/2024 **Comments:** Rip rap erosion protection around abutment.	
Photograph ID: 129 **Photo Location:** Flat Creek **Direction:** Looking northwest at abutment on river left **Survey Date:** 9/8/2024 **Comments:** Rip rap erosion protection around abutment.	

Client:	**Government of Yukon Water Resources Branch**	**Project:**	**123222713 - Dawson City and Klondike Valley Flood Mapping Study**
Site Name:	**Klondike River, Yukon River**	**Site Location:**	**Varies**

Photograph ID: 130 **Photo Location:** Flat Creek **Direction:** Looking east at abutment on river right **Survey Date:** 9/8/2024 **Comments:** Rip rap erosion protection around abutment.	
Photograph ID: 131 **Photo Location:** Klondike River **Direction:** Looking downstream at Klondike River Bridge (Dempster Highway) **Survey Date:** 6/5/2024 **Comments:** Bridge includes two piers; large woody debris pinned on each pier visible.	

Client:	**Government of Yukon Water Resources Branch**	**Project:**	**123222713 - Dawson City and Klondike Valley Flood Mapping Study**
Site Name:	**Klondike River, Yukon River**	**Site Location:**	**Varies**

Photograph ID: 132	
Photo Location: Klondike River	
Direction: Looking towards right bank beneath Klondike River Bridge (Dempster Highway)	
Survey Date: 6/5/2024	
Comments: Large woody debris on pier.	

Photograph ID: 133	
Photo Location: Klondike River	
Direction: Looking towards left bank beneath Klondike River Bridge (Dempster Highway)	
Survey Date: 6/5/2024	
Comments: Large woody debris on pier.	

Client:	**Government of Yukon Water Resources Branch**	**Project:**	**123222713 - Dawson City and Klondike Valley Flood Mapping Study**
Site Name:	**Klondike River, Yukon River**	**Site Location:**	**Varies**

Photograph ID: 134

Photo Location:
Klondike River

Direction:
Looking downstream towards Klondike River Bridge (Klondike Highway)

Survey Date:
6/5/2024

Comments:

Photograph ID: 135

Photo Location:
Klondike River

Direction:
Looking at left bank beneath Klondike River Bridge (Klondike Highway)

Survey Date:
6/5/2024

Comments:

Client:	**Government of Yukon Water Resources Branch**	**Project:**	**123222713 - Dawson City and Klondike Valley Flood Mapping Study**
Site Name:	**Klondike River, Yukon River**	**Site Location:**	**Varies**

Photograph ID: 136

Photo Location:
Klondike River

Direction:
Looking at right bank beneath Klondike River Bridge (Klondike Highway)

Survey Date:
6/5/2024

Comments:

Photograph ID: 137

Photo Location:
Klondike River

Direction:
Looking upstream towards Klondike River Bridge (Klondike Highway)

Survey Date:
6/5/2024

Comments:
Pedestrian pathway visible on downstream side of bridge.

Appendix B Hydrology Data and Analysis

WSC Station 09EA003 - Klondike River Above Bonanza

Peaking Factor

	Annual Max Instantaneous Discharge			Annual Maximum Daily Discharge		
Year	HH:MM	MM--DD	Max Q (m^3/s)	MM--DD	Max Q (m^3/s)	Annual Peaking Factor - Peak Instantaneous : Maximum Daily Discharge
1974	3:08	05--25	326	05--24	317	1.03
1975	-	-	-	05--13	544	-
1976	-	-	-	06--19	374	-
1977	-	-	-	06--09	425	-
1978	0:00	06--09	228	06--09	210	1.09
1979	-	-	-	05--03	408	-
1980	-	-	-	06--08	360	-
1981	10:30	05--29	308	05--29	302	1.02
1982	13:50	06--09	422	06--09	416	1.01
1983	21:45	06--01	491	06--02	468	1.05
1984	12:54	06--10	303	06--10	302	1.00
1985	17:24	06--07	633	06--07	621	1.02
1986	13:18	06--09	479	06--09	455	1.05
1987	13:45	06--01	489	06--01	468	1.04
1988	15:50	05--31	469	05--31	449	1.04
1989	5:30	05--01	275	06--26	240	-
1990	6:49	06--02	443	06--02	436	1.02
1991	6:40	05--06	400	05--06	398	1.01
1992	2:20	05--28	529	05--28	522	1.01
1993	9:44	05--29	380	05--29	377	1.01
1994	10:00	05--21	291	05--21	282	1.03
1995	7:57	05--16	457	05--16	442	1.03
1996	23:30	05--28	232	05--28	222	1.05
1997	21:10	06--09	401	06--10	372	1.08
1998	2:00	06--01	702	05--31	679	1.03
1999	12:15	06--13	533	06--13	512	1.04
2000	3:00	06--16	638	06--16	587	1.09
2001	9:45	06--16	500	06--15	456	1.10
2002	0:00	05--31	329	05--31	293	1.12
2003	9:30	06--09	365	06--09	356	1.03
2004	10:15	05--27	545	05--27	509	1.07
2005	17:00	05--16	481	05--17	460	1.05
2006	21:45	06--16	385	06--17	354	1.09
2007	20:15	06--06	376	06--07	354	1.06
2008	4:00	07--08	334	07--08	296	1.13
2009	-	-	-	05--04	484	-
2010	9:00	06--01	237	06--01	232	1.02
2011	12:45	05--24	444	05--24	428	1.04
2012	23:30	06--09	431	06--10	414	1.04
2013	7:25	06--01	839	06--01	785	1.07
2014	20:20	06--26	281	05--08	267	-
2015	12:15	05--25	407	05--25	396	1.03
2016	21:30	06--07	420	06--07	398	1.06
2017	11:20	05--23	389	05--23	371	1.05
2018	12:50	06--07	304	06--07	292	1.04
2019	17:25	05--23	251	05--23	238	1.05
2020	11:30	06--23	618	06--23	570	1.08
2021	-	-	-	05--04	469	-
2022	23:35	06--12	461	06--08	444	-
2023	21:05	05--24	938	05--24	770	1.22
						Average Peaking Factor (avg + 1 std dev)
						1.09

WSC Station 09EA003 - KLONDIKE RIVER ABOVE BONANZA
Break-up and Open Water Summary - Event Timing and Magnitudes

		Breakup				Open Water	
Peak Breakup Date	Peak Timing/Magnitude Method	Hydrograph: Peak Q during breakup (m^3/s)	Gap filling: Q Using Sub-daily Stage Data (m^3/s)	Gap filling: ADD Threshold (m^3/s)	Final peak breakup Q (m^3/s)	Open Water Peak Date	Peak Q During Open Water (m^3/s)
7-May-66	Daily Data Hydrograph	340	-	-	340	9-Jun-66	433
8-May-67	Daily Data Hydrograph	180	-	-	180	02-Jun-67	411
15-May-68	ADD Threshold	-	-	233	233	21-May-68	357
3-May-69	Daily Data Hydrograph	52	-	-	52	11-Jun-69	286
7-May-70	Daily Data Hydrograph	102	-	-	102	25-Jun-70	343
7-May-71	Daily Data Hydrograph	92	-	-	92	11-Jun-71	476
14-May-72	Daily Data Hydrograph	103	-	-	103	29-May-72	640
9-May-73	Daily Data Hydrograph	149	-	-	149	16-May-73	416
10-May-74	Daily Data Hydrograph	119	-	-	119	24-May-74	317
3-May-75	Daily Data Hydrograph	112	-	-	112	13-May-75	544
4-May-76	ADD Threshold	-	-	278	278	19-Jun-76	374
15-May-77	ADD Threshold	-	-	212	212	09-Jun-77	425
5-May-78	Daily Data Hydrograph	51	-	-	51	09-Jun-78	210
3-May-79	-	-	-	-	-	09-Jul-79	359
5-May-80	Daily Data Hydrograph	58	-	-	58	08-Jun-80	360
10-May-81	Daily Data Hydrograph	95	-	-	95	29-May-81	302
16-May-82	Daily Data Hydrograph	90	-	-	90	09-Jun-82	416
11-May-83	Daily Data Hydrograph	105	-	-	105	02-Jun-83	468
8-May-84	ADD Threshold	-	-	153	153	10-Jun-84	302
16-May-85	Daily Data Hydrograph	164	-	-	164	07-Jun-85	621
15-May-86	Daily Data Hydrograph	168	-	-	168	09-Jun-86	455
11-May-87	Daily Data Hydrograph	76	-	-	76	01-Jun-87	468
3-May-88	Daily Data Hydrograph	90	-	-	90	31-May-88	449
2-May-89	ADD Threshold	-	-	239	239	26-Jun-89	240
27-Apr-90	Daily Data Hydrograph	57	-	-	57	02-Jun-90	436
3-May-91	ADD Threshold	-	-	278	278	06-May-91	398
4-May-92	Daily Data Hydrograph	60	-	-	60	28-May-92	522
29-Apr-93	Daily Data Hydrograph	190	-	-	190	29-May-93	377
2-May-94	ADD Threshold	-	-	225	225	21-May-94	282
25-Apr-95	Daily Data Hydrograph	79	-	-	79	16-May-95	442
1-May-96	Sub-Daily Stage + Rating Curve	-	84	-	84	28-May-96	222
5-May-97	Daily Data Hydrograph	156		-	156	10-Jun-97	372
1-May-98	Sub-Daily Stage + Rating Curve	-	75	-	75	31-May-98	679
6-May-99	Daily Data Hydrograph	44		-	44	13-Jun-99	512
6-May-00	Sub-Daily Stage + Rating Curve	-	173	-	173	16-Jun-00	587
17-May-01	ADD Threshold	-	-	89	89	15-Jun-01	456
15-May-02	Sub-Daily Stage + Rating Curve	-	197	-	197	31-May-02	293
2-May-03	Sub-Daily Stage + Rating Curve	-	130	-	130	09-Jun-03	356
3-May-04	Sub-Daily Stage + Rating Curve	-	230	-	230	27-May-04	509
27-Apr-05	Sub-Daily Stage + Rating Curve	-	204	-	204	17-May-05	460
12-May-06	Sub-Daily Stage + Rating Curve	-	169	-	169	17-Jun-06	354
6-May-07	Sub-Daily Stage + Rating Curve	-	151	-	151	07-Jun-07	354
7-May-08	Sub-Daily Stage + Rating Curve	-	123	-	123	08-Jul-08	296
9-May-09	Sub-Daily Stage + Rating Curve	-	243	-	243	04-May-09	484
2-May-10	Sub-Daily Stage + Rating Curve	-	154	-	154	01-Jun-10	232
7-May-11	Sub-Daily Stage + Rating Curve	-	147	-	147	24-May-11	428
30-Apr-12	Sub-Daily Stage + Rating Curve	-	156	-	156	10-Jun-12	414
16-May-13	Sub-Daily Stage + Rating Curve	-	290	-	290	01-Jun-13	785
2-May-14	Sub-Daily Stage + Rating Curve	-	167	-	167	08-May-14	267
28-Apr-15	Sub-Daily Stage + Rating Curve	-	254	-	254	25-May-15	396
23-Apr-16	Sub-Daily Stage + Rating Curve	-	112	-	112	07-Jun-16	398
6-May-17	Sub-Daily Stage + Rating Curve	-	133	-	133	23-May-17	371
10-May-18	Sub-Daily Stage + Rating Curve	-	203	-	203	07-Jun-18	292
19-Apr-19	Sub-Daily Stage + Rating Curve	-	35	-	35	23-May-19	238
3-May-20	Daily Data Hydrograph	22	-	-	22	23-Jun-20	570
8-May-21	Sub-Daily Stage + Rating Curve	-	264	-	264	04-Jun-21	327
9-May-22	Sub-Daily Stage + Rating Curve	-	235	-	235	08-Jun-22	444
12-May-23	Sub-Daily Stage + Rating Curve	-	432	-	432	24-May-23	770
12-May-24	Sub-Daily Stage + Rating Curve	-	134	-	148	25-May-23	344

WSC Station 09EA003 - KLONDIKE RIVER ABOVE BONANZA

FFA results

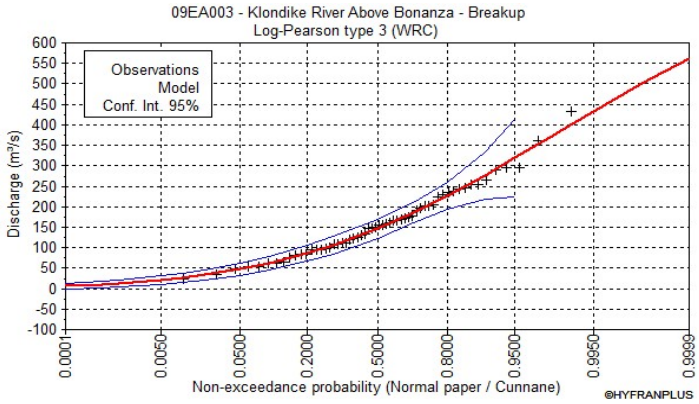
Breakup

Date	Daily Average Max Q (m^3/s)	Scaled Max Q (m^3/s)
7-May-66	340	361
8-May-67	180	191
15-May-68	233	247
3-May-69	52	55
7-May-70	102	108
7-May-71	92	98
14-May-72	103	109
9-May-73	149	158
10-May-74	119	126
3-May-75	112	119
4-May-76	278	295
15-May-77	212	225
5-May-78	51	54
5-May-80	58	62
10-May-81	95	101
16-May-82	90	96
11-May-83	105	111
8-May-84	153	162
16-May-85	164	174
15-May-86	168	178
11-May-87	76	81
3-May-88	90	95
2-May-89	239	254
27-Apr-90	57	61
3-May-91	278	295
4-May-92	60	64
29-Apr-93	190	202
2-May-94	225	239
25-Apr-95	79	84
1-May-96	-	84
5-May-97	156	166
1-May-98	-	75
6-May-99	44	47
6-May-00	-	173
17-May-01	89	94
15-May-02	-	197
2-May-03	-	130
3-May-04	-	230
27-Apr-05	-	204
12-May-06	-	169
6-May-07	-	151
7-May-08	-	123
9-May-09	-	243
2-May-10	-	154
7-May-11	-	147
30-Apr-12	-	156
16-May-13	-	290
2-May-14	-	167
28-Apr-15	-	254
23-Apr-16	-	112
6-May-17	-	133
10-May-18	-	203
19-Apr-19	-	35
3-May-20	22	23
8-May-21	-	264
9-May-22	-	235
12-May-23	-	432
12-May-24	-	148

Selected Distribution:

Log-Pearson Type 3

AEP	T	q	Q (m^3/s)	Standard	C.I.
0.2%	500	0.998	470	163	N/D
0.5%	200	0.995	433	128	N/D
1%	100	0.99	403	103	N/D
2%	50	0.98	369	78	N/D
5%	20	0.95	320	48	225 - 414
10%	10	0.9	276	30	218 - 335
20%	5	0.8	227	17	194 - 260
50%	2	0.5	146	12	122 - 170

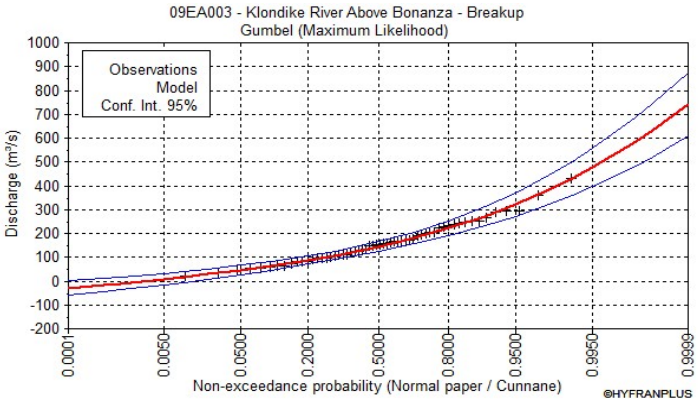


WSC Station 09EA003 - KLONDIKE RIVER ABOVE BONANZA
FFA results

Breakup - Alternate Distributions

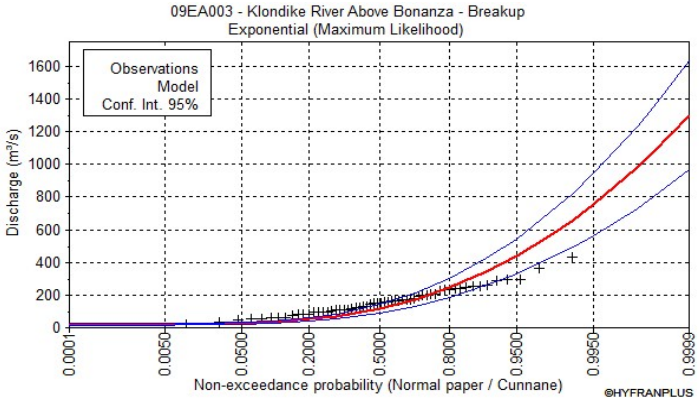
Gumbel

AEP	q	Q (m^3/s)	C.I.
0.2%	0.998	539	447 - 632
0.5%	0.995	478	397 - 558
1%	0.99	431	360 - 502
2%	0.98	384	322 - 445
5%	0.95	321	271 - 370
10%	0.9	272	232 - 313
20%	0.8	222	190 - 253
50%	0.5	145	125 - 166



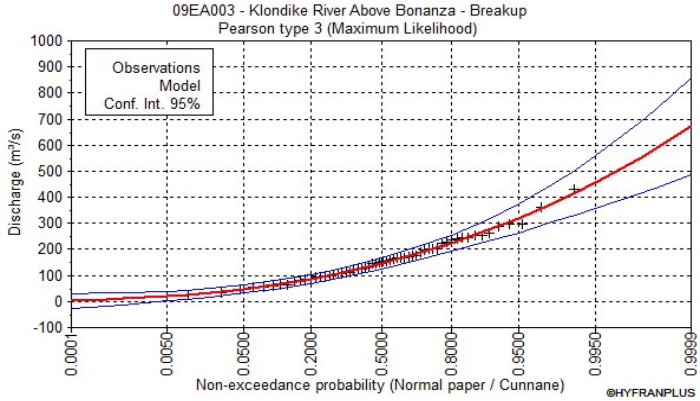
Exponential

AEP	q	Q (m^3/s)	C.I.
0.2%	0.998	883	660 - 1110
0.5%	0.995	756	566 - 946
1%	0.99	660	494 - 825
2%	0.98	563	423 - 704
5%	0.95	436	329 - 544
10%	0.9	340	258 - 423
20%	0.8	244	186 - 302
50%	0.5	117	92.0 - 142



Pearson Type 3

AEP	q	Q (m^3/s)	C.I.
0.2%	0.998	510	389 - 631
0.5%	0.995	458	357 - 560
1%	0.99	418	331 - 505
2%	0.98	377	303 - 450
5%	0.95	319	264 - 375
10%	0.9	273	230 - 316
20%	0.8	223	192 - 255
50%	0.5	145	124 - 166



WSC Station 09EA003 - KLONDIKE RIVER ABOVE BONANZA

FFA results

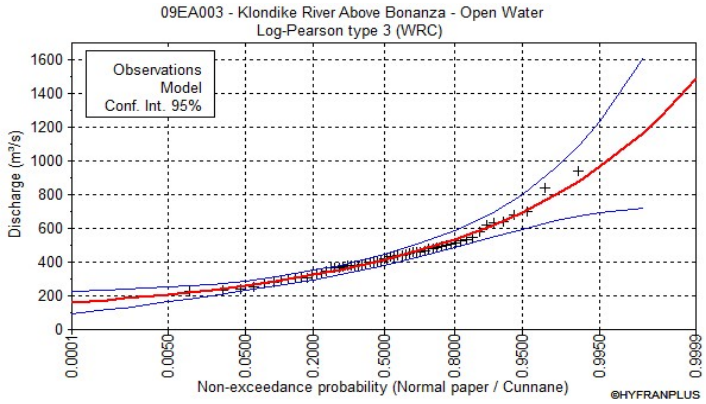
Open Water

Date	Daily Average Max Q (m^3/s)	Scaled Max Q (m^3/s)
9-Jun-66	433	460
2-Jun-67	411	436
21-May-68	357	379
11-Jun-69	286	304
25-Jun-70	343	364
11-Jun-71	476	505
29-May-72	640	679
16-May-73	416	442
24-May-74	-	326
13-May-75	544	577
19-Jun-76	374	397
9-Jun-77	425	451
9-Jun-78	-	228
9-Jul-79	359	381
8-Jun-80	360	382
29-May-81	-	308
9-Jun-82	-	422
2-Jun-83	-	491
10-Jun-84	-	303
7-Jun-85	-	633
9-Jun-86	-	479
1-Jun-87	-	489
31-May-88	-	469
26-Jun-89	-	275
2-Jun-90	-	443
6-May-91	-	400
28-May-92	-	529
29-May-93	-	380
21-May-94	-	291
16-May-95	-	457
28-May-96	-	232
10-Jun-97	-	401
31-May-98	-	702
13-Jun-99	-	533
16-Jun-00	-	638
15-Jun-01	-	500
31-May-02	-	329
9-Jun-03	-	365
27-May-04	-	545
17-May-05	-	481
17-Jun-06	-	385
7-Jun-07	-	376
8-Jul-08	-	334
4-May-09	484	514
1-Jun-10	-	237
24-May-11	-	444
10-Jun-12	-	431
1-Jun-13	-	839
8-May-14	-	281
25-May-15	-	407
7-Jun-16	-	420
23-May-17	-	389
7-Jun-18	-	304
23-May-19	-	251
23-Jun-20	-	618
4-Jun-21	327	347
8-Jun-22	-	461
24-May-23	-	938
29-May-24	344	365

Selected Distribution:

Log-Pearson Type 3

AEP	T	q	Q (m^3/s)	Standard	C.I.
0.0%	500	0.998	1,080	186	713 - 1440
0.5%	200	0.995	964	137	695 - 1230
1%	100	0.99	882	106	673 - 1090
2%	50	0.98	801	80	644 - 958
5%	20	0.95	696	52	593 - 798
10%	10	0.9	616	37	544 - 688
20%	5	0.8	534	26	484 - 585
50%	2	0.5	412	17	378 - 446

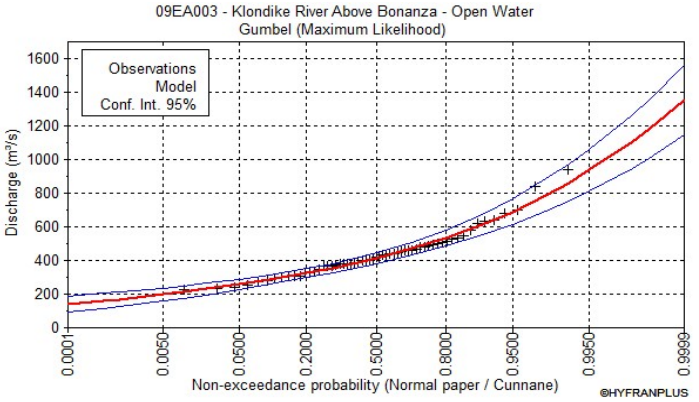


WSC Station 09EA003 - KLONDIKE RIVER ABOVE BONANZA
FFA results

Open Water - Alternate Distributions

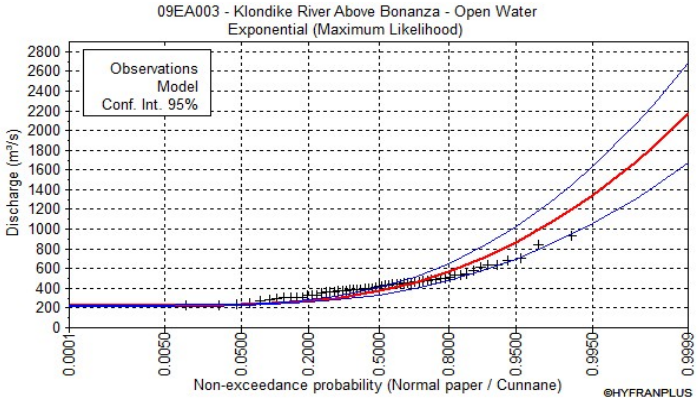
Gumbel

AEP	q	Q (m^3/s)	C.I.
0.2%	0.998	1030	890 - 1180
0.5%	0.995	937	812 - 1060
1%	0.99	863	752 - 973
2%	0.98	789	693 - 885
5%	0.95	690	613 - 767
10%	0.9	614	551 - 677
20%	0.8	534	485 - 583
50%	0.5	414	382 - 445



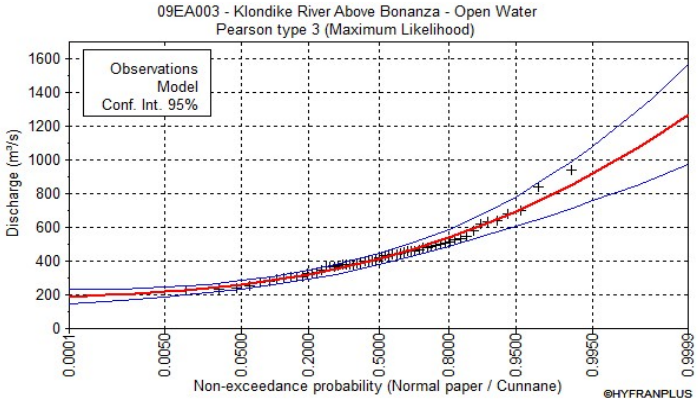
Exponential

AEP	q	Q (m^3/s)	C.I.
0.2%	0.998	1540	1200 - 1880
0.5%	0.995	1350	1060 - 1640
1%	0.99	1200	950 - 1450
2%	0.98	1050	841 - 1270
5%	0.95	859	697 - 1020
10%	0.9	713	588 - 837
20%	0.8	566	478 - 653
50%	0.5	371	334 - 409



Pearson Type 3

AEP	q	Q (m^3/s)	C.I.
0.2%	0.998	1000	811 - 1200
0.5%	0.995	920	757 - 1080
1%	0.99	854	714 - 994
2%	0.98	787	669 - 904
5%	0.95	694	605 - 783
10%	0.9	619	550 - 688
20%	0.8	539	488 - 589
50%	0.5	413	379 - 446



WSC Station 09EB001 - YUKON RIVER AT DAWSON

Peaking Factor

Annual Max Instantaneous Discharge				Annual Maximum Daily Discharge		
Year	HH:MM	MM--DD	Max Q (m^3/s)	MM--DD	Max Q (m^3/s)	Annual Peaking Factor - Peak Instantaneous : Maximum Daily Discharge
1975	19:29	06--06	9230	06--06	9090	1.02
1976	20:36	07--17	7650	07--17	7530	1.02
1977	9:30	06--04	7110	06--04	7080	1.00
1978	5:20	06--09	5580	06--09	5550	1.01
1979	22:10	07--09	7450	07--09	7340	1.01
1980	8:58	06--13	6100	06--13	6030	1.01
2022	13:45	06--12	10400	06--12	10300	1.01
2023	21:45	05--24	9120	05--24	8950	1.02
						Average Peaking Factor (avg + 1 std dev)
						1.02

WSC Station 09EB001 - YUKON RIVER AT DAWSON
Breakup and Open Water Summary - Event Timing and Magnitudes

Breakup						Open Water					
Break-up Peak Q Date	Peak Timing / Magnitude Method	Hydrograph: Peak Q (m^3/s)	Gap Filling: Q Using Sub-Daily WSC Stage Data (m^3/s)	Gap Filling: Q Using Sub-Daily YG Stage Data (m^3/s)	Final peak Q (m^3/s)	Open Water Peak Date	Peak Timing/Magnitude Method	Hydrograph: Peak Q (m^3/s)	Gap Filling: Regression (USGS) (m^3/s)	WSC Rating Curve #11	Final Peak Q (m^3/s)
17-May-45	Daily Data Hydrograph	4,560	-	-	4,560	22-May-45	Daily Data Hydrograph	6,650	-	-	6,650
10-May-46	Daily Data Hydrograph	4,390	-	-	4,390	31-May-46	Daily Data Hydrograph	7,330	-	-	7,330
15-May-47	Daily Data Hydrograph	3,680	-	-	3,680	2-Jun-47	Daily Data Hydrograph	7,900	-	-	7,900
13-May-48	Daily Data Hydrograph	4,080	-	-	4,080	2-Jun-48	Daily Data Hydrograph	7,220	-	-	7,220
7-May-49	Daily Data Hydrograph	2,100	-	-	2,100	27-Jun-49	Daily Data Hydrograph	7,360	-	-	7,360
29-Apr-50	Daily Data Hydrograph	1,470	-	-	1,470	13-May-50	Daily Data Hydrograph	6,090	-	-	6,090
3-May-51	Daily Data Hydrograph	2,170	-	-	2,170	3-Jun-51	Daily Data Hydrograph	4,640	-	-	4,640
23-May-52	Daily Data Hydrograph	3,310	-	-	3,310	3-Jul-52	Daily Data Hydrograph	6,140	-	-	6,140
1953	-	-	-	-	-	1953	-	-	-	-	-
1954	-	-	-	-	-	1954	-	-	-	-	-
1955	-	-	-	-	-	1955	-	-	-	-	-
1956	-	-	-	-	-	3-Jul-56	Daily Data Hydrograph	5,410	-	-	5,410
15-May-57	Daily Data Hydrograph	2,830	-	-	2,830	24-May-57	Daily Data Hydrograph	10,600	-	-	10,600
6-May-58	Daily Data Hydrograph	1,840	-	-	1,840	13-Jun-58	Daily Data Hydrograph	5,920	-	-	5,920
15-May-59	Daily Data Hydrograph	3,740	-	-	3,740	21-May-59	Daily Data Hydrograph	7,820	-	-	7,820
12-May-60	Daily Data Hydrograph	3,990	-	-	3,990	1-Aug-60	Daily Data Hydrograph	6,510	-	-	6,510
16-May-61	Daily Data Hydrograph	3,060	-	-	3,060	13-Jun-61	Daily Data Hydrograph	10,100	-	-	10,100
21-May-62	Daily Data Hydrograph	4,810	-	-	4,810	18-Jun-62	Daily Data Hydrograph	10,900	-	-	10,900
7-May-63	Daily Data Hydrograph	3,230	-	-	3,230	14-Jul-63	Daily Data Hydrograph	7,900	-	-	7,900
25-May-64	Daily Data Hydrograph	3,910	-	-	3,910	11-Jun-64	Daily Data Hydrograph	14,900	-	-	14,900
21-May-65	Daily Data Hydrograph	2,760	-	-	2,760	3-Jun-65	Daily Data Hydrograph	6,600	-	-	6,600
12-May-66	Daily Data Hydrograph	2,830	-	-	2,830	21-Jun-66	Daily Data Hydrograph	6,990	-	-	6,990
21-May-67	Daily Data Hydrograph	3,110	-	-	3,110	6-Jun-67	Daily Data Hydrograph	9,830	-	-	9,830
17-May-68	Daily Data Hydrograph	1,930	-	-	1,930	26-May-68	Daily Data Hydrograph	7,280	-	-	7,280
7-May-69	Daily Data Hydrograph	1,650	-	-	1,650	15-Jun-69	Daily Data Hydrograph	6,120	-	-	6,120
14-May-70	Daily Data Hydrograph	2,940	-	-	2,940	9-Jun-70	Daily Data Hydrograph	6,970	-	-	6,970
13-May-71	Daily Data Hydrograph	2,970	-	-	2,970	16-Jun-71	Daily Data Hydrograph	7,620	-	-	7,620
18-May-72	Daily Data Hydrograph	2,210	-	-	2,210	3-Jun-72	Daily Data Hydrograph	12,100	-	-	12,100
13-May-73	Daily Data Hydrograph	2,490	-	-	2,490	24-Jun-73	Daily Data Hydrograph	6,800	-	-	6,800
17-May-74	Daily Data Hydrograph	2,920	-	-	2,920	5-Jun-74	Daily Data Hydrograph	6,200	-	-	6,200
9-May-75	Daily Data Hydrograph	2,550	-	-	2,550	6-Jun-75	Daily Data Hydrograph	9,090	-	-	9,090
10-May-76	Daily Data Hydrograph	4,760	-	-	4,760	17-Jul-76	Daily Data Hydrograph	7,530	-	-	7,530
11-May-77	Daily Data Hydrograph	3,110	-	-	3,110	4-Jun-77	Daily Data Hydrograph	7,080	-	-	7,080
10-May-78	Daily Data Hydrograph	2,150	-	-	2,150	9-Jun-78	Daily Data Hydrograph	5,550	-	-	5,550
9-May-79	Daily Data Hydrograph	4,020	-	-	4,020	9-Jul-79	Daily Data Hydrograph	7,340	-	-	7,340
11-May-80	Daily Data Hydrograph	1,950	-	-	1,950	13-Jun-80	Daily Data Hydrograph	6,030	-	-	6,030
1981	-	-	-	-	-	3-Jun-81	Regression Analysis	-	6,589	-	6,589
1982	-	-	-	-	-	16-Jun-82	Regression Analysis	-	8,410	-	8,410
1983	-	-	-	-	-	6-Jun-83	Regression Analysis	-	8,794	-	8,794
1984	-	-	-	-	-	4-Jul-84	Regression Analysis	-	6,487	-	6,487
18-May-85	-	-	-	-	-	10-Jun-85	Regression Analysis	-	9,922	-	9,922
12-May-86	-	-	-	-	-	25-Jun-86	Regression Analysis	-	7,692	-	7,692
17-May-87	-	-	-	-	-	5-Jun-87	Regression Analysis	-	8,640	-	8,640
1988	-	-	-	-	-	19-Jul-88	Regression Analysis	-	7,948	-	7,948
8-May-89	Sub-Daily Stage + Rating Curve	-	-	4820	4,820	11-Jun-89	Regression Analysis	-	5,538	-	5,538
3-May-90	-	-	-	-	-	5-Jun-90	Regression Analysis	-	7,230	-	7,230
2-May-91	-	-	-	-	-	5-Aug-91	Regression Analysis	-	5,923	-	5,923
11-May-92	-	-	-	-	-	24-Jun-92	Regression Analysis	-	10,897	-	10,897
1993	-	-	-	-	-	8-Jun-93	Regression Analysis	-	8,948	-	8,948
4-May-94	-	-	-	-	-	27-Jun-94	Regression Analysis	-	5,615	-	5,615
3-May-95	-	-	-	-	-	15-May-95	Regression Analysis	-	5,230	-	5,230
11-May-96	Sub-Daily Stage + Rating Curve	-	1,870	-	1,870	11-Jun-96	Regression Analysis	-	5,077	-	5,077
15-May-97	Sub-Daily Stage + Rating Curve	-	-	3,700	3,700	10-Jun-97	Regression Analysis	-	7,641	-	7,641
10-May-98	Sub-Daily Stage + Rating Curve	-	-	2,980	2,980	31-May-98	Regression Analysis	-	5,897	-	5,897
1999	-	-	-	-	-	19-Jun-99	Regression Analysis	-	5,769	-	5,769
2000	-	-	-	-	-	19-Jun-00	Regression Analysis	-	8,205	-	8,205
2001	-	-	-	-	-	17-Jun-01	Regression Analysis	-	9,230	-	9,230
17-May-02	Sub-Daily Stage + Rating Curve	-	-	3,950	3,950	28-Aug-02	Regression Analysis	-	5,769	-	5,769
2002	-	-	-	-	-	12-Jun-03	Regression Analysis	-	4,974	-	4,974
7-May-04	Sub-Daily Stage + Rating Curve	-	-	3,480	3,480	11-Jun-04	Regression Analysis	-	7,230	-	7,230
5-May-05	Sub-Daily Stage + Rating Curve	-	-	3,380	3,380	28-May-05	Regression Analysis	-	7,897	-	7,897
2006	-	-	-	-	-	22-Jun-06	Regression Analysis	-	6,974	-	6,974
8-May-07	Sub-Daily Stage + Rating Curve	-	-	3,020	3,020	8-Jun-07	Regression Analysis	-	7,102	-	7,102
2008	-	-	-	-	-	29-Aug-08	Regression Analysis	-	7,128	-	7,128
2009	-	-	-	-	-	14-Jun-09	Regression Analysis	-	6,846	-	6,846
2010	-	-	-	-	-	12-Jun-10	Regression Analysis	-	4,205	-	4,205
2011	-	-	-	-	-	28-May-11	Regression Analysis	-	6,846	-	6,846
2012	-	-	-	-	-	15-Jun-12	Regression Analysis	-	8,128	-	8,128
19-May-13	Sub-Daily Stage + Rating Curve	-	-	6,820	6,820	4-Jun-13	Regression Analysis	-	11,589	-	11,589
2014	-	-	-	-	-	19-Jun-14	Regression Analysis	-	5,307	-	5,307
7-May-15	Sub-Daily Stage + Rating Curve	-	1,910	-	1,910	30-May-15	Regression Analysis	-	6,359	-	6,359
27-Apr-16	Sub-Daily Stage + Rating Curve	-	2,520	-	2,520	29-May-16	Regression Analysis	-	5,410	-	5,410
9-May-17	Sub-Daily Stage + Rating Curve	-	-	2,040	2,040	2-Aug-17	Regression Analysis	-	4,513	-	4,513
9-May-18	-	-	1,990	-	1,990	4-Jul-18	Regression Analysis	-	4,974	-	4,974
2019	-	-	-	-	-	3-Jun-19	Regression Analysis	-	3,820	-	3,820
5-May-20	Sub-Daily Stage + Rating Curve	-	2,250	-	2,250	23-Jun-20	Regression Analysis	-	9,307	-	9,307
10-May-21	Sub-Daily Stage + Rating Curve	-	3,880	-	3,880	8-Jun-21	WSC Rating Curve	-	-	7,433	7,433
10-May-22	Daily Data Hydrograph	2,580	3,300	-	3,300	12-Jun-22	Daily Data Hydrograph	10,300	-	-	10,300
11-May-23	Daily Data Hydrograph	5,230	5,030	-	5,030	24-May-23	Daily Data Hydrograph	8,950	-	-	8,950
8-May-24	-	-	2,810	-	2,810	17-Jun-24	Daily Data Hydrograph	4,690	-	-	4,690

WSC Station 09EB001 - YUKON RIVER AT DAWSON

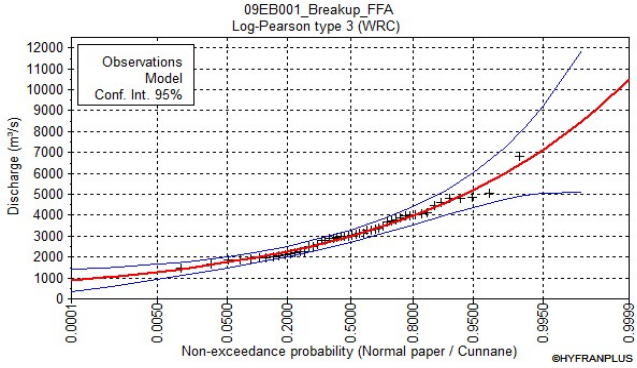
FFA results

Breakup

Date	Daily Average Max Q (m^3/s)	Scaled Max Q (m^3/s)
17-May-45	4,560	4,620
10-May-46	4,390	4,450
15-May-47	3,680	3,730
13-May-48	4,080	4,130
7-May-49	2,100	2,130
29-Apr-50	1,470	1,490
3-May-51	2,170	2,200
23-May-52	3,310	3,350
15-May-57	2,830	2,870
6-May-58	1,840	1,860
15-May-59	3,740	3,790
12-May-60	3,990	4,040
16-May-61	3,060	3,100
21-May-62	4,810	4,870
7-May-63	3,230	3,270
25-May-64	3,910	3,960
21-May-65	2,760	2,800
12-May-66	2,830	2,870
21-May-67	3,110	3,150
17-May-68	1,930	1,950
7-May-69	1,650	1,670
14-May-70	2,940	2,980
13-May-71	2,970	3,010
18-May-72	2,210	2,240
13-May-73	2,490	2,520
17-May-74	2,920	2,960
9-May-75	2,550	2,580
10-May-76	4,760	4,820
11-May-77	3,110	3,150
10-May-78	2,150	2,180
9-May-79	4,020	4,070
11-May-80	1,950	1,970
8-May-89	-	4,820
11-May-96	-	1,870
15-May-97	-	3,700
10-May-98	-	2,980
17-May-02	-	3,950
7-May-04	-	3,480
5-May-05	-	3,380
8-May-07	-	3,020
19-May-13	-	6,820
7-May-15	-	1,910
27-Apr-16	-	2,520
9-May-17	-	2,040
9-May-18	-	1,990
5-May-20	-	2,250
10-May-21	-	3,880
10-May-22	-	3,300
11-May-23	-	5,030
8-May-24	-	2,810

Selected Distribution:
Log-Pearson Type 3

AEP	T	q	Q (m^3/s)	Standard	C.I.
0.2%	500	0.998	7,890	1410	5120 - 10700
0.5%	200	0.995	7,120	1060	5050 - 9190
1%	100	0.99	6,550	824	4930 - 8160
2%	50	0.98	5,970	626	4740 - 7200
5%	20	0.95	5,200	417	4390 - 6020
10%	10	0.9	4,610	301	4020 - 5190
20%	5	0.8	3,970	220	3540 - 4400
50%	2	0.5	3,000	152	2700 - 3300

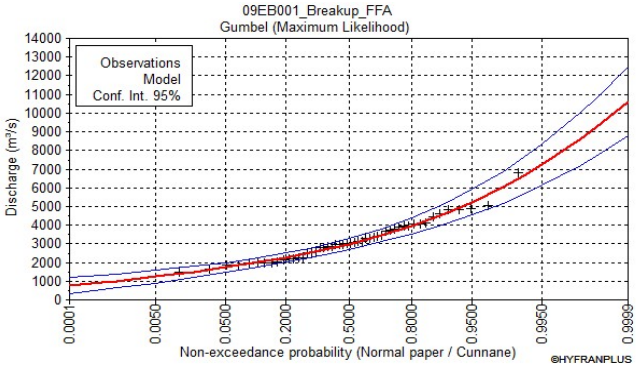


WSC Station 09EB001 - YUKON RIVER AT DAWSON
FFA results

Breakup - Alternate Distributions

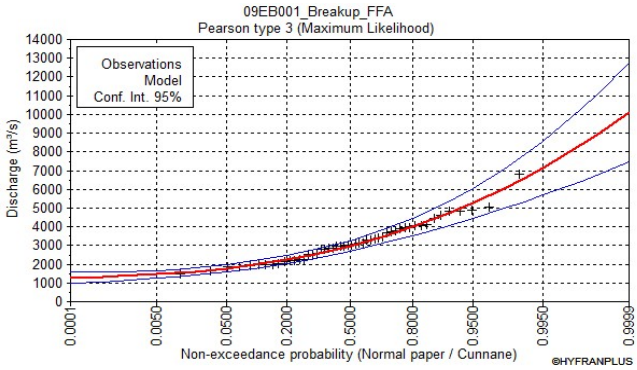
Gumbel

AEP	q	Q (m^3/s)	C.I.
0.2%	0.998	8020	6750 - 9300
0.5%	0.995	7230	6130 - 8340
1%	0.99	6630	5660 - 7610
2%	0.98	6030	5190 - 6880
5%	0.95	5230	4550 - 5910
10%	0.9	4610	4060 - 5170
20%	0.8	3970	3530 - 4400
50%	0.5	2990	2710 - 3270



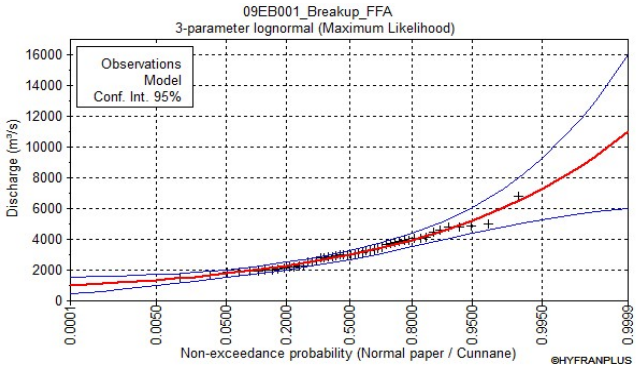
Pearson Type 3

AEP	q	Q (m^3/s)	C.I.
0.2%	0.998	7850	6130 - 9570
0.5%	0.995	7140	5700 - 8590
1%	0.99	6600	5350 - 7840
2%	0.98	6030	4990 - 7080
5%	0.95	5260	4470 - 6060
10%	0.9	4650	4030 - 5260
20%	0.8	3990	3540 - 4440
50%	0.5	2970	2670 - 3260



Log Normal 3 Parameters

AEP	q	Q (m^3/s)	C.I.
0.2%	0.998	8110	5540 -10700
0.5%	0.995	7280	5290 - 9260
1%	0.99	6660	5060 - 8250
2%	0.98	6040	4800 - 7290
5%	0.95	5230	4380 - 6080
10%	0.9	4610	3990 - 5220
20%	0.8	3960	3520 - 4400
50%	0.5	2980	2690 - 3280



WSC Station 09EB001 - YUKON RIVER AT DAWSON

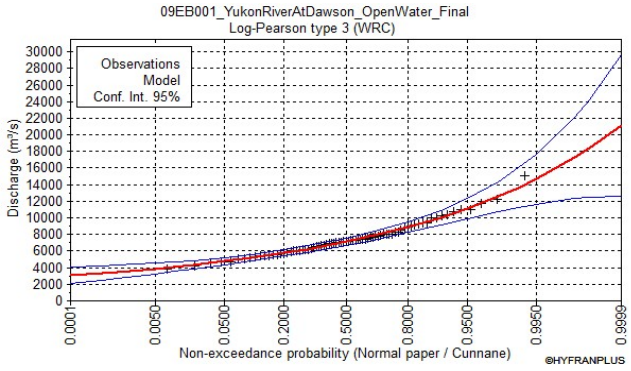
FFA results

Open Water

Date	Daily Average Max Q (m^3/s)	Scaled Max Q (m^3/s)
22-May-45	6,650	6,740
31-May-46	7,330	7,420
2-Jun-47	7,900	8,000
2-Jun-48	7,220	7,310
27-Jun-49	7,360	7,450
13-May-50	6,090	6,170
3-Jun-51	4,640	4,700
3-Jul-52	6,140	6,220
3-Jul-56	5,410	5,480
24-May-57	10,600	10,740
13-Jun-58	5,920	6,000
21-May-59	7,820	7,920
1-Aug-60	6,510	6,590
13-Jun-61	10,100	10,230
18-Jun-62	10,900	11,040
14-Jul-63	7,900	8,000
11-Jun-64	14,900	15,090
3-Jun-65	6,600	6,680
21-Jun-66	6,990	7,080
6-Jun-67	9,830	9,960
26-May-68	7,280	7,370
15-Jun-69	6,120	6,200
9-Jun-70	6,970	7,060
16-Jun-71	7,620	7,720
3-Jun-72	12,100	12,250
24-Jun-73	6,800	6,890
5-Jun-74	6,200	6,280
6-Jun-75	-	9,230
17-Jul-76	-	7,650
4-Jun-77	-	7,110
9-Jun-78	-	5,580
9-Jul-79	-	7,450
13-Jun-80	-	6,100
3-Jun-81	6,589	6,670
16-Jun-82	8,410	8,520
6-Jun-83	8,794	8,910
4-Jul-84	6,487	6,570
10-Jun-85	9,922	10,050
25-Jun-86	7,692	7,790
5-Jun-87	8,640	8,750
19-Jul-88	7,948	8,050
11-Jun-89	5,538	5,610
5-Jun-90	7,230	7,320
5-Aug-91	5,923	6,000
24-Jun-92	10,897	11,040
8-Jun-93	8,948	9,060
27-Jun-94	5,615	5,690
15-May-95	5,230	5,300
11-Jun-96	5,077	5,140
10-Jun-97	7,641	7,740
31-May-98	5,897	5,970
19-Jun-99	5,769	5,840
19-Jun-00	8,205	8,310
17-Jun-01	9,230	9,350
28-Aug-02	5,769	5,840
12-Jun-03	4,974	5,040
11-Jun-04	7,230	7,320
28-May-05	7,897	8,000
22-Jun-06	6,974	7,060
8-Jun-07	7,102	7,190
29-Aug-08	7,128	7,220
14-Jun-09	6,846	6,930
12-Jun-10	4,205	4,260
28-May-11	6,846	6,930
15-Jun-12	8,128	8,230
4-Jun-13	11,589	11,740
19-Jun-14	5,307	5,380
30-May-15	6,359	6,440
29-May-16	5,410	5,480
2-Aug-17	4,513	4,570
4-Jul-18	4,974	5,040
3-Jun-19	3,820	3,870
23-Jun-20	9,307	9,430
8-Jun-21	7,433	7,530
12-Jun-22	-	10,400
24-May-23	-	9,120
17-Jun-24	4,690	4,750

Selected Distribution:
Log-Pearson Type 3

AEP	T	q	Q (m^3/s)	Standard	C.I.
0.2%	500	0.998	16,100	2060	12100 - 20200
0.5%	200	0.995	14,700	1550	11600 - 17700
1%	100	0.99	13,600	1220	11200 - 16000
2%	50	0.98	12,500	930	10700 - 14400
5%	20	0.95	11,100	621	9920 - 12400
10%	10	0.9	10,000	446	9170 - 10900
20%	5	0.8	8,890	323	8250 - 9520
50%	2	0.5	7,110	226	6670 - 7550

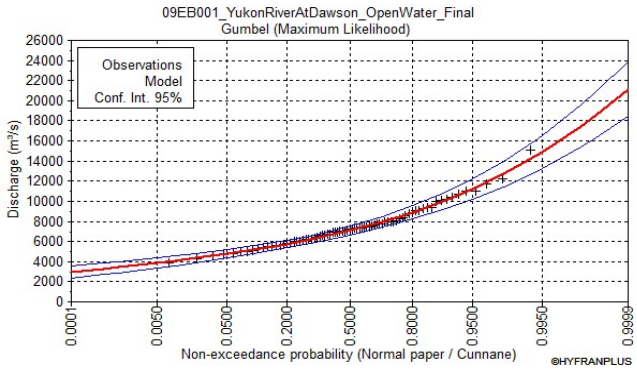


WSC Station 09EB001 - YUKON RIVER AT DAWSON
FFA results

Open Water - Alternate Distributions

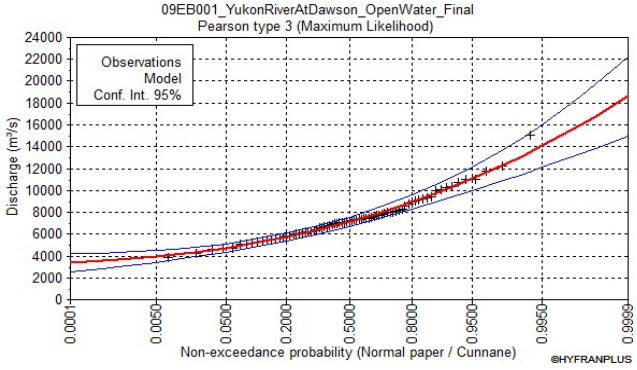
Gumbel

AEP	q	Q (m^3/s)	C.I.
0.2%	0.998	16400	14500 -18300
0.5%	0.995	14900	13300 -16600
1%	0.99	13800	12400 -15300
2%	0.98	12700	11500 -14000
5%	0.95	11200	10200 -12200
10%	0.9	10100	9260 -10900
20%	0.8	8890	8250 - 9530
50%	0.5	7090	6680 - 7510



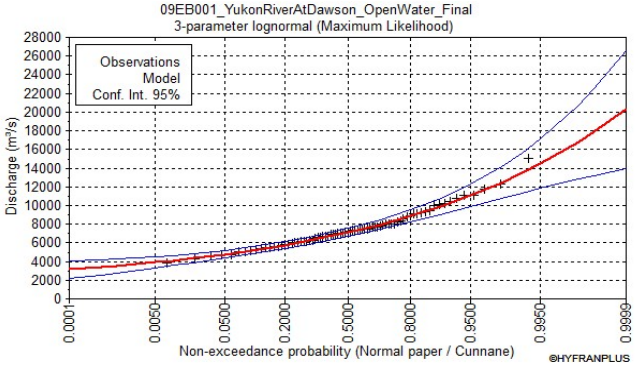
Pearson Type 3

AEP	q	Q (m^3/s)	C.I.
0.2%	0.998	15200	12800 -17500
0.5%	0.995	14100	12100 -16000
1%	0.99	13200	11500 -14900
2%	0.98	12300	10900 -13700
5%	0.95	11100	10000 -12100
10%	0.9	10000	9220 -10900
20%	0.8	8930	8310 - 9560
50%	0.5	7130	6690 - 7570



Log Normal 3 Parameters

AEP	q	Q (m^3/s)	C.I.
0.2%	0.998	15800	12400 -19200
0.5%	0.995	14500	11800 -17100
1%	0.99	13500	11300 -15600
2%	0.98	12500	10800 -14100
5%	0.95	11100	9920 -12300
10%	0.9	10000	9170 -10900
20%	0.8	8890	8260 - 9510
50%	0.5	7110	6670 - 7550



WSC Station 09EB001 Breakup Stage (WSE) Annual Maximum Data Series

	Breakup Peak from sub-hourly Stage Hydrographs (hydrographs from M. Jasek, YG WRB, and WSC Station 09EB001)	Breakup Peak from Ric Janowicz Dataset (Dawson Break-up Statistics-2018), some published in Janowicz (2010)	Footnotes on Source of "Dawson Break-up Statistics-2018" and "Dawson Historical break-up stages-2017" (R. Janowicz spreadsheets)	Breakup Peak from Turcotte et al. (2024b) (from column X in "Dawson_water_level_data_FFA_Stantec.xlsx" spreadsheet)	Breakup Peak WSE for FFA	Notes on Source/Rationale for Inclusion
Year	WSE (m, in CGVD2013)	WSE (m, in CGVD2013)		WSE (m, in CGVD2013)		
1896		314.092	3 - unsure			
1897		314.092	3 - unsure			
1898		314.092	3 - unsure			
1899		315.592	3 - unsure			
1900		316.092	3 - unsure			
1901		316.492	3 - unsure			
1902		315.592	3 - unsure			
1903		316.092	3 - unsure			
1904		316.592	3 - unsure			
1905		316.092	3 - unsure			
1906		316.592	3 - unsure			
1907		314.092	3 - unsure			
1908		314.092	3 - unsure			
1909		315.092	3 - unsure			
1910		314.092	3 - unsure			
1911		314.092	3 - unsure			
1912		316.092	3 - unsure			
1913		314.592	3 - unsure			
1914		316.092	3 - unsure			
1915		314.092	3 - unsure			
1916		316.592	3 - unsure			
1917		314.092	3 - unsure			
1918		316.592	3 - unsure			
1919		316.592	3 - unsure			
1920		316.092	3 - unsure			
1921		314.092	3 - unsure			
1922		316.592	3 - unsure			
1923		316.592	3 - unsure			
1924		317.092	3 - unsure			
1925		318.902	5 - unsure			
1926		314.092	3 - unsure			
1927		314.592	3 - unsure			
1928		315.092	3 - unsure			
1929		314.092	3 - unsure			
1930		314.092	3 - unsure			
1931		314.092	3 - unsure			
1932		314.092	3 - unsure			
1933		315.092	3 - unsure			
1934		316.992	3 - unsure			
1935		314.092	3 - unsure			
1936		314.092	3 - unsure			
1937		316.092	3 - unsure			
1938		314.092	3 - unsure			
1939		314.092	3 - unsure			
1940		316.092	3 - unsure			
1941		314.092	3 - unsure			
1942		314.092	3 - unsure			
1943		316.092	3 - unsure			
1944		319.792	5 - unsure			
1945		316.282	1 - unsure			
1946		316.152	1 - unsure			
1947		317.582	1 - unsure			
1948		316.492	1 - unsure			
1949		316.732	1 - unsure			
1950		316.022	1a - unsure			
1951		314.972	1 - unsure			
1952		315.362	1 - unsure			
1953		315.592	3 - unsure			
1954		315.592	3 - unsure			
1955		315.592	3 - unsure			
1956		316.292	3 - unsure			
1957		316.322	1 - unsure			
1958		314.122	1 - unsure			
1959		316.092	1 - unsure			

WSC Station 09EB001 Breakup Stage (WSE) Annual Maximum Data Series

	Breakup Peak from sub-hourly Stage Hydrographs (hydrographs from M. Jasek, YG WRB, and WSC Station 09EB001)	Breakup Peak from Ric Janowicz Dataset (Dawson Break-up Statistics-2018), some published in Janowicz (2010)	Footnotes on Source of "Dawson Break-up Statistics-2018" and "Dawson Historical break-up stages-2017" (R. Janowicz spreadsheets)	Breakup Peak from Turcotte et al. (2024b) (from column X in "Dawson_water_level_data_FFA_Stantec.xlsx" spreadsheet)	Breakup Peak WSE for FFA	Notes on Source/Rationale for Inclusion
1960		320.102	1 - unsure, 3 - unsure			
1961		314.592	1a - unsure			
1962		315.592	3 - unsure			
1963		314.632	1a - unsure			
1964		316.092	1a - unsure, 3 - unsure			
1965		316.322	1 - unsure			
1966		319.592	3 - unsure			
1967		315.252	1 - unsure			
1968		314.092	1a			
1969		314.242	1,3			
1970		314.642	1,3	314.64		
1971		314.652	1 - unsure	314.65		
1972		316.322	1 - unsure	316.32		
1973		315.592	1a - unsure, 3 - unsure	315.59		
1974		314.192	1a - unsure, 3 - unsure	314.19		
1975		316.292	2a - unsure	316.29		
1976		314.992	2a - unsure	314.99		
1977		315.592	2a - unsure	315.59		
1978		315.592	2a - unsure	315.59		
1979		320.642	5 - unsure	320.64	320.64	1979 flood, everyone seems to agree on this, and it is published at this number in Gerard et al. 1992
1980		314.392	2a - unsure	314.39		
1981		315.592	2a - unsure	315.59		
1982		316.792	2a - unsure	316.79		
1983		314.592	2a - unsure	314.59		
1984		315.092	2a - unsure	315.09		
1985		315.892	2 - unsure	315.90		
1986		315.542	2a - unsure	315.55		
1987				315.01		
1988		315.853	11 - RJ-WSC Chart Review	315.85	315.853	Turcotte and Ric both use it, source is Ric reviewing chart
1989	317.558	317.339	7 - WSC Archived Web	317.34	317.558	from Gerard et al. 1992 stage hydrograph, a bit higher than Ric and Benoit
1990		316.430	7 - WSC Archived Web	316.43	316.430	Ric and Benoit both used it, seems reputable source
1991		315.669	11 - RJ-WSC Chart Review	316.67	315.669	adopt Ric's, Benoit's may have gotten his numbers mixed up with 1991 and 1993
1992				315.30		
1993		316.658	11 - RJ-WSC Chart Review	315.66	316.658	adopt Ric's, it was a Ric chart review, Benoit's may have gotten numbers mixed up with 1991 and 1993
1994		316.120	11 - RJ-WSC Chart Review	316.12	316.120	adopt, it was a Ric chart review
1995	316.232	316.228	6 - Martin Jasek High Water Survey	316.26	316.232	all sources close to one another, go with Martin's stage hydrograph
1996	316.288	316.288	6 - Martin Jasek High Water Survey	316.32	316.288	all sources close to one another, go with Martin's stage hydrograph
1997	315.761	315.758	6 - Martin Jasek High Water Survey	315.76	315.761	all sources close to one another, go with Martin's stage hydrograph
1998	317.914	318.018	6 - Martin Jasek High Water Survey	317.92	317.914	all sources close to one another, go with Martin's stage hydrograph because Ric's alludes to a high water survey which could have been at another location
1999		314.878	6 - Martin Jasek High Water Survey	314.88	314.878	Ric's data, decent source backup
2000		314.823	8 - Glenn Ford High Water Survey	314.85	314.823	Glenn Ford was a reputable source, adopt
2001		315.994	8 - Glenn Ford High Water Survey	315.99	315.994	Glenn Ford was a reputable source, adopt
2002	316.272	316.324	8 - Glenn Ford High Water Survey	316.27	316.272	take hydrograph since we have the data, is close to Glenn Ford who was a reputable source, adopt
2003	315.044	315.044	10 - Recorder Adjusted	315.02	315.044	agreement across all sources, take hydrograph
2004	317.005	316.667	7 - WSC Archived Web	316.67	317.005	take hydrograph since it is most detailed; variance of 0.3 m is high and conservative
2005	316.357	316.492	7 - WSC Archived Web	316.49	316.357	take hydrograph since it is most detailed; variance of 0.15 m ok
2006		316.053	7 - WSC Archived Web	315.93	316.053	
2007	315.209	315.209	10 - Recorder Adjusted	314.49	315.209	BT's number is low, but he makes a note about that - take hydrograph which aligns with Rics
2008	315.233	315.233	10 - Recorder Adjusted	315.23	315.233	all agree with hydrograph
2009	317.836	317.970	9 - Janowicz/Ford High Water Survey	317.97	317.836	take hydrograph since it is most detailed; variance of 0.15 m ok
2010	314.948	314.948	12 - Alaska River Forecast Centre Public Website - tabular data	314.73	314.948	hydrograph and Ric agreed, BT had a note, take hydrograph
2011	315.560	315.561	12 - Alaska River Forecast Centre Public Website - tabular data	315.38	315.560	hydrograph and Ric agreed, BT had a note, take hydrograph
2012	315.430	315.453	12 - Alaska River Forecast Centre Public Website - tabular data	315.43	315.430	hydrograph and BT agreed, Ric close, take hydrograph
2013	317.496	317.496	12 - Alaska River Forecast Centre Public Website - tabular data	317.50	317.496	all agree, take hydrograph
2014	315.545	315.630	13 - Janowicz/Williams High Water Survey	315.55	315.545	hydrograph and BT agreed, Ric close, take hydrograph
2015	314.596	314.548	14 - WSC real time data - preliminary	314.57	314.596	all close, take hydrograph
2016	314.609	314.609	14 - WSC real time data - preliminary	314.58	314.609	all close, take hydrograph
2017	315.384	315.138	not stated	315.27	315.384	some variability but within 0.25 m; take hydrograph
2018	315.549			315.54	315.549	WSC stage data
2019	314.831			314.72	314.831	WSC stage data
2020	315.520			315.52	315.520	WSC stage data
2021	317.636			317.64	317.636	WSC stage data
2022	316.635			316.64	316.635	WSC stage data
2023	317.386			317.47	317.386	WSC stage data
2024	316.752			315.78	316.752	WSC stage data; unsure why does not align with BT, but take ours

Appendix C Fluvial Erosion Hazard Assessment

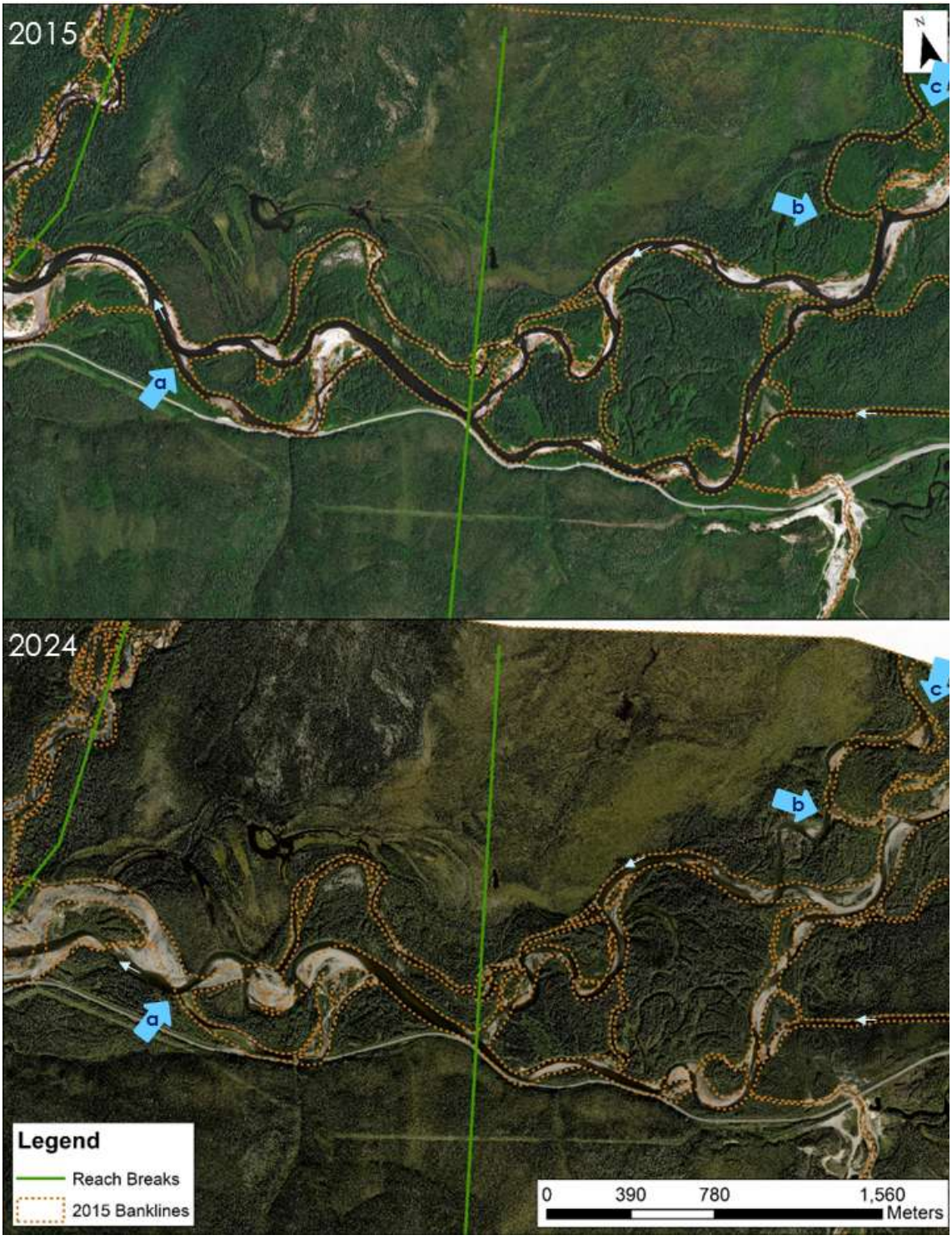


Figure C-1 Locations of avulsions in Reach 14 (left of green line) and Reach 15 (right of green line). White arrows indicate flow direction.

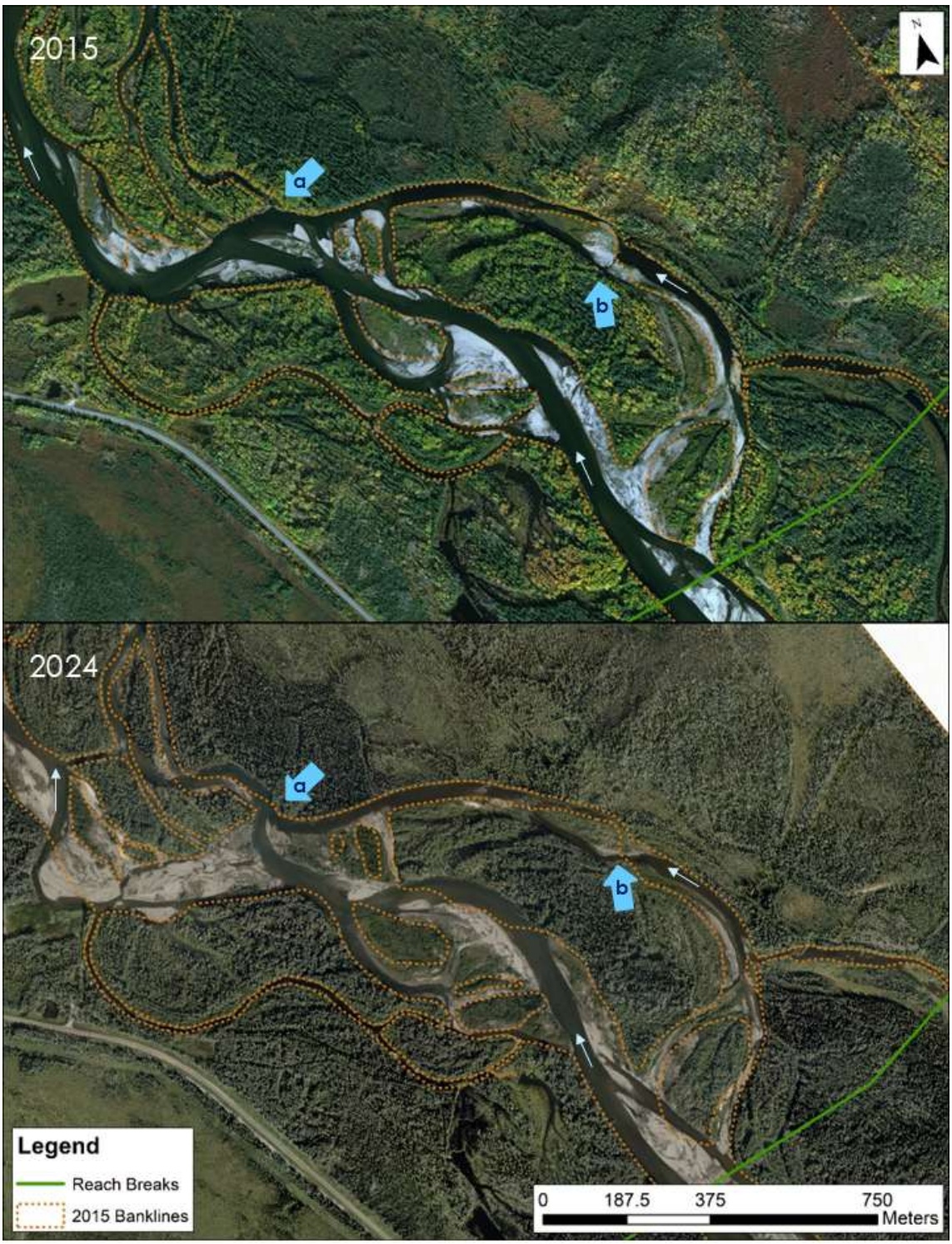


Figure C-2 Locations of a meander cut-off (a) and avulsion (b) in Reach 10. White arrows indicate flow direction.

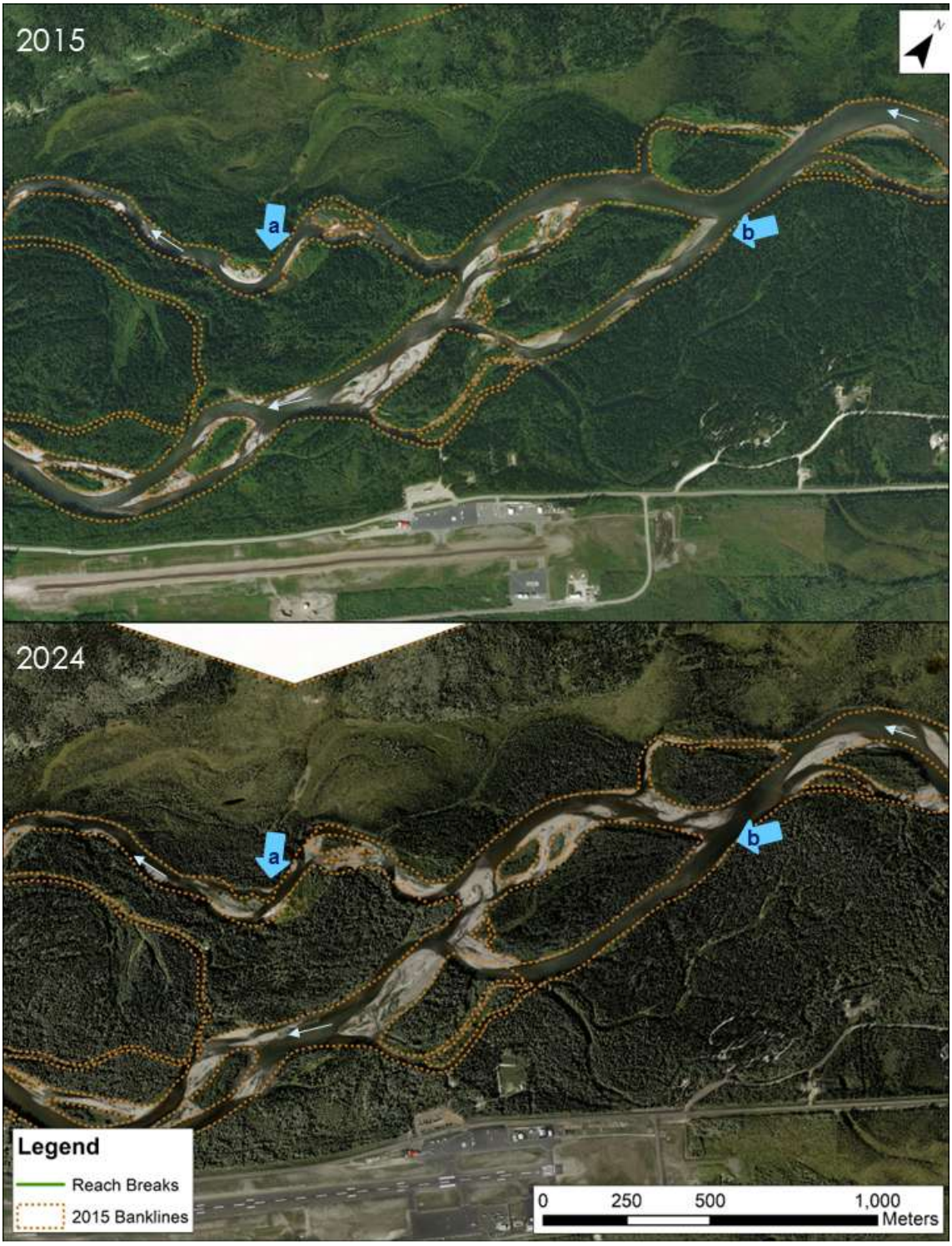


Figure C-3 Locations of meander cut-off (a) and potential channel avulsion (b) in Reach 5. White arrows indicate flow direction.

Figure C-4 Location of avulsion in Reach 3. White arrows indicate flow direction.

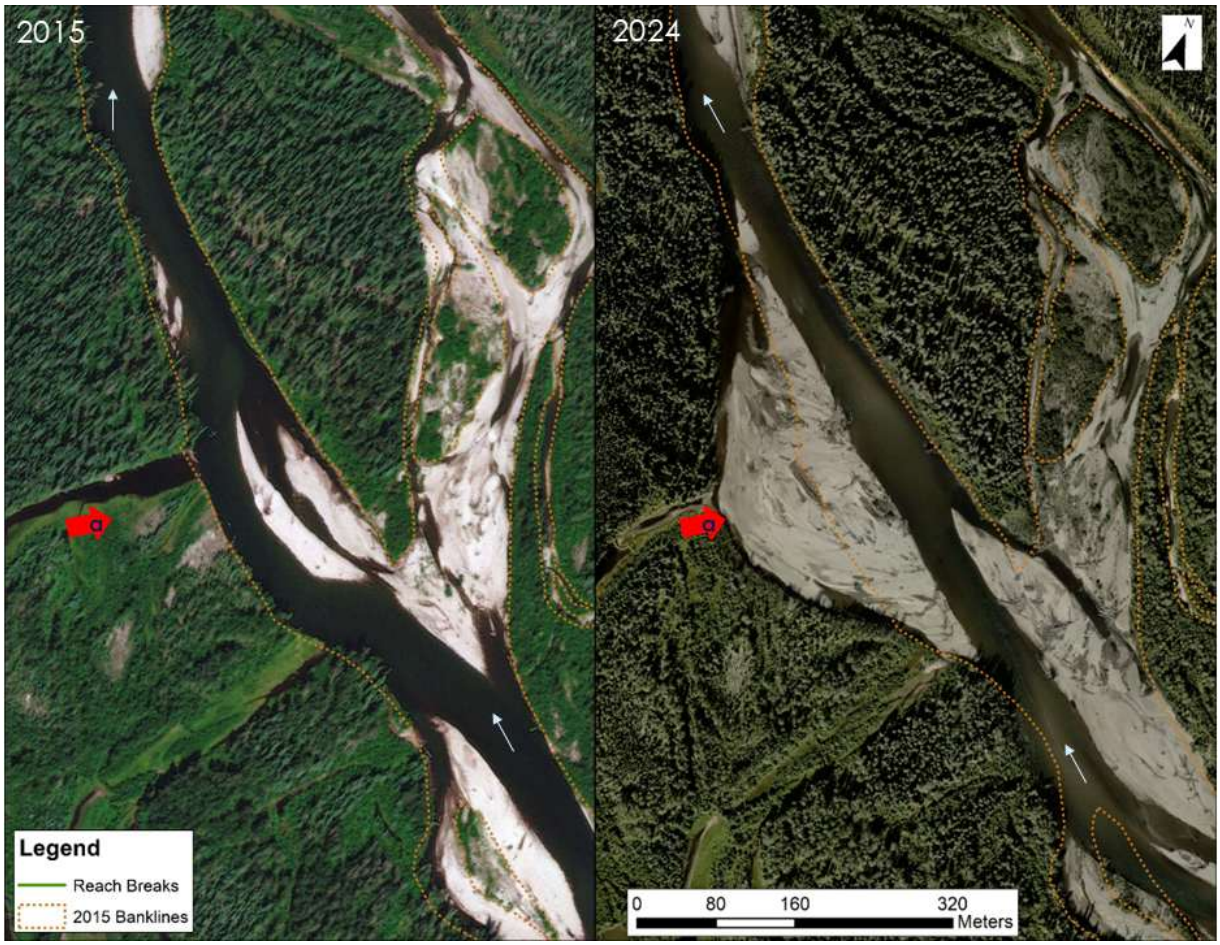


Figure C-5 Location of bank erosion in Reach 13. White arrows indicate flow direction.

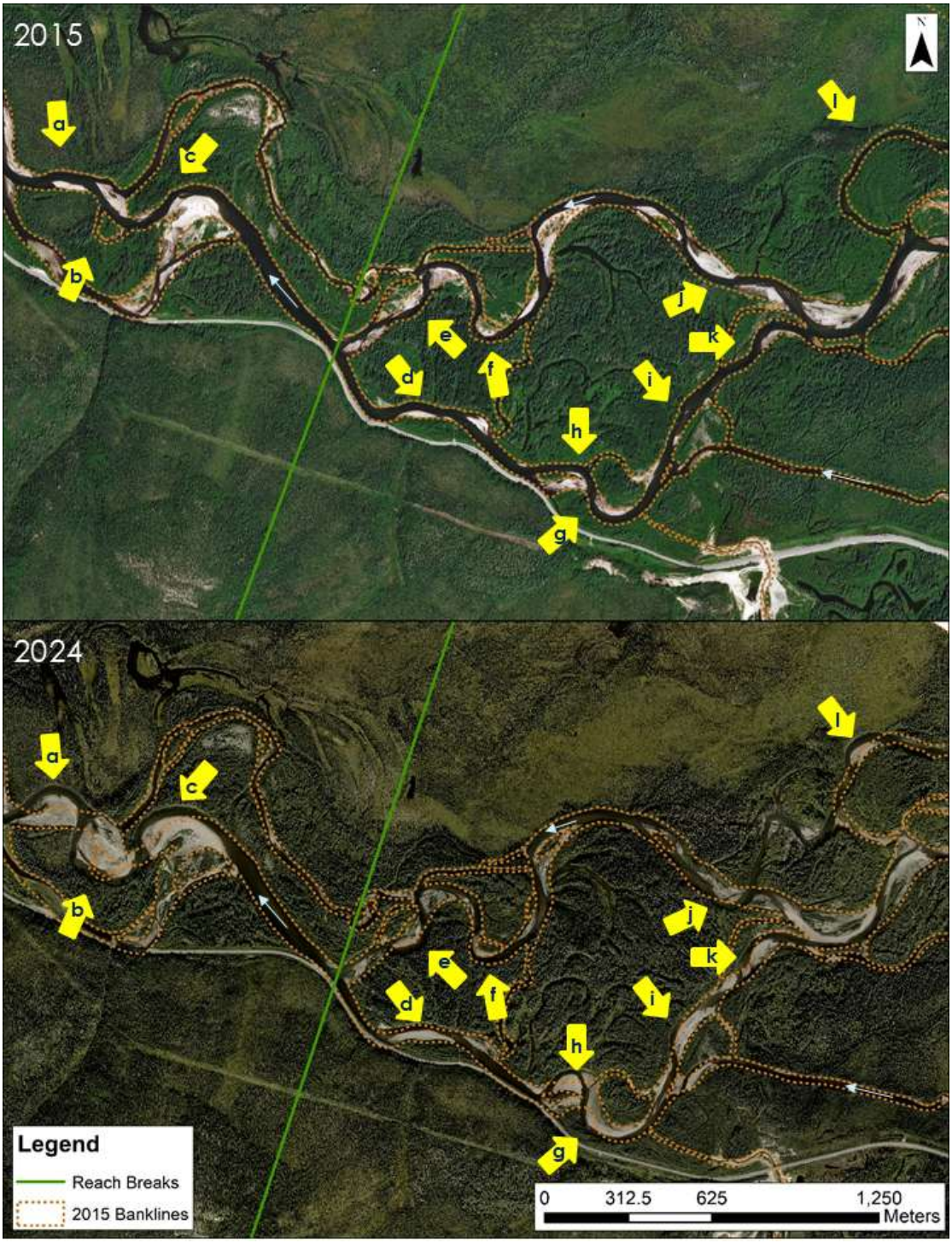


Figure C-6 Location of meander migration in Reach 14 (to the left of the green line) and Reach 15 (to the right of the green line). White arrows indicate flow direction.

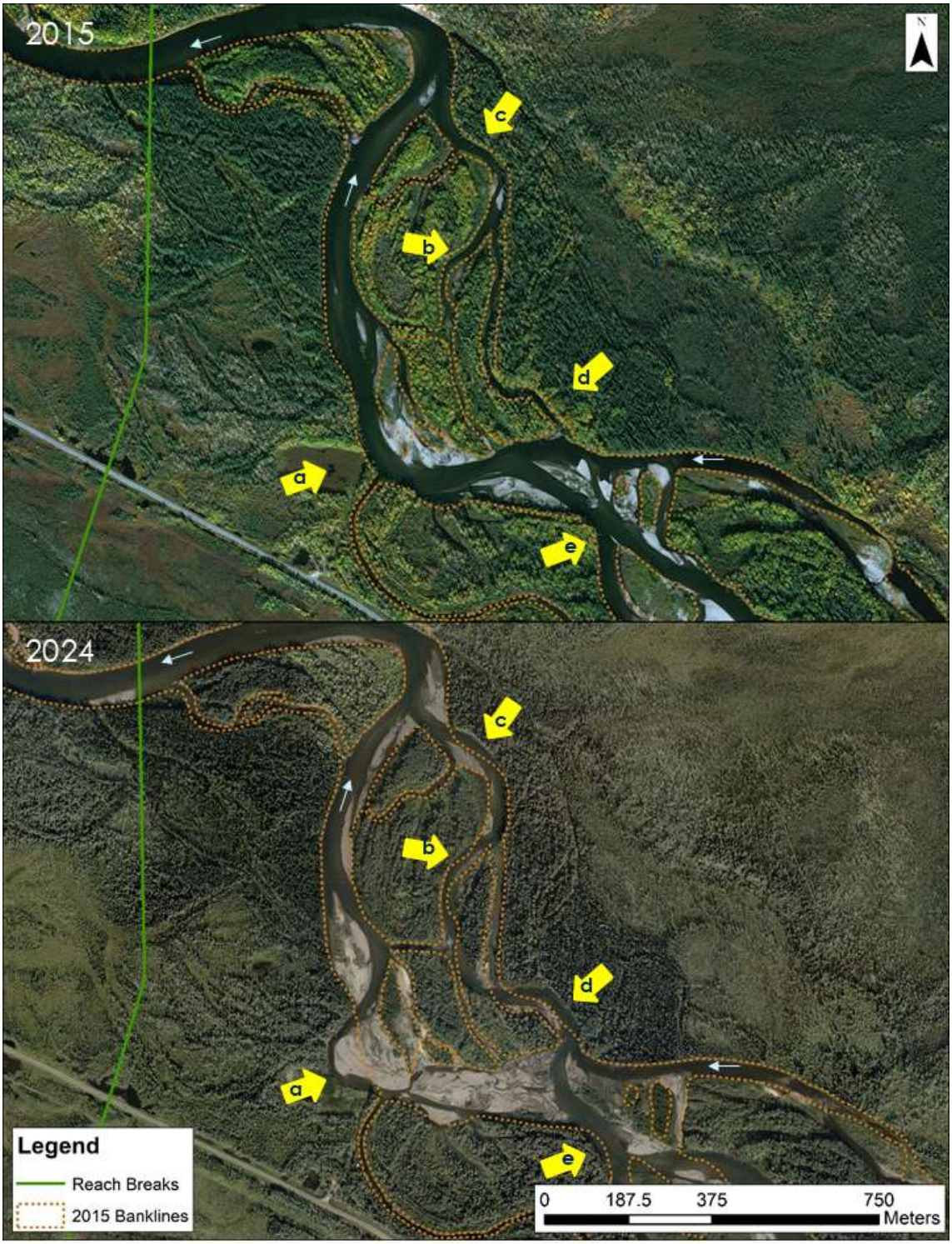


Figure C-7 Location of meander migration in Reach 10. White arrows indicate flow direction.

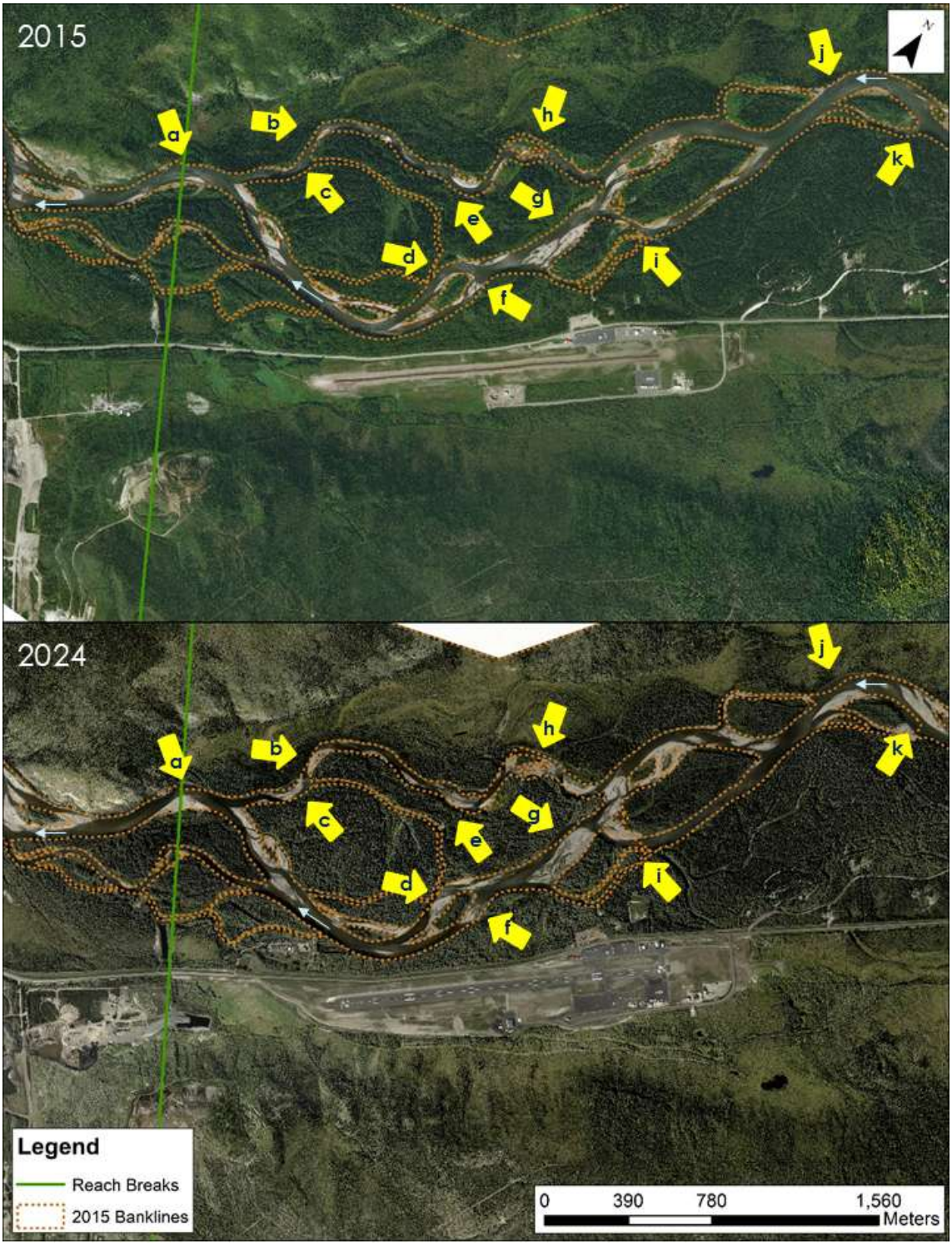


Figure C-8 Location of meander migration in Reach 5. White arrows indicate flow direction.

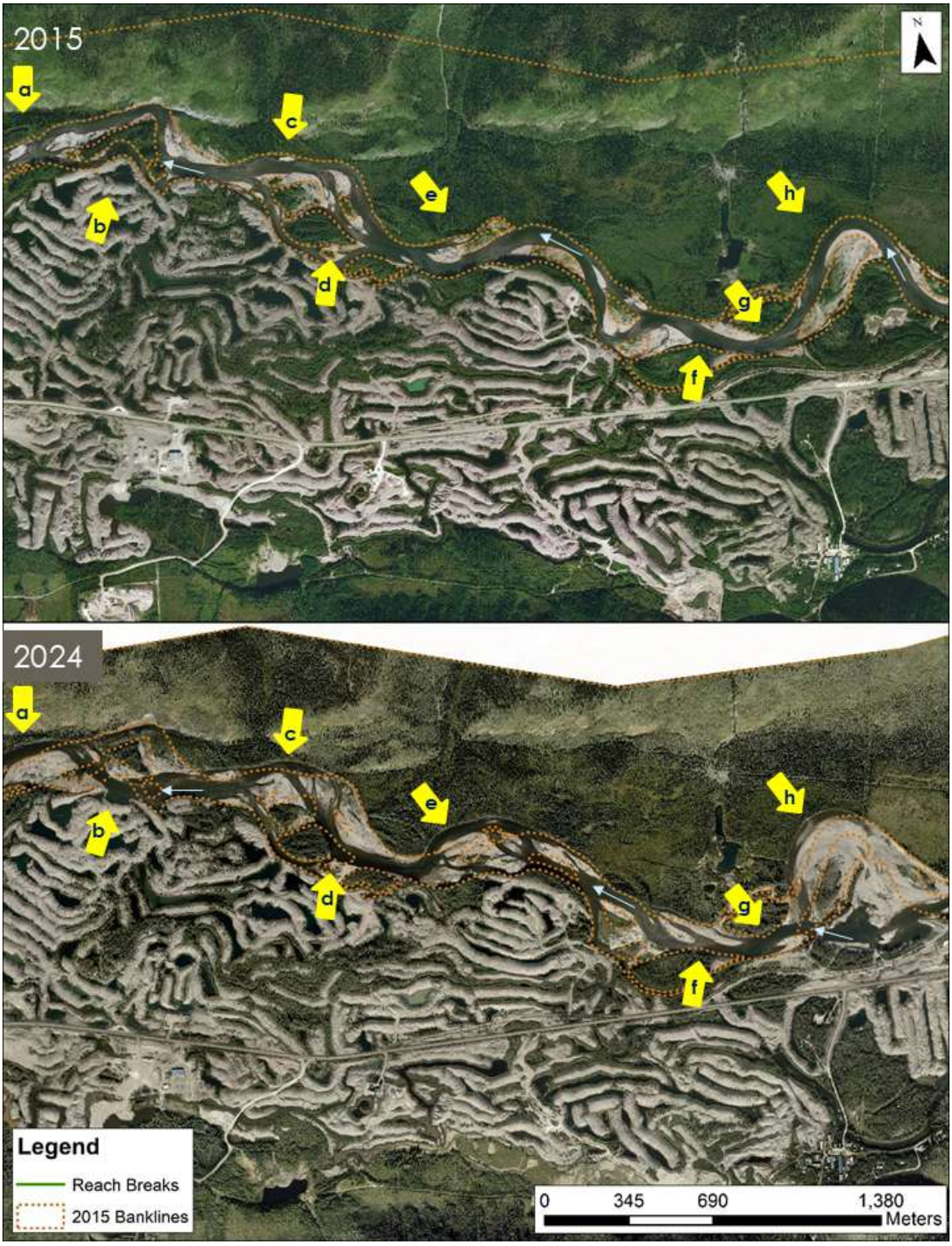


Figure C-9 Location of meander migration in Reach 3. White arrows indicate flow direction.

Figure C-10 Location of bar evolution in Reach 3. White arrows indicate flow direction.

Figure C-11 Location of bar erosion in Reach 1. White arrows indicate flow direction.

Figure C-12 Accumulations of large wood in South Klondike River (Reach 15), shown spanning the mouths of side channels (a and b) and partially blocking a side channel (c). Base image is from the 2024 orthoimagery.

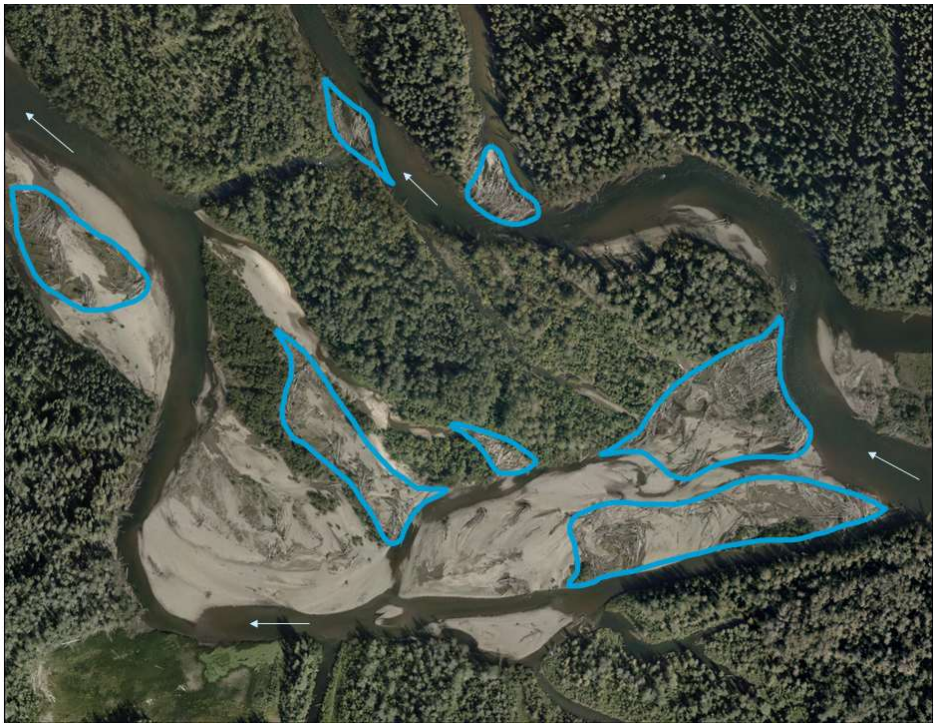


Figure C-13 Accumulations of woody debris in Reach 10 current mainstem (top-right channel) and former mainstem (bottom-left channel). Base image is from the 2024 orthoimagery.

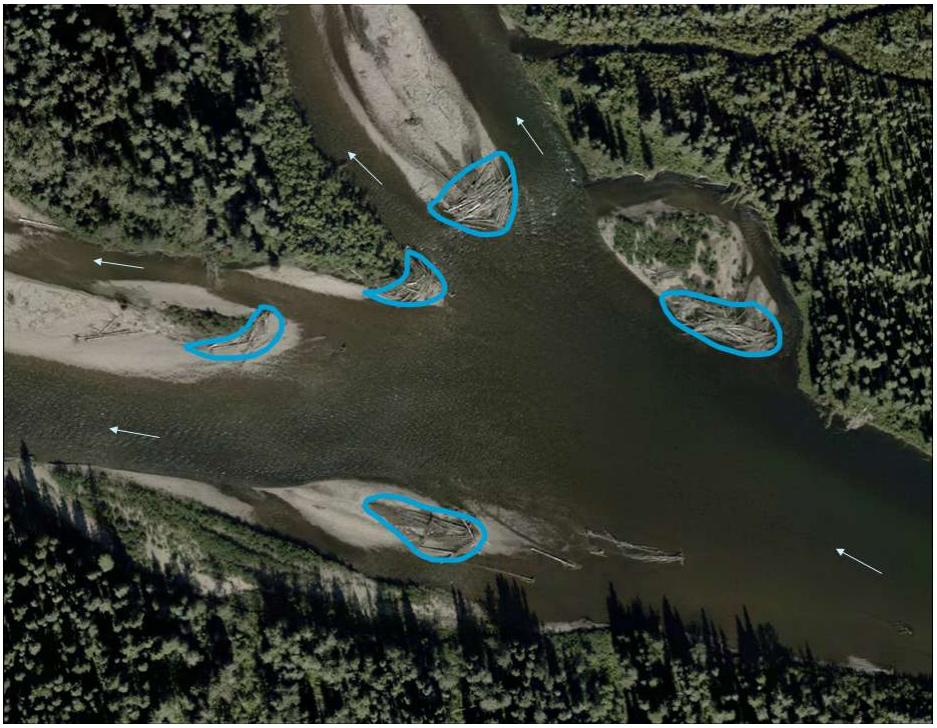


Figure C-14 Accumulations of large wood at upstream extents of bars in Reach 8.

Figure C-15 Images showing beaver dams within side-channels of Klondike River in Reach 11 (left) and Reach 15 (right).

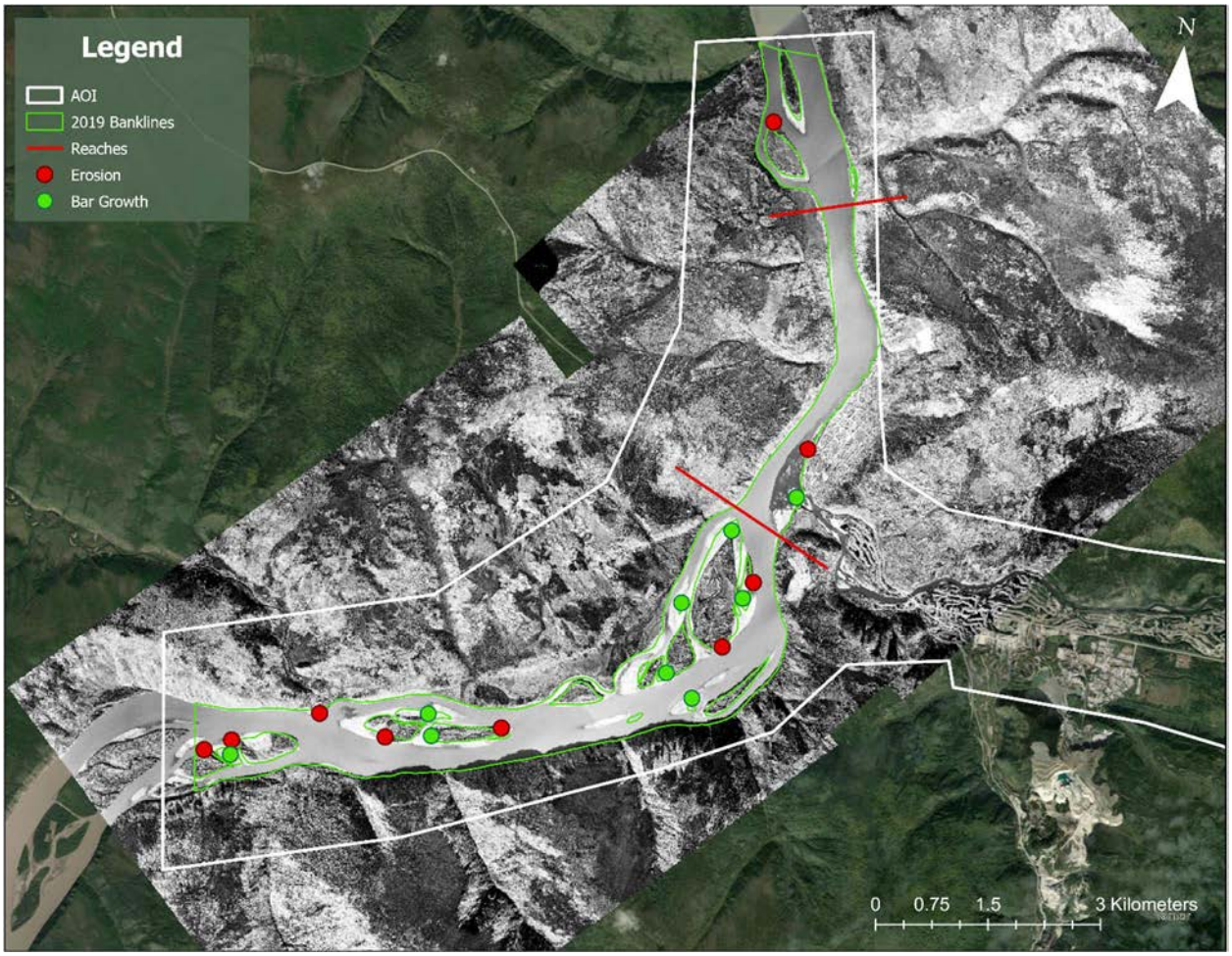


Figure C-16 Imagery of Yukon River from 1961 overlain by delineated banklines from 2019 and locations of identified erosion (red dots) and bar growth (green dots).

Appendix D Detailed Site Survey

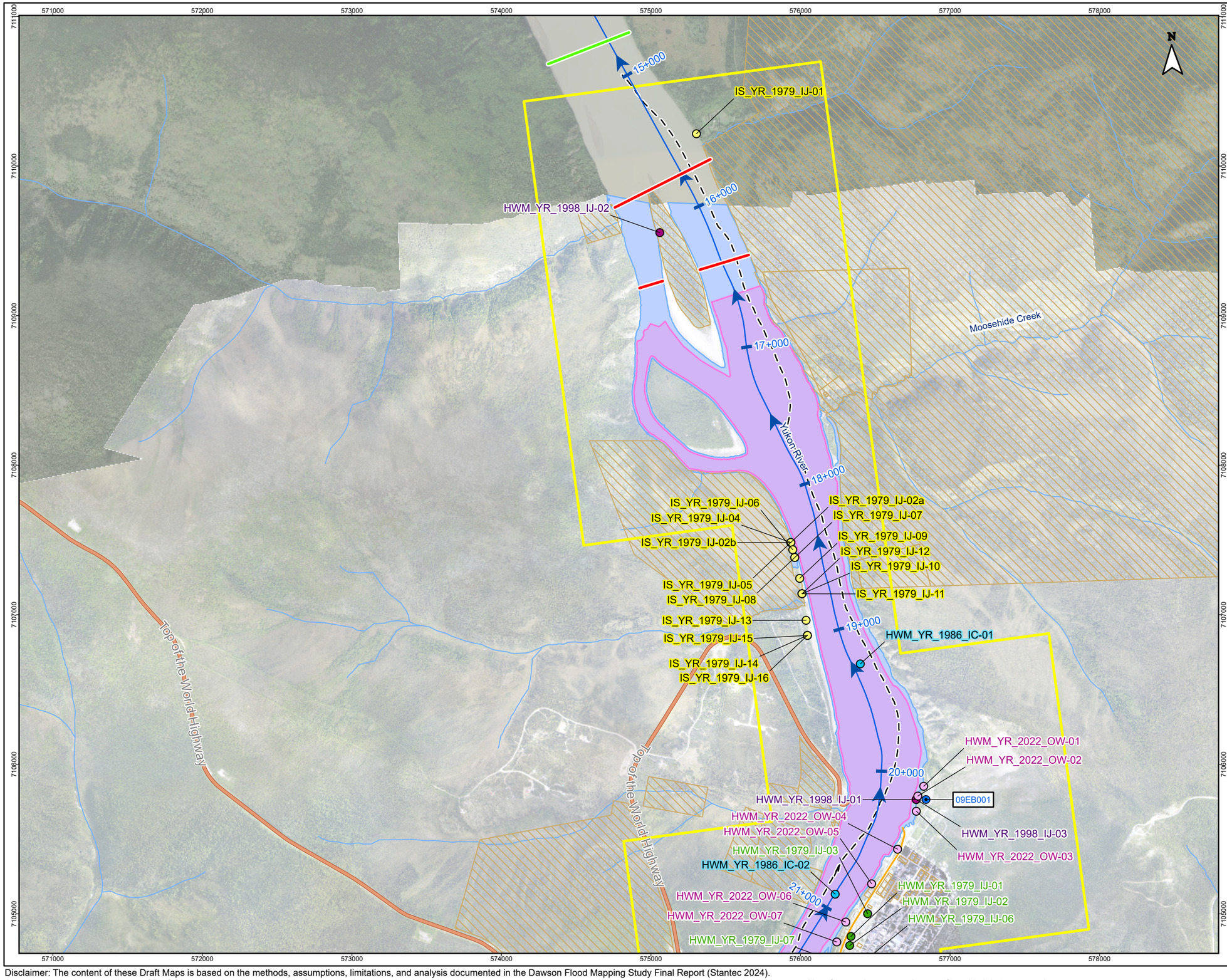


Figure No.

D-1

Title:

Dawson Flood Mapping Study
Detailed Site Survey

Client/Project:

Government of Yukon
Department of Environment
Water Resources Branch

Project: 123222713

Project Location:

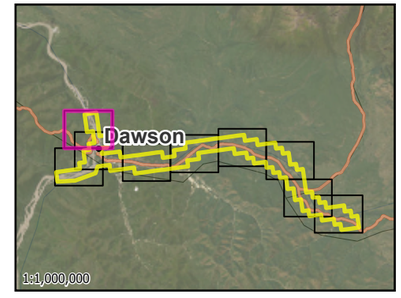
Dawson, Yukon

Prepared by MAINSLEY on 2024-12-16
Requested by JMUIRHEAD on 2024-11-01
Review by JMUIRHEAD on 2024-12-16

- HWM - 1979 Yukon River Ice Jam Event
- Ice Scar - 1979 Yukon River Ice Jam Event
- HWM - 1986 Ice Cover (March)
- HWM - 1998 Yukon River Ice Jam Event
- HWM - 2022 Yukon River Open Water Event
- HMW - 2023 Klondike River Ice Jam Events
- HWM - 2023 Klondike River Open Water Event
- Survey Control
- WSC Stations
- ADCP Flow Measurement
- Survey Cross Sections
- WSE - 2024 Longitudinal Profile Survey
- River Alignment with Stationing (m)
- Watercourse
- Highway
- Study Area
- Main River Channnel
- Tr'ondëk Hwëch'in Settlement Land
- Full Bathymetry - Single Beam + Multibeam

0 500 1,000 1,500
Metres

(At original document size of 11x 17) 1:25,000



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.

Stantec

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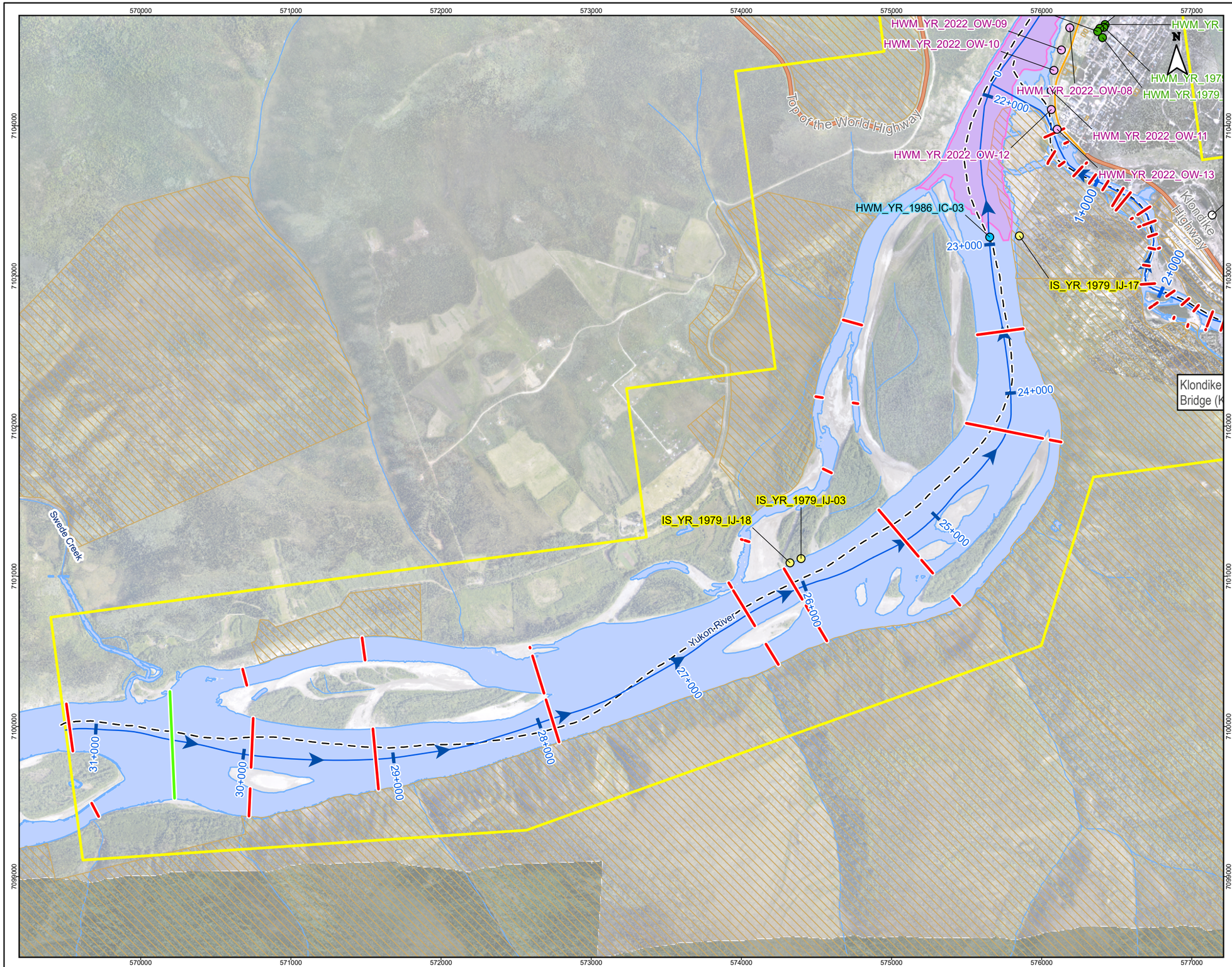


Figure No.

D-2

Title:

Dawson Flood Mapping Study
Detailed Site Survey

Client/Project:

Government of Yukon
Department of Environment
Water Resources Branch

Project: 123222713

Project Location:

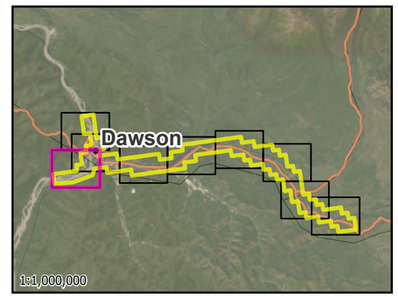
Dawson, Yukon

Prepared by MAINSLEY on 2024-12-16
Requested by JMUIRHEAD on 2024-11-01
Review by JMUIRHEAD on 2024-12-16

- HWM - 1979 Yukon River Ice Jam Event
- Ice Scar - 1979 Yukon River Ice Jam Event
- HWM - 1986 Ice Cover (March)
- HWM - 1998 Yukon River Ice Jam Event
- HWM - 2022 Yukon River Open Water Event
- HMW - 2023 Klondike River Ice Jam Events
- HWM - 2023 Klondike River Open Water Event
- Survey Control
- WSC Stations
- ADCP Flow Measurement
- Survey Cross Sections
- WSE - 2024 Longitudinal Profile Survey
- River Alignment with Stationing (m)
- Watercourse
- Highway
- Study Area
- Main River Channnel
- Tr'ondëk Hwëch'in Settlement Land
- Full Bathymetry - Single Beam + Multibeam

0 500 1,000 1,500
Metres

(At original document size of 11x 17) 1:25,000



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.

Stantec

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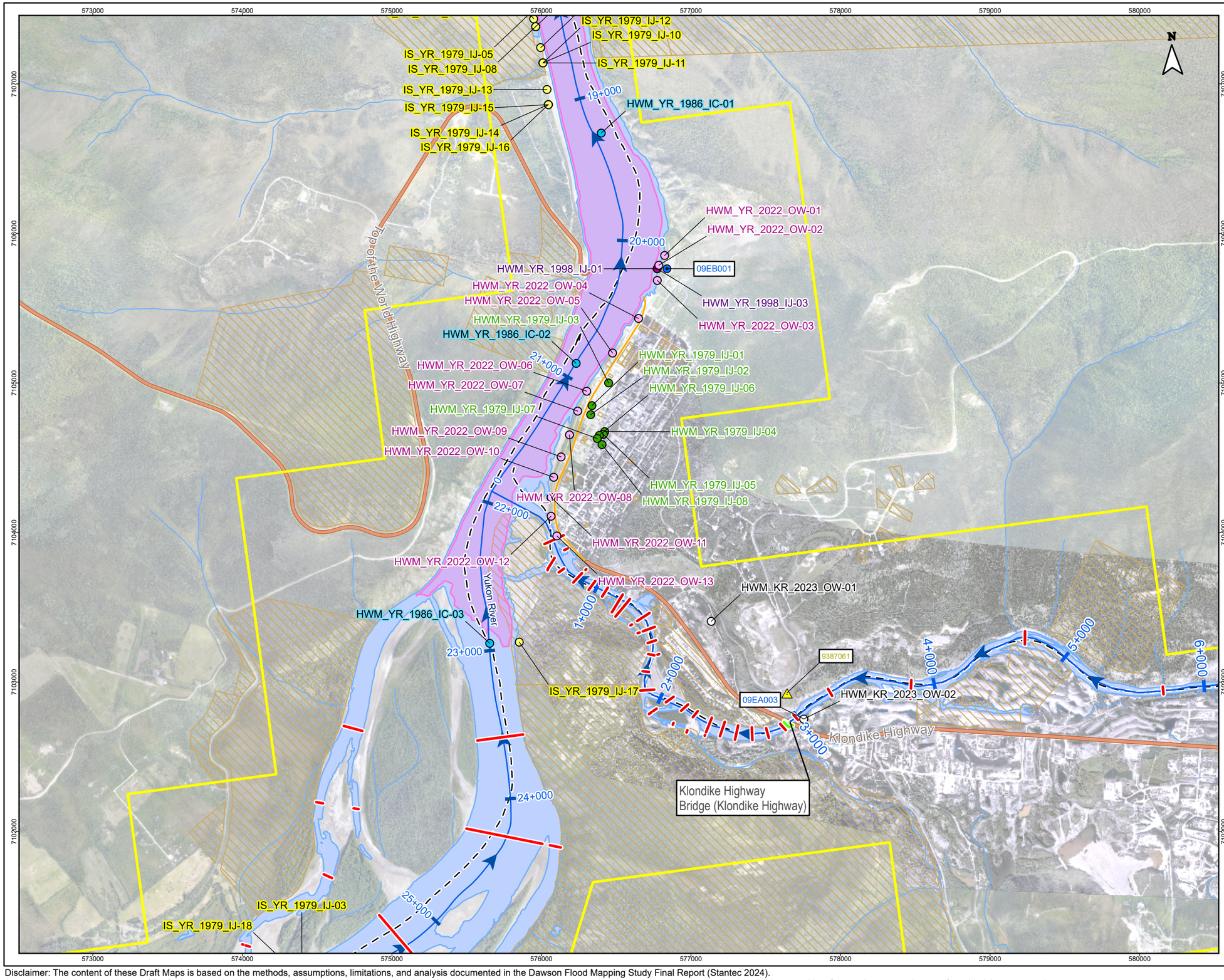

Figure No.

D-3

Title:

Dawson Flood Mapping Study
Detailed Site Survey

Client/Project:

Government of Yukon
Department of Environment
Water Resources Branch

Project: 123222713

Project Location:

Dawson, Yukon

Prepared by MAINSLEY on 2024-12-16
Requested by JMUIRHEAD on 2024-11-01
Review by JMUIRHEAD on 2024-12-16

- HWM - 1979 Yukon River Ice Jam Event
- Ice Scar - 1979 Yukon River Ice Jam Event
- HWM - 1986 Ice Cover (March)
- HWM - 1998 Yukon River Ice Jam Event
- HWM - 2022 Yukon River Open Water Event
- HMW - 2023 Klondike River Ice Jam Events
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- WSE - 2024 Longitudinal Profile Survey
- River Alignment with Stationing (m)
- Watercourse
- Highway
- Study Area
- Main River Channnel
- Tr'ondëk Hwëch'in Settlement Land
- Full Bathymetry - Single Beam + Multibeam

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Metres
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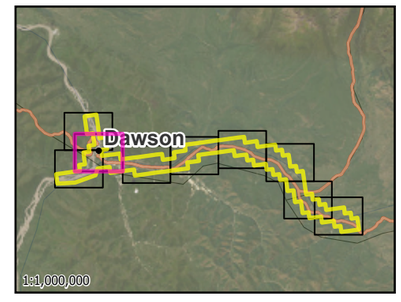

Notes

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.

Stantec

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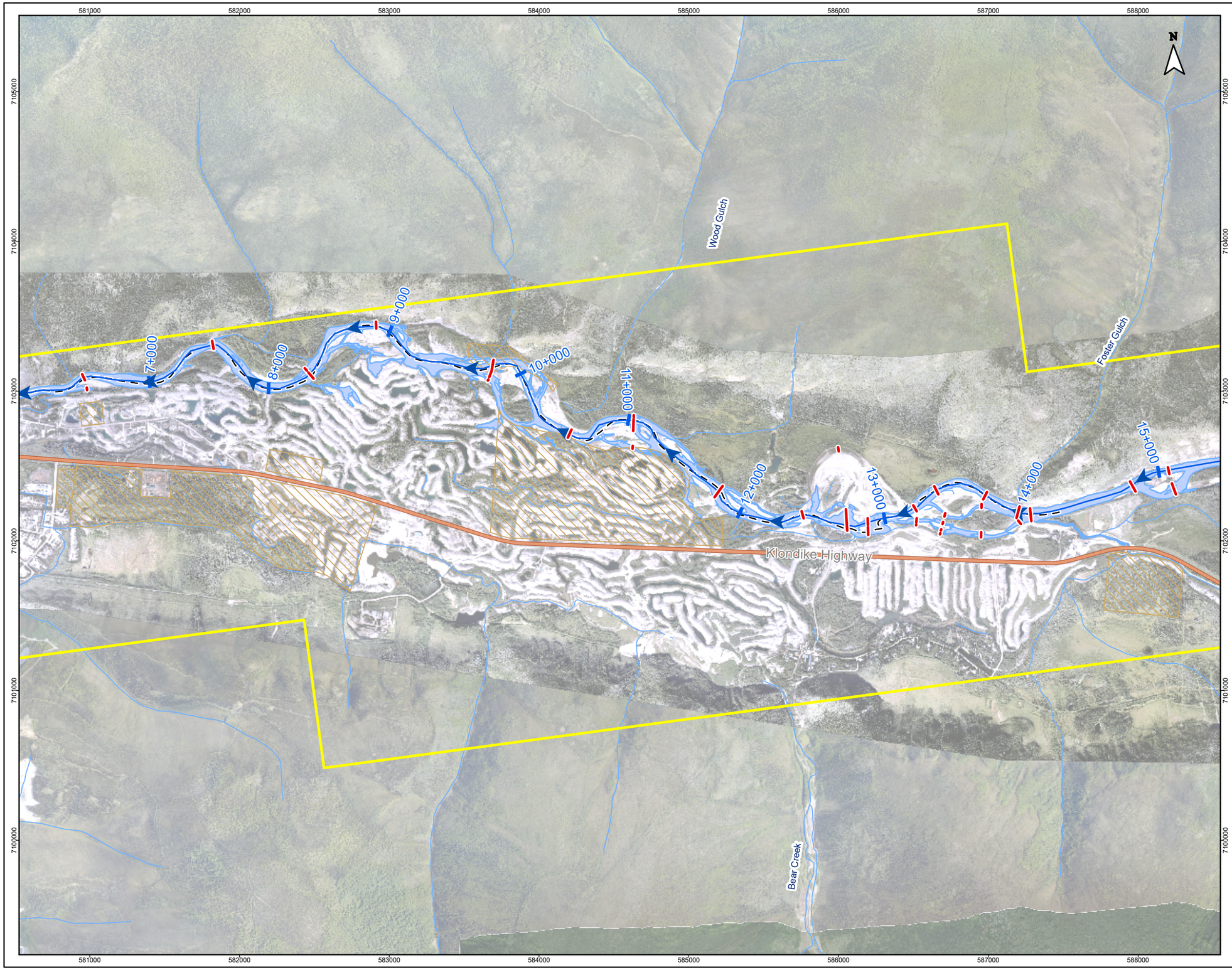

Figure No.

D-4

Title:

Dawson Flood Mapping Study
Detailed Site Survey

Client/Project:

Government of Yukon
Department of Environment
Water Resources Branch

Project: 123222713

Project Location:

Dawson, Yukon

Prepared by MAINSLEY on 2024-12-16
Requested by JMUIRHEAD on 2024-11-01
Review by JMUIRHEAD on 2024-12-16

- HWM - 1979 Yukon River Ice Jam Event
- Ice Scar - 1979 Yukon River Ice Jam Event
- HWM - 1986 Ice Cover (March)
- HWM - 1998 Yukon River Ice Jam Event
- HWM - 2022 Yukon River Open Water Event
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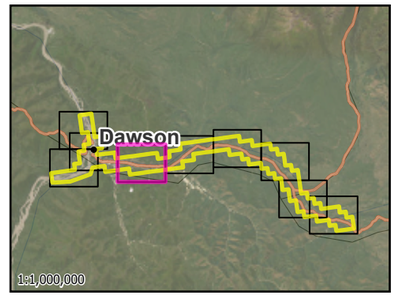
- Full Bathymetry - Single Beam + Multibeam

0 500 1,000 1,500
Metres
(At original document size of 11x 17) 1:25,000



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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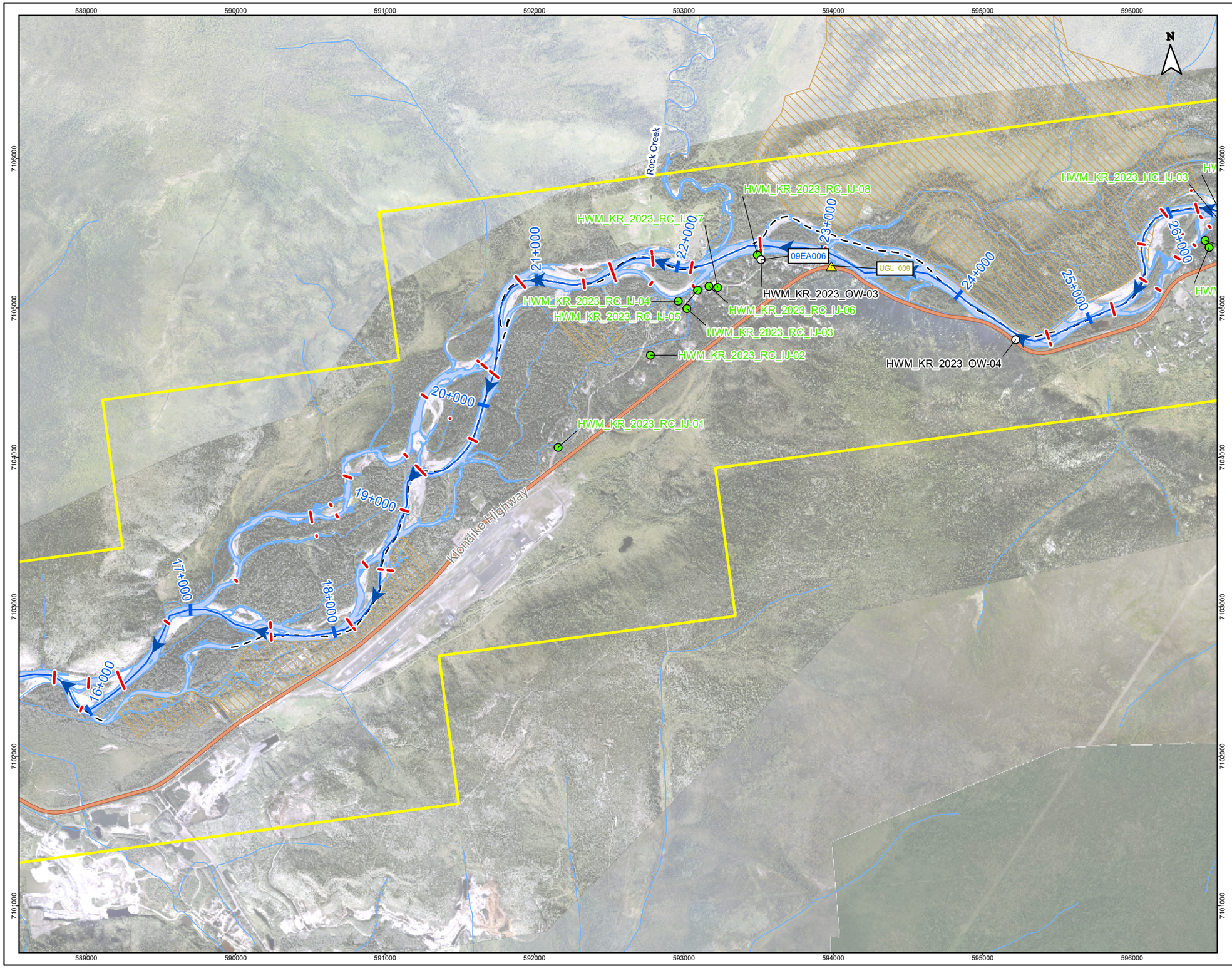

Figure No.

D-5

Title:

Dawson Flood Mapping Study
Detailed Site Survey

Client/Project:

Government of Yukon
Department of Environment
Water Resources Branch

Project: 123222713

Project Location:

Dawson, Yukon

Prepared by MAINSLEY on 2024-12-16
Requested by JMUIRHEAD on 2024-11-01
Review by JMUIRHEAD on 2024-12-16

- HWM - 1979 Yukon River Ice Jam Event
- Ice Scar - 1979 Yukon River Ice Jam Event
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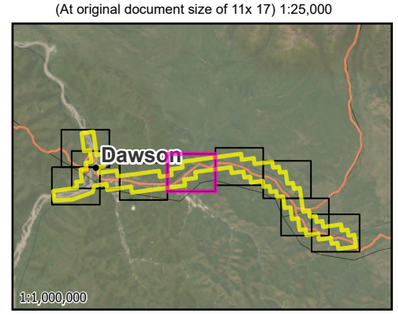
- Tr'ondëk Hwëch'in Settlement Land
- Full Bathymetry - Single Beam + Multibeam

0 500 1,000 1,500
Metres

(At original document size of 11x 17) 1:25,000



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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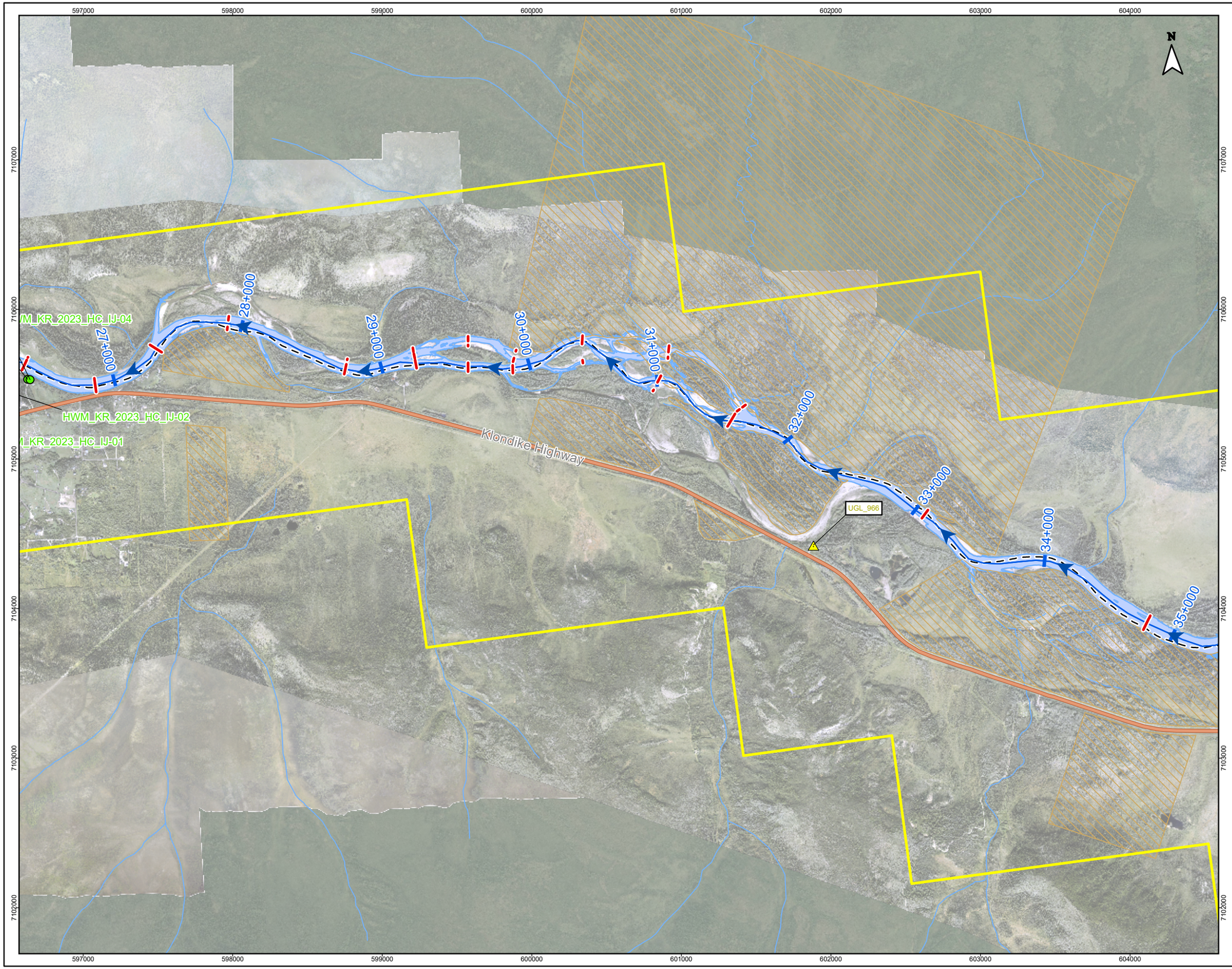

Figure No.

D-6

Title:

Dawson Flood Mapping Study
Detailed Site Survey

Client/Project:

Government of Yukon
Department of Environment
Water Resources Branch

Project: 123222713

Project Location:

Dawson, Yukon

Prepared by MAINSLEY on 2024-12-16
Requested by JMUIRHEAD on 2024-11-01
Review by JMUIRHEAD on 2024-12-16

- HWM - 1979 Yukon River Ice Jam Event
- Ice Scar - 1979 Yukon River Ice Jam Event
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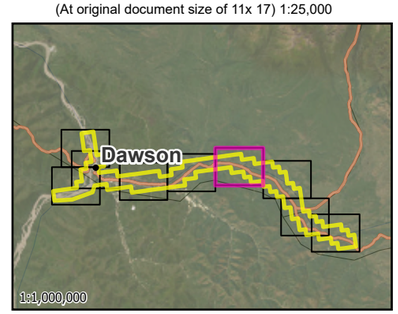
- Tr'ondëk Hwëch'in Settlement Land
- Full Bathymetry - Single Beam + Multibeam

0 500 1,000 1,500
Metres
(At original document size of 11x 17) 1:25,000



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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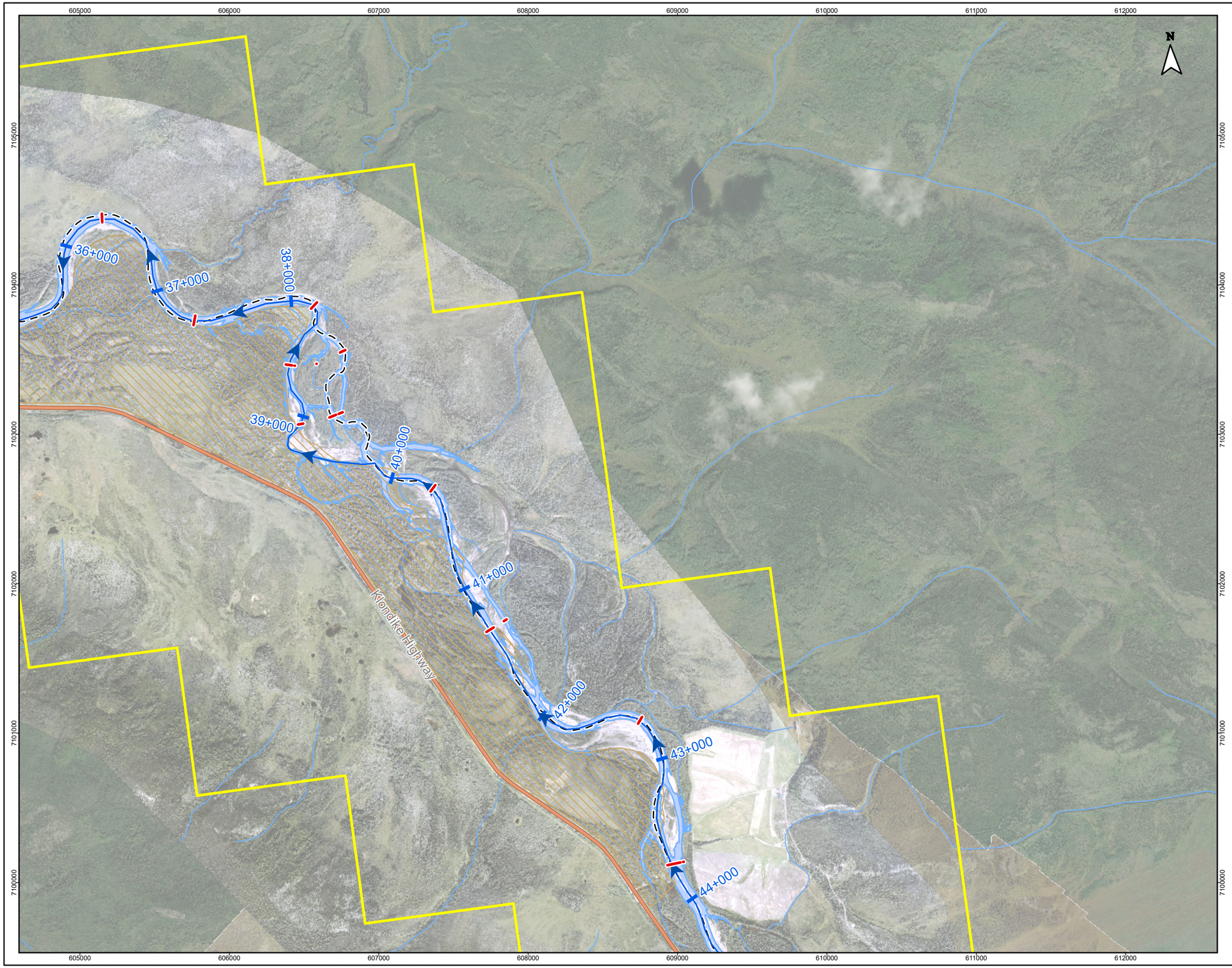

Figure No.

D-7

Title:

Dawson Flood Mapping Study
Detailed Site Survey

Client/Project:

Government of Yukon
Department of Environment
Water Resources Branch

Project: 123222713

Project Location:

Dawson, Yukon

Prepared by MAINSLEY on 2024-12-16
Requested by JMUIRHEAD on 2024-11-01
Review by JMUIRHEAD on 2024-12-16

- HWM - 1979 Yukon River Ice Jam Event
- Ice Scar - 1979 Yukon River Ice Jam Event
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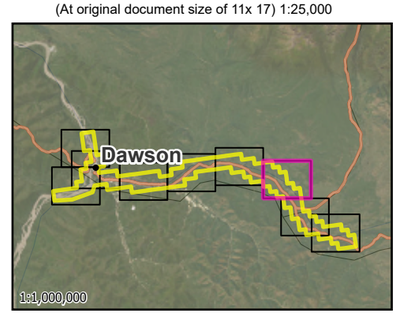
- Full Bathymetry - Single Beam + Multibeam

0 500 1,000 1,500
Metres
(At original document size of 11x 17) 1:25,000



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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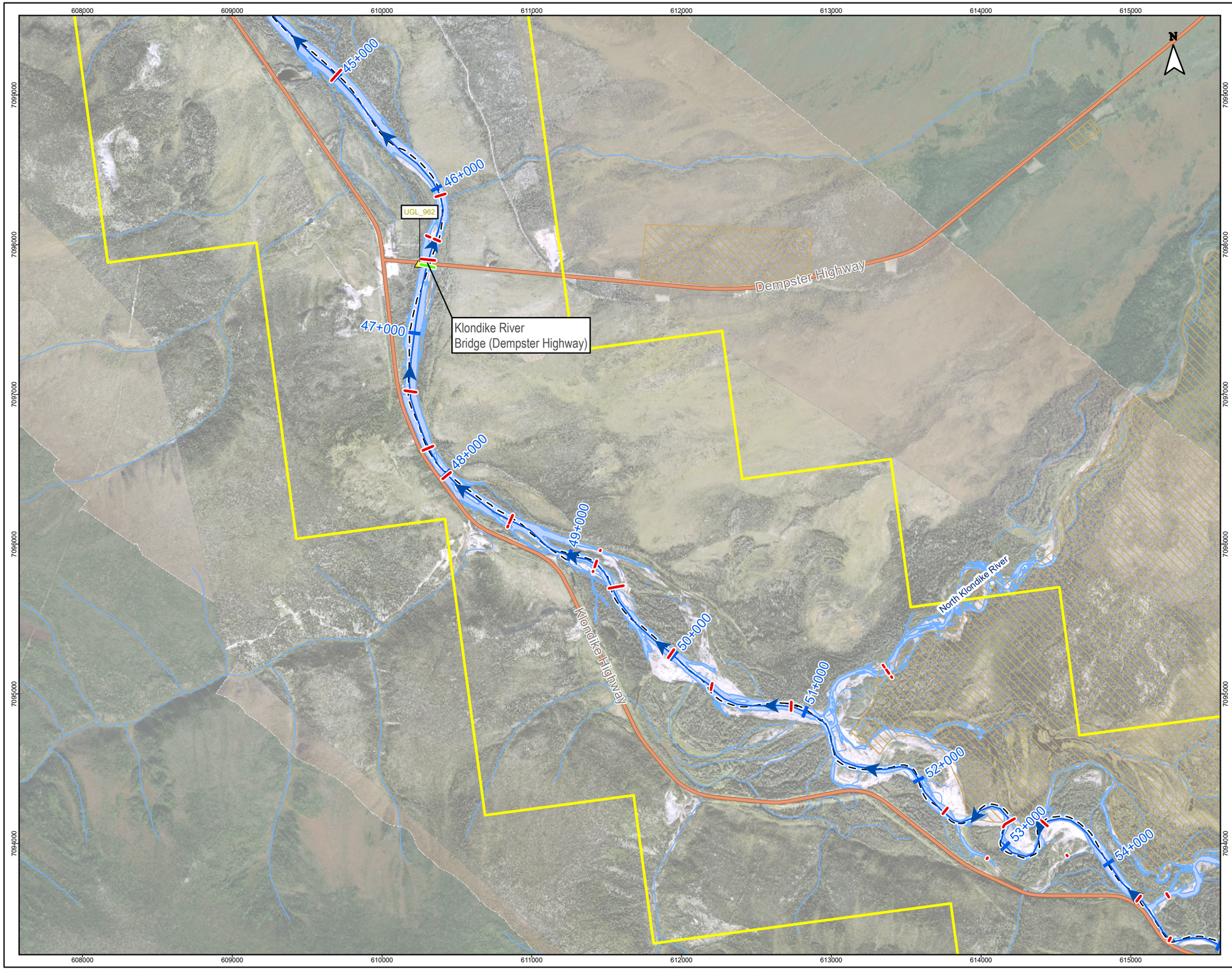

Figure No.

D-8

Title:

Dawson Flood Mapping Study
Detailed Site Survey

Client/Project:

Government of Yukon
Department of Environment
Water Resources Branch

Project: 123222713

Project Location:

Dawson, Yukon

Prepared by MAINSLEY on 2024-12-16
Requested by JMUIRHEAD on 2024-11-01
Review by JMUIRHEAD on 2024-12-16

- HWM - 1979 Yukon River Ice Jam Event
- Ice Scar - 1979 Yukon River Ice Jam Event
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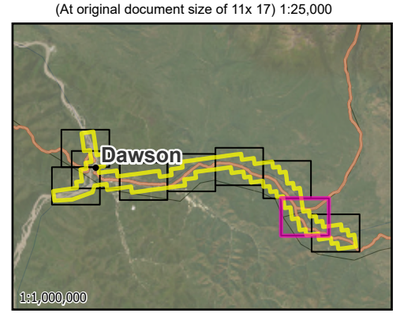
- Full Bathymetry - Single Beam + Multibeam

0 500 1,000 1,500
Metres
(At original document size of 11x 17) 1:25,000



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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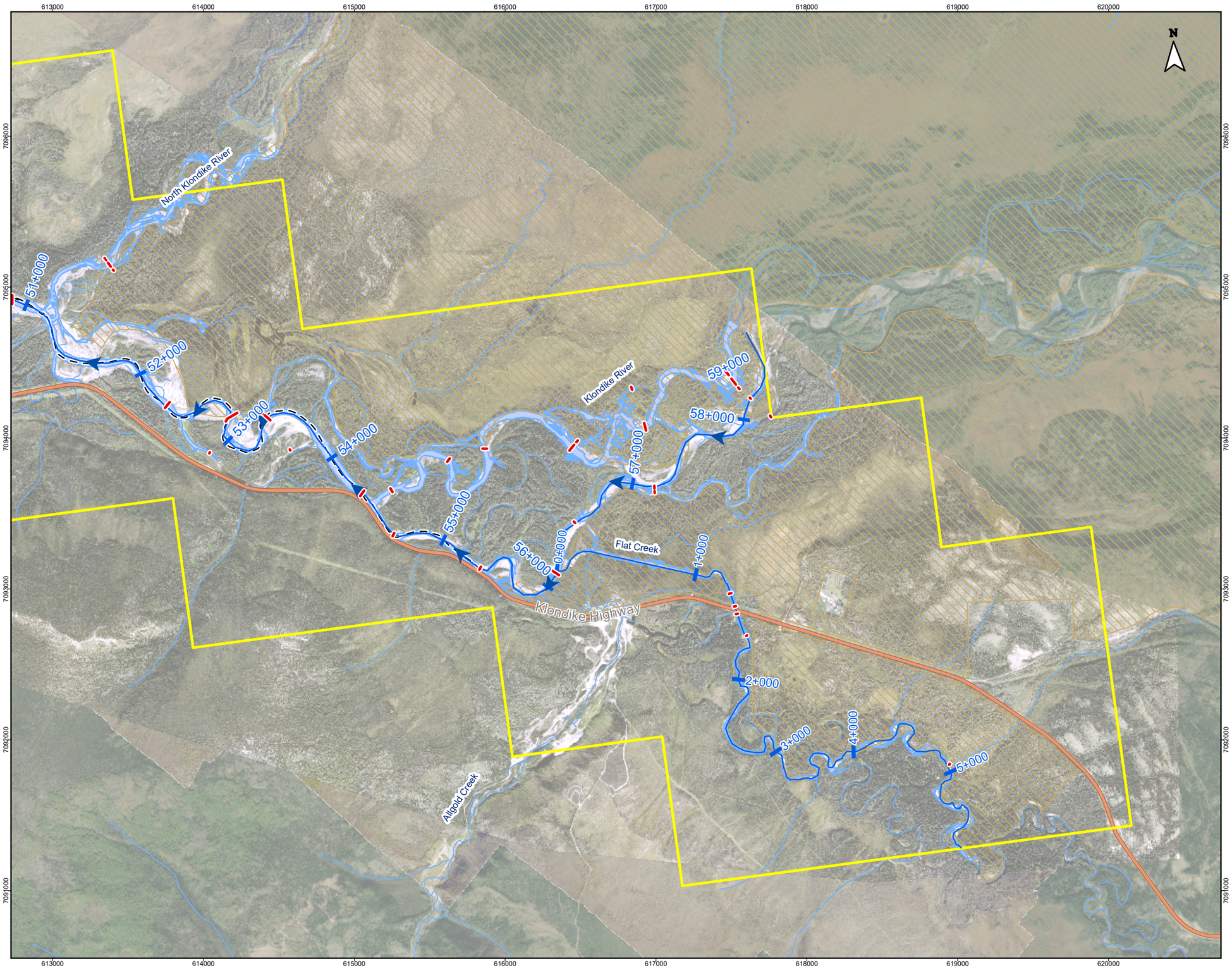

Figure No.

D-9

Title:

Dawson Flood Mapping Study
Detailed Site Survey

Client/Project:

Government of Yukon
Department of Environment
Water Resources Branch

Project: 123222713

Project Location:

Dawson, Yukon

Prepared by MAINSLEY on 2024-12-16
Requested by JMUIRHEAD on 2024-11-01
Review by JMUIRHEAD on 2024-12-16

- HWM - 1979 Yukon River Ice Jam Event
- Ice Scar - 1979 Yukon River Ice Jam Event
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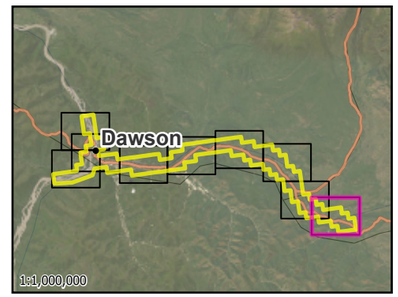
- Full Bathymetry - Single Beam + Multibeam

0 500 1,000 1,500
Metres
(At original document size of 11x 17) 1:25,000



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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Dawson City & Klondike Valley Flood Mapping Study
High Water Mark Data Sheet

Point ID	HWM_YR_1979_IJ-01
River	Yukon River
Approximate Station (m)	21+100
Event	1979 Ice Jam Flood Event
Northing (m) [1]	7104848.52
Easting (m) [1]	576337.68
Ground Elevation (m) [2]	318.95
HWM Height from Ground (m)	1.33
HWM Elevation (m) [2]	320.28
Notes	HHWM 1979 at 1.33m , Faded Paint line on tin, old tin building on Front Street
Location Map	
Photograph 1	

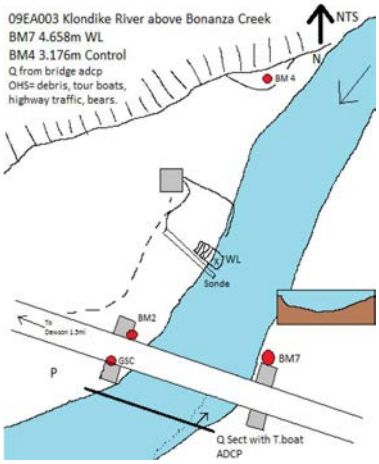
Water Survey of Canada Station 09EA003 - Klondike River Above Bonanza

WSC Station Coordinates [1]	64° 02' 34" N, 139° 24' 28" W
Gross Drainage Area (km^2) [1]	7810
Offset from Local Datum to GSC (m) [1]	319.321
Offset from Local Datum to CGVD2013 (m) [1]	319.381

Feature	Notes	Elevation (m, local datum) [1]	Elevation (m, CGVD2013) [1]	Northing (m, NAD83 CSRS) [2]	Easting (m, NAD83 CSRS) [2]	Elevation (m, CGVD2013) [2]	Elevation Differential	Notes
BM 4	[1] Brass cap bedrock	3.176	322.557	7102803.080	577692.850	322.550	-0.007	
GSC74Y191	[1] Brass cap in concrete post on RB pier	7.257	326.638	7102746.180	577619.400	326.610	-0.028	
BM 7	[1] Staff plate on upstream face of LB bridge abutment approximately 75 m S of shelter	4.658	324.039	7102724.130	577687.960	322.680	-1.359	likely surveyed different point on SG; discounted
BM 5	[1] Nail in power pole ~20 m US of gauge (pole cut in 2004)	3.972	323.353	7102790.650	577679.680	323.350	-0.003	
BM 2	[1] Bolt in RB abutment	5.074	324.455	7102750.690	577630.900	324.440	-0.015	
WSE on 2024-06-05 @ 15:00	Surveyed by longitudinal profile float by boat	2.050	321.431	7102754.850	577686.470	321.510	0.079	longpro in middle of river, considered less acurate
WSE on 2024-06-06 @ 10:15	Surveyed with RTK survey pole	2.074	321.455	7102767.250	577663.950	321.470	0.015	
WSE on 2024-09-16 @ 15:00	Surveyed with RTK survey pole	1.610	320.991	7102787.650	577676.680	321.000	0.009	

Notes:
[1] from WSC Station Description Report and WSC Benchark History document
[2] from direct RTK GPS survey in June and September of 2024
elevation differentials within survey tolerances; WSC reported WSEs considered verified by survey

WSC Station sketch from WSC Station Description Report



WSC Station gage house

WSC Station gage house

WSC Station gage house

Water Survey of Canada Station 09EA003 - Klondike River Above Bonanza

BM 4 location and context

BM 4 monument

GSC74Y191 location and context

GSC74Y191 monument

BM 5 location and context

BM 5 monument

Water Survey of Canada Station 09EA003 - Klondike River Above Bonanza

BM 2 location and context	BM 2 monument

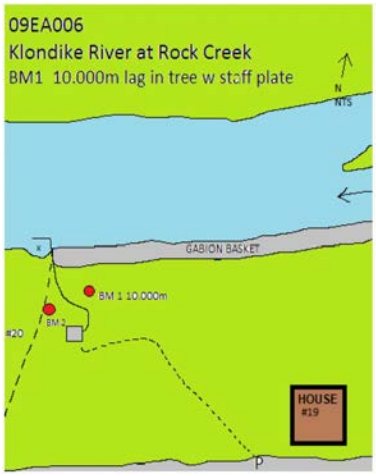
Water Survey of Canada Station 09EA006 - Klondike River at Rock Creek

WSC Station Coordinates [1]	64° 03' 43" N, 139° 05' 01" W
Gross Drainage Area (km^2) [1]	not available
Offset from Local Datum to GSC (m) [1]	not available
Offset from Local Datum to CGVD2013 (m) [1]	366.633

Feature	Notes	Elevation (m, local datum) [1]	Elevation (m, CGVD2013) [1]	Northing (m, NAD83 CSRS) [2]	Easting (m, NAD83 CSRS) [2]	Elevation (m, CGVD2013) [2]	Elevation Differential	Notes
BM #1	[1] Lag bolt in poplar tree marked with Staff Plate.3.2m riverward of shelter on downstream face of tree. Upstream of "V" tree.	10	376.633	7105354.208	593492.497	376.630	-0.003	
BM #2	[1] Land survey pin marked by stake in ground along western property line 7m SW downstream from shelter.	8.855	375.488	7105347.772	593487.001	375.484	-0.004	
BM #4	[1] Standard Iron Pin, 1 m deep, 3m South of gauge shelter	8.835	375.468	7105346.762	593493.032	375.465	-0.003	
WSE on 2024-06-05 @ 14:00	Surveyed by longitudinal profile float by boat	7.925	374.558	7105413.080	593429.010	374.510	-0.048	longpro in middle of river, considered less accurate
WSE on 2024-06-06 @ 11:00	Surveyed with RTK survey pole	7.945	374.578	7105361.480	593485.260	374.550	-0.028	
WSE on 2024-09-13 @ 16:00	Surveyed with RTK survey pole	7.375	374.008	7105366.480	593484.760	374.050	0.042	

Notes:
[1] from WSC Station Description Report and WSC Benchark History document
[2] from direct RTK GPS survey in June and September of 2024
elevation differentials within survey tolerances; WSC reported WSEs considered verified by survey

WSC Station sketch from WSC Station Description Report



WSC Station gage house

BM #1 location and context

BM #1 monument

Water Survey of Canada Station 09EB001 - Yukon River at Dawson

BM #2 location and context

BM #2 monument

BM #4 monument

Water Survey of Canada Station 09EB001 - Yukon River at Dawson

WSC Station Coordinates [1]	64° 04' 13" N, 139° 25' 31" W
Gross Drainage Area (km^2) [1]	164000
Offset from Local Datum to GSC (m) [1]	311.826
Offset from Local Datum to CGVD2013 (m) [1]	311.918

Feature	Notes	Elevation (m, local datum) [1]	Elevation (m, CGVD2013) [1]	Northing (m, NAD83 CSRS) [2]	Easting (m, NAD83 CSRS) [2]	Elevation (m, CGVD2013) [2]	Elevation Differential	Notes
BM #1	[1] Brass cap in concrete base located 37 m downstream on trail of shelter and 3 m bankward of trail in square treeless area near old WSC gauging equipment. Marked with rebar painted yellow and flagging tape. BM is painted yellow. BM is in a depression and is covered with a piece of tin.	9.325	321.243	7105844.860	576832.930	321.180	-0.063	
BM #2	[1] Top of large boulder painted orange. Located down hill to left of trail to WL location. Approx. 12 m riverward from BM #1.	4.048	315.966	7105848.800	576818.780	315.900	-0.066	
BM #3	[1] Standard Iron Pin driven 5 m deep, 0.5 m downstream of shelter	9.824	321.742	7105814.790	576811.790	321.680	-0.062	
WSE on 2024-06-04 @ 13:00	Surveyed by longitudinal profile float by boat	2.530	314.448	7105843.240	576582.950	314.350	-0.098	longpro taken in middle of river; superelevation of gage WSE is possible (outer bend)
WSE on 2024-06-06 @ 16:10	Surveyed with RTK survey pole	2.495	314.413	7105823.810	576801.110	314.360	-0.053	

Notes:
[1] from WSC Station Description Report and WSC Benchark History document
[2] from direct RTK GPS survey in June and September of 2024
elevation differentials generally within survey tolerances; WSC reported WSEs considered verified by survey for the purposes of the Dawson/Klondike Flood Mapping Study

WSC Station sketch from WSC Station Description Report

WSC Station gage house

BM #1 location and context

BM #1 monument

Water Survey of Canada Station 09EB001 - Yukon River at Dawson

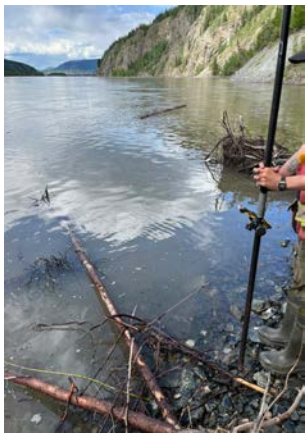
BM #2 monument

BM #2 monument

BM #3 location and context

BM #3 monument

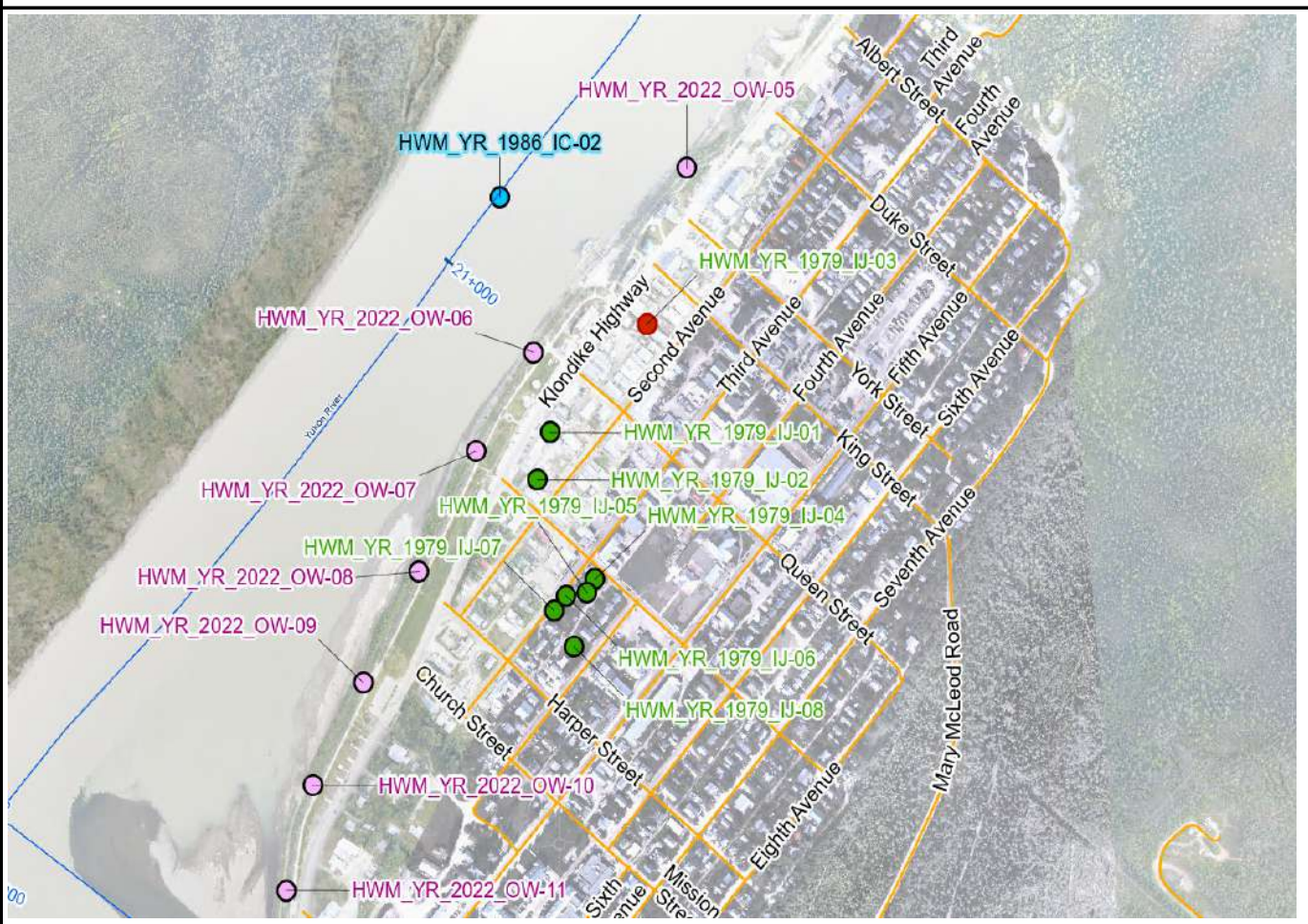
Water surface elevation survey on 2024-06-06 @ 16:10



Dawson City & Klondike Valley Flood Mapping Study
High Water Mark Data Sheet

Point ID	HWM_YR_1979_IJ-02
River	Yukon River
Approximate Station (m)	21+150
Event	1979 Ice Jam Flood Event
Northing (m)	7104787.96
Easting (m)	576329.29
Ground Elevation (m) [2]	318.40
HWM Height from Ground (m)	1.20
HWM Elevation (m) [2]	319.60
Notes	HHWM 1979 at 1.20m, Water damage on wooden building, initial flooding only lasted about 24 hours before receeding, explaing lower elevation of damage
Location Map	
Photograph 1	

Dawson City & Klondike Valley Flood Mapping Study
High Water Mark Data Sheet

Point ID	HWM_YR_1979_IJ-03
River	Yukon River
Approximate Station (m)	20+900
Event	1979 Ice Jam Flood Event
Northing (m)	7105000.15
Easting (m)	576448.95
Ground Elevation (m) [2]	319.38
HWM Height from Ground (m)	1.20
HWM Elevation (m) [2]	320.58
Notes	HHWM 1979 at 1.20m, discolouration, on old original wood building, still off its cribbing from flooding
Location Map	
Photograph 1	

Dawson City & Klondike Valley Flood Mapping Study
High Water Mark Data Sheet

Point ID	HWM_YR_1979_IJ-04
River	Yukon River
Approximate Station (m)	21+200
Event	1979 Ice Jam Flood Event
Northing (m)	7104674.78
Easting (m)	576422.54
Ground Elevation (m) [2]	319.15
HWM Height from Ground (m)	0.95
HWM Elevation (m) [2]	320.10
Notes	HHWM 1979 at 0.95m, Long water stain, on old blacksmith shop on 3rd Ave
Location Map	
Photograph 1	

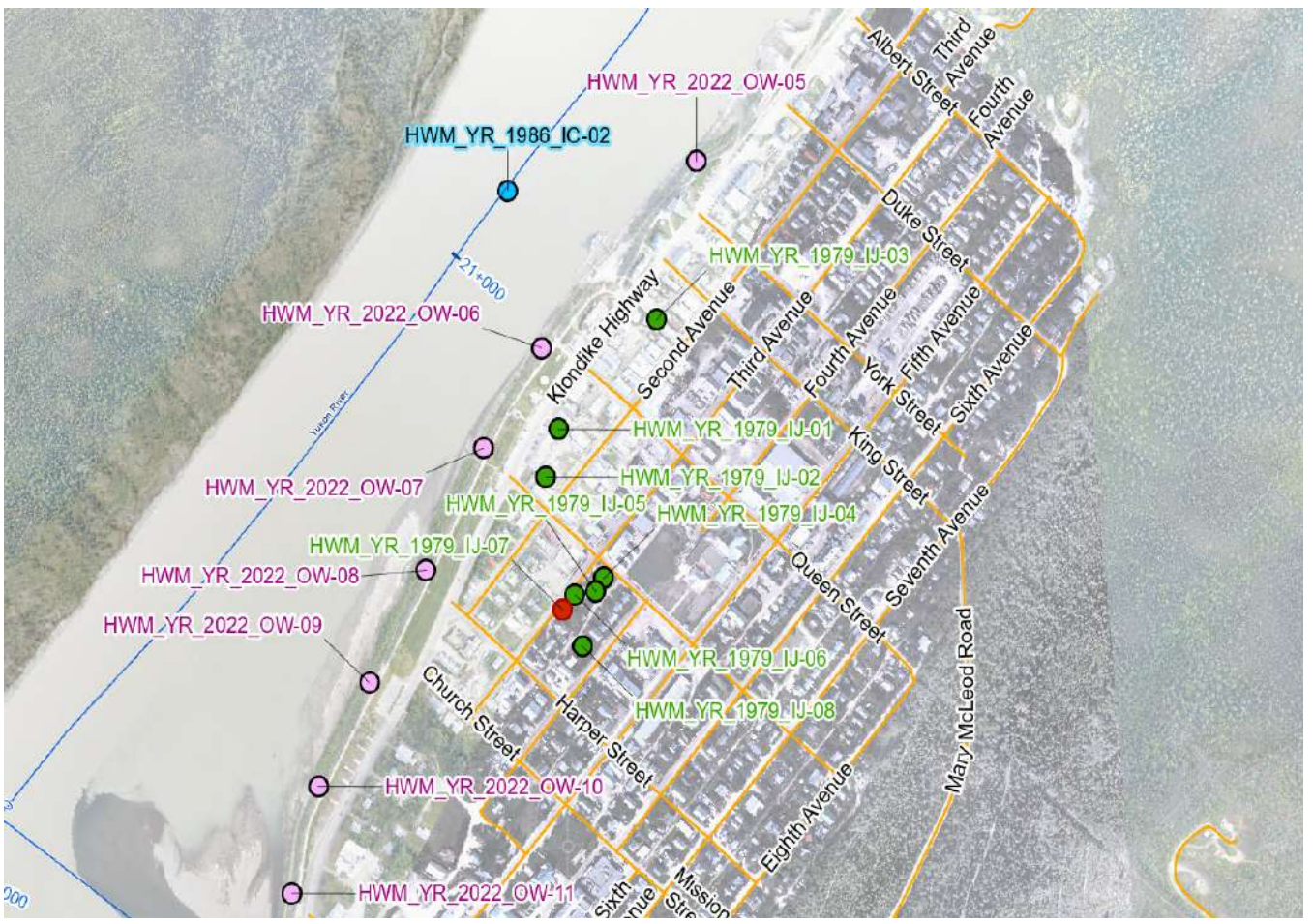
Dawson City & Klondike Valley Flood Mapping Study
High Water Mark Data Sheet

Point ID	HWM_YR_1979_IJ-05
River	Yukon River
Approximate Station (m)	21+200
Event	1979 Ice Jam Flood Event
Northing (m)	7104656.25
Easting (m)	576414.04
Ground Elevation (m) [2]	319.21
HWM Height from Ground (m)	0.94
HWM Elevation (m) [2]	320.15
Notes	HHWM 1979 at 0.94m, discoloured boards, wooden shed on 3rd Ave, noted that no saw dust insulation below line
Location Map	
Photograph 1	

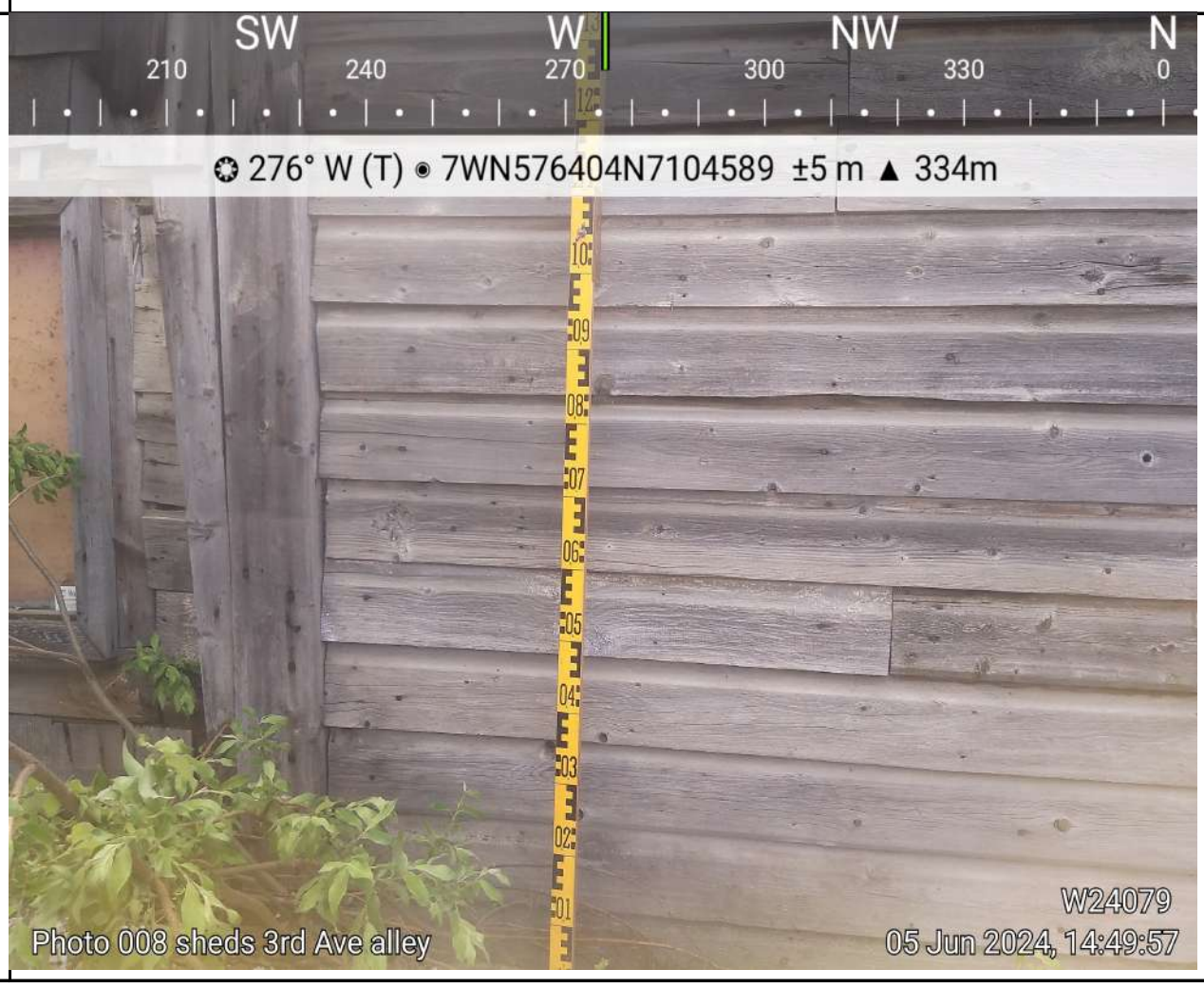
Dawson City & Klondike Valley Flood Mapping Study
High Water Mark Data Sheet

Point ID	HWM_YR_1979_IJ-06
River	Yukon River
Approximate Station (m)	21+200
Event	1979 Ice Jam Flood Event
Northing (m)	7104649.28
Easting (m)	576386.86
Ground Elevation (m) [2]	319.02
HWM Height from Ground (m)	0.41
HWM Elevation (m) [2]	319.43
Notes	HHWM 1979 at 0.41m, consistent staining along the front of Kissing building on 3rd Ave
Location Map	
Photograph 1	

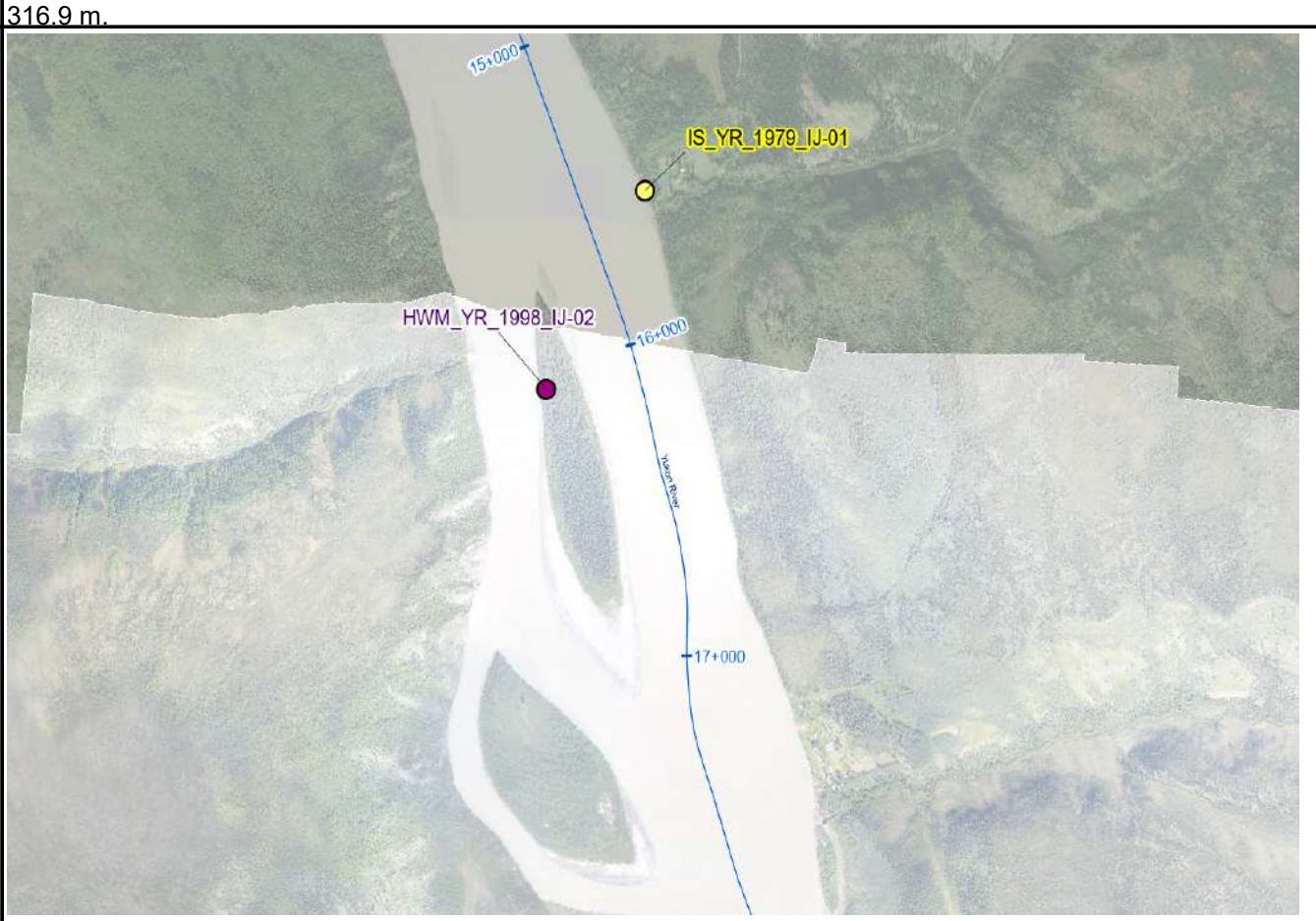
Dawson City & Klondike Valley Flood Mapping Study
High Water Mark Data Sheet

Point ID	HWM_YR_1979_IJ-07
River	Yukon River
Approximate Station (m)	21+250
Event	1979 Ice Jam Flood Event
Northing (m)	7104628.69
Easting (m)	576372.86
Ground Elevation (m) [2]	318.87
HWM Height from Ground (m)	0.42
HWM Elevation (m) [2]	319.29
Notes	HHWM 1979 at 0.42m, discolouration of wood building
Location Map	
Photograph 1	

Dawson City & Klondike Valley Flood Mapping Study
High Water Mark Data Sheet

Point ID	HWM_YR_1979_IJ-08
River	Yukon River
Approximate Station (m)	21+250
Event	1979 Ice Jam Flood Event
Northing (m)	7104587.55
Easting (m)	576405.26
Ground Elevation (m) [2]	319.81
HWM Height from Ground (m)	0.64
HWM Elevation (m) [2]	320.45
Notes	HHWM 1979 at 0.640m, straight horizontal line on small sheds, theorized by the guide that it was moved during the floods
Location Map	
Photograph 1	

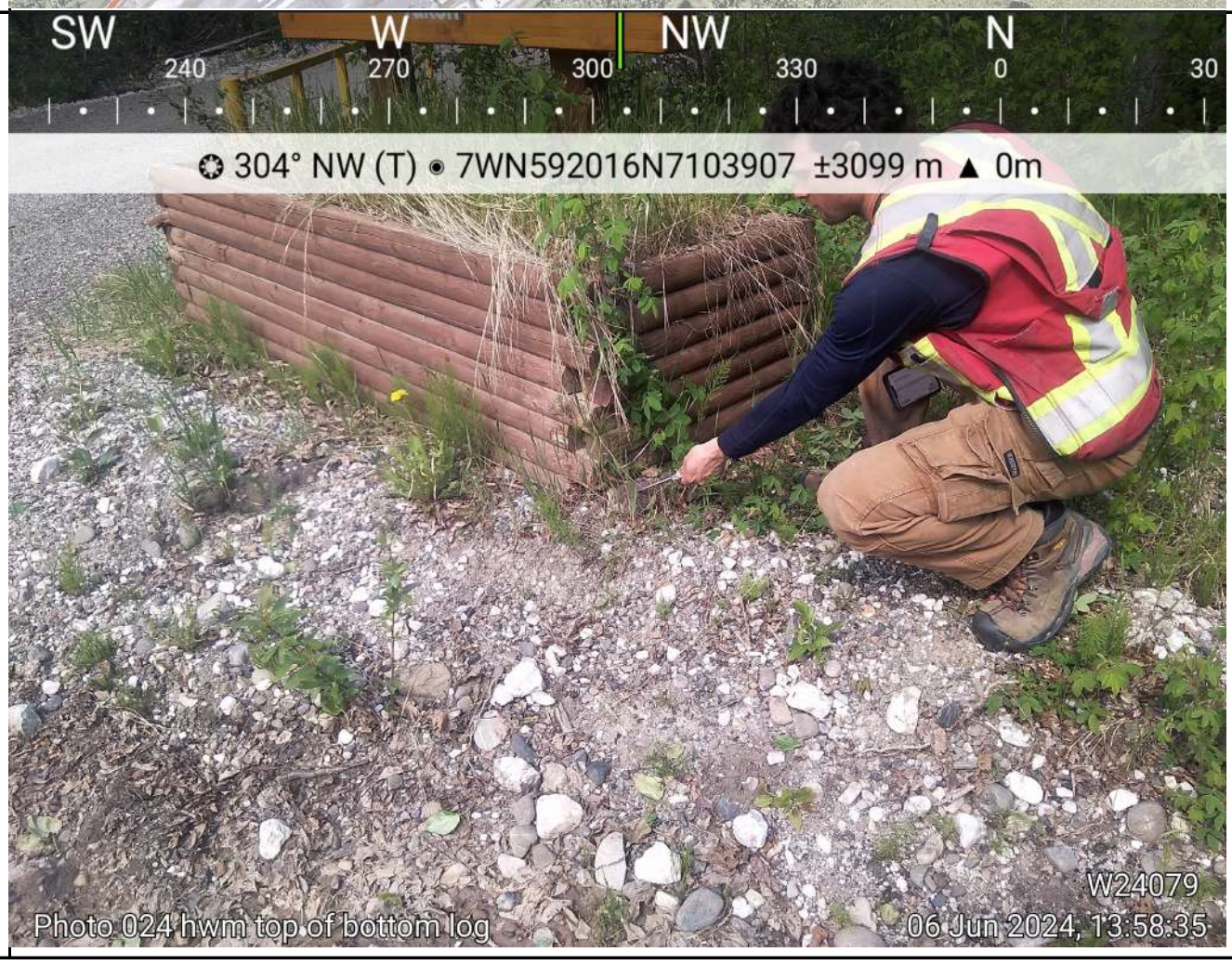
Dawson City & Klondike Valley Flood Mapping Study
High Water Mark Data Sheet

Point ID	HWM_YR_1998_IJ-02
River	Yukon River
Approximate Station (m)	16+000
Event	1998 Ice Jam Flood Event
Northing (m)	7109555.00
Easting (m)	575059.00
Ground Elevation (m) [2]	316.40
HWM Height from Ground (m)	0.3 - 0.5
HWM Elevation (m) [2]	316.7 - 316.9
Notes	The photographs were obtained after the 2024 field surveys had been completed, and when navigation of the Yukon River was becoming unsafe in 2024 (freeze-up). In the absence of geodetic surveys of the HWMs on the Dog Island property, HWM elevations were estimated. Photographs suggest that HWMs were between 0.3-0.5 m above the ground, and the LiDAR data in the DTM indicated a ground surface elevation of approximately 316.4 m. Therefore, in the absence of geodetic surveys of the HWMs, the HWMs on the Dog Island property are currently estimated to have an elevation of 316.7-316.9 m.
Location Map	
Photograph 1 - Marker Line on Shed	

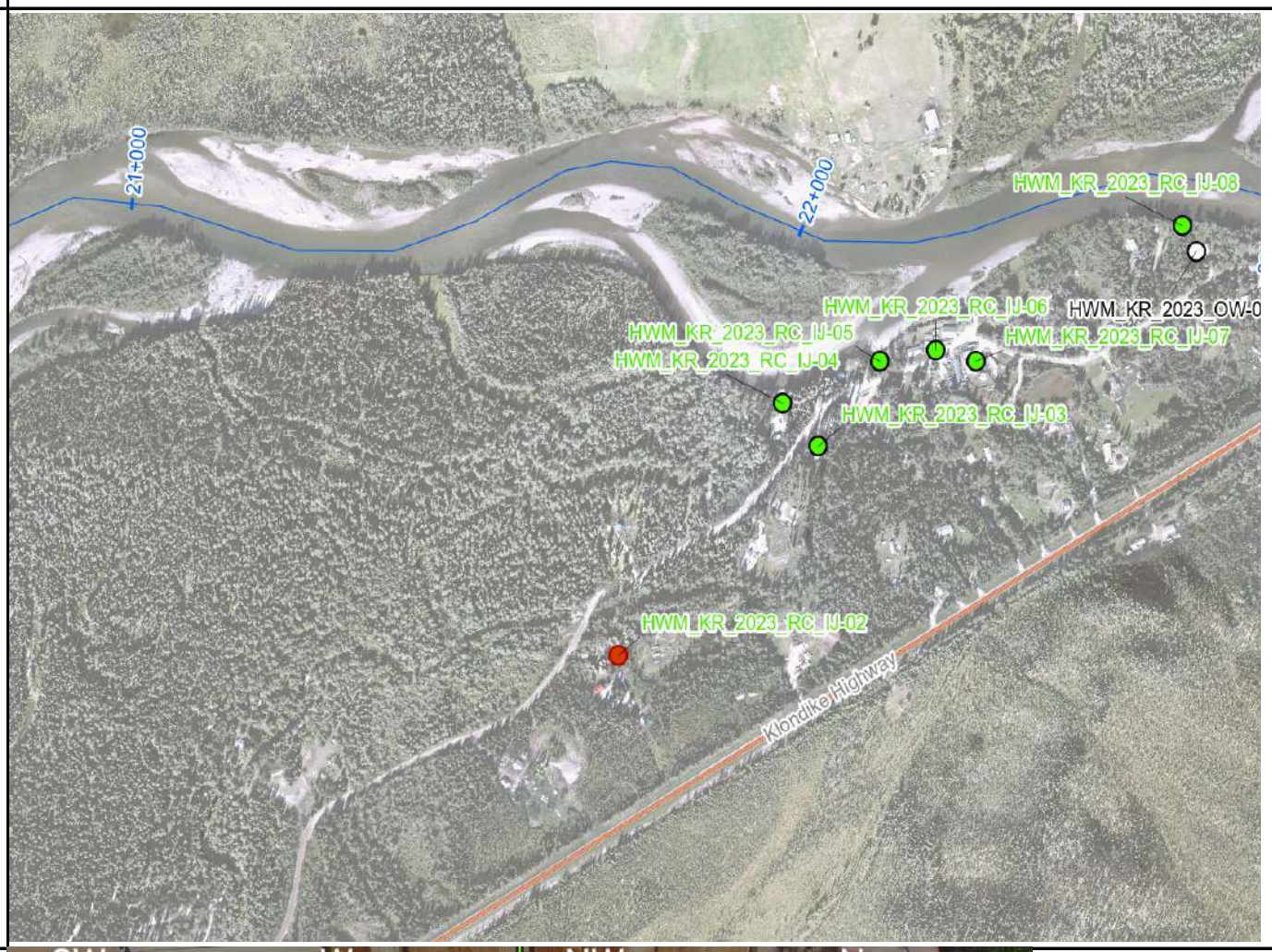
Photograph 2 - Water Line on Building	
Photograph 3 - Water Line 1 on Cabin	

Photograph 4 - Water Line 2 on Cabin	
Photograph 5 - Water Line on Inside of Cabin	

Dawson City & Klondike Valley Flood Mapping Study
High Water Mark Data Sheet

Point ID	HWM_KR_2023_RC_IJ-01
River	Klondike River
Approximate Station (m)	20+000
Event	2023 Ice Jam Flood - Rock Creek
Northing (m)	7104066.95
Easting (m)	592157.96
Ground Elevation (m) [2]	369.06
HWM Height from Ground (m)	0.00
HWM Elevation (m) [2]	369.06
Notes	HWM true elevation, top of bottom log, base of rock creek campground sign
Location Map	
Photograph 1	

Dawson City & Klondike Valley Flood Mapping Study
High Water Mark Data Sheet

Point ID	HWM_KR_2023_RC_IJ-02
River	Klondike River
Approximate Station (m)	21+800
Event	2023 Ice Jam Flood - Rock Creek
Northing (m)	7104684.18
Easting (m)	592776.02
Ground Elevation (m) [2]	373.03
HWM Height from Ground (m)	0.00
HWM Elevation (m) [2]	373.03
Notes	HWM true elevation, highwater on top of rock
Location Map	
Photograph 1	

Dawson City & Klondike Valley Flood Mapping Study
High Water Mark Data Sheet

Point ID	HWM_KR_2023_RC_IJ-03
River	Klondike River
Approximate Station (m)	22+050
Event	2023 Ice Jam Flood - Rock Creek
Northing (m)	7104996.52
Easting (m)	593020.23
Ground Elevation (m) [2]	373.77
HWM Height from Ground (m)	0.36
HWM Elevation (m) [2]	374.13
Notes	HWM at 0.360m, waterline on siding
Location Map	
Photograph 1	

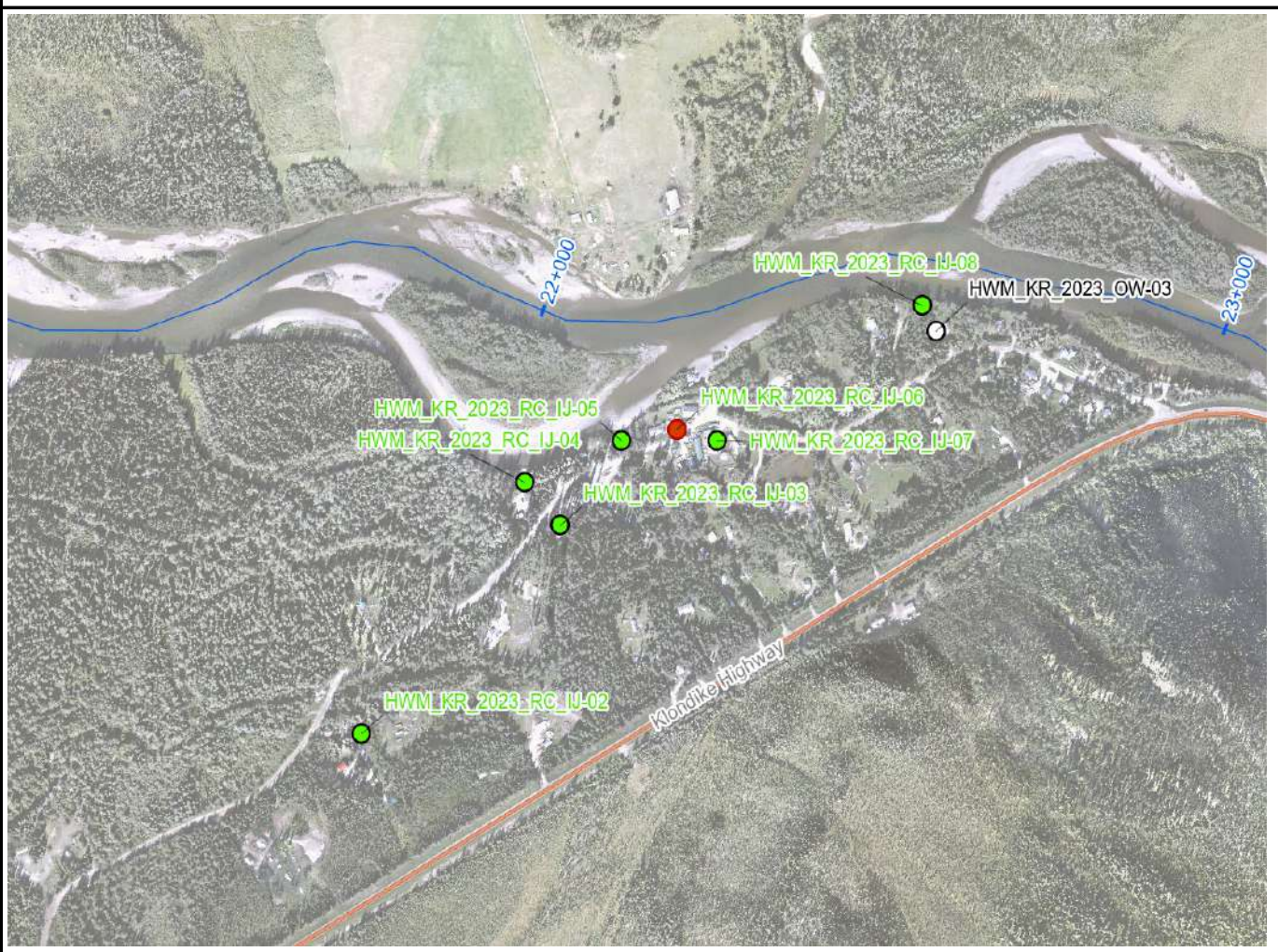
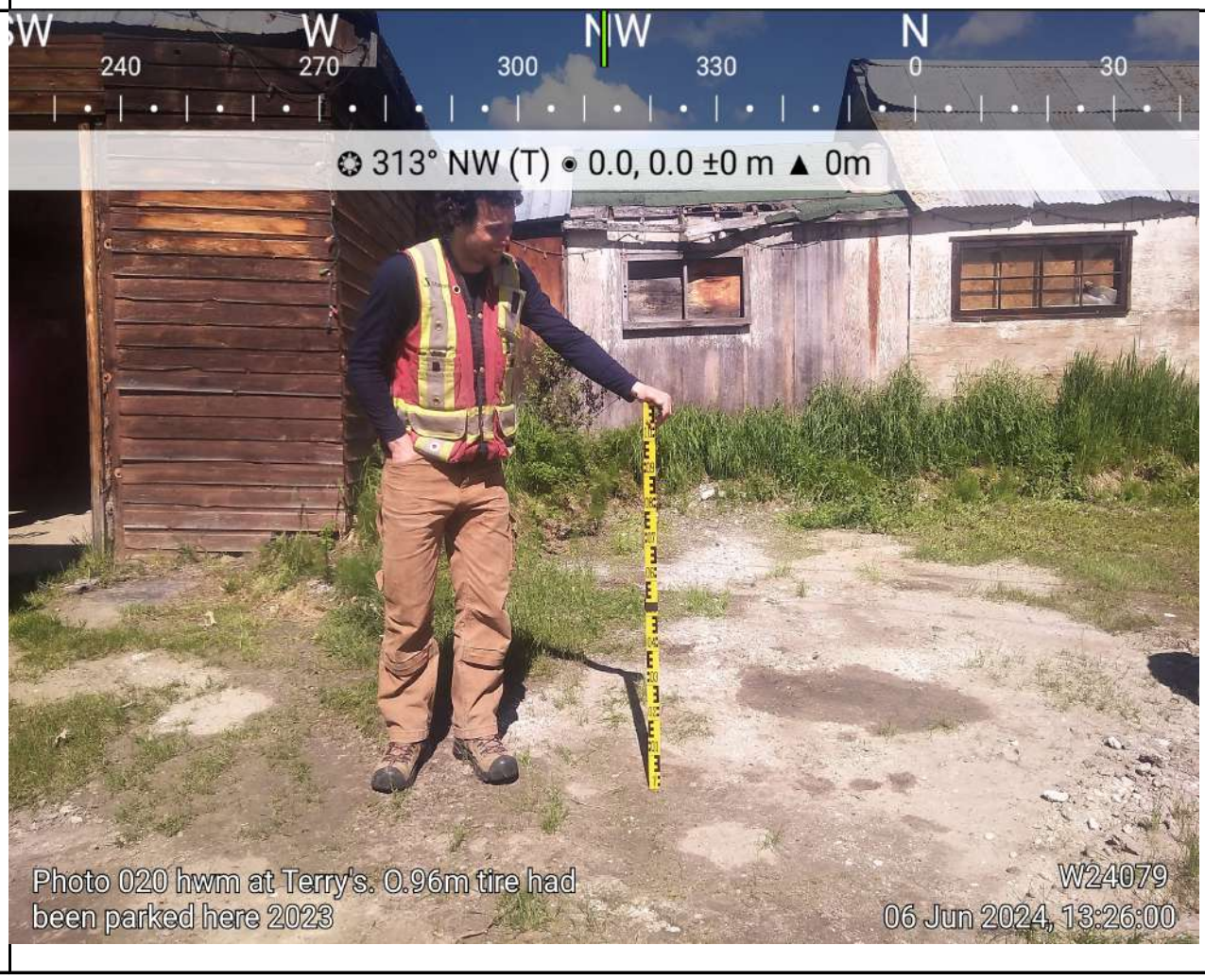
Dawson City & Klondike Valley Flood Mapping Study
High Water Mark Data Sheet

Point ID	HWM_KR_2023_RC_IJ-04
River	Klondike River
Approximate Station (m)	22+000
Event	2023 Ice Jam Flood - Rock Creek
Northing (m)	7105046.16
Easting (m)	592962.34
Ground Elevation (m) [2]	374.28
HWM Height from Ground (m)	0.00
HWM Elevation (m) [2]	374.28
Notes	HWM true elevation, nail on stump
Location Map	
Photograph 1	

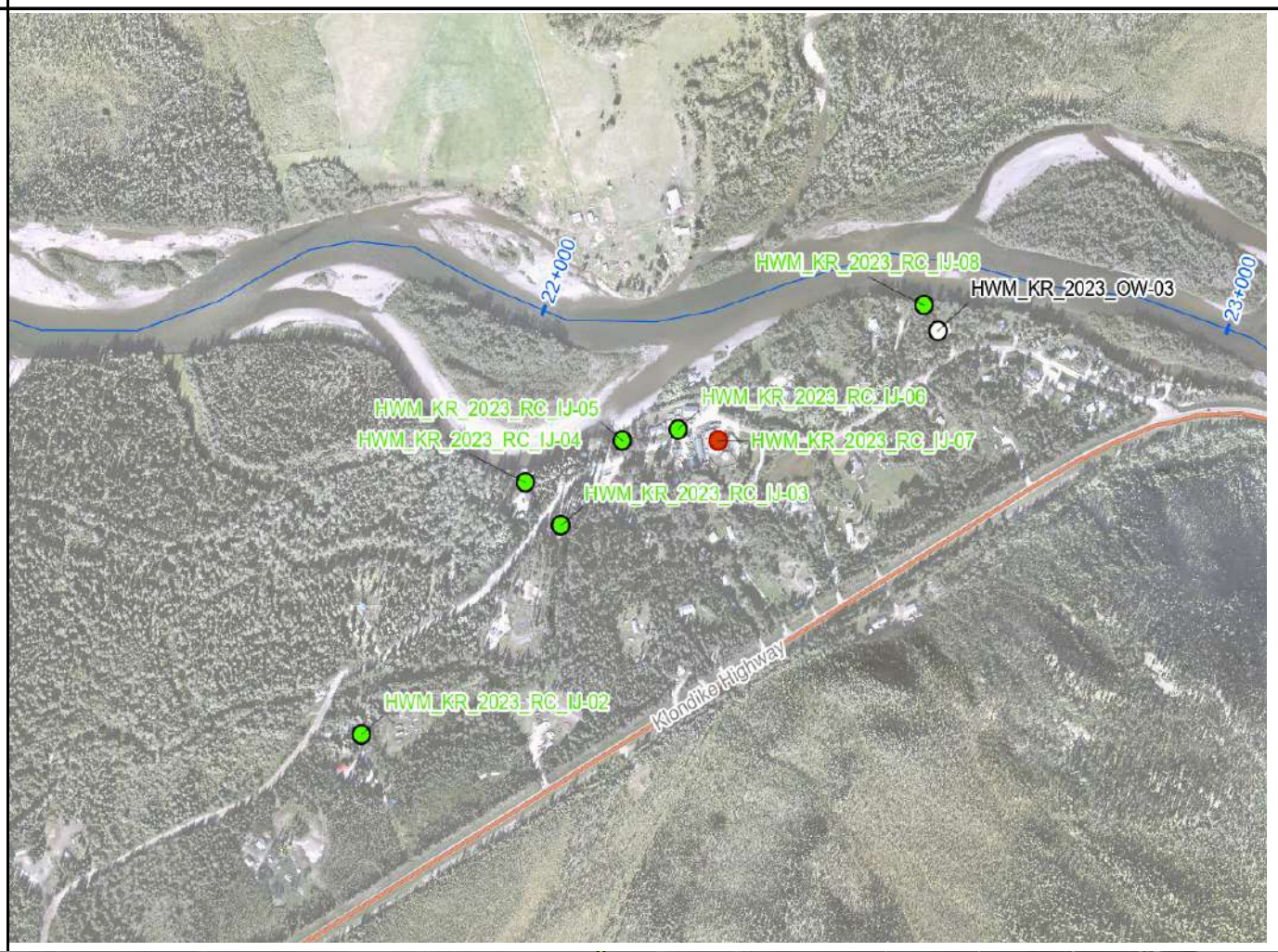
Dawson City & Klondike Valley Flood Mapping Study
High Water Mark Data Sheet

Point ID	HWM_KR_2023_RC_IJ-05
River	Klondike River
Approximate Station (m)	22+120
Event	2023 Ice Jam Flood - Rock Creek
Northing (m)	7105119.36
Easting (m)	593091.72
Ground Elevation (m) [2]	374.32
HWM Height from Ground (m)	0.40
HWM Elevation (m) [2]	374.72
Notes	HWM 2023 at 0.40m, Homeowner remembers highwater mark
Location Map	
Photograph 1	

Dawson City & Klondike Valley Flood Mapping Study
High Water Mark Data Sheet

Point ID	HWM_KR_2023_RC_IJ-06
River	Klondike River
Approximate Station (m)	22+200
Event	2023 Ice Jam Flood - Rock Creek
Northing (m)	7105145.37
Easting (m)	593168.06
Ground Elevation (m) [2]	374.17
HWM Height from Ground (m)	0.96
HWM Elevation (m) [2]	375.13
Notes	HWM at 0.96m, homeowner remembers water to the top of tire of semi truck parked in driveway, semi truck moved measured tire height
Location Map	
Photograph 1	

Dawson City & Klondike Valley Flood Mapping Study
High Water Mark Data Sheet

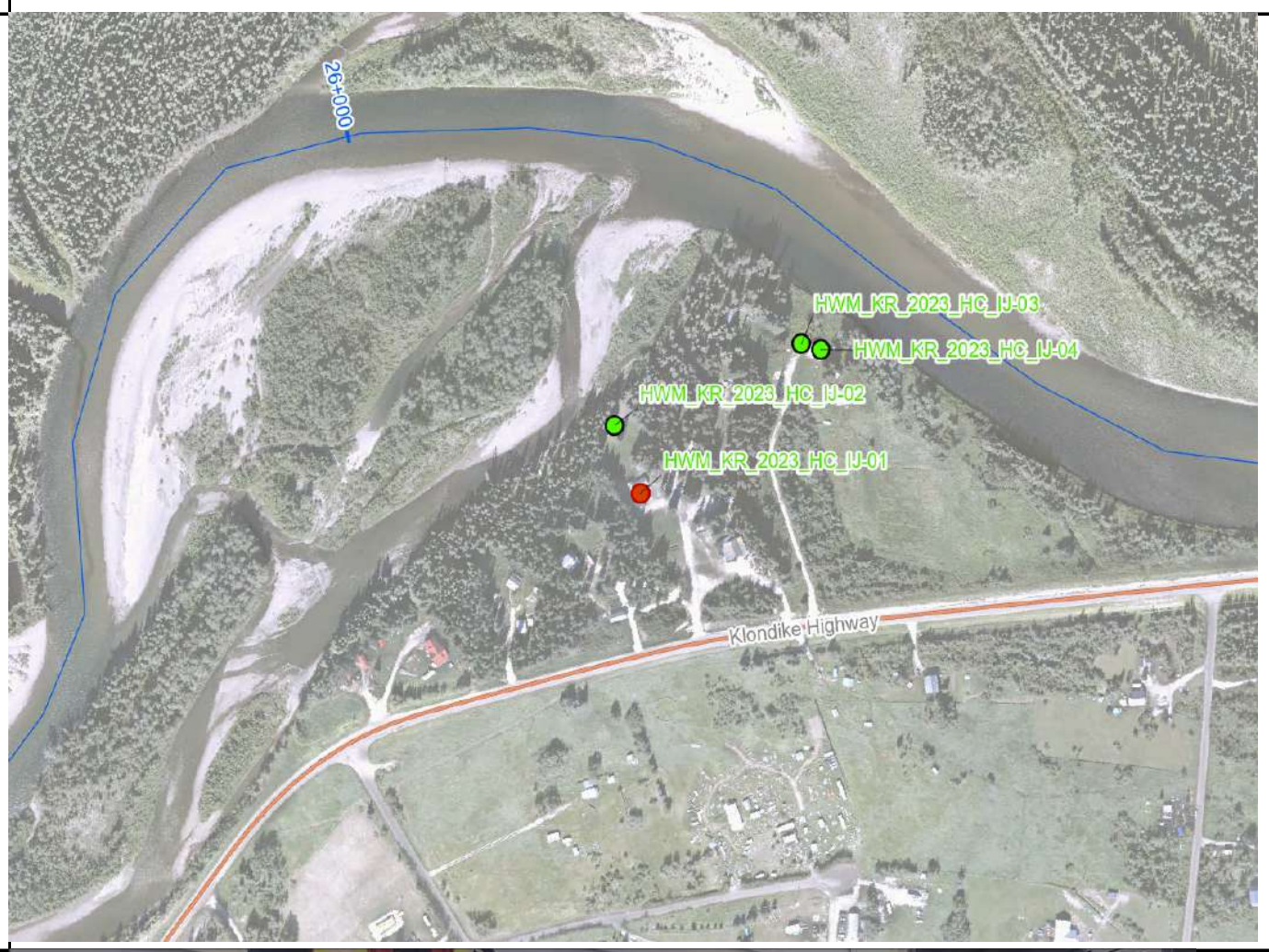
Point ID	HWM_KR_2023_RC_IJ-07
River	Klondike River
Approximate Station (m)	22+250
Event	2023 Ice Jam Flood - Rock Creek
Northing (m)	7105137.77
Easting (m)	593226.55
Ground Elevation (m) [2]	374.61
HWM Height from Ground (m)	0.45
HWM Elevation (m) [2]	375.06
Notes	HWM at 0.45m, Homeowner remembers water at top of the deck
Location Map	
Photograph 1	

Dawson City & Klondike Valley Flood Mapping Study
High Water Mark Data Sheet

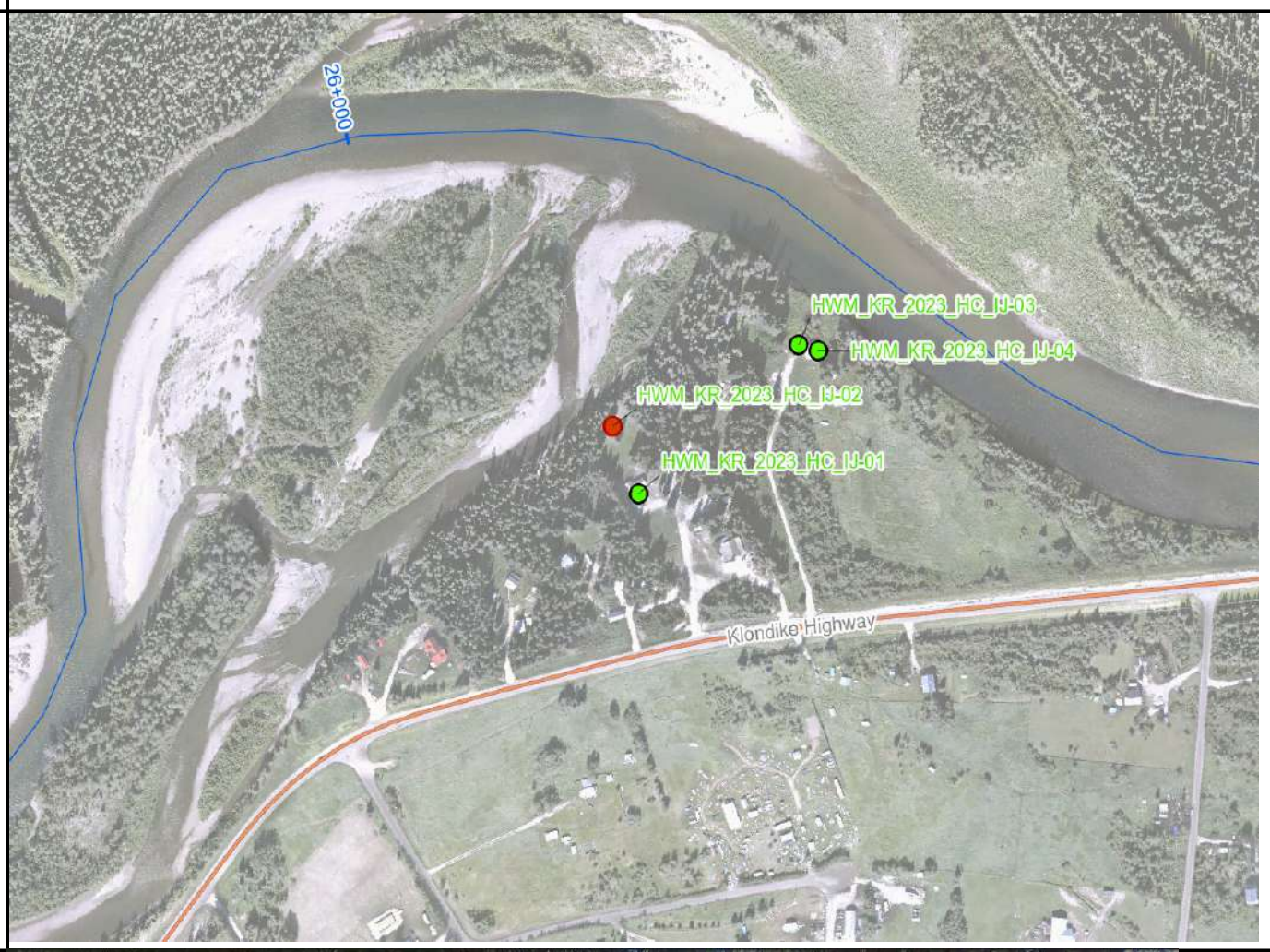
Point ID	HWM_KR_2023_RC_IJ-08
River	Klondike River
Approximate Station (m)	22+550
Event	2023 Ice Jam Flood - Rock Creek
Northing (m)	7105354.59
Easting (m)	593492.00
Ground Elevation (m) [2]	375.39
HWM Height from Ground (m)	0.64
HWM Elevation (m) [2]	376.03
Notes	HWM, nail and flagging found on a tree, placed during a flooding event, nail at 0.64m, staff gauge at 1.10m
Location Map	
Photograph 1	

Photograph 2	

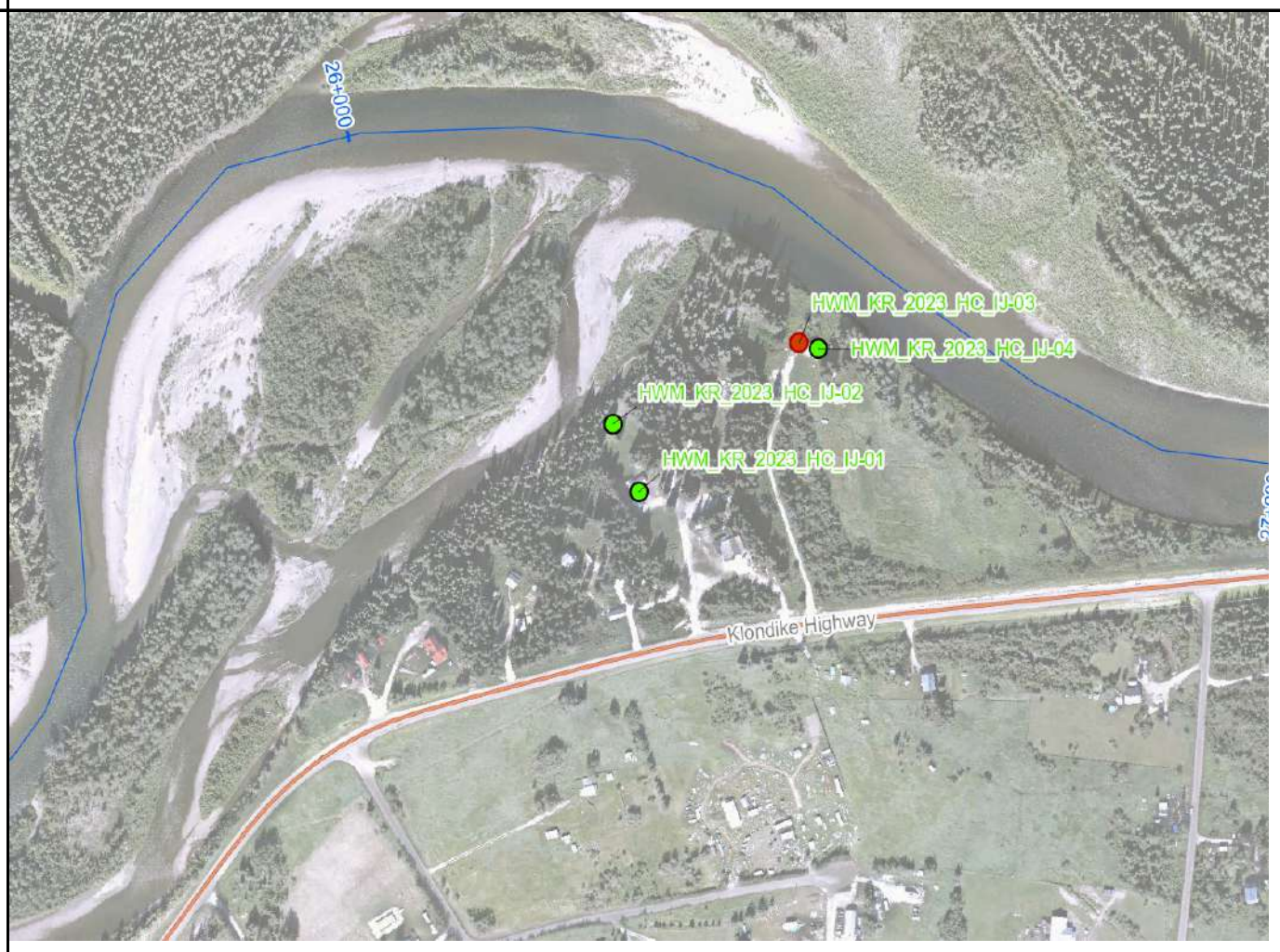
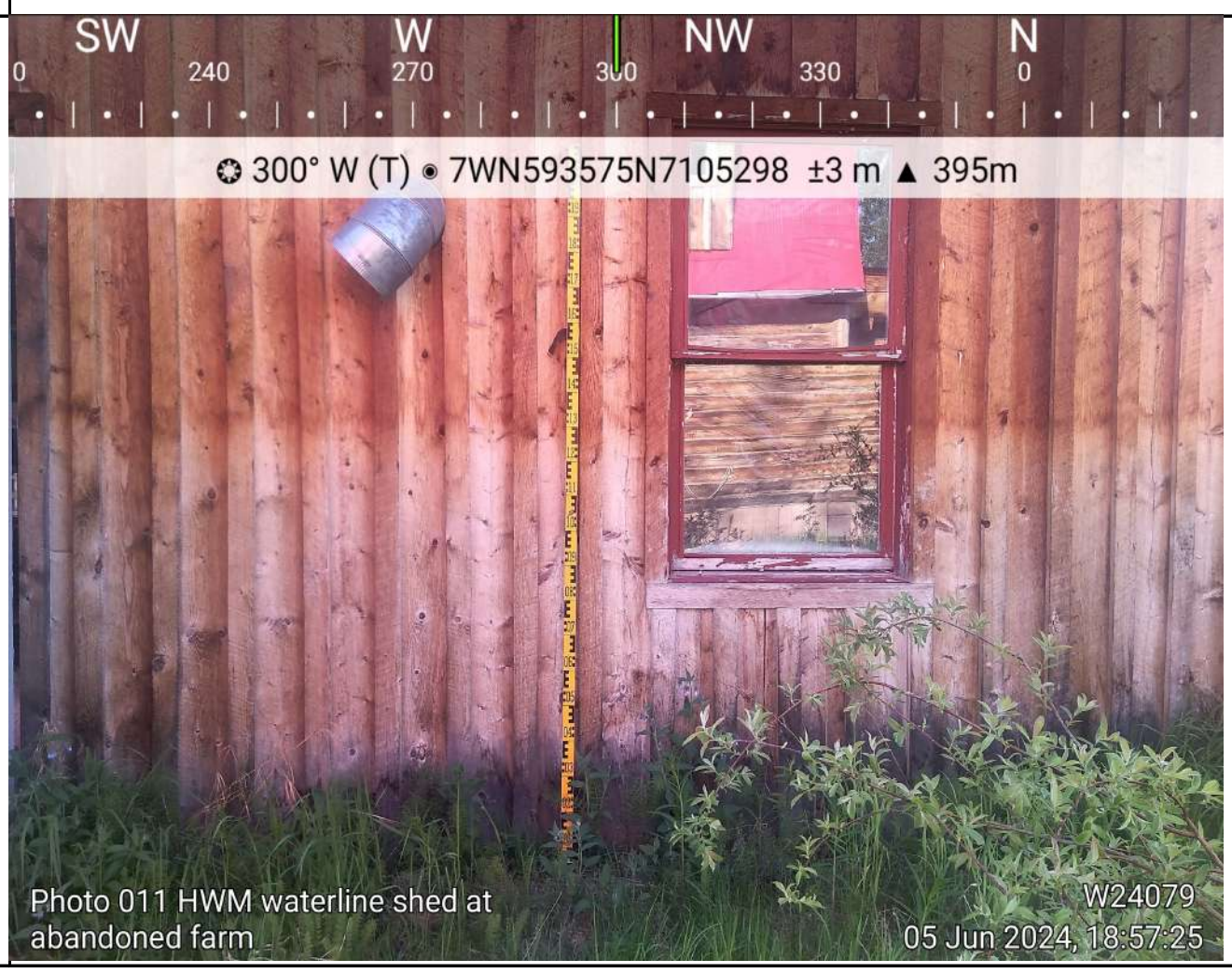
Dawson City & Klondike Valley Flood Mapping Study
High Water Mark Data Sheet

Point ID	HWM_KR_2023_HC_IJ-01
River	Klondike River
Approximate Station (m)	26+350
Event	2023 Ice Jam Flood - Henderson's Corner
Northing (m)	7105405.12
Easting (m)	596515.86
Ground Elevation (m) [2]	386.73
HWM Height from Ground (m)	0.40
HWM Elevation (m) [2]	387.13
Notes	HWM at 0.40m, halfway up hydrant
Location Map	
Photograph 1	

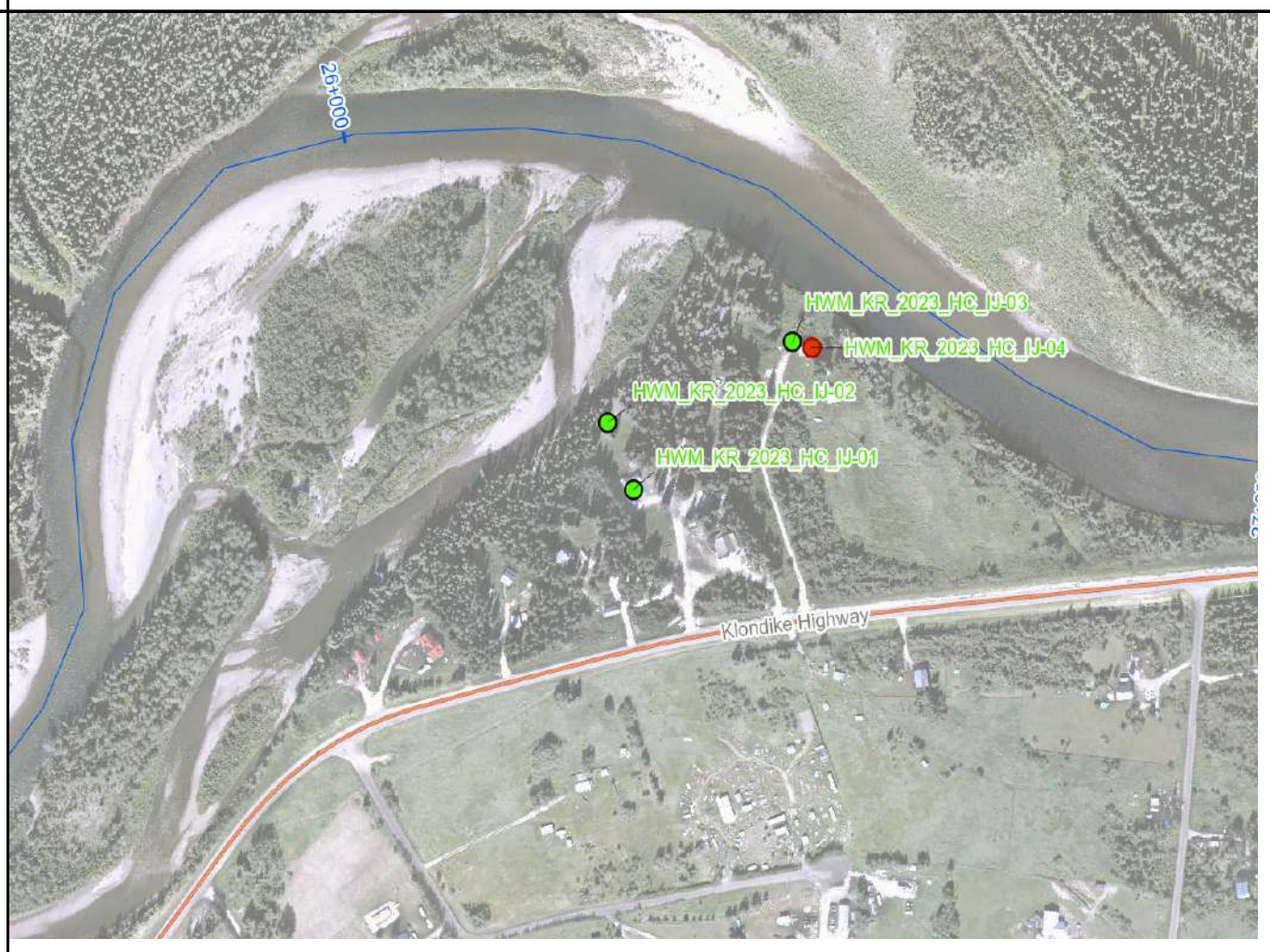
Dawson City & Klondike Valley Flood Mapping Study
High Water Mark Data Sheet

Point ID	HWM_KR_2023_HC_IJ-02
River	Klondike River
Approximate Station (m)	26+320
Event	2023 Ice Jam Flood - Henderson's Corner
Northing (m)	7105452.89
Easting (m)	596488.97
Ground Elevation (m) [2]	386.02
HWM Height from Ground (m)	0.00
HWM Elevation (m) [2]	386.02
Notes	HWM 2023 debris left by flooding
Location Map	
Photograph 1	

Dawson City & Klondike Valley Flood Mapping Study
High Water Mark Data Sheet

Point ID	HWM_KR_2023_HC_IJ-03
River	Klondike River
Approximate Station (m)	26+500
Event	2023 Ice Jam Flood - Henderson's Corner
Northing (m)	7105532.67
Easting (m)	596628.51
Ground Elevation (m) [2]	386.38
HWM Height from Ground (m)	1.30
HWM Elevation (m) [2]	387.68
Notes	HWM at 1.30m, discolouration of wood on shed
Location Map	
Photograph 1	

Dawson City & Klondike Valley Flood Mapping Study
High Water Mark Data Sheet

Point ID	HWM_KR_2023_HC_IJ-04
River	Klondike River
Approximate Station (m)	26+500
Event	2023 Ice Jam Flood - Henderson's Corner
Northing (m)	7105530.27
Easting (m)	596644.31
Ground Elevation (m) [2]	387.27
HWM Height from Ground (m)	0.59
HWM Elevation (m) [2]	387.86
Notes	HHWM at 0.59m, damaged wood on house
Location Map	
Photograph 1	

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2025/11/19 3:01 PM By: Chambers, Sonia

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Permit-Seal

Client/Project

DAWSON CITY AND KLONDIKE VALLEY FLOOD MAPPING STUDY

DAWSON CITY, YUKON

Title

DAWSON CITY DIKE
GENERAL ARRANGEMENT

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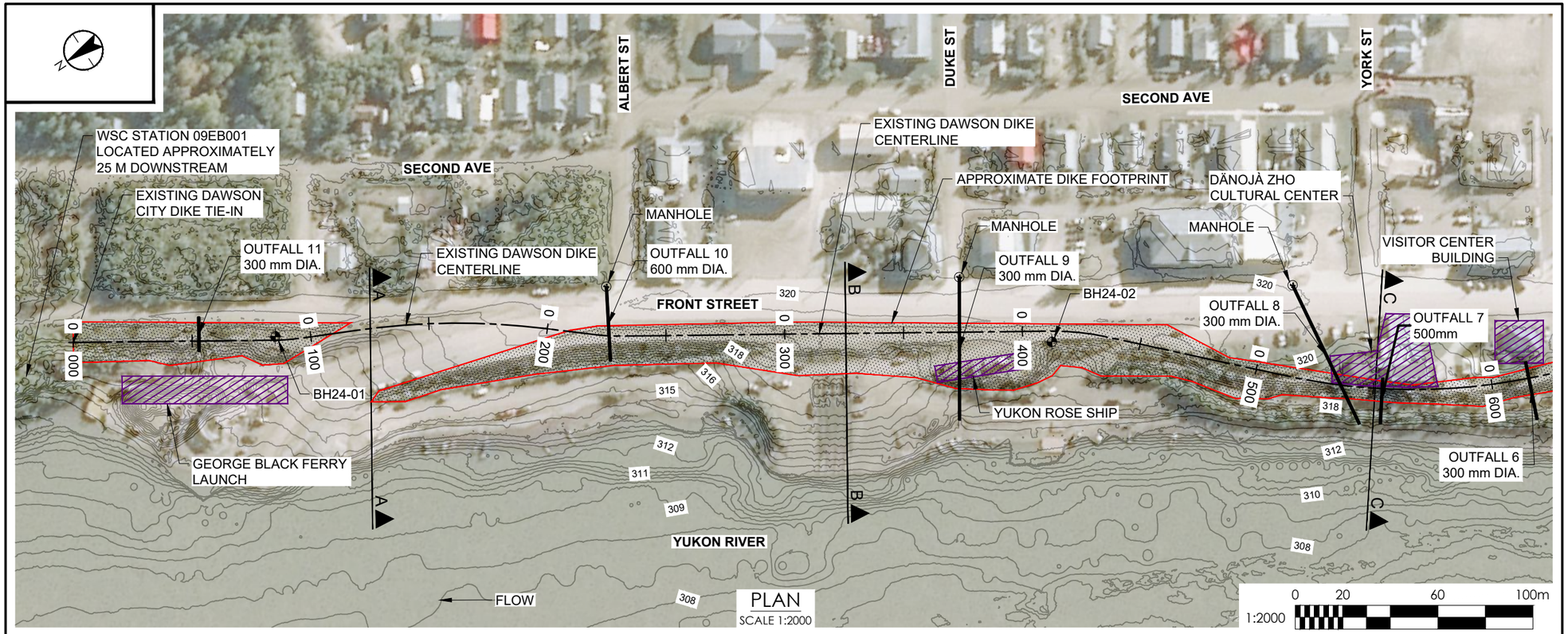
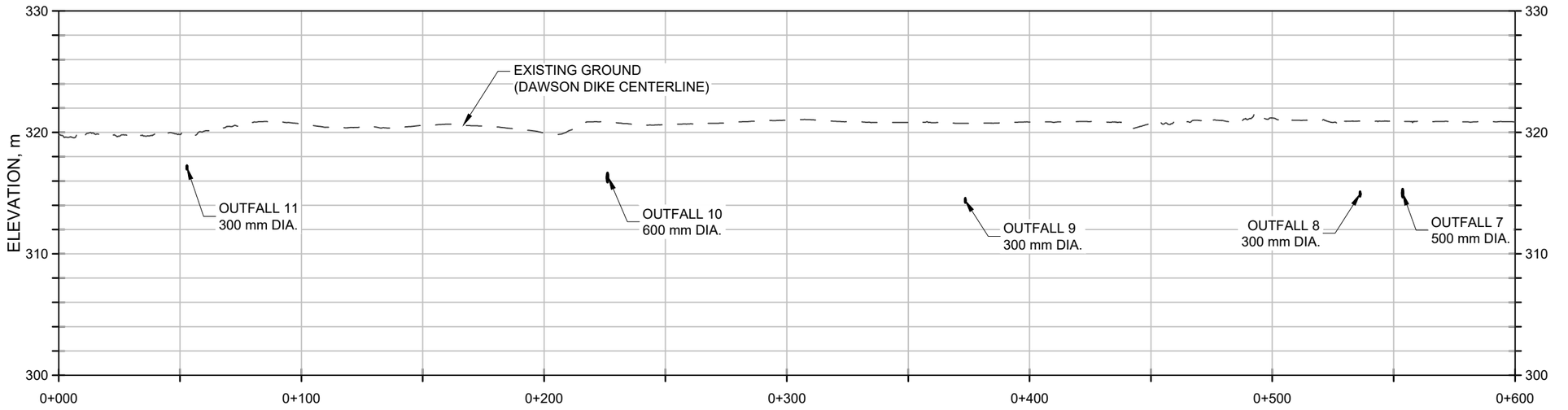
123222713	AS NOTED	
Drawing No.	Sheet	Revision
D-101	1 of 7	0





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1:400

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1:2000

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Legend

- APPROXIMATE DIKE FOOTPRINT
- APPROXIMATE LOCATION OF EXISTING STRUCTURES
- BOREHOLE
- MANHOLE

Revision	By	Appd.	YY.MM.DD
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File Name: d-102-dawson-city-dike-ex.plans	SC Dwn.	JM Chkd.	JM Dsgn.	25.11.19 YY.MM.DD

Permit-Seal

Client/Project

DAWSON CITY AND KLONDIKE VALLEY
FLOOD MAPPING STUDY

DAWSON CITY, YUKON

Title

DAWSON CITY DIKE
STA. 0+000 TO STA. 0+600
PLAN AND PROFILE

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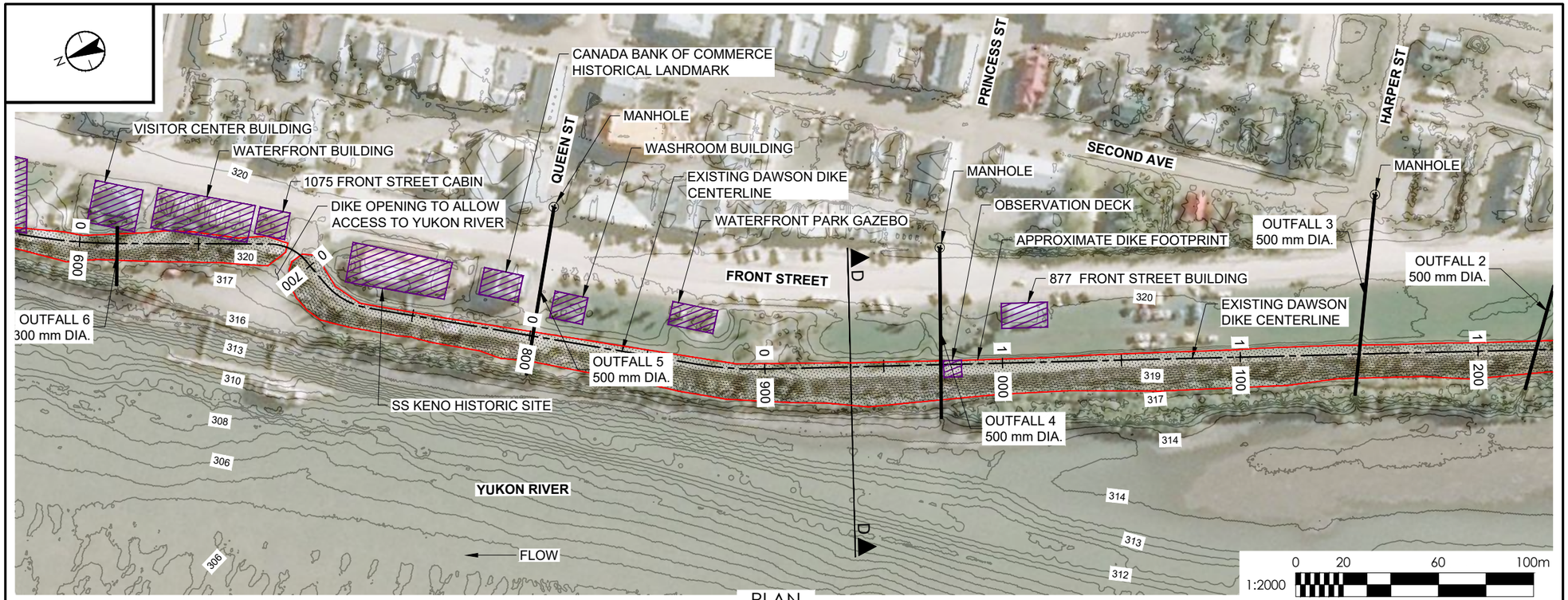
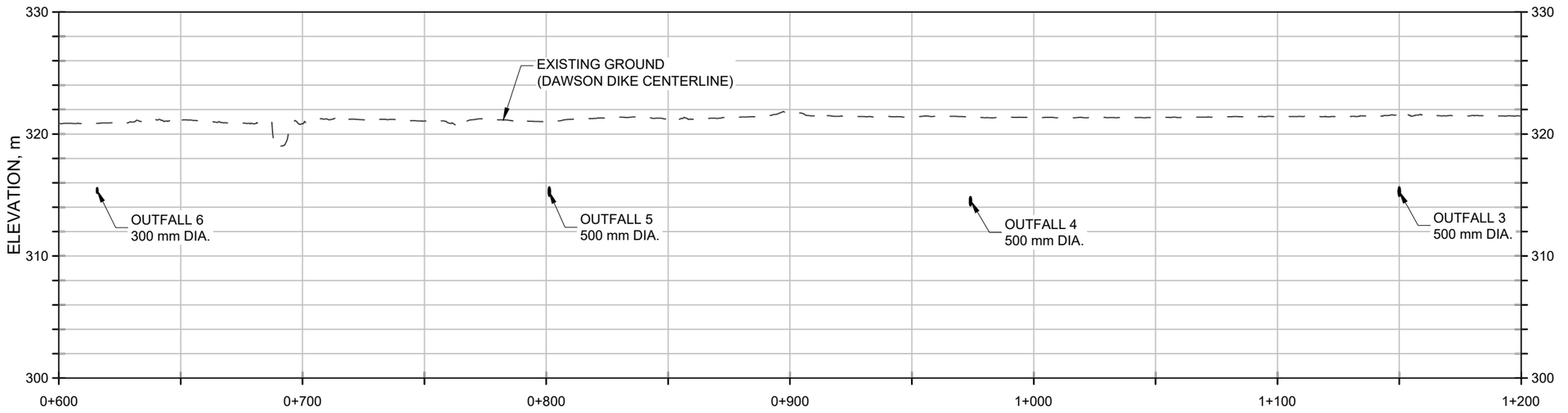
Drawing No.	Sheet	Revision
D-102	2 of 7	0



PLAN
SCALE 1:2000



PROFILE
SCALE 1:400H 1:1000V

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1:400

0 20 60 100m
1:2000

ORIGINAL SHEET - ISO 11x17 - v14.06

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Legend

- APPROXIMATE DIKE FOOTPRINT
- APPROXIMATE LOCATION OF EXISTING STRUCTURES
- BOREHOLE
- MANHOLE

Revision	By	Appd.	YY.MM.DD
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Permit-Seal

Client/Project
DAWSON CITY AND KLONDIKE VALLEY FLOOD MAPPING STUDY

DAWSON CITY, YUKON

Title
DAWSON CITY DIKE
STA. 0+600 TO STA. 1+200
PLAN AND PROFILE

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Drawing No.	Sheet	Revision
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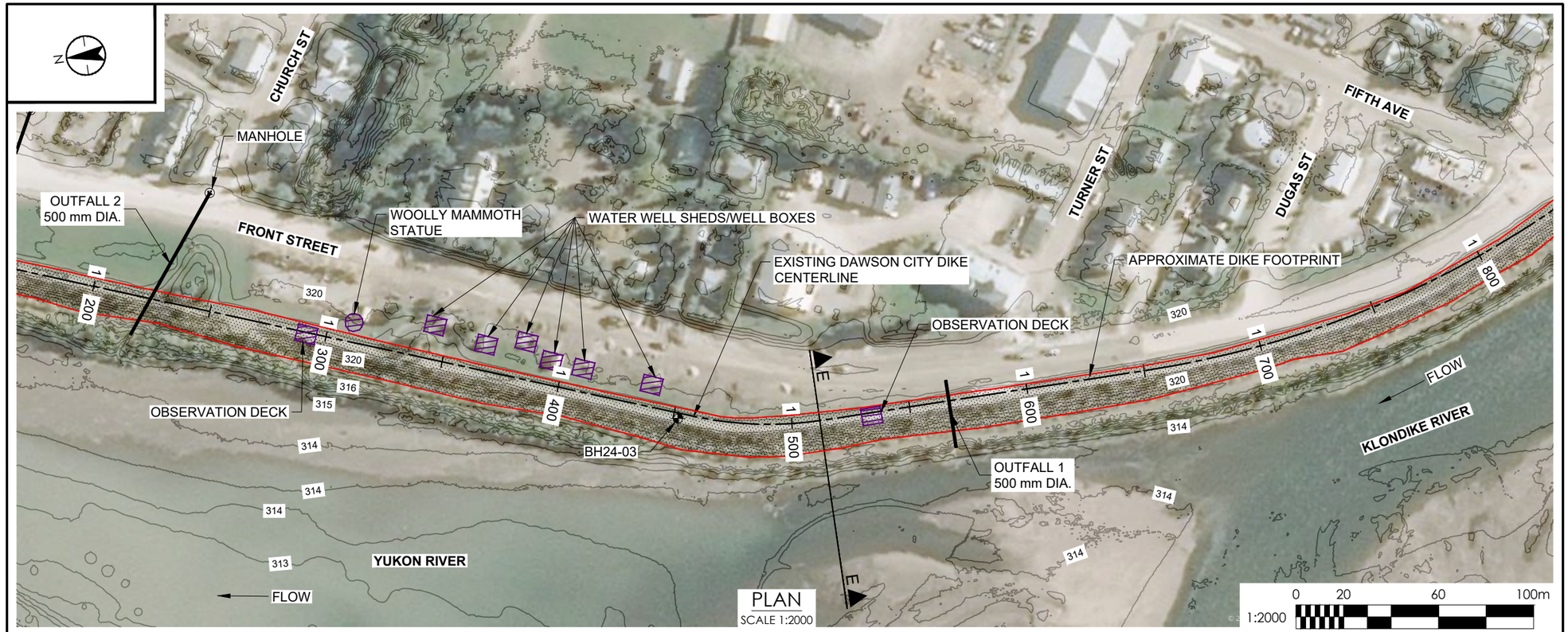

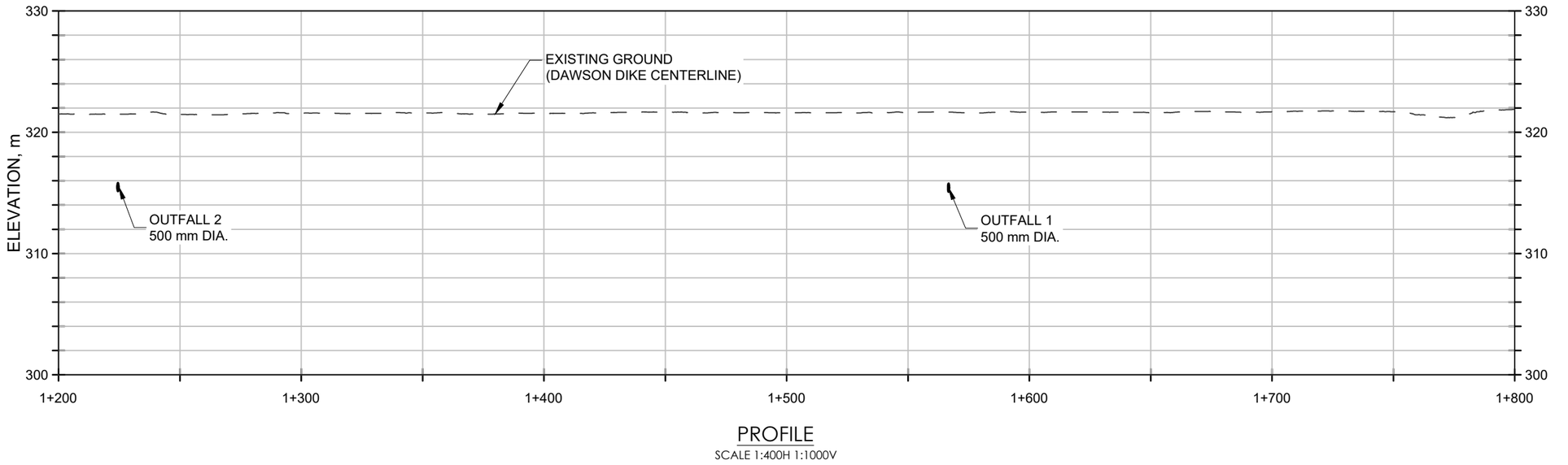

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1:400

0 20 60 100m
1:2000

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2025/11/19 3:16 PM By: Chambers, Sonia

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Legend

- APPROXIMATE DIKE FOOTPRINT
- APPROXIMATE LOCATION OF EXISTING STRUCTURES
- BOREHOLE
- MANHOLE

Revision	By	Appd.	YY.MM.DD
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File Name: d-102-dawson-city-dike-ex.plans	SC	JM	JM	25.11.19
	Dwn.	Chkd.	Dsgn.	YY.MM.DD

Permit-Seal

Client/Project
DAWSON CITY AND KLONDIKE VALLEY FLOOD MAPPING STUDY

DAWSON CITY, YUKON

Title
DAWSON CITY DIKE
STA. 1+200 TO STA. 1+800
PLAN AND PROFILE

Project No.	Scale	
123222713	AS NOTED	
Drawing No.	Sheet	Revision
D-104	4 of 7	0

PLAN
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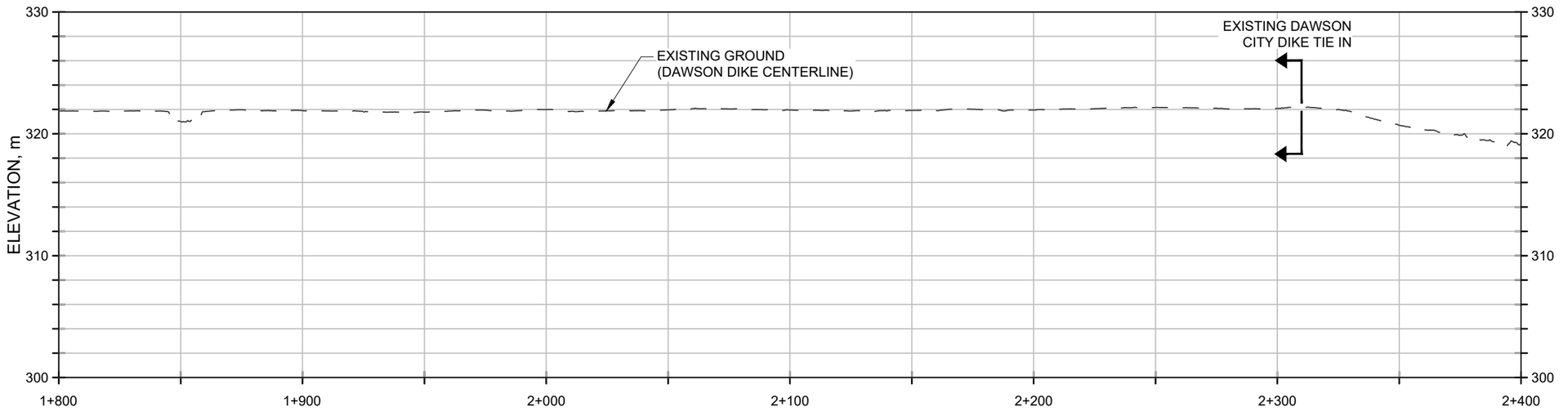

PROFILE
SCALE 1:400H 1:1000V

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1:400

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1:2000

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2025/11/19 3:18 PM By: Chambers, Sonia

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Legend

- APPROXIMATE DIKE FOOTPRINT
- APPROXIMATE LOCATION OF EXISTING STRUCTURES
- BOREHOLE
- MANHOLE

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File Name: d-102-dawson-city-dike-ex.plans	SC	JM	JM	25.11.19
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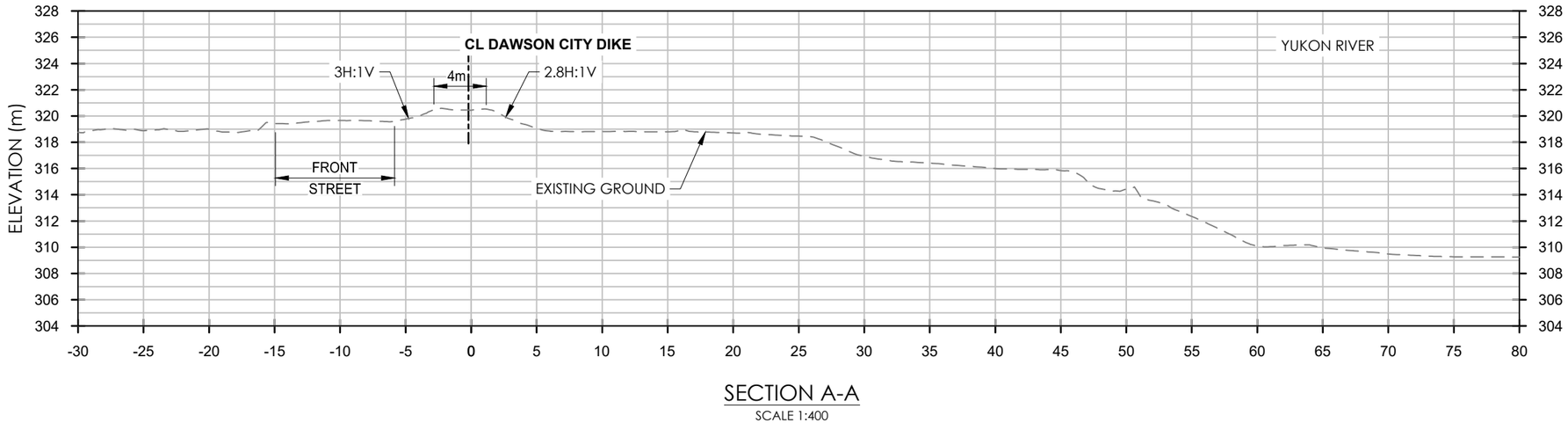
Permit-Seal

Client/Project
DAWSON CITY AND KLONDIKE VALLEY FLOOD MAPPING STUDY

DAWSON CITY, YUKON

Title
DAWSON CITY DIKE
STA. 1+800 TO STA. 2+310
PLAN AND PROFILE

Project No.	Scale	
123222713	AS NOTED	
Drawing No.	Sheet	Revision
D-105	5 of 7	0



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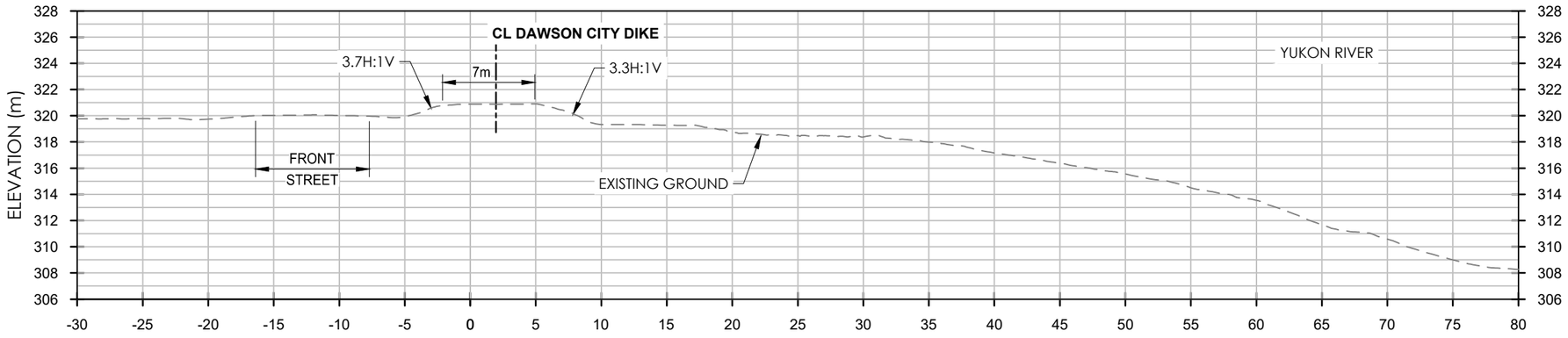

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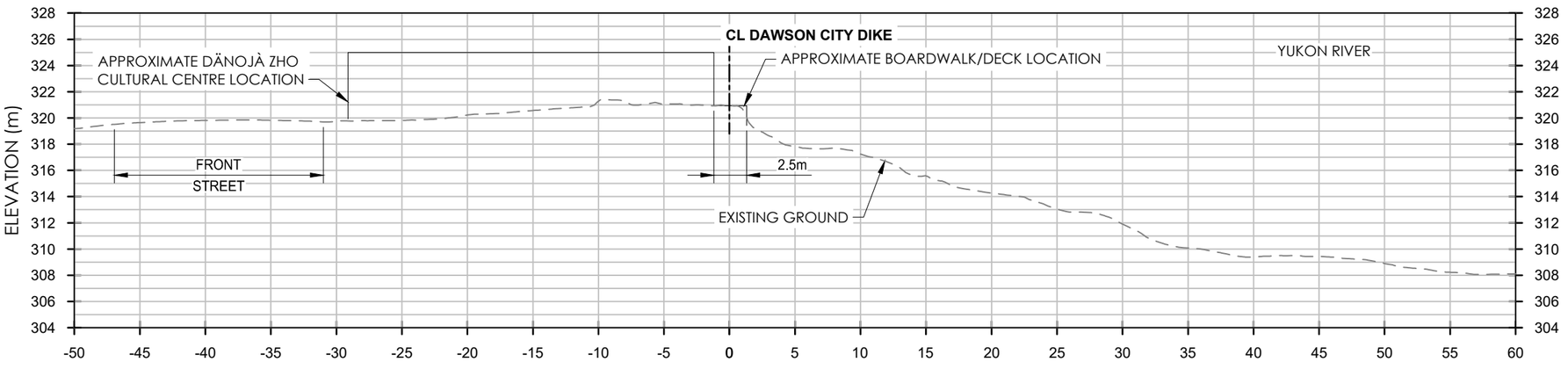

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2025/11/19 4:07 PM By: Chambers, Sonia

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File Name: d-106-dawson-city-dike-ex.sects	SC	JM	JM	25.11.19
	Dwn.	Chkd.	Dsgn.	YY.MM.DD

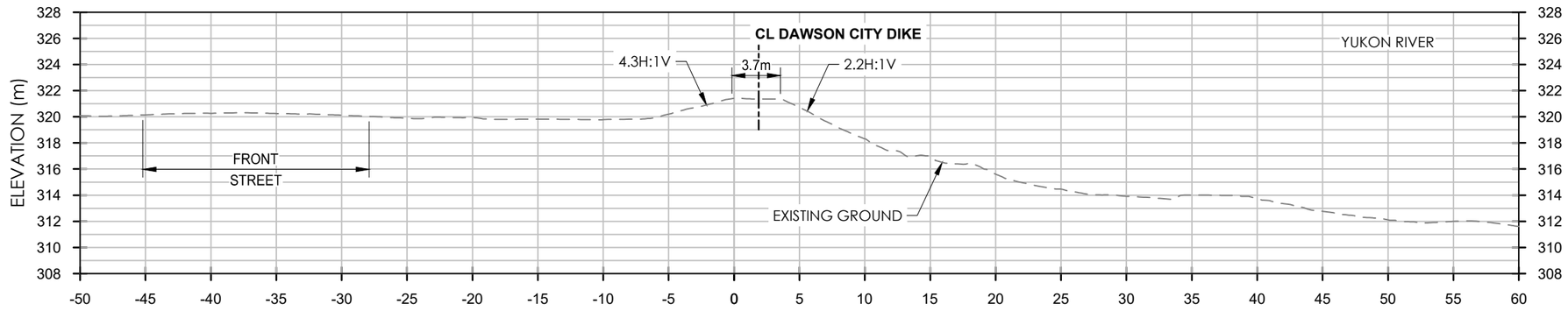
Permit-Seal

Client/Project
DAWSON CITY AND KLONDIKE VALLEY FLOOD MAPPING STUDY

DAWSON CITY, YUKON

Title
DAWSON CITY DIKE
EXISTING CROSS SECTIONS 1 OF 2

Project No.	Scale	
123222713	AS NOTED	
Drawing No.	Sheet	Revision
D-106	6 of 7	0



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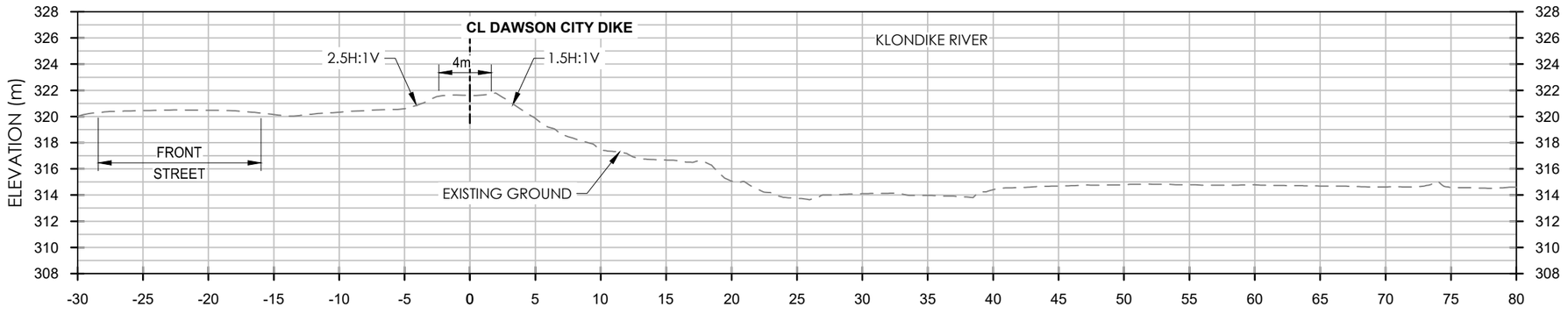

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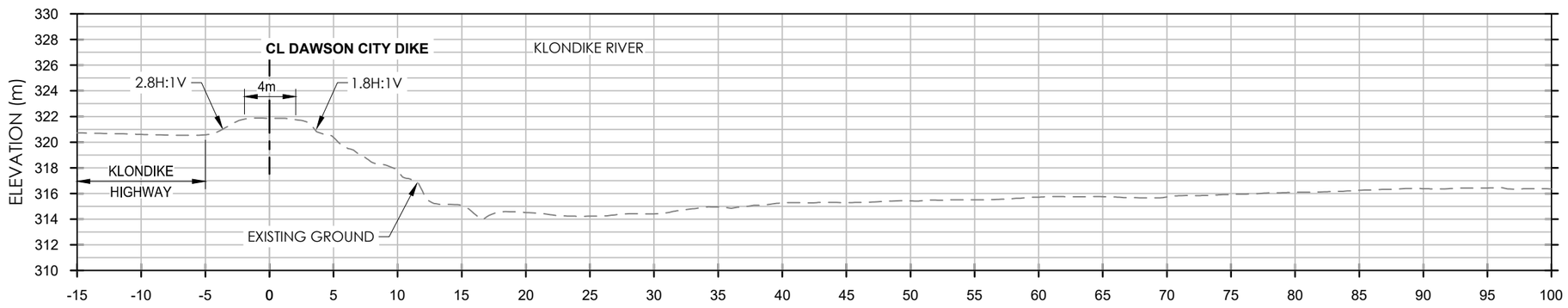

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SCALE 1:400

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1:400

ORIGINAL SHEET - ISO 11x17 - v14.06

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File Name: d-106-dawson-city-dike-ex.sects	SC Dwn.	JM Chkd.	JM Dsgn.	25.11.19 YY.MM.DD

Permit-Seal

Client/Project
DAWSON CITY AND KLONDIKE VALLEY FLOOD MAPPING STUDY

DAWSON CITY, YUKON

Title
DAWSON CITY DIKE
EXISTING CROSS SECTIONS 2 OF 2

Project No.	Scale	
123222713	AS NOTED	
Drawing No.	Sheet	Revision
D-107	7 of 7	0

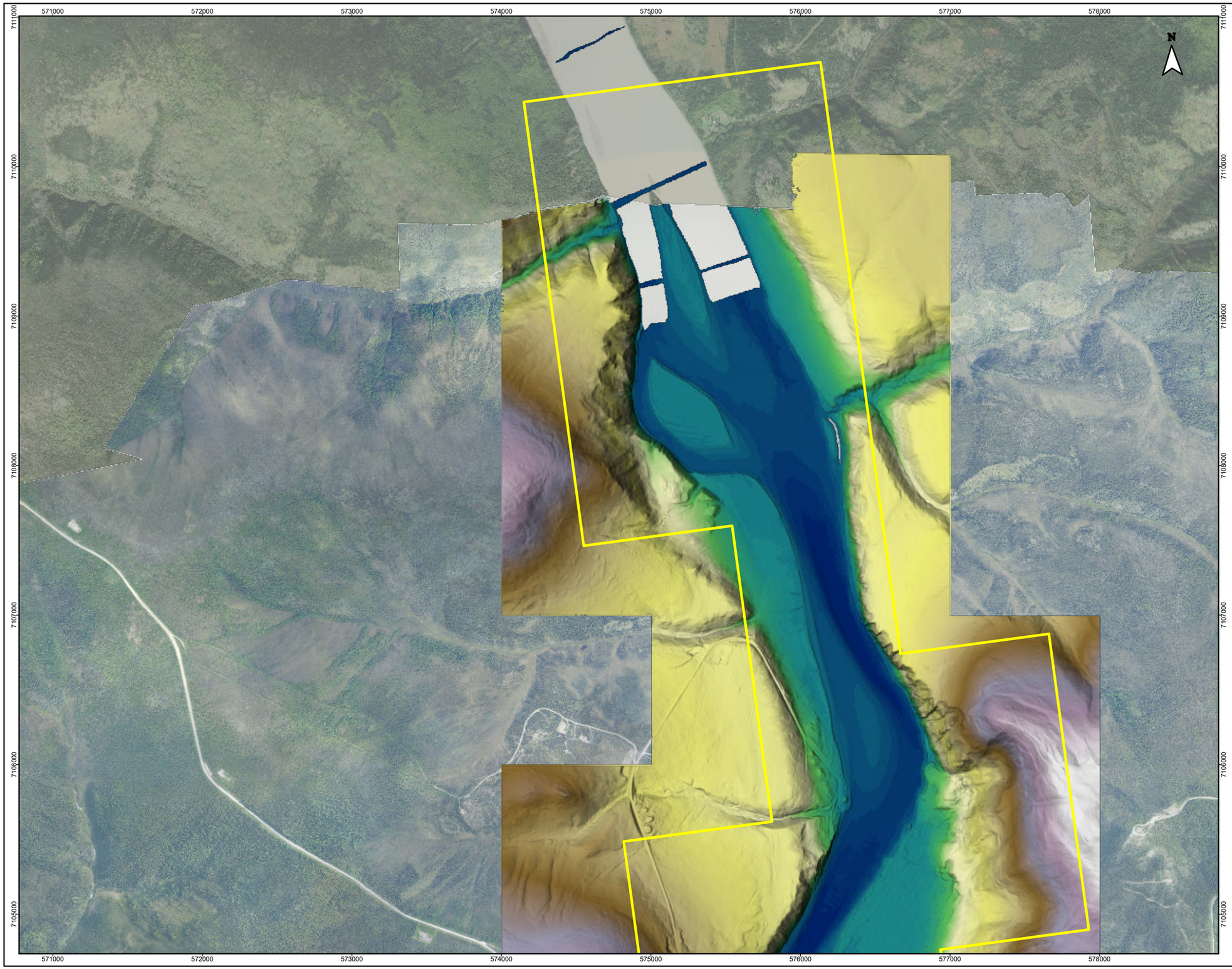


Figure No.
D-10

Title:
Dawson Flood Mapping Study
Digital Terrain Model

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

Project: 123222713

Project Location:
Dawson, Yukon

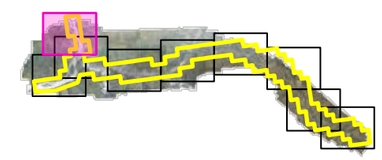
Prepared by MAINSLEY on 2024-12-16
Requested by JMUIRHEAD on 2024-11-01
Review by JMUIRHEAD on 2024-12-16

Study Area

Elevation (m)
821
259

0 500 1,000 1,500
Metres

(At original document size of 11x 17) 1:25,000



Notes
1. Coordinate System: NAD 1983 CSRS UTM Zone 7N
Vertical Datum: CGVD2013, Geoid: CGG2013a
2. Data Sources:
Aerial Imagery/LiDAR: McElhanney 2019,2024
ESRI World Imagery

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Yukon
Canada

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570000 571000 572000 573000 574000 575000 576000 577000

7104000 7103000 7102000 7101000 7100000 7099000

N

Figure No.
D-11

Title:
Dawson Flood Mapping Study
Digital Terrain Model

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

Project: 123222713

Project Location:
Dawson, Yukon

Prepared by MAINSLEY on 2024-12-16
Requested by JMUIRHEAD on 2024-11-01
Review by JMUIRHEAD on 2024-12-16

Study Area

Elevation (m)

821

259

0 500 1,000 1,500
Metres

(At original document size of 11x 17) 1:25,000

Notes
1. Coordinate System: NAD 1983 CSRS UTM Zone 7N
Vertical Datum: CGVD2013, Geoid: CGG2013a
2. Data Sources:
Aerial Imagery/LiDAR: McElhanney 2019,2024
ESRI World Imagery

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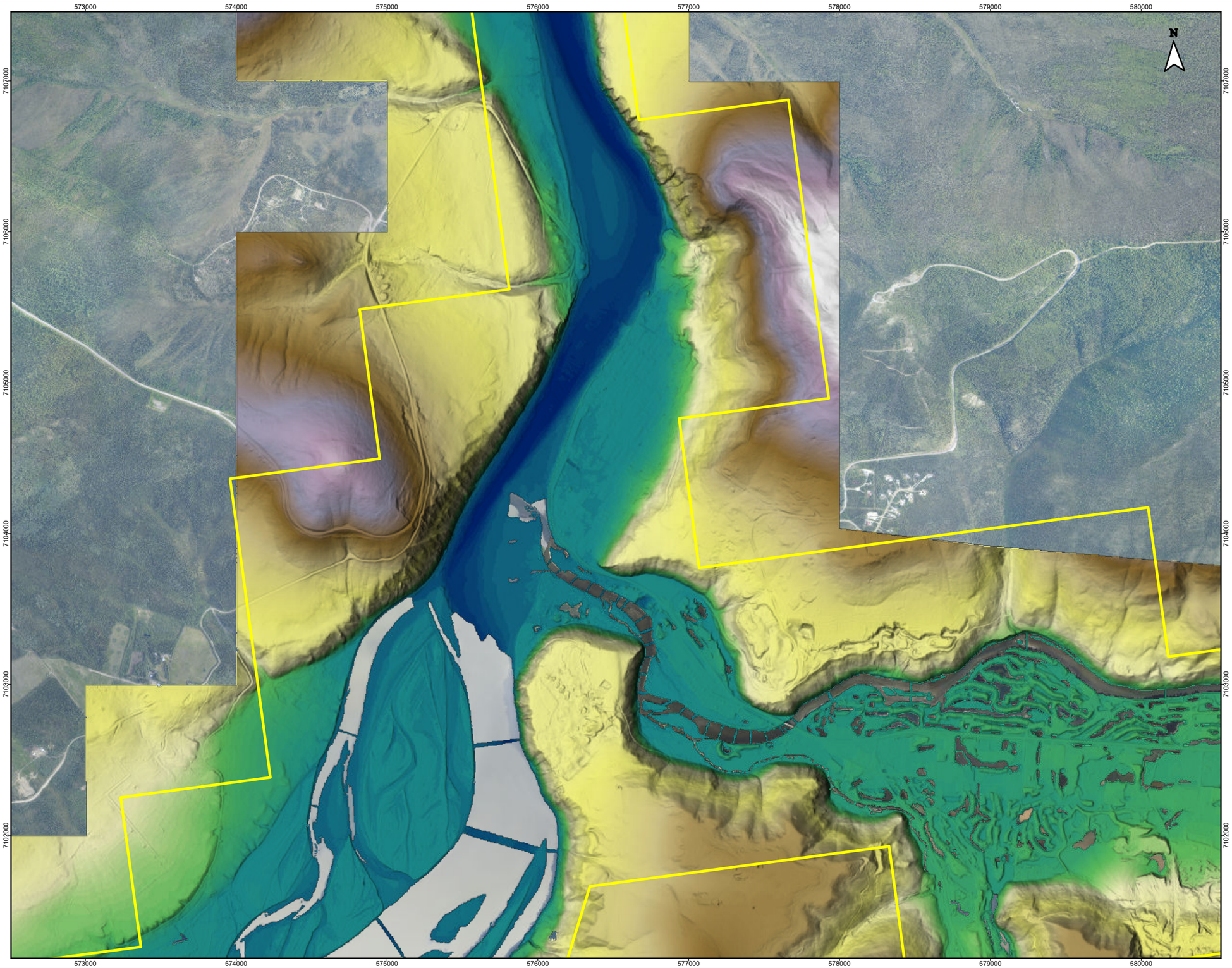

Figure No.
D-12

Title:
Dawson Flood Mapping Study
Digital Terrain Model

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

Project: 123222713

Project Location:
Dawson, Yukon

Prepared by MAINSLEY on 2024-12-16
Requested by JMUIRHEAD on 2024-11-01
Review by JMUIRHEAD on 2024-12-16

Study Area

Elevation (m)

821

259

0 500 1,000 1,500
Metres

(At original document size of 11x 17) 1:25,000

Notes
1. Coordinate System: NAD 1983 CSRS UTM Zone 7N
Vertical Datum: CGVD2013, Geoid: CGG2013a
2. Data Sources:
Aerial Imagery/LiDAR: McEllhanney 2019,2024
ESRI World Imagery

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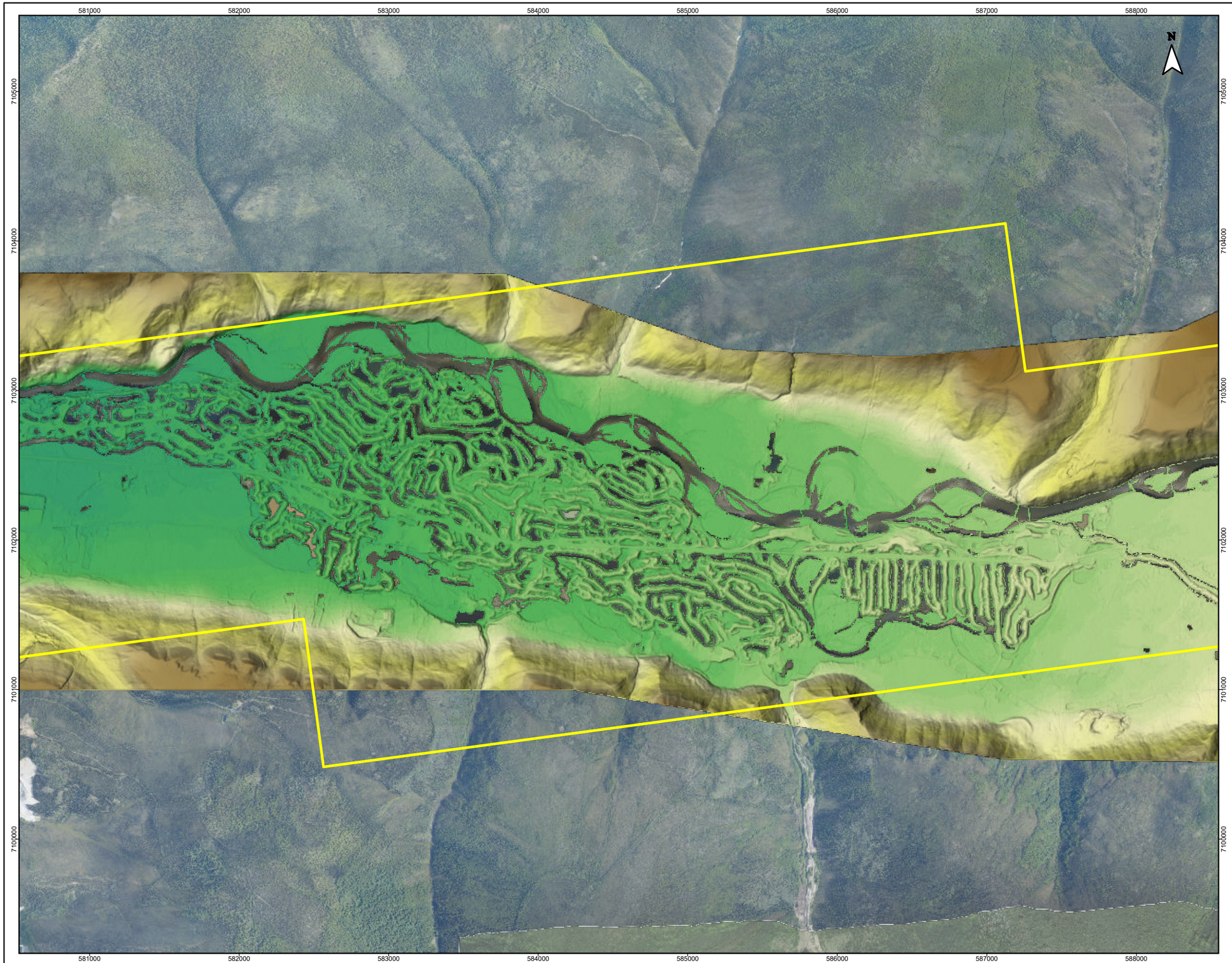

Figure No.
D-13

Title:
Dawson Flood Mapping Study
Digital Terrain Model

Client/Project:

Government of Yukon
Department of Environment
Water Resources Branch

Project: 123222713

Project Location:
Dawson, Yukon

Prepared by MAINSLEY on 2024-12-16
Requested by JMUIRHEAD on 2024-11-01
Review by JMUIRHEAD on 2024-12-16

Study Area

Elevation (m)

821

259

0 500 1,000 1,500
Metres

(At original document size of 11x 17) 1:25,000

Notes
1. Coordinate System: NAD 1983 CSRS UTM Zone 7N
Vertical Datum: CGVD2013, Geoid: CGG2013a
2. Data Sources:
Aerial Imagery/LiDAR: McEllhanney 2019,2024
ESRI World Imagery

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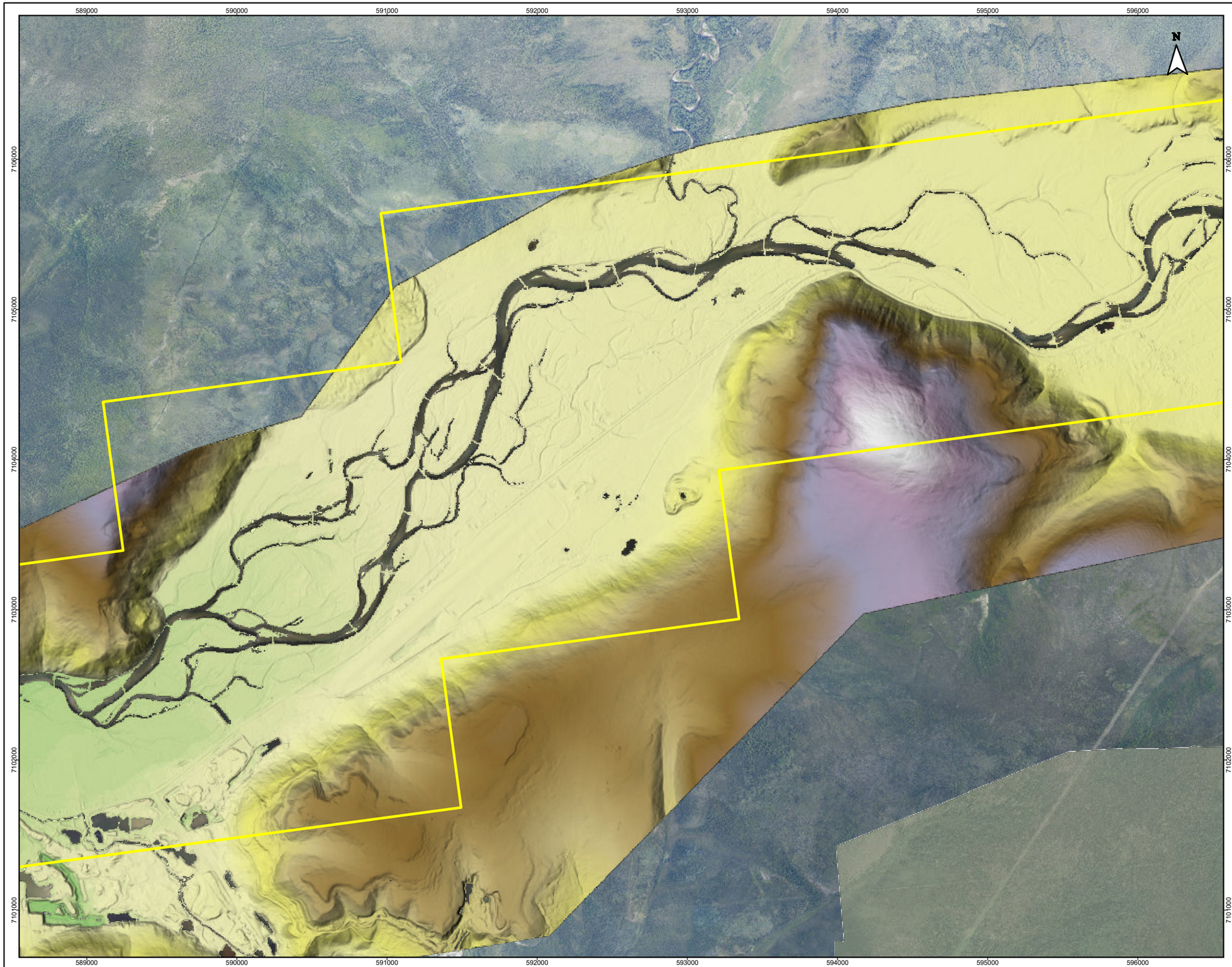

Figure No.
D-14

Title:
Dawson Flood Mapping Study
Digital Terrain Model

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

Project: 123222713

Project Location:
Dawson, Yukon

Prepared by MAINSLEY on 2024-12-16
Requested by JMUIRHEAD on 2024-11-01
Review by JMUIRHEAD on 2024-12-16

Study Area

Elevation (m)

821

259

0 500 1,000 1,500
Metres

(At original document size of 11x 17) 1:25,000

Notes
1. Coordinate System: NAD 1983 CSRS UTM Zone 7N
Vertical Datum: CGVD2013, Geoid: CGG2013a
2. Data Sources:
Aerial Imagery/LiDAR: McEllhanney 2019,2024
ESRI World Imagery

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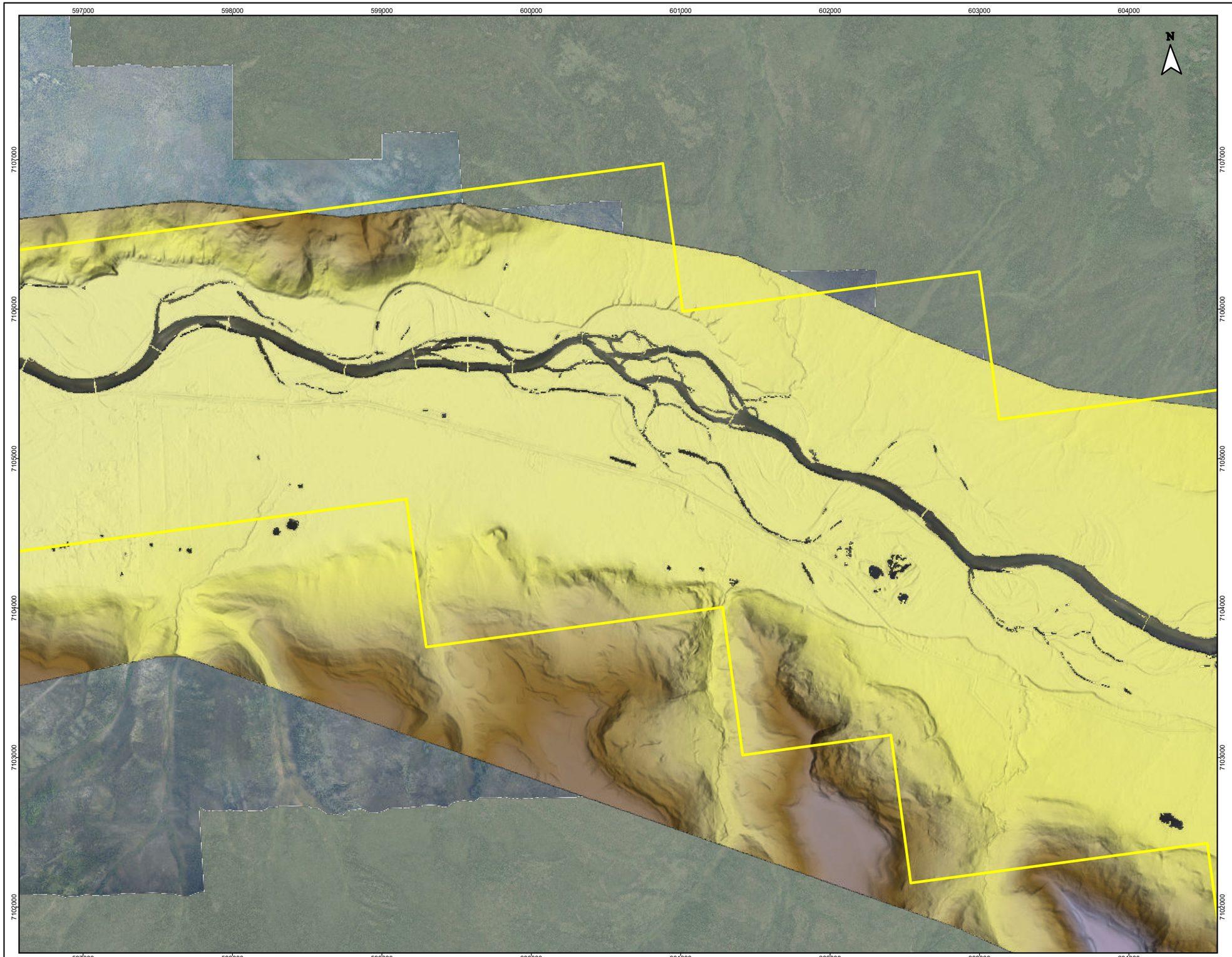

Figure No.
D-15

Title:
Dawson Flood Mapping Study
Digital Terrain Model

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

Project: 123222713

Project Location:
Dawson, Yukon

Prepared by MAINSLEY on 2024-12-16
Requested by JMUIRHEAD on 2024-11-01
Review by JMUIRHEAD on 2024-12-16

Study Area

Elevation (m)

821

259

0 500 1,000 1,500
Metres

(At original document size of 11x 17) 1:25,000

Notes
1. Coordinate System: NAD 1983 CSRS UTM Zone 7N
Vertical Datum: CGVD2013, Geoid: CGG2013a
2. Data Sources:
Aerial Imagery/LiDAR: McElhanney 2019,2024
ESRI World Imagery

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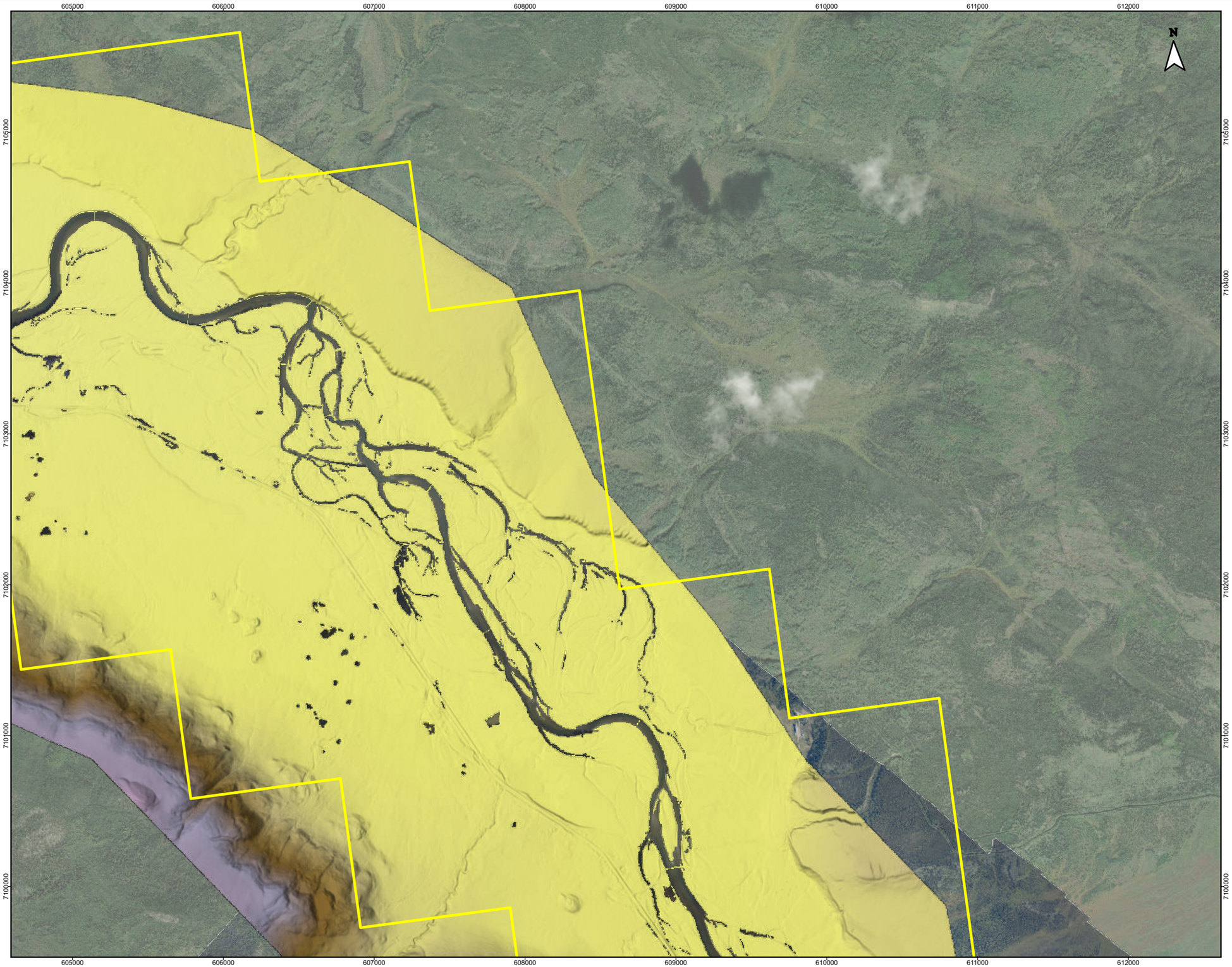


Figure No.
D-16

Title:
Dawson Flood Mapping Study
Digital Terrain Model

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

Project: 123222713

Project Location:
Dawson, Yukon

Prepared by MAINSLEY on 2024-12-16
Requested by JMUIRHEAD on 2024-11-01
Review by JMUIRHEAD on 2024-12-16

Study Area

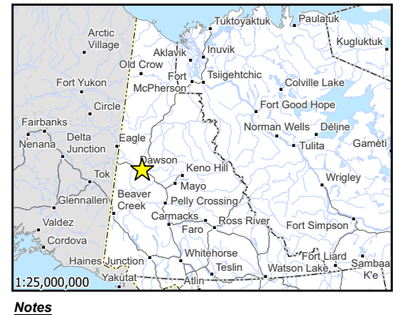
Elevation (m)

821

259

0 500 1,000 1,500
Metres

(At original document size of 11x 17) 1:25,000



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Vertical Datum: CGVD2013, Geoid: CGG2013a
2. Data Sources:
Aerial Imagery/LiDAR: McElhanney 2019,2024
ESRI World Imagery

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7099000 7098000 7097000 7096000 7095000 7094000

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Figure No.
D-17

Title:
Dawson Flood Mapping Study
Digital Terrain Model

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

Project: 123222713

Project Location:
Dawson, Yukon

Prepared by MAINSLEY on 2024-12-16
Requested by JMUIRHEAD on 2024-11-01
Review by JMUIRHEAD on 2024-12-16

Study Area

Elevation (m)
821
259

0 500 1,000 1,500
Metres

(At original document size of 11x 17) 1:25,000

Notes
1. Coordinate System: NAD 1983 CSRS UTM Zone 7N
Vertical Datum: CGVD2013, Geoid: CGG2013a
2. Data Sources:
Aerial Imagery/LiDAR: McElhanney 2019,2024
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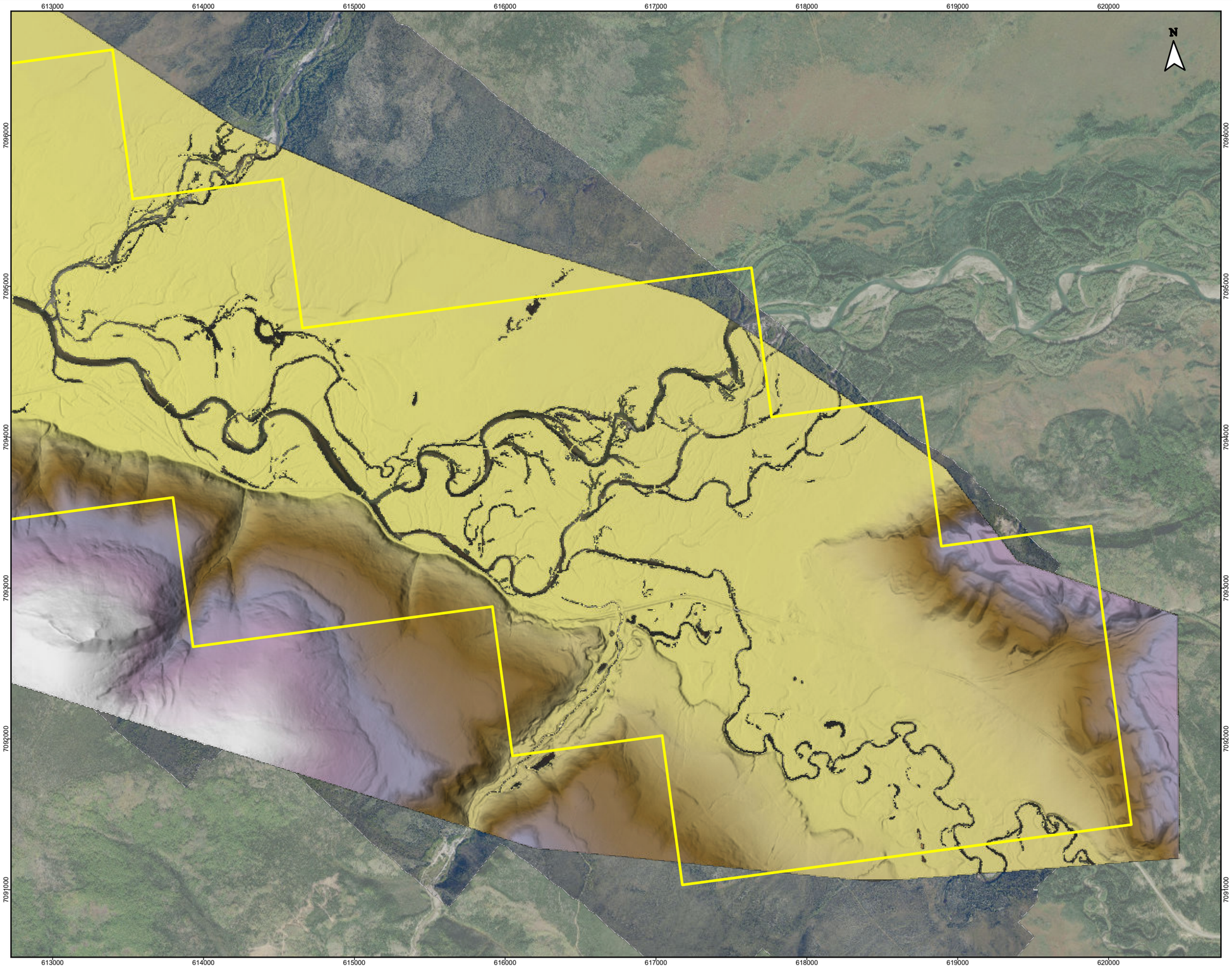

Figure No.
D-18

Title:
Dawson Flood Mapping Study
Digital Terrain Model

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

Project: 123222713

Project Location:
Dawson, Yukon

Prepared by MAINSLEY on 2024-12-16
Requested by JMUIRHEAD on 2024-11-01
Review by JMUIRHEAD on 2024-12-16

Study Area

Elevation (m)

821

259

0 500 1,000 1,500
Metres

(At original document size of 11x 17) 1:25,000

Notes
1. Coordinate System: NAD 1983 CSRS UTM Zone 7N
Vertical Datum: CGVD2013, Geoid: CGG2013a
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Yukon
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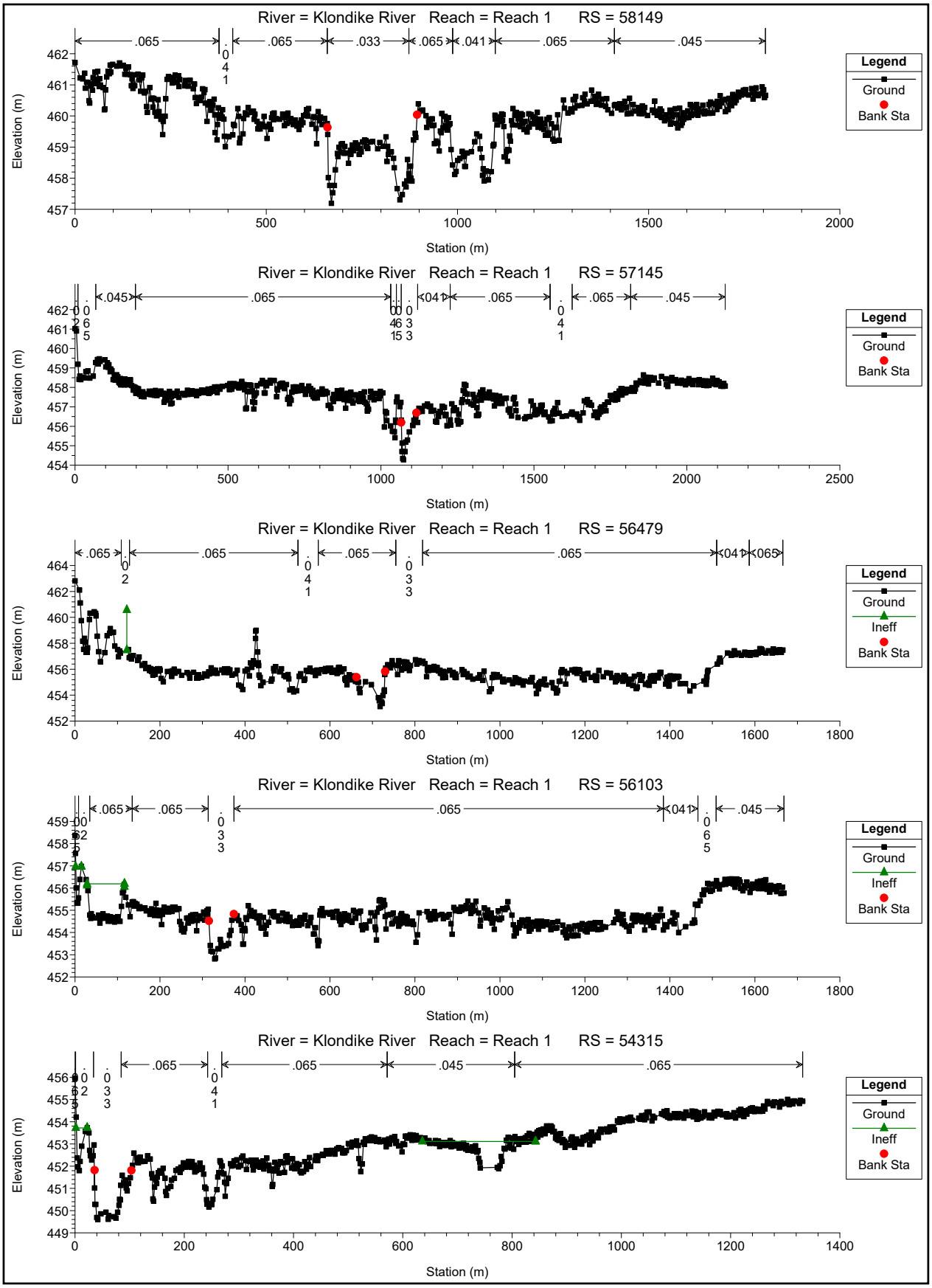
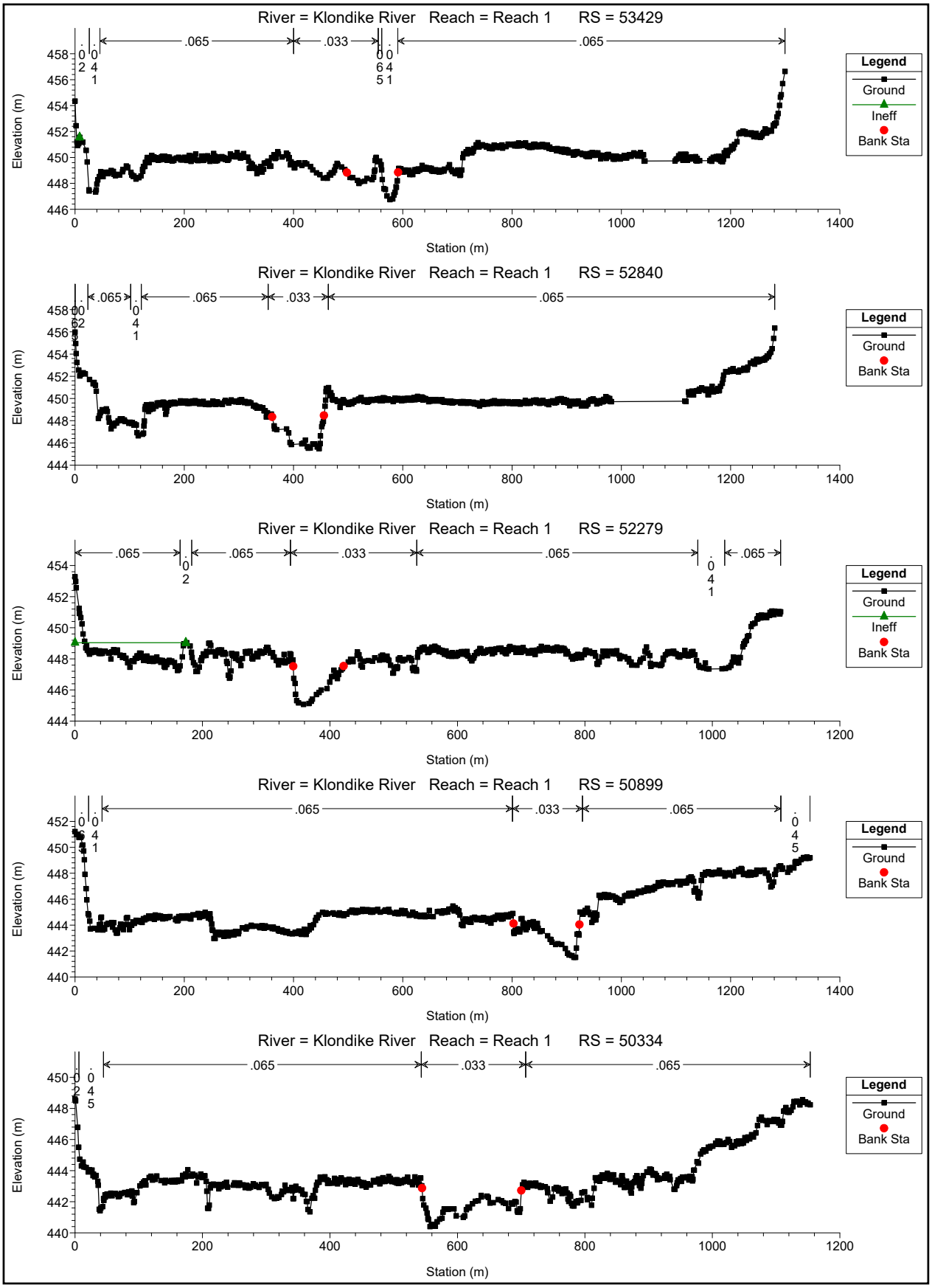
Appendix E Electronic Submissions

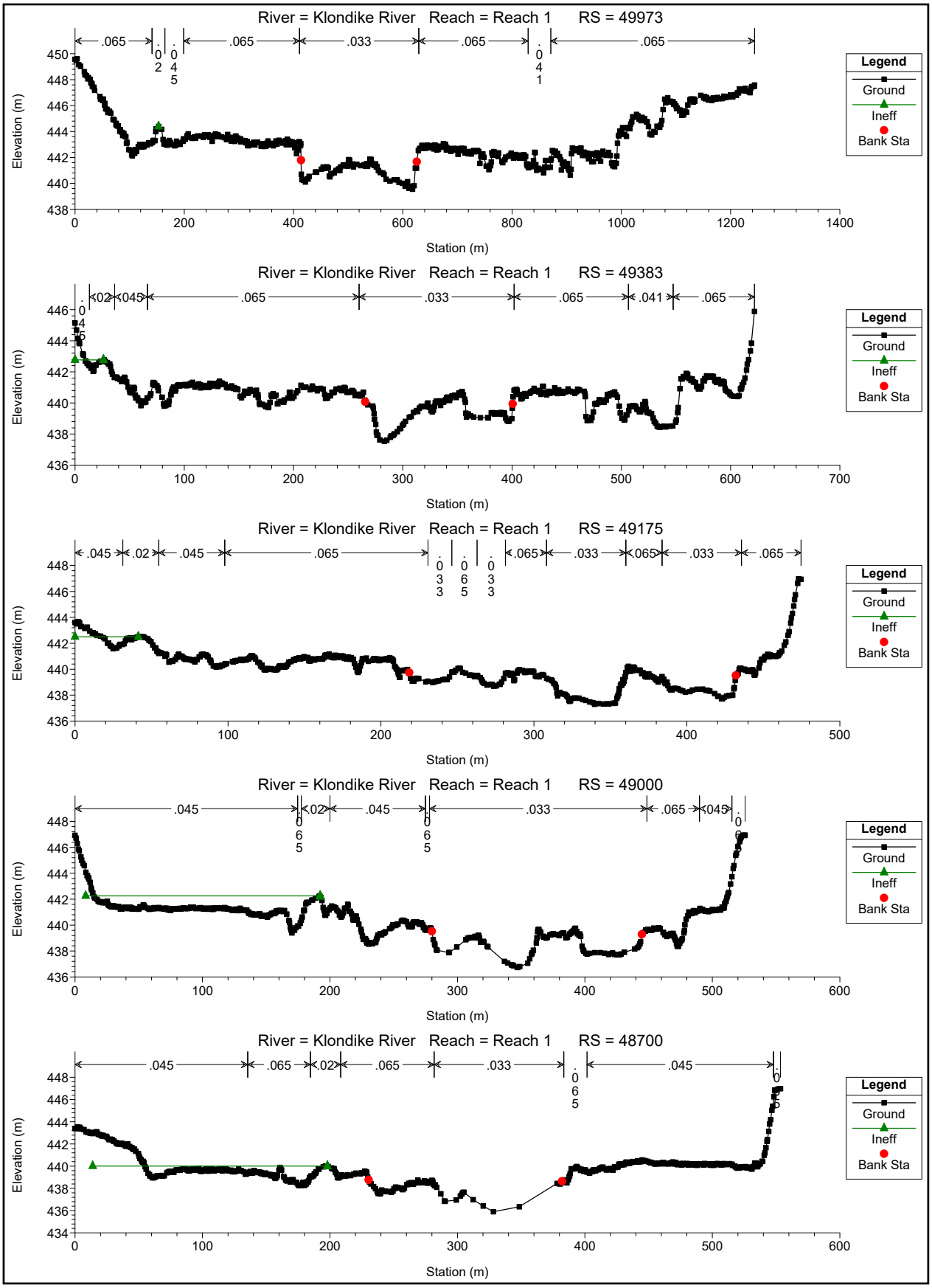
The following electronic files for the Dawson City and Klondike Valley Flood Mapping Study (the Project) have been transferred directly to YG.

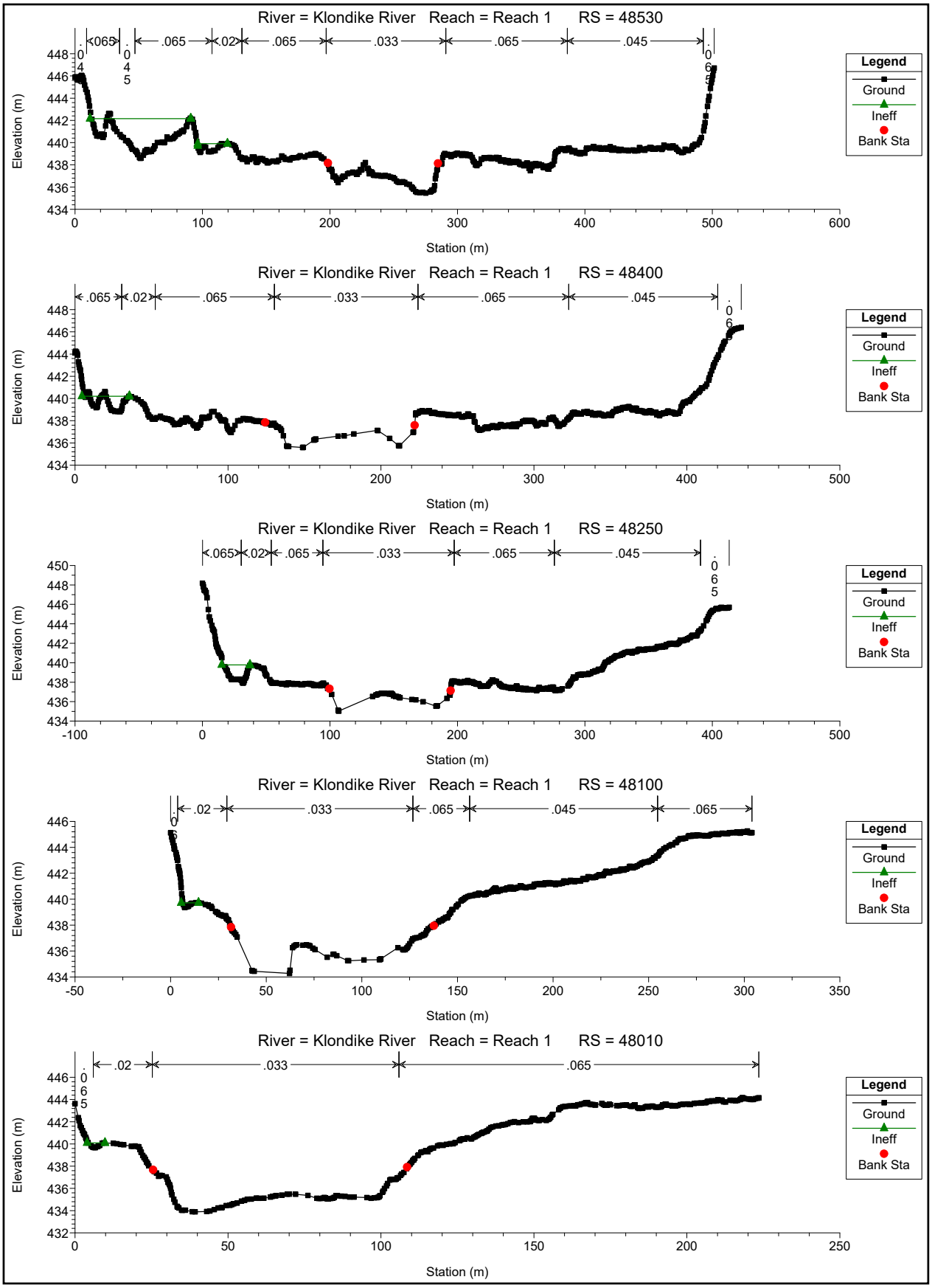
- Hydrology data (excel format)
- Digital Terrain Model (GeoTIFF format)
- HEC-RAS model files
- HEC-RAS hydraulic results (excel format)
- Geospatial model and mapping files, including:
    - Polygon Inundation Extents in Geodatabase format
    - WSE Rasters in GeoTIFF format

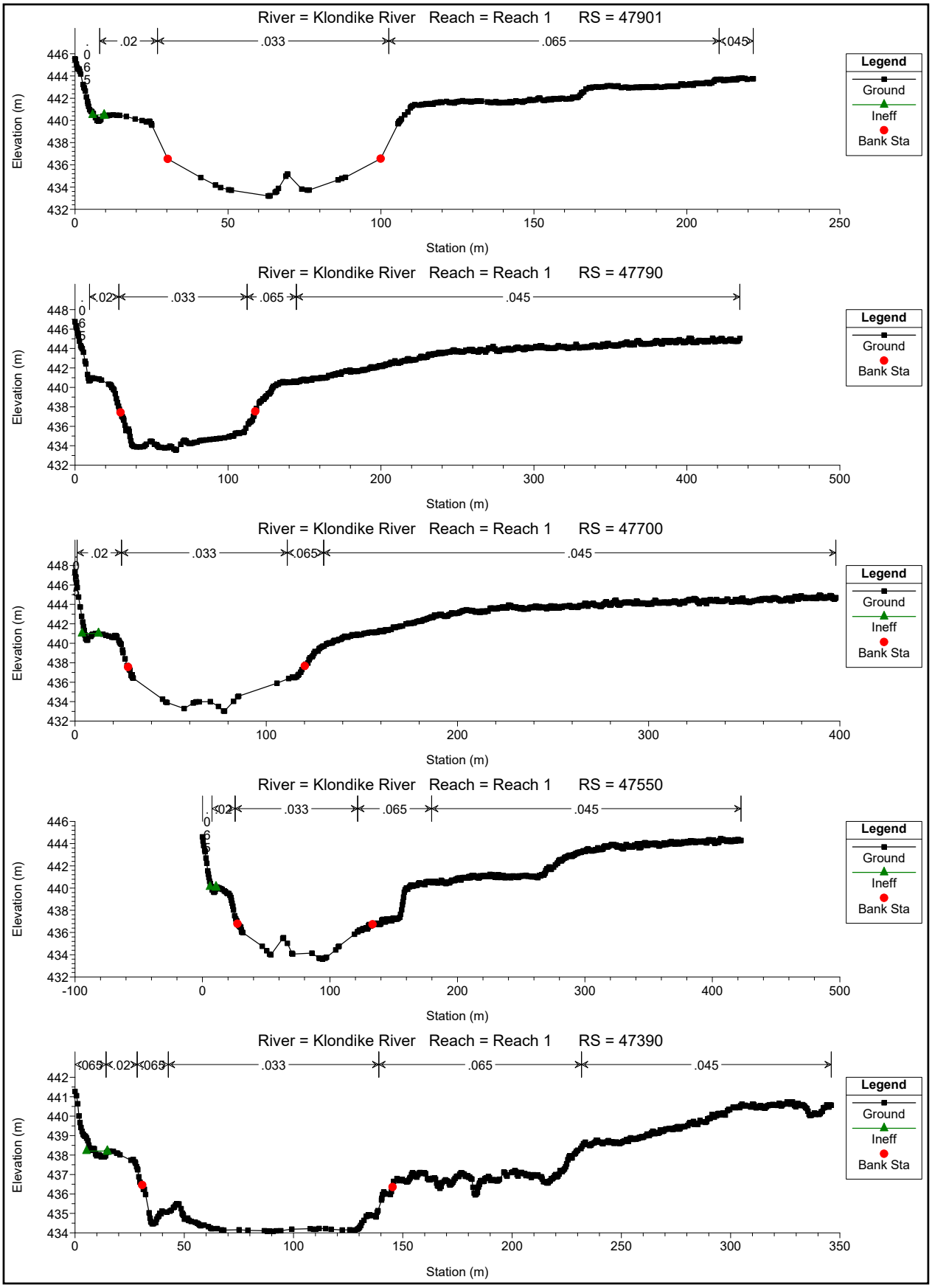
Appendix F Hydraulic Modelling

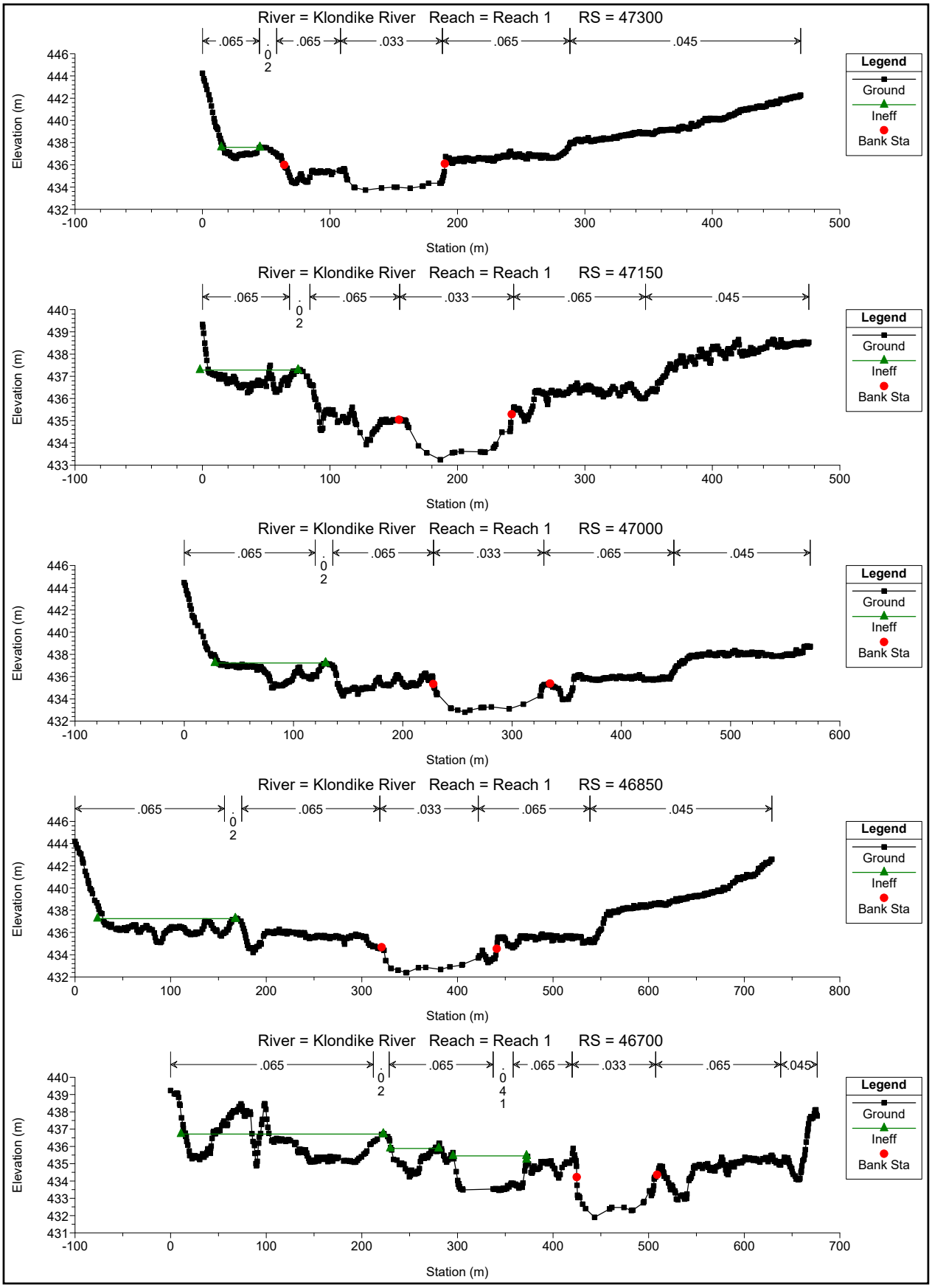

River = Klondike River Reach = Reach 1 RS = 58149
.065
.041
.033
.045
Elevation (m)
Station (m)
Legend
Ground
Bank Sta
River = Klondike River Reach = Reach 1 RS = 57145
Elevation (m)
Station (m)
Legend
Ground
Bank Sta
River = Klondike River Reach = Reach 1 RS = 56479
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 56103
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 54315
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta

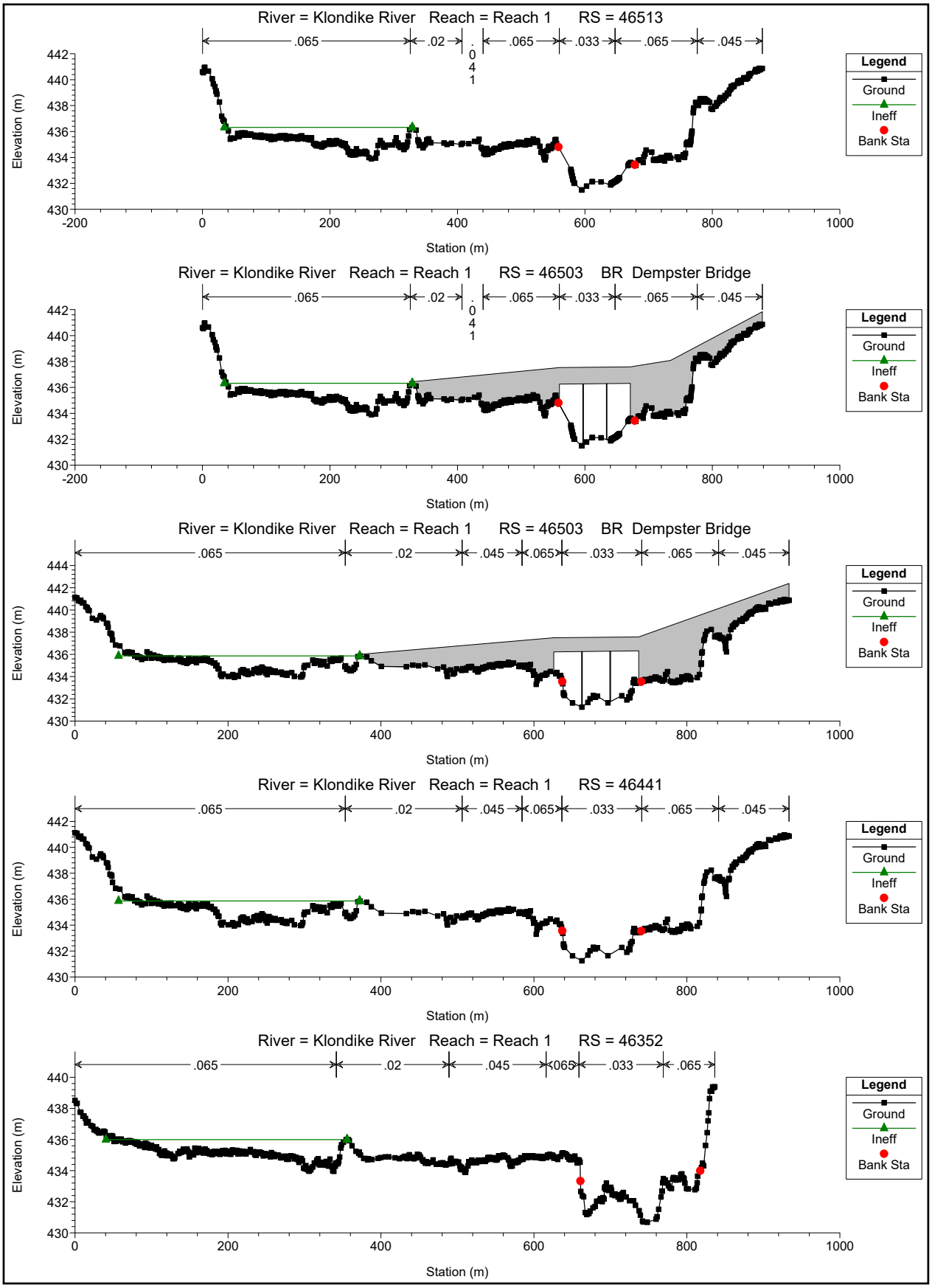

River = Klondike River Reach = Reach 1 RS = 53429
.065
.033
.065
Legend
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)
River = Klondike River Reach = Reach 1 RS = 52840
.065
.065
.033
.065
Legend
Ground
Bank Sta
Elevation (m)
Station (m)
River = Klondike River Reach = Reach 1 RS = 52279
.065
.065
.033
.065
.065
Legend
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)
River = Klondike River Reach = Reach 1 RS = 50899
.065
.033
.065
Legend
Ground
Bank Sta
Elevation (m)
Station (m)
River = Klondike River Reach = Reach 1 RS = 50334
.065
.033
.065
Legend
Ground
Bank Sta
Elevation (m)
Station (m)

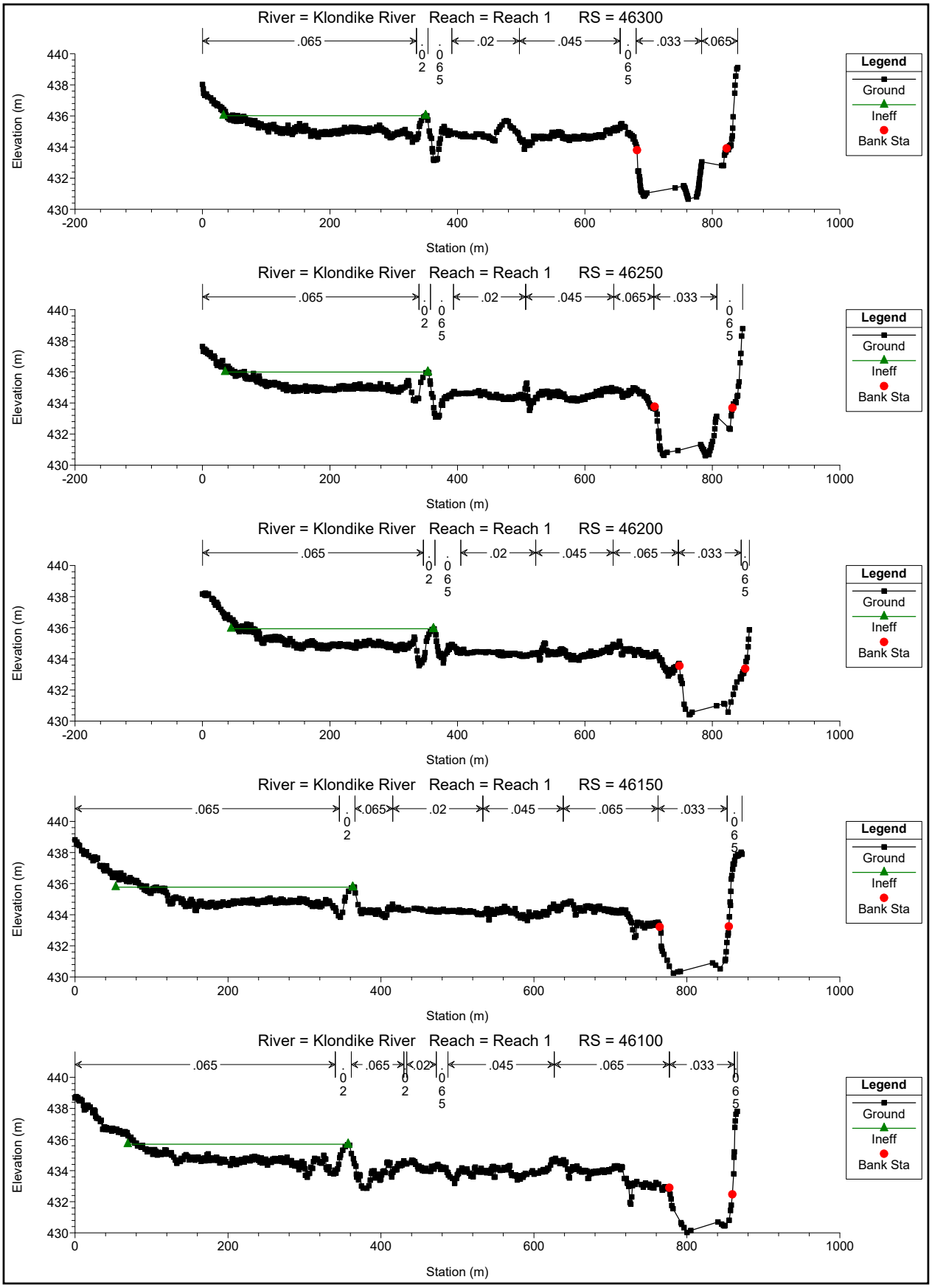

River = Klondike River Reach = Reach 1 RS = 49973
.065
.02
.045
.065
.033
.065
.041
.065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 49383
.045
.02
.045
.065
.033
.065
.041
.065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 49175
.045
.02
.045
.065
.033
.065
.033
.065
.033
.065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 49000
.045
.02
.045
.033
.065
.045
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 48700
.045
.065
.02
.065
.033
.045
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta

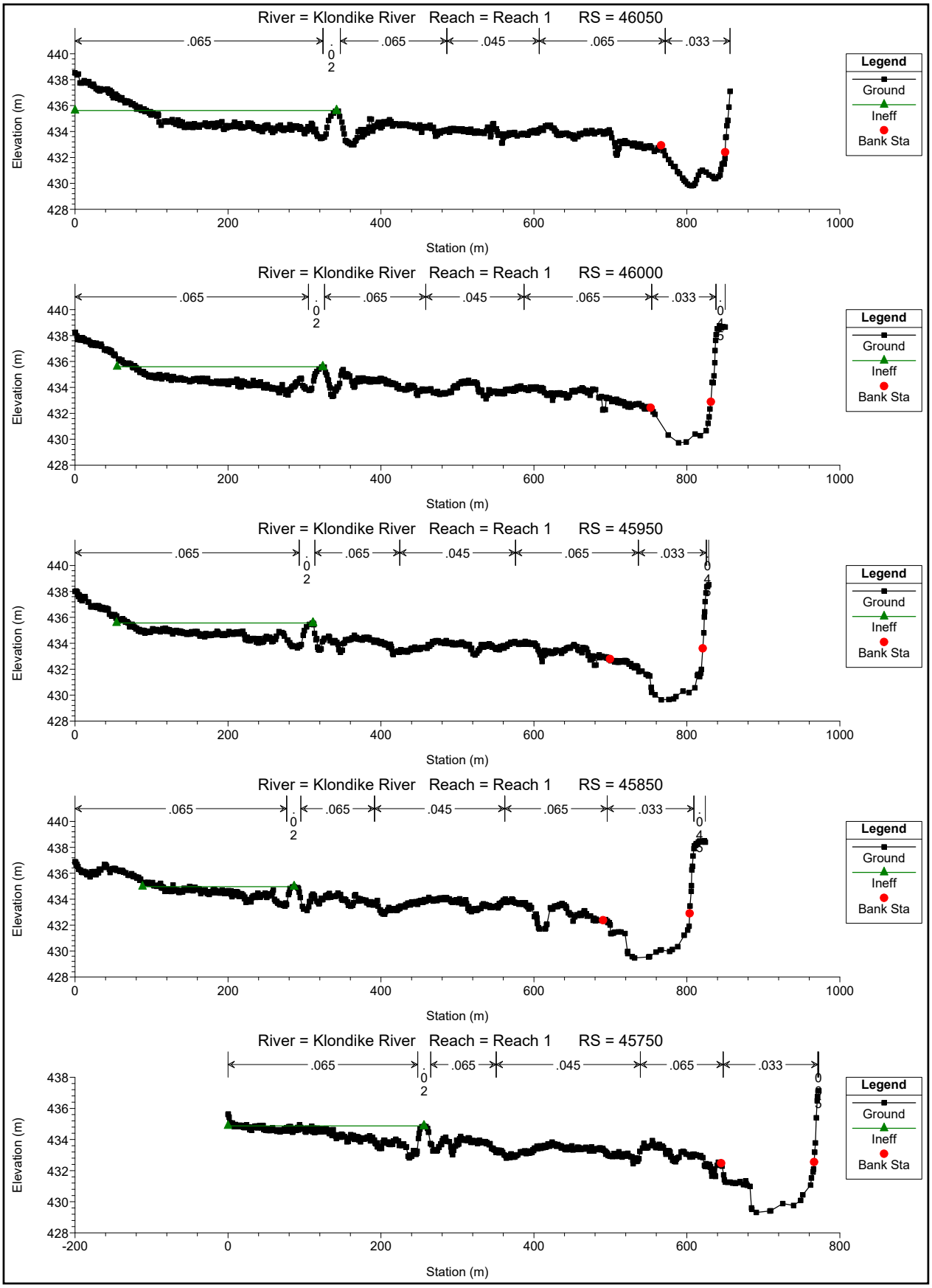

River = Klondike River Reach = Reach 1 RS = 48530
.04
.065
.045
.065
.02
.065
.033
.065
.045
.065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 48400
.065
.02
.065
.033
.065
.045
.06
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 48250
.065
.02
.065
.033
.065
.045
.065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 48100
.06
.02
.033
.065
.045
.065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 48010
.065
.02
.033
.065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta

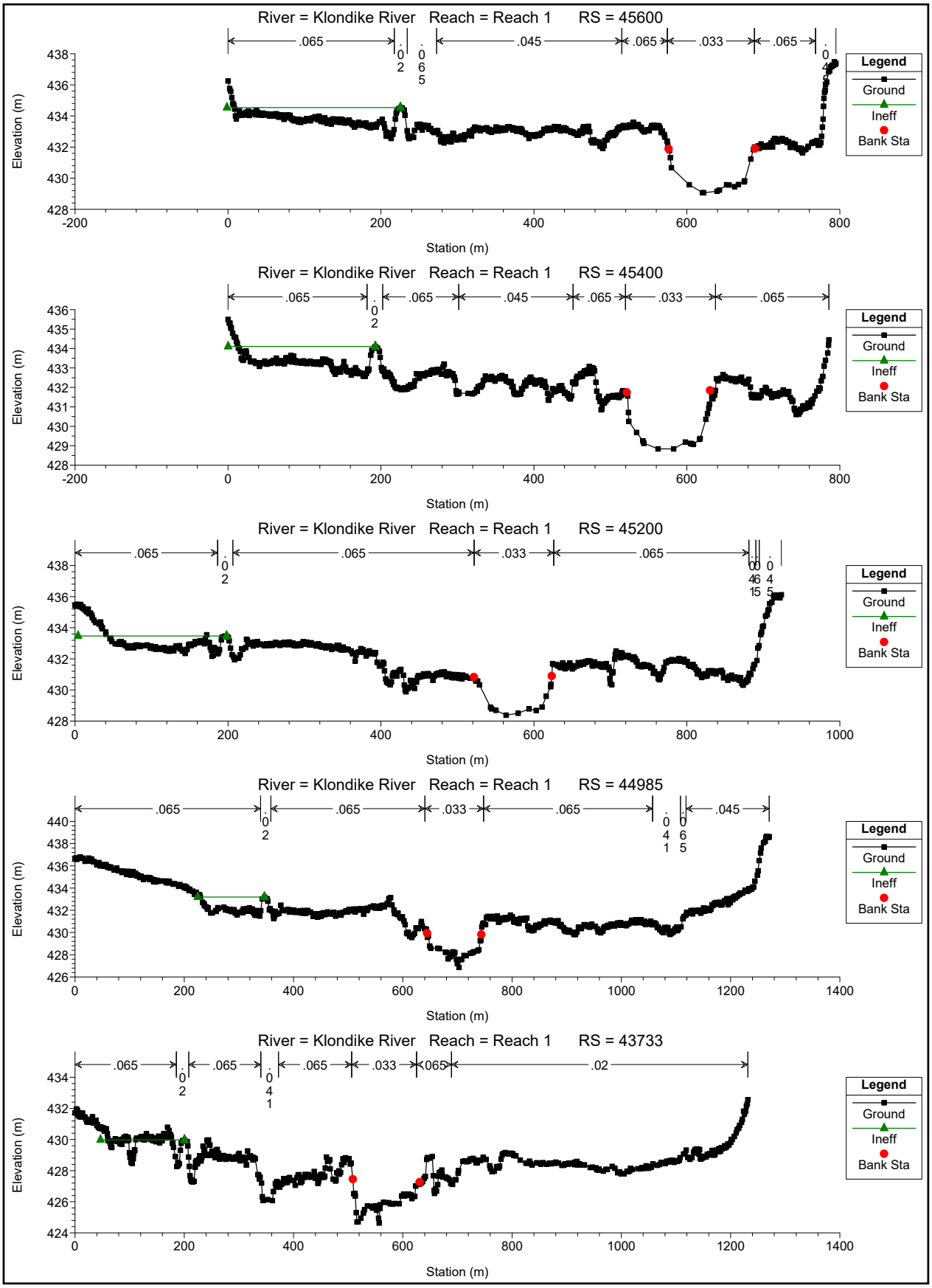

River = Klondike River Reach = Reach 1 RS = 47901
.02
.033
.065
.045
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 47790
.02
.033
.065
.045
Elevation (m)
Station (m)
Legend
Ground
Bank Sta
River = Klondike River Reach = Reach 1 RS = 47700
.02
.033
.065
.045
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 47550
.02
.033
.065
.045
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 47390
.065
.02
.065
.033
.065
.045
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta

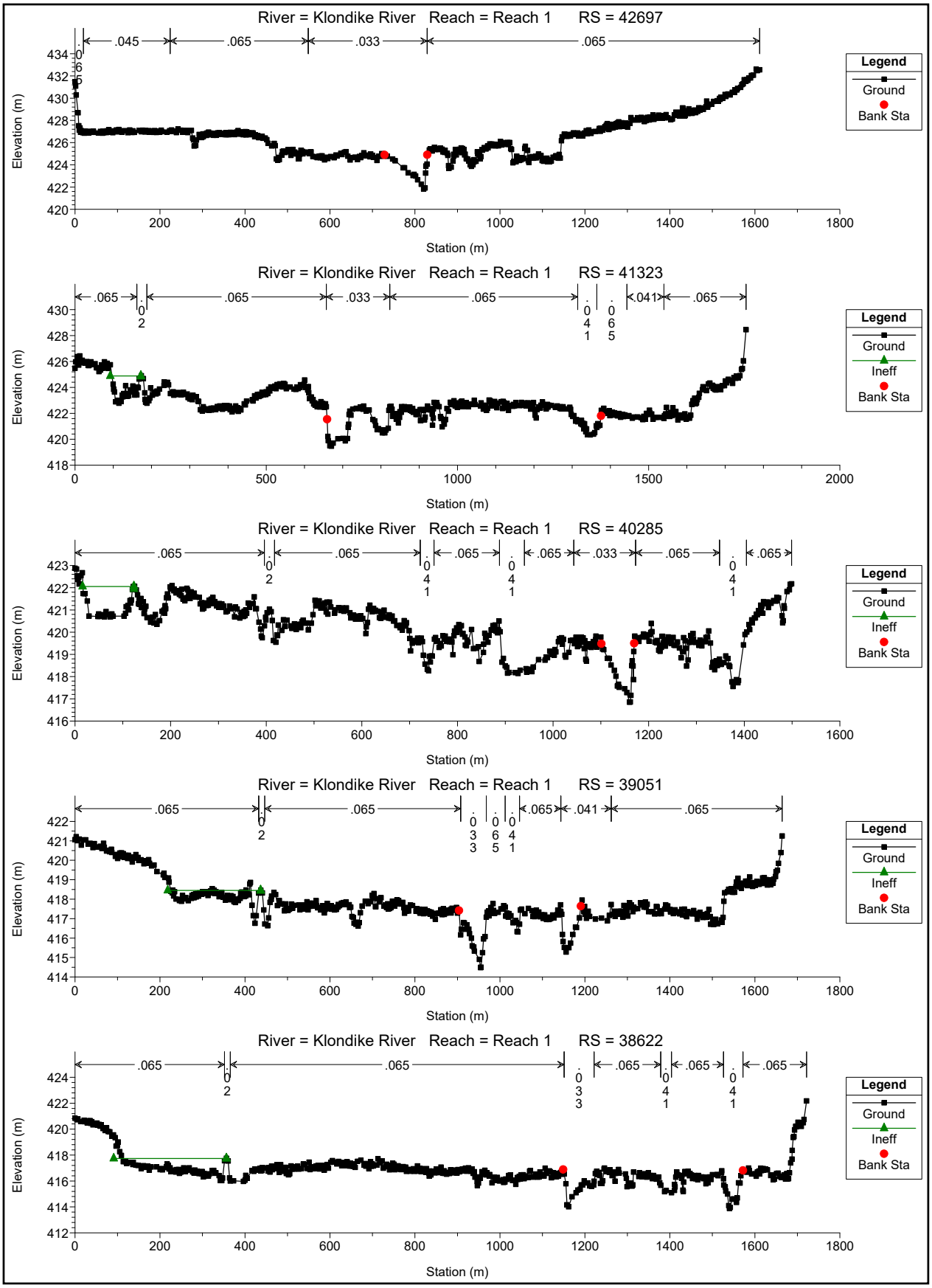

River = Klondike River Reach = Reach 1 RS = 47300
.065
.02
.065
.033
.065
.045
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 47150
.065
.02
.065
.033
.065
.045
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 47000
.065
.02
.065
.033
.065
.045
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 46850
.065
.02
.065
.033
.065
.045
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 46700
.065
.02
.065
.041
.065
.033
.065
.045
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta

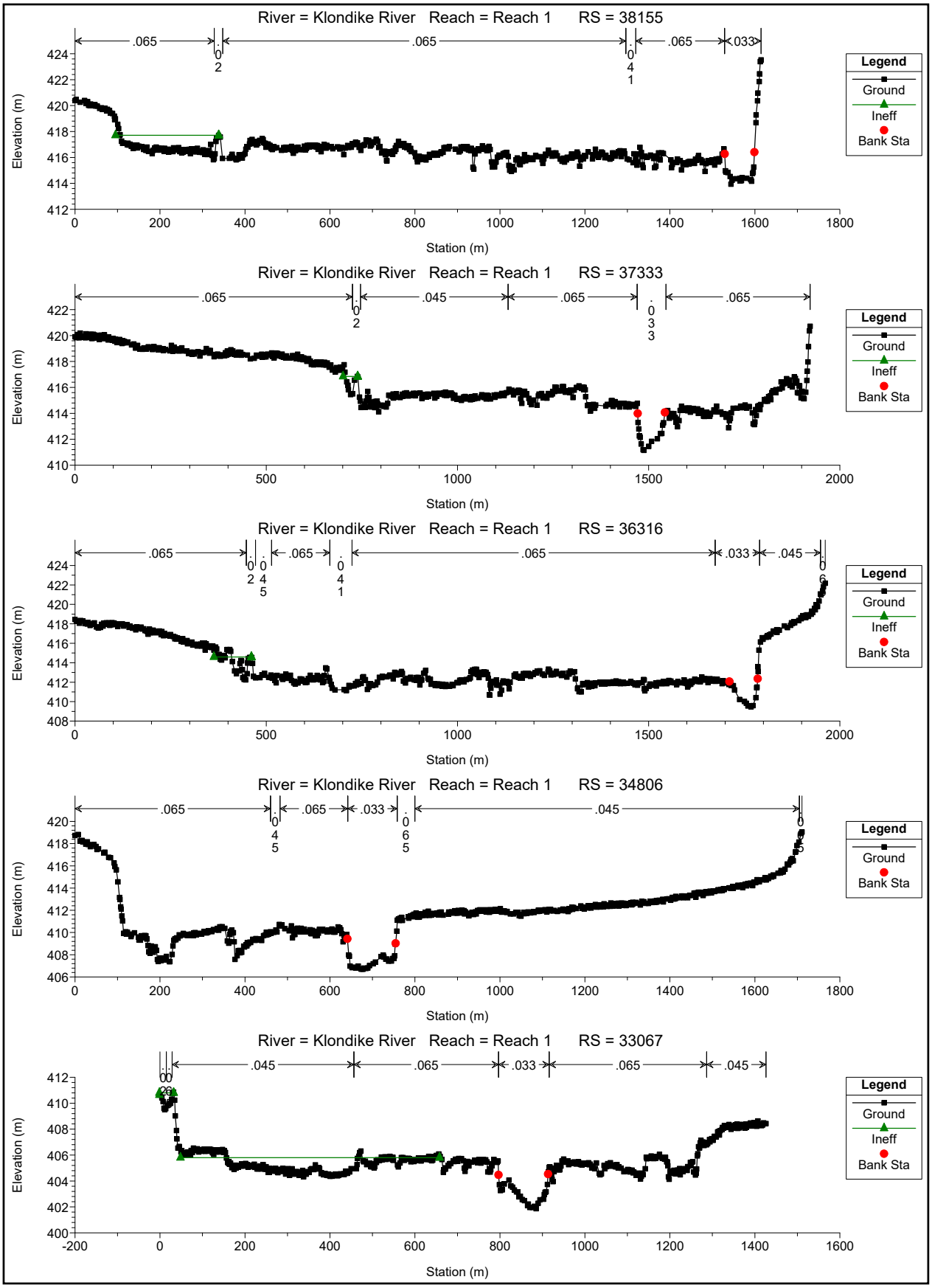

River = Klondike River Reach = Reach 1 RS = 46513
.065
.02
.041
.065
.033
.065
.045
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 46503 BR Dempster Bridge
.065
.02
.041
.065
.033
.065
.045
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 46503 BR Dempster Bridge
.065
.02
.045
.065
.033
.065
.045
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 46441
.065
.02
.045
.065
.033
.065
.045
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 46352
.065
.02
.045
.065
.033
.065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta

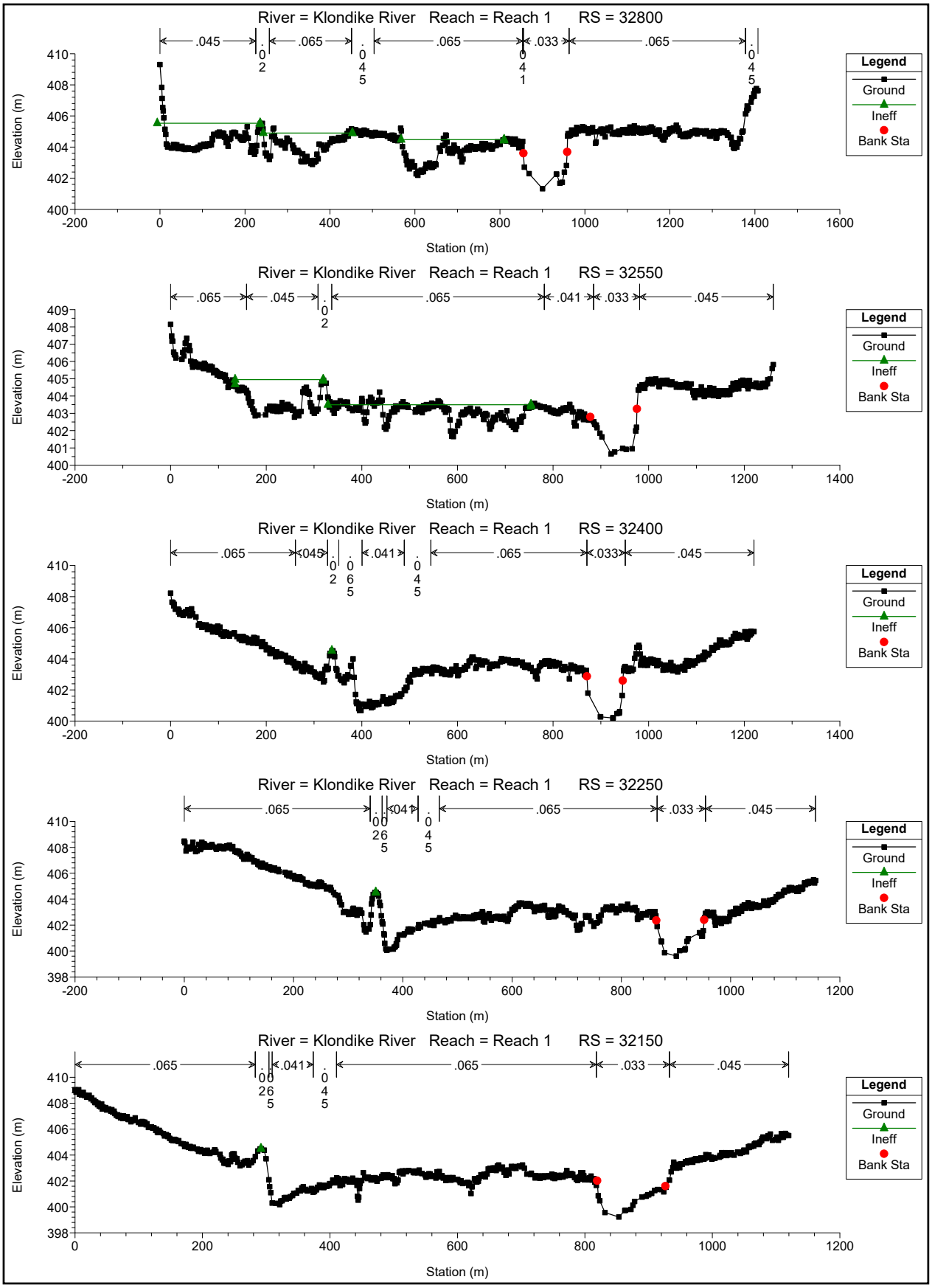

River = Klondike River Reach = Reach 1 RS = 46300
.065
.02
.045
.033
.065
Legend
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)
River = Klondike River Reach = Reach 1 RS = 46250
River = Klondike River Reach = Reach 1 RS = 46200
River = Klondike River Reach = Reach 1 RS = 46150
River = Klondike River Reach = Reach 1 RS = 46100

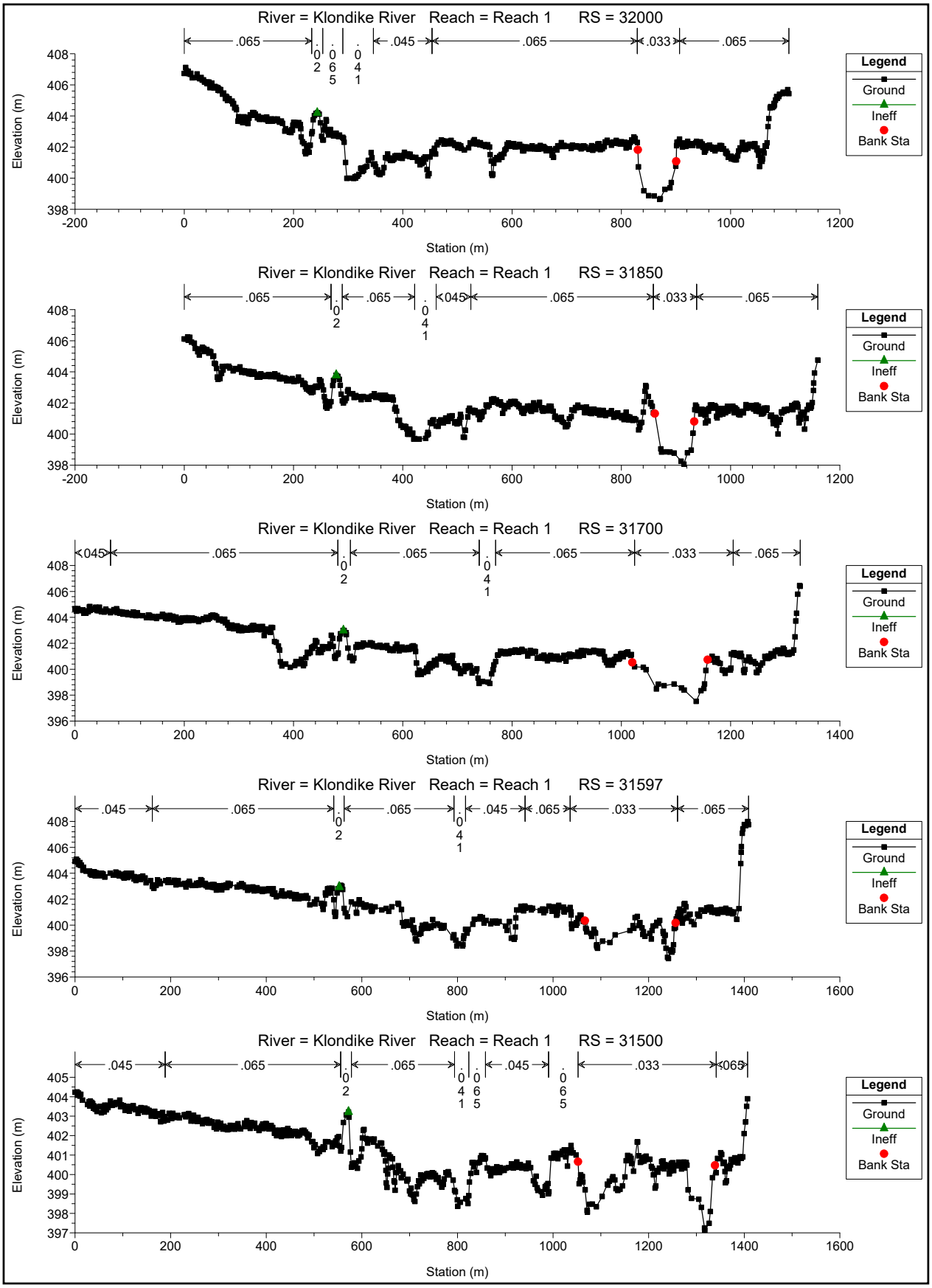

River = Klondike River Reach = Reach 1 RS = 46050
.065
.02
.065
.045
.065
.033
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 46000
.065
.02
.065
.045
.065
.033
.05
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 45950
.065
.02
.065
.045
.065
.033
.04
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 45850
.065
.02
.065
.045
.065
.033
.04
.05
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 45750
.065
.02
.065
.045
.065
.033
.05
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta

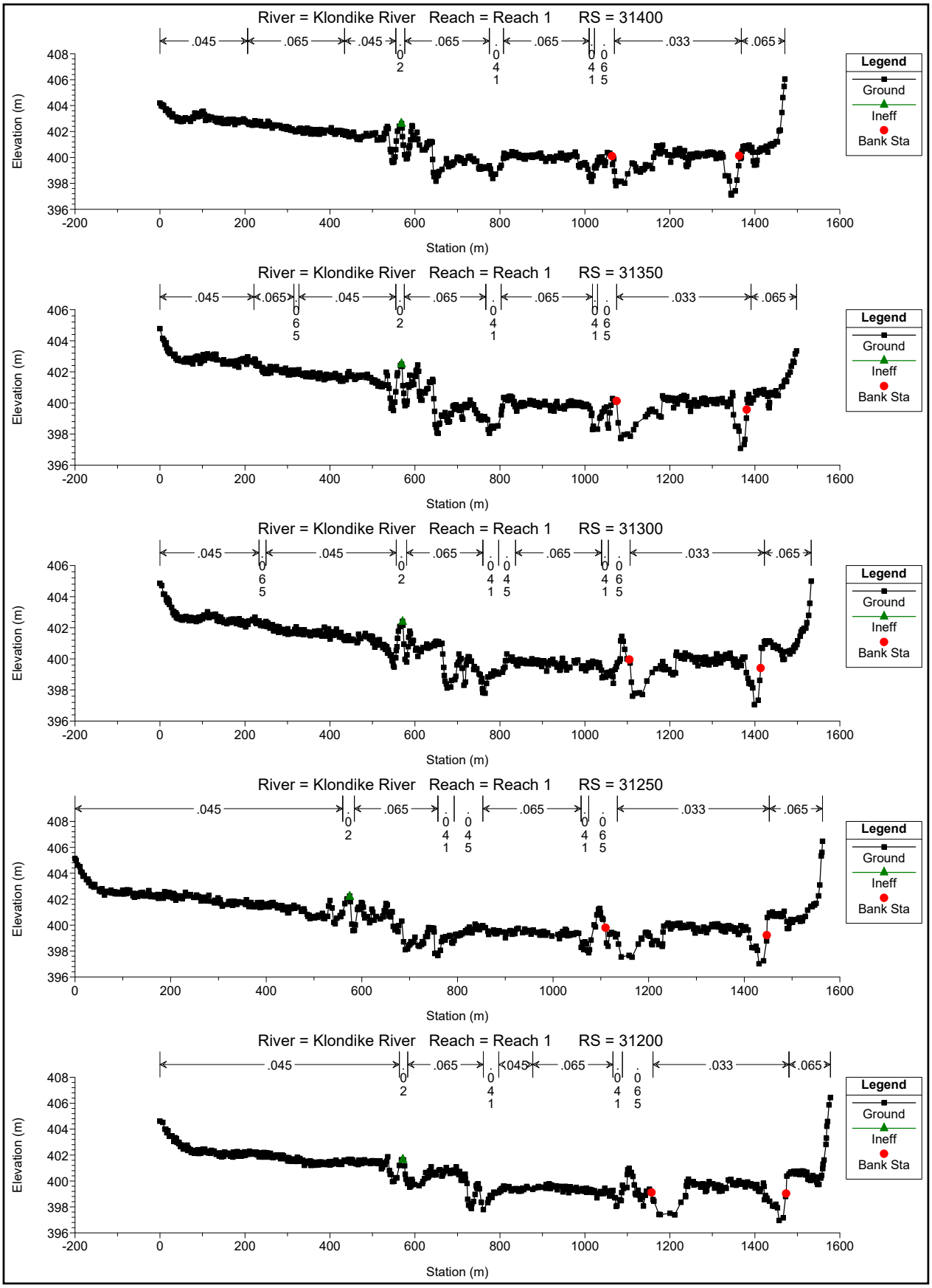

River = Klondike River Reach = Reach 1 RS = 45600
.065
.045
.033
Legend
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)
River = Klondike River Reach = Reach 1 RS = 45400
River = Klondike River Reach = Reach 1 RS = 45200
River = Klondike River Reach = Reach 1 RS = 44985
River = Klondike River Reach = Reach 1 RS = 43733
.02

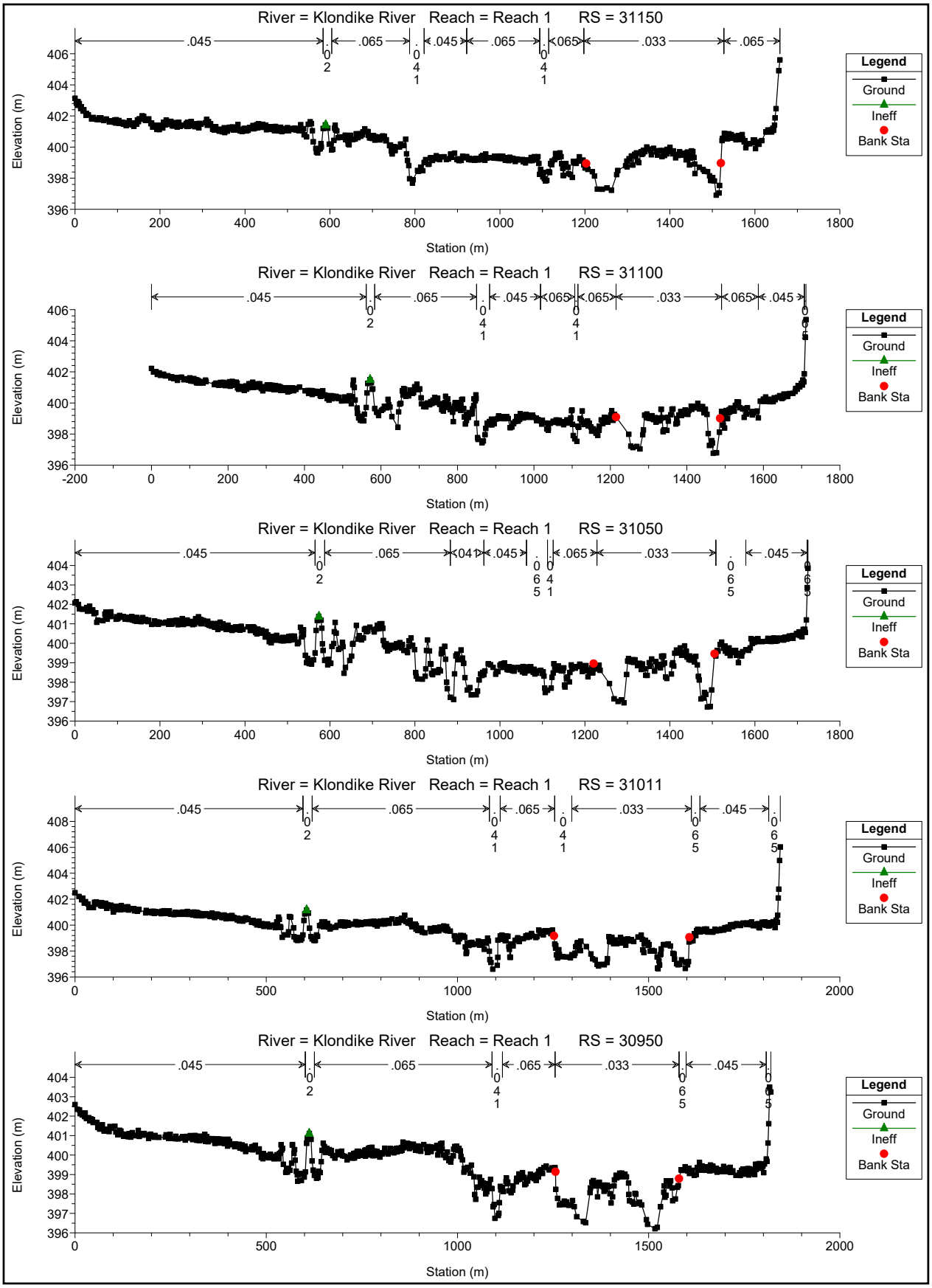

River = Klondike River Reach = Reach 1 RS = 42697
.066
.045
.065
.033
.065
Elevation (m)
Station (m)
Legend
Ground
Bank Sta
River = Klondike River Reach = Reach 1 RS = 41323
.065
.02
.065
.033
.065
.041
.041
.065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 40285
.065
.02
.065
.041
.065
.041
.065
.033
.065
.041
.065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 39051
.065
.02
.065
.033
.065
.041
.065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 38622
.065
.02
.065
.033
.065
.041
.065
.041
.065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta

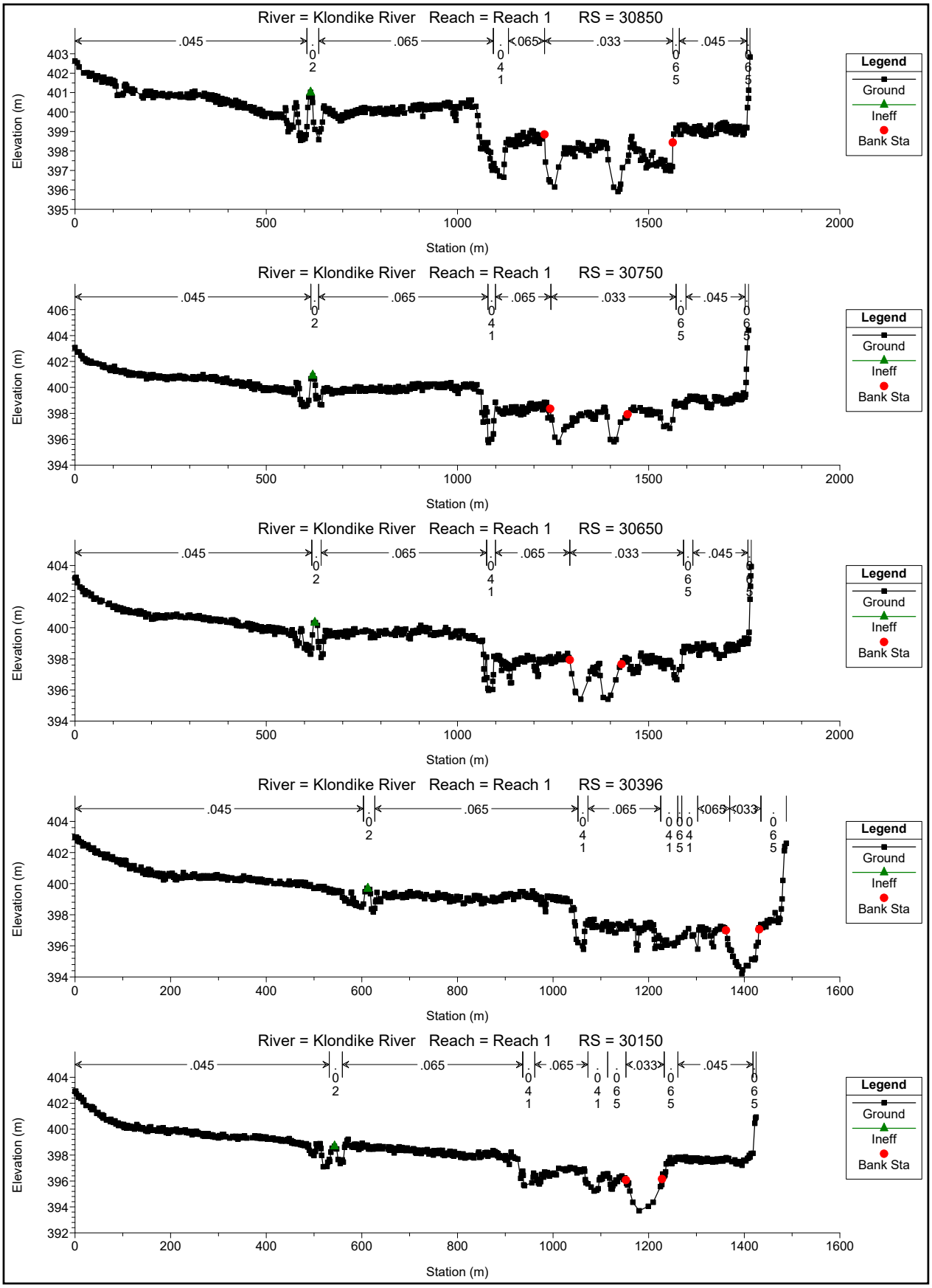

River = Klondike River Reach = Reach 1 RS = 38155
.065
.065
.065
.033
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 37333
.065
.045
.065
.065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 36316
.065
.065
.065
.033
.045
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 34806
.065
.065
.033
.045
Elevation (m)
Station (m)
Legend
Ground
Bank Sta
River = Klondike River Reach = Reach 1 RS = 33067
.045
.065
.033
.065
.045
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta

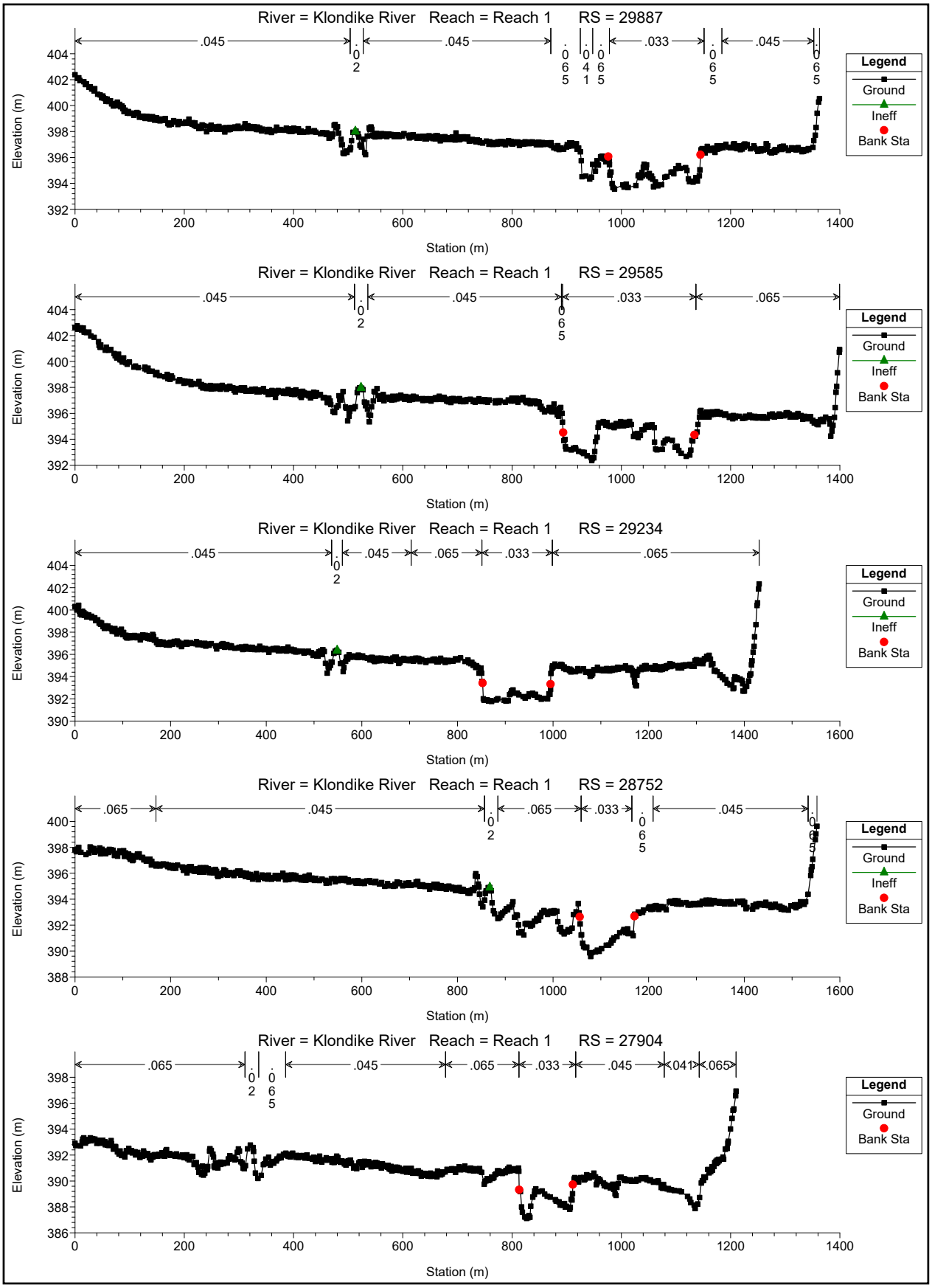

River = Klondike River Reach = Reach 1 RS = 32800
.045
.065
.065
.033
.065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 32550
.065
.045
.065
.041
.033
.045
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 32400
.065
.045
.041
.065
.033
.045
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 32250
.065
.041
.065
.033
.045
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 32150
.065
.041
.065
.033
.045
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta

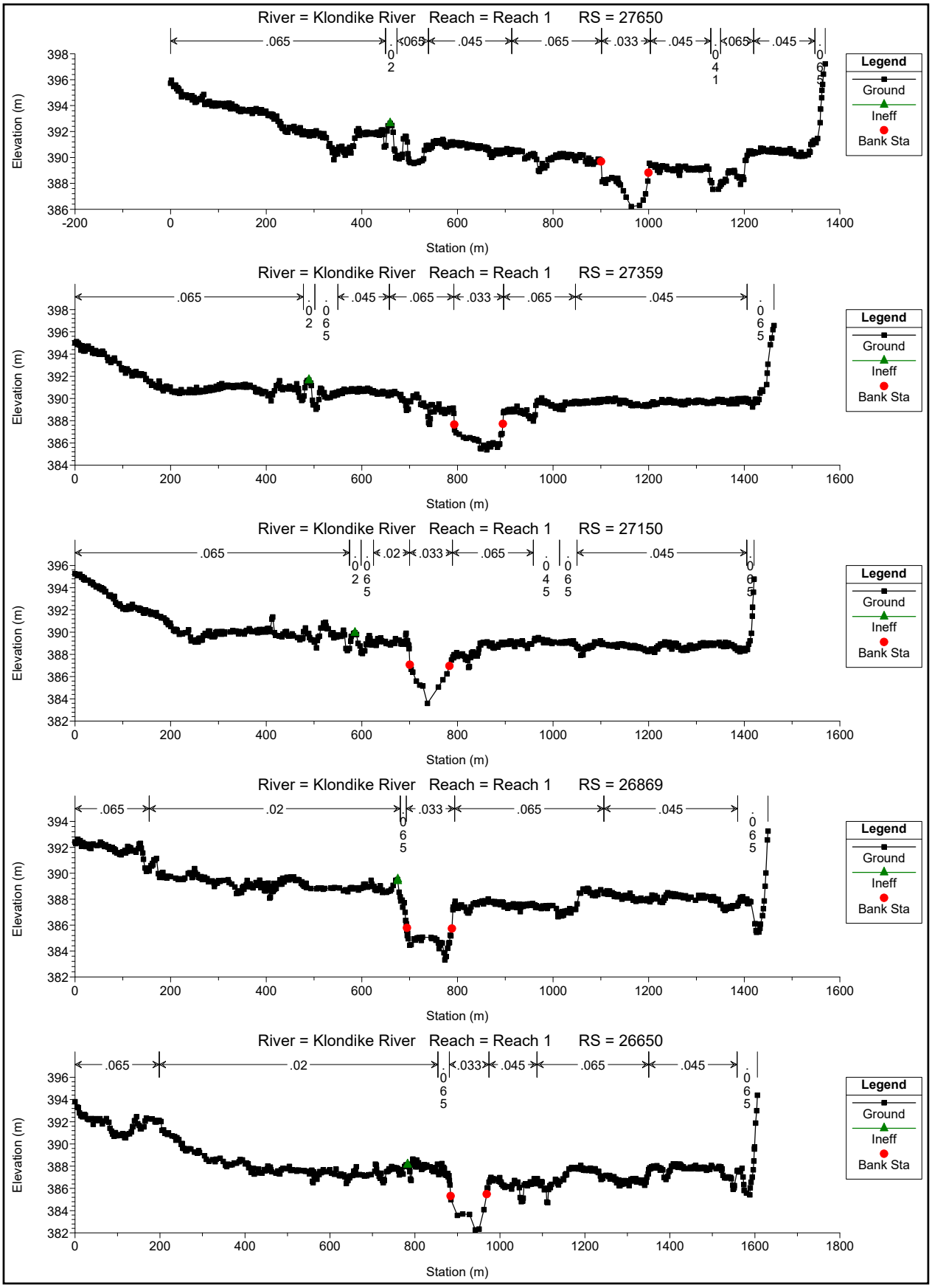

River = Klondike River Reach = Reach 1 RS = 32000
.065 .02 .065 .041 .045 .065 .033 .065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 31850
.065 .02 .065 .041 .045 .065 .033 .065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 31700
.045 .065 .02 .065 .041 .065 .033 .065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 31597
.045 .065 .02 .065 .041 .045 .065 .033 .065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 31500
.045 .065 .02 .065 .041 .065 .045 .065 .033 .065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta


River = Klondike River Reach = Reach 1 RS = 31400
.045 .065 .045 .065 .065 .033 .065
.02 .041 .041 .065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 31350
.045 .065 .045 .065 .065 .033 .065
.065 .02 .041 .041 .065
River = Klondike River Reach = Reach 1 RS = 31300
.045 .045 .065 .065 .033 .065
.065 .02 .041 .045 .041 .065
River = Klondike River Reach = Reach 1 RS = 31250
.045 .065 .065 .033 .065
.02 .041 .045 .041 .065
River = Klondike River Reach = Reach 1 RS = 31200
.045 .065 .045 .065 .033 .065
.02 .041 .041 .065


River = Klondike River Reach = Reach 1 RS = 31150
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 31100
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 31050
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 31011
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 30950
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta


River = Klondike River Reach = Reach 1 RS = 30850
.045
.065
.065
.033
.045
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 30750
River = Klondike River Reach = Reach 1 RS = 30650
River = Klondike River Reach = Reach 1 RS = 30396
River = Klondike River Reach = Reach 1 RS = 30150


River = Klondike River Reach = Reach 1 RS = 29887
.045
.045
.033
.045
.02
.065
.041
.065
.065
Legend
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)
River = Klondike River Reach = Reach 1 RS = 29585
.045
.045
.033
.065
.02
.065
Legend
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)
River = Klondike River Reach = Reach 1 RS = 29234
.045
.045
.065
.033
.065
.02
Legend
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)
River = Klondike River Reach = Reach 1 RS = 28752
.065
.045
.065
.033
.045
.02
.065
.065
Legend
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)
River = Klondike River Reach = Reach 1 RS = 27904
.065
.045
.065
.033
.045
.041
.065
.02
.065
Legend
Ground
Bank Sta
Elevation (m)
Station (m)


River = Klondike River Reach = Reach 1 RS = 27650
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Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 27359
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.02
.065
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.065
.033
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.045
.065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 27150
.065
.02
.065
.02
.033
.065
.045
.065
.045
.065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 26869
.065
.02
.065
.033
.065
.045
.065
.065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 26650
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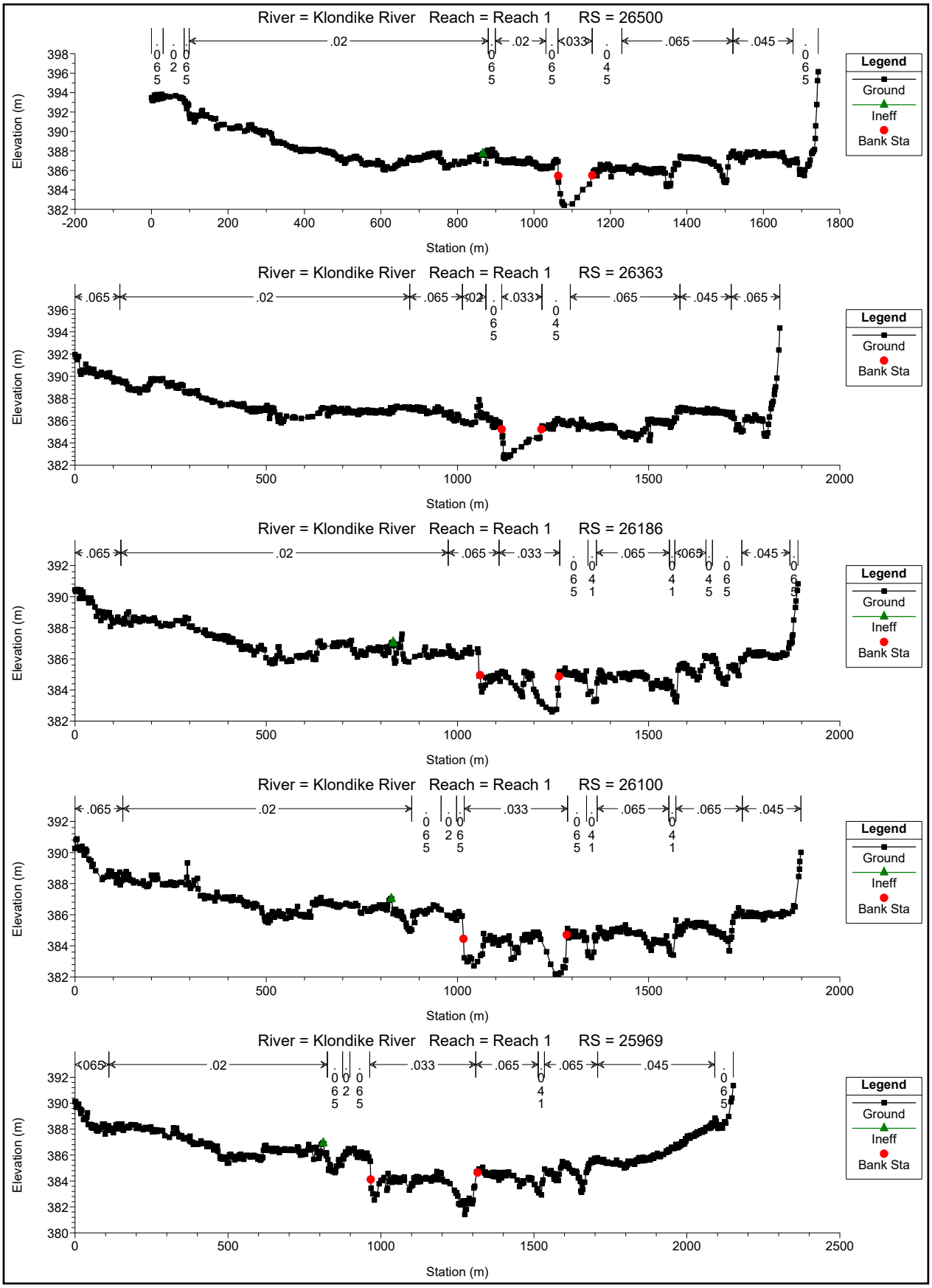
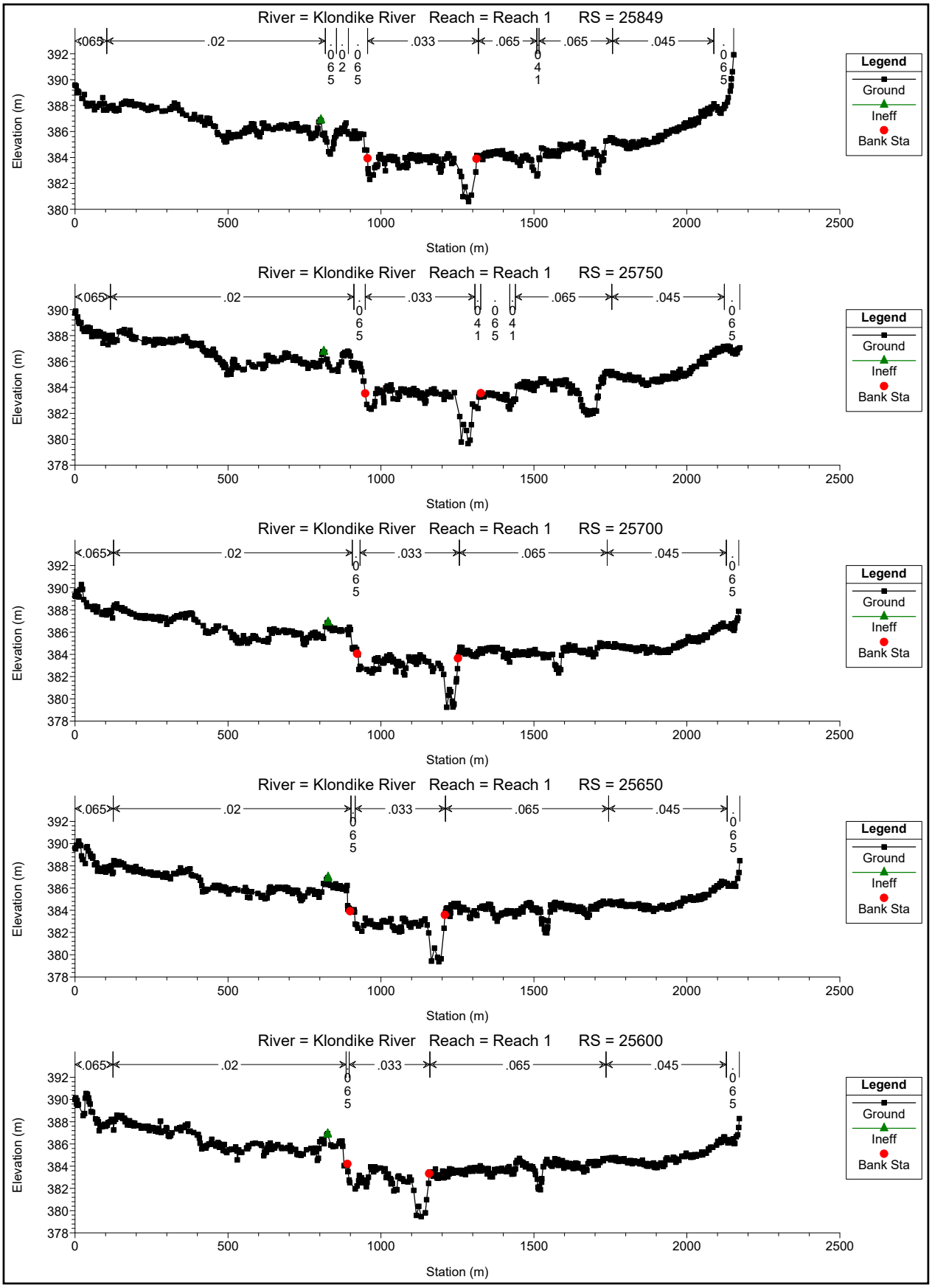
.045
.065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta


River = Klondike River Reach = Reach 1 RS = 26500
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 26363
Elevation (m)
Station (m)
Legend
Ground
Bank Sta
River = Klondike River Reach = Reach 1 RS = 26186
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 26100
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 25969
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta


River = Klondike River Reach = Reach 1 RS = 25849
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.02
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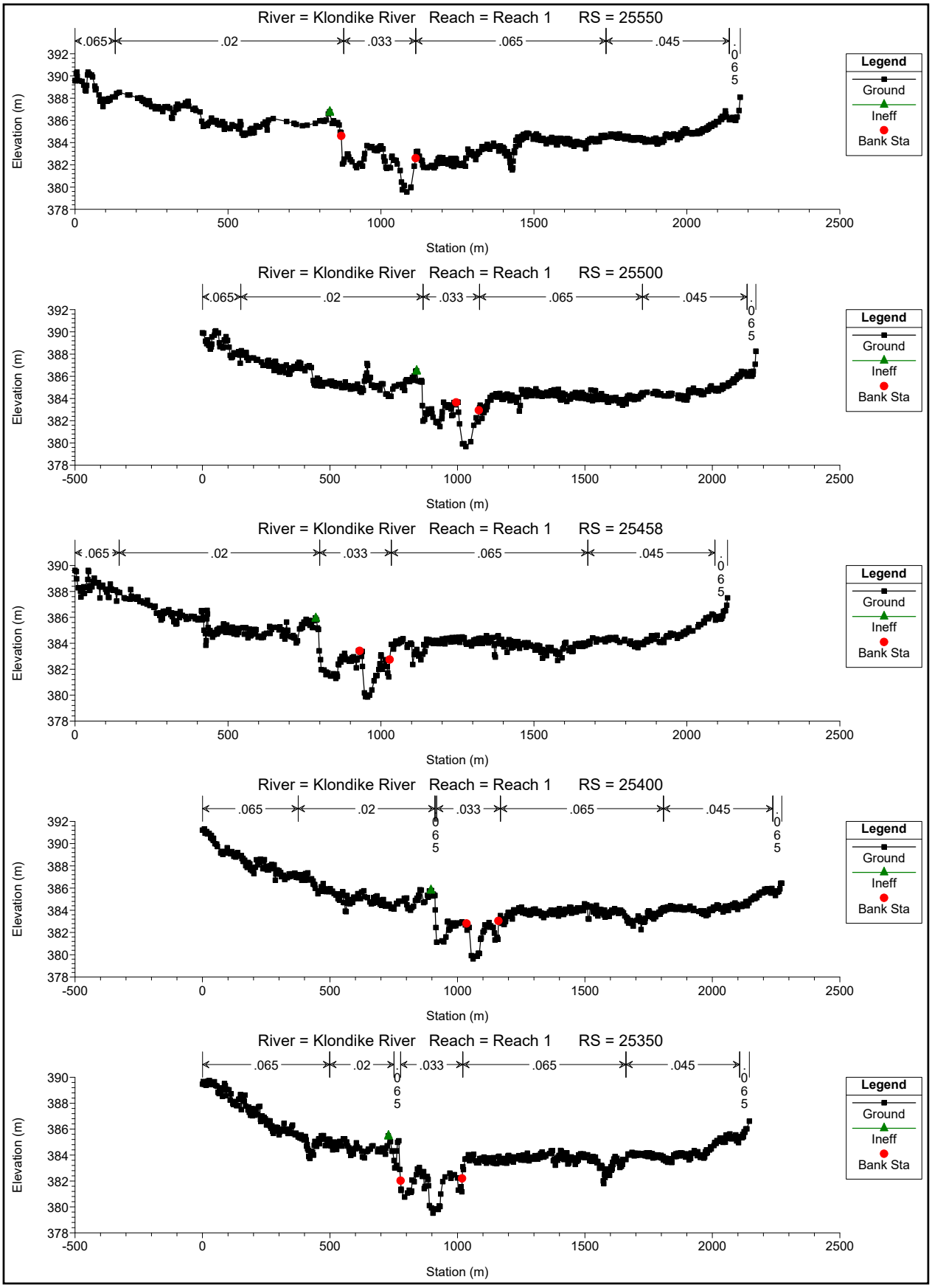
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 25750
River = Klondike River Reach = Reach 1 RS = 25700
River = Klondike River Reach = Reach 1 RS = 25650
River = Klondike River Reach = Reach 1 RS = 25600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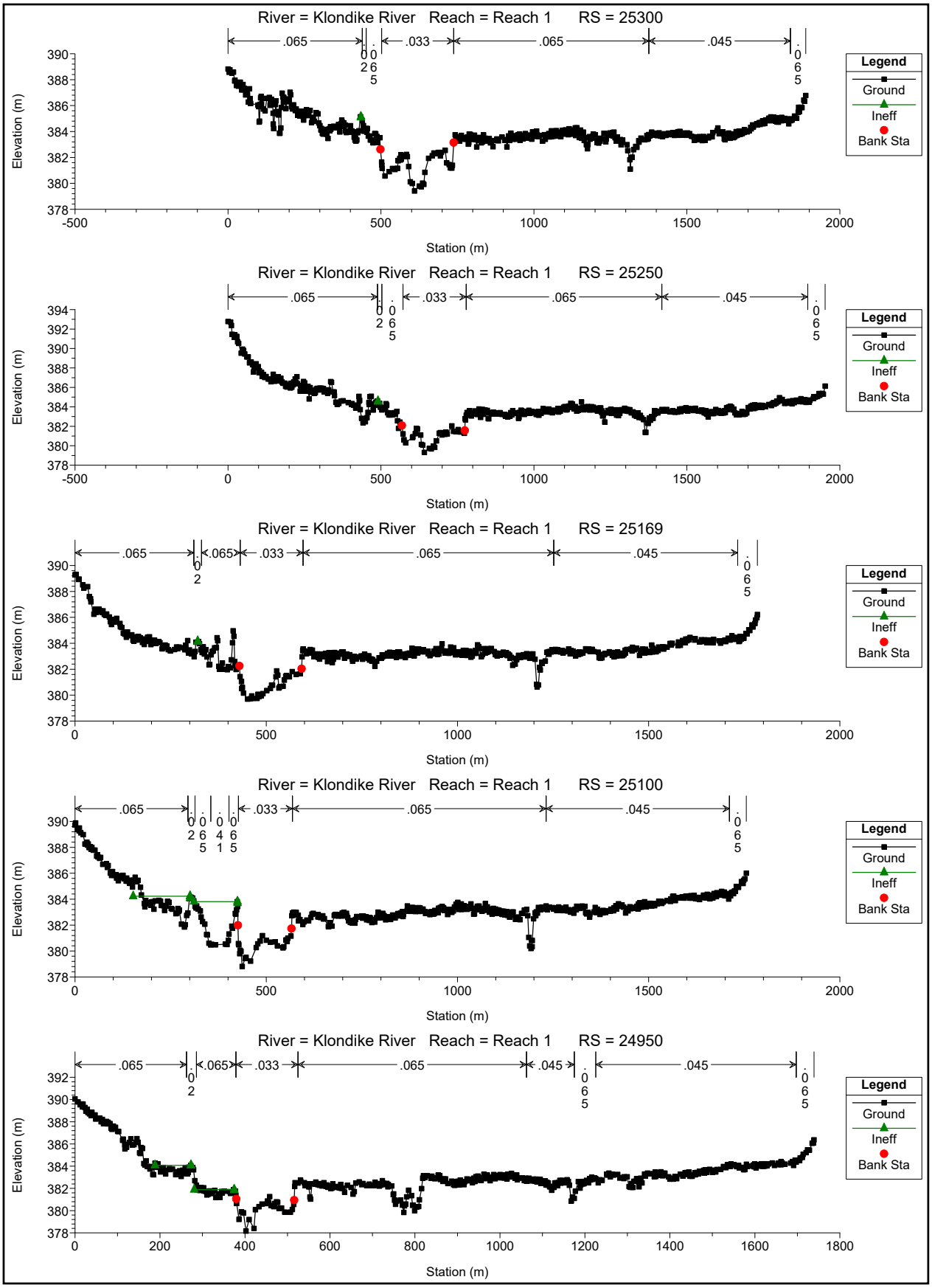
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 25500
River = Klondike River Reach = Reach 1 RS = 25458
River = Klondike River Reach = Reach 1 RS = 25400
River = Klondike River Reach = Reach 1 RS = 25350


River = Klondike River Reach = Reach 1 RS = 25300
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.033
.065
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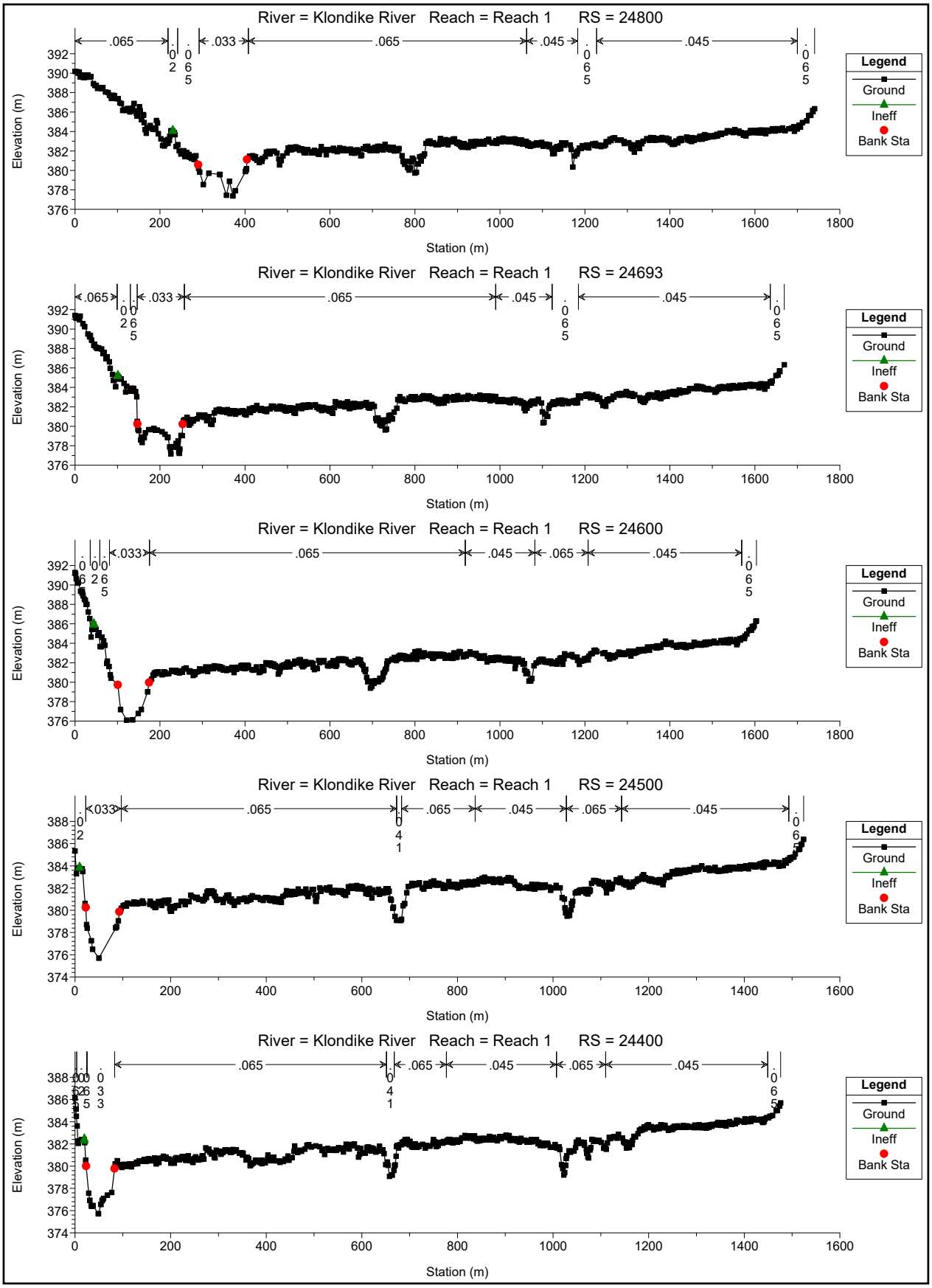
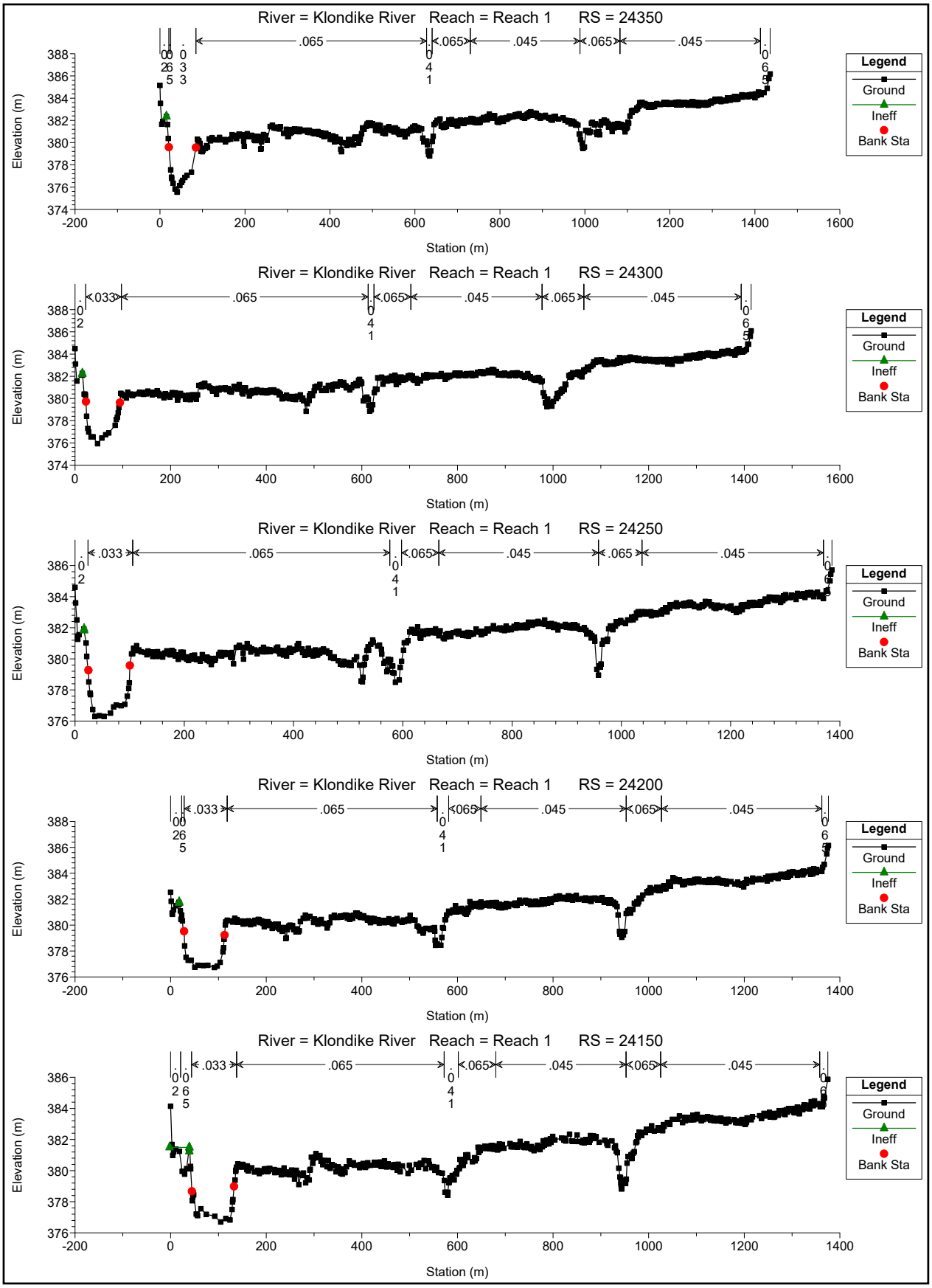
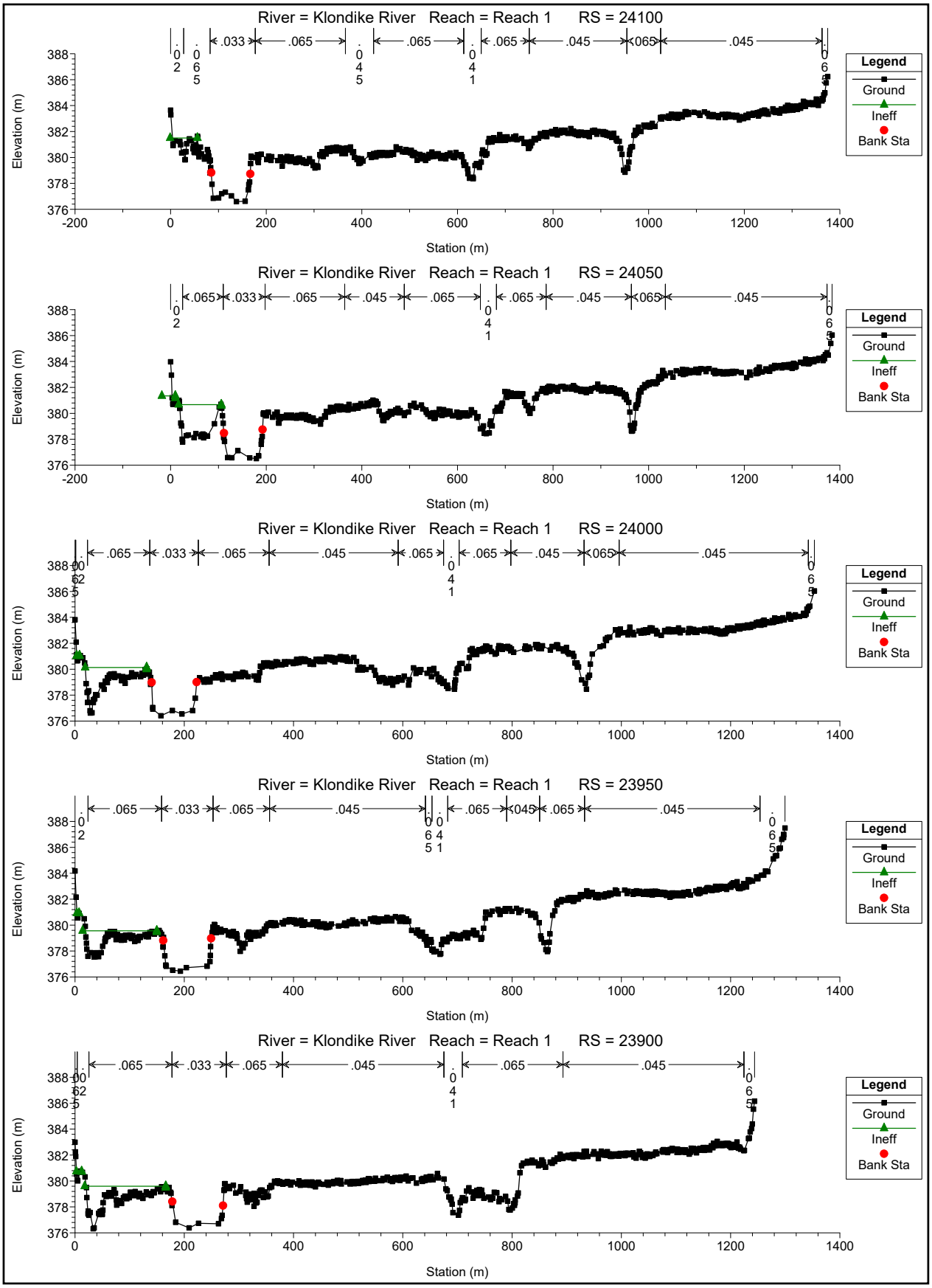
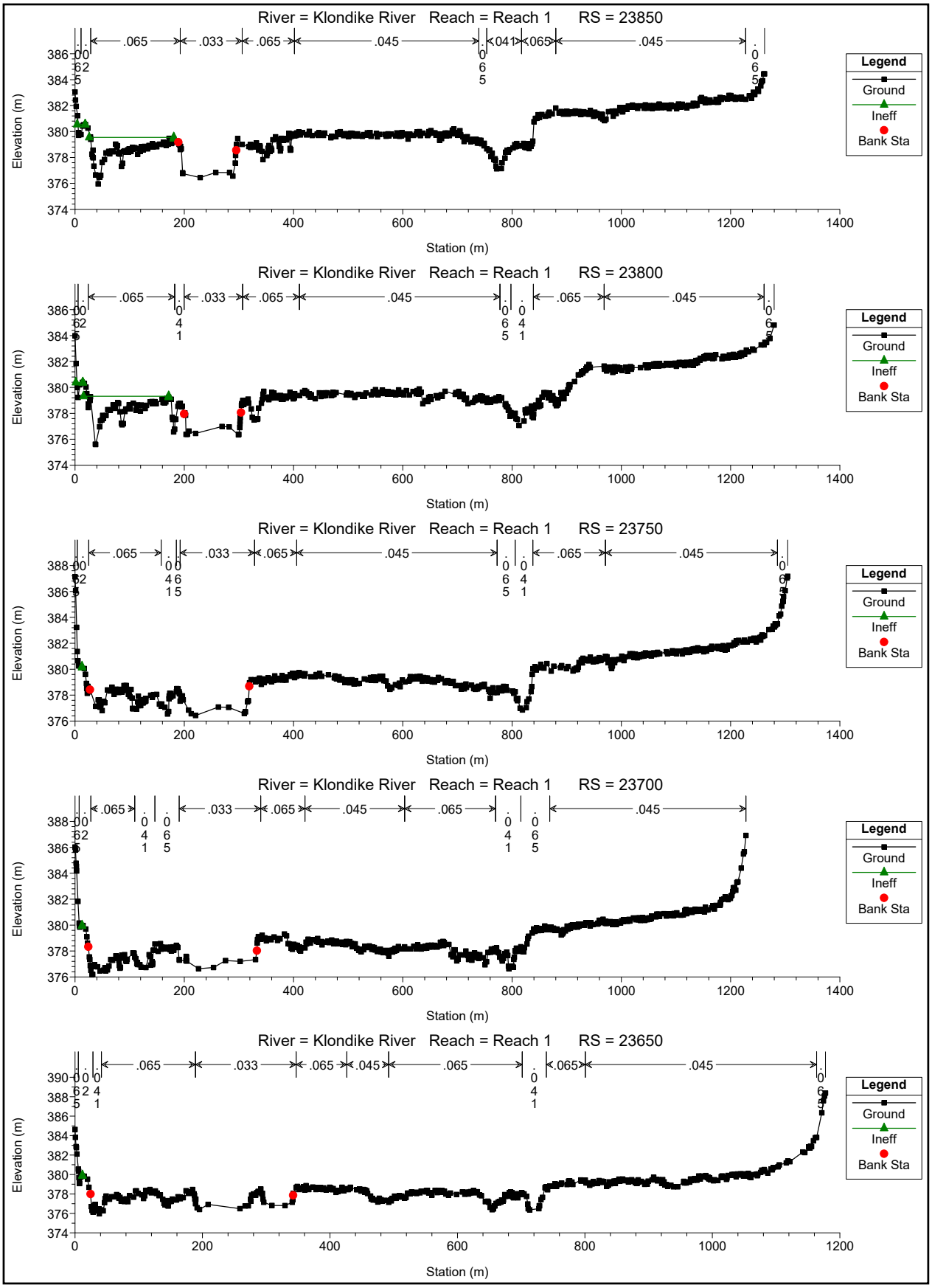
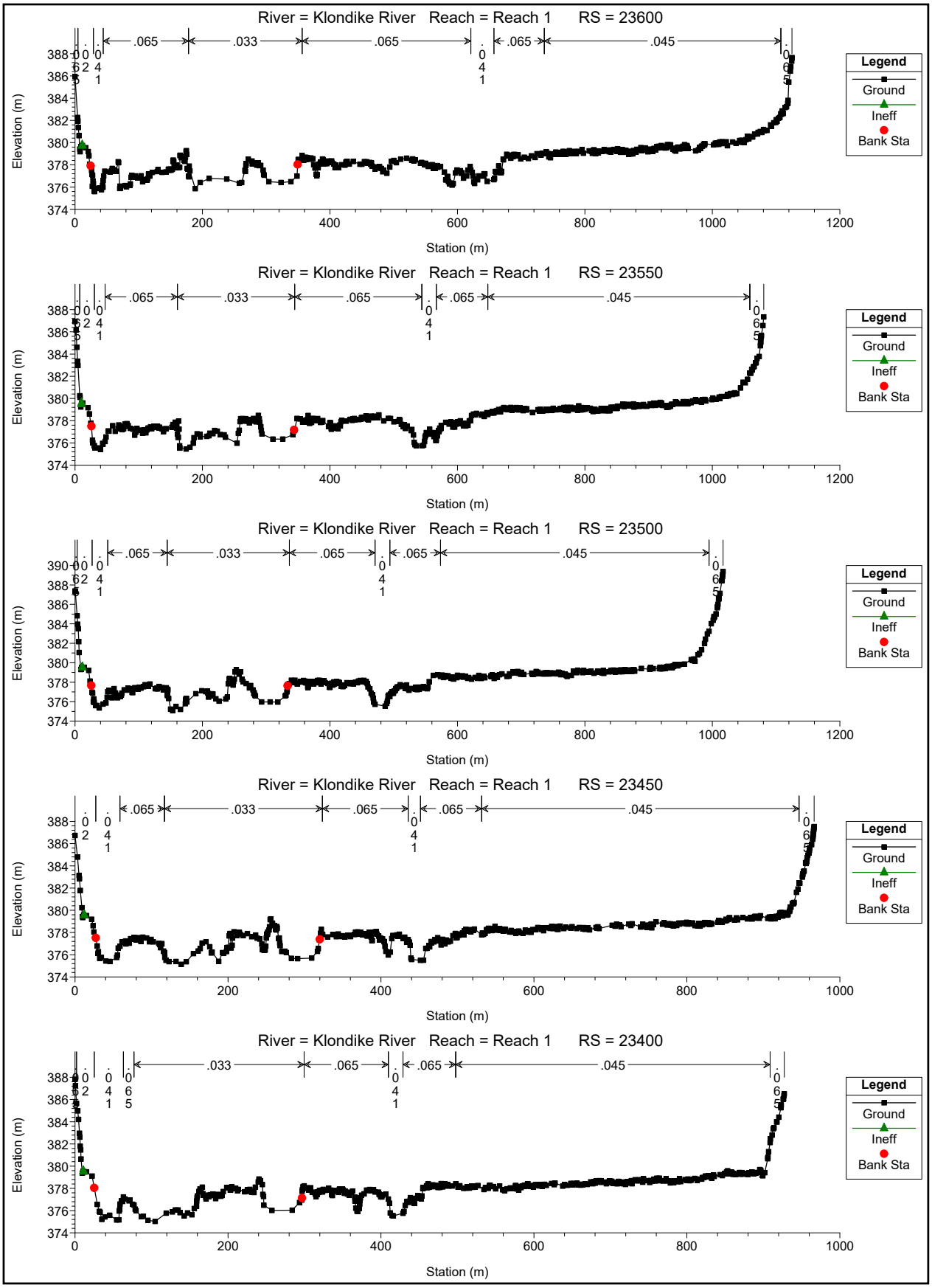
Legend
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)
River = Klondike River Reach = Reach 1 RS = 25250
River = Klondike River Reach = Reach 1 RS = 25169
River = Klondike River Reach = Reach 1 RS = 25100
River = Klondike River Reach = Reach 1 RS = 24950


River = Klondike River Reach = Reach 1 RS = 24800
River = Klondike River Reach = Reach 1 RS = 24693
River = Klondike River Reach = Reach 1 RS = 24600
River = Klondike River Reach = Reach 1 RS = 24500
River = Klondike River Reach = Reach 1 RS = 24400
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta


River = Klondike River Reach = Reach 1 RS = 24350
River = Klondike River Reach = Reach 1 RS = 24300
River = Klondike River Reach = Reach 1 RS = 24250
River = Klondike River Reach = Reach 1 RS = 24200
River = Klondike River Reach = Reach 1 RS = 24150
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
.033
.065
.045


River = Klondike River Reach = Reach 1 RS = 24100
River = Klondike River Reach = Reach 1 RS = 24050
River = Klondike River Reach = Reach 1 RS = 24000
River = Klondike River Reach = Reach 1 RS = 23950
River = Klondike River Reach = Reach 1 RS = 23900
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta


River = Klondike River Reach = Reach 1 RS = 23850
River = Klondike River Reach = Reach 1 RS = 23800
River = Klondike River Reach = Reach 1 RS = 23750
River = Klondike River Reach = Reach 1 RS = 23700
River = Klondike River Reach = Reach 1 RS = 23650
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta


River = Klondike River Reach = Reach 1 RS = 23600
.065
.033
.065
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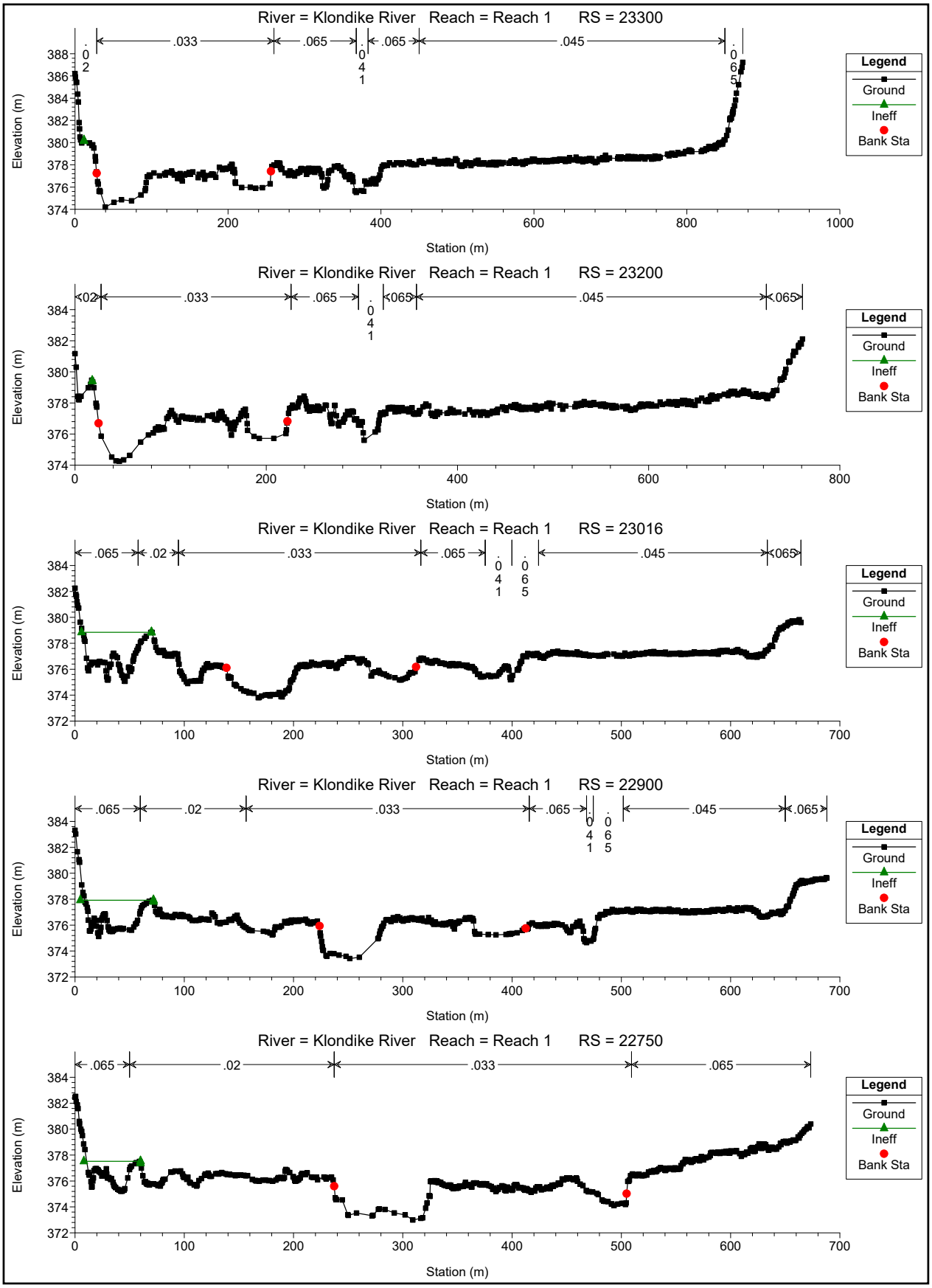
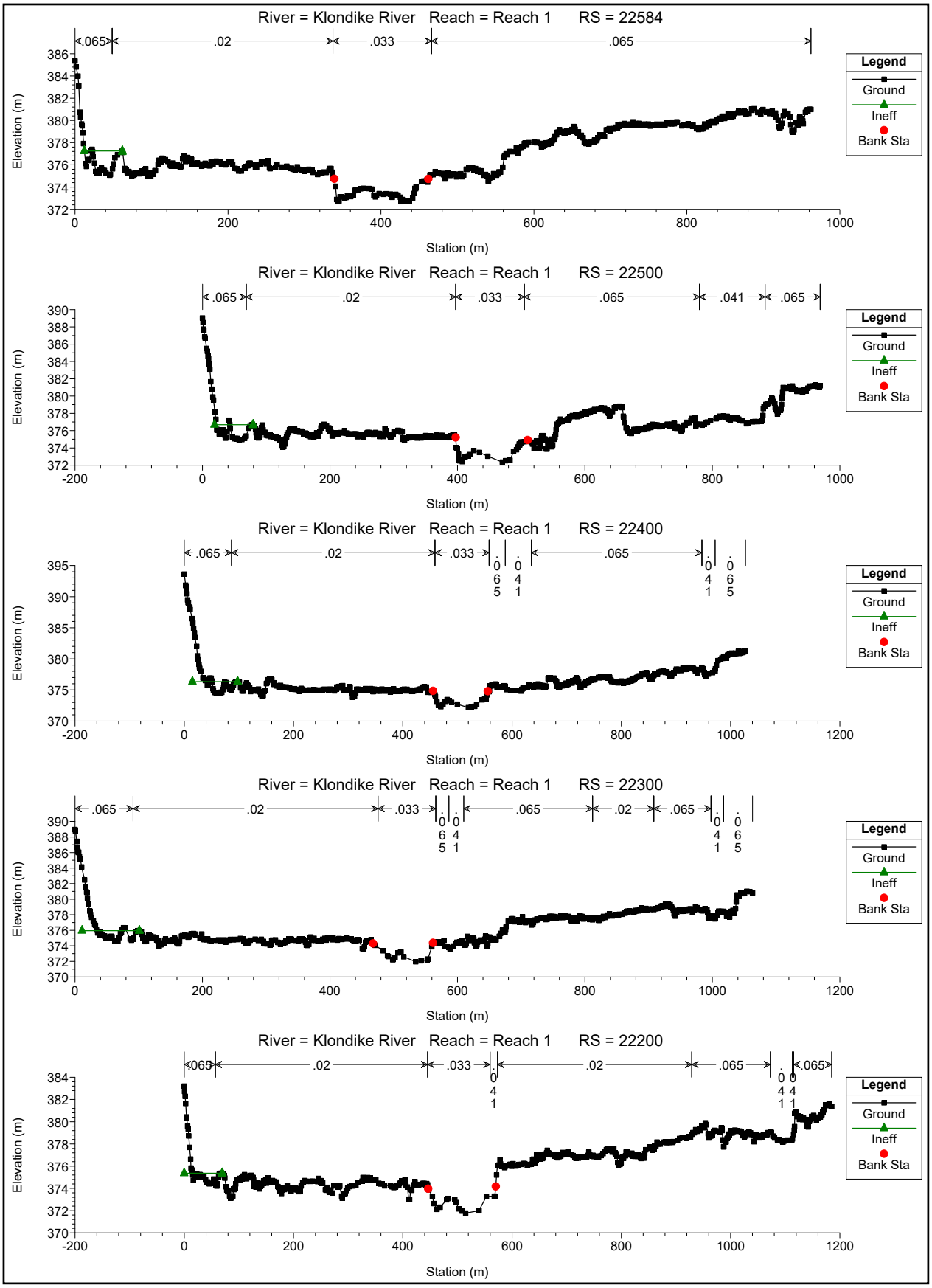
.045
Legend
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)
River = Klondike River Reach = Reach 1 RS = 23550
River = Klondike River Reach = Reach 1 RS = 23500
River = Klondike River Reach = Reach 1 RS = 23450
River = Klondike River Reach = Reach 1 RS = 23400


River = Klondike River Reach = Reach 1 RS = 23300
.02
.033
.065
.041
.065
.045
.065
Legend
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)
River = Klondike River Reach = Reach 1 RS = 23200
.02
.033
.065
.041
.065
.045
.065
Legend
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)
River = Klondike River Reach = Reach 1 RS = 23016
.065
.02
.033
.065
.041
.065
.045
.065
Legend
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)
River = Klondike River Reach = Reach 1 RS = 22900
.065
.02
.033
.065
.041
.065
.045
.065
Legend
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)
River = Klondike River Reach = Reach 1 RS = 22750
.065
.02
.033
.065
Legend
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)


River = Klondike River Reach = Reach 1 RS = 22584
.065
.02
.033
.065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 22500
.065
.02
.033
.065
.041
.065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 22400
.065
.02
.033
.065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 22300
.065
.02
.033
.065
.02
.065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 22200
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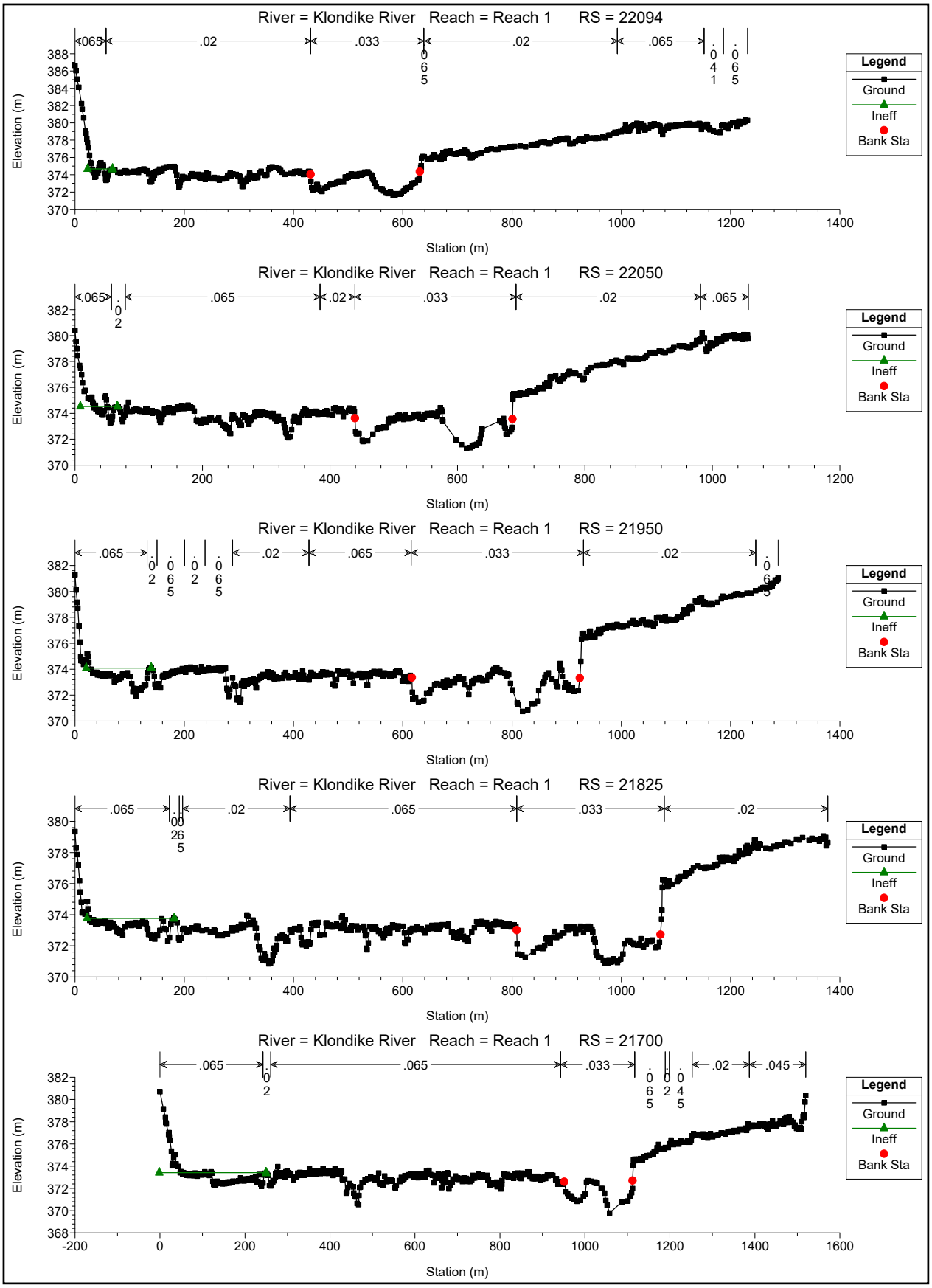
.02
.065
.065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta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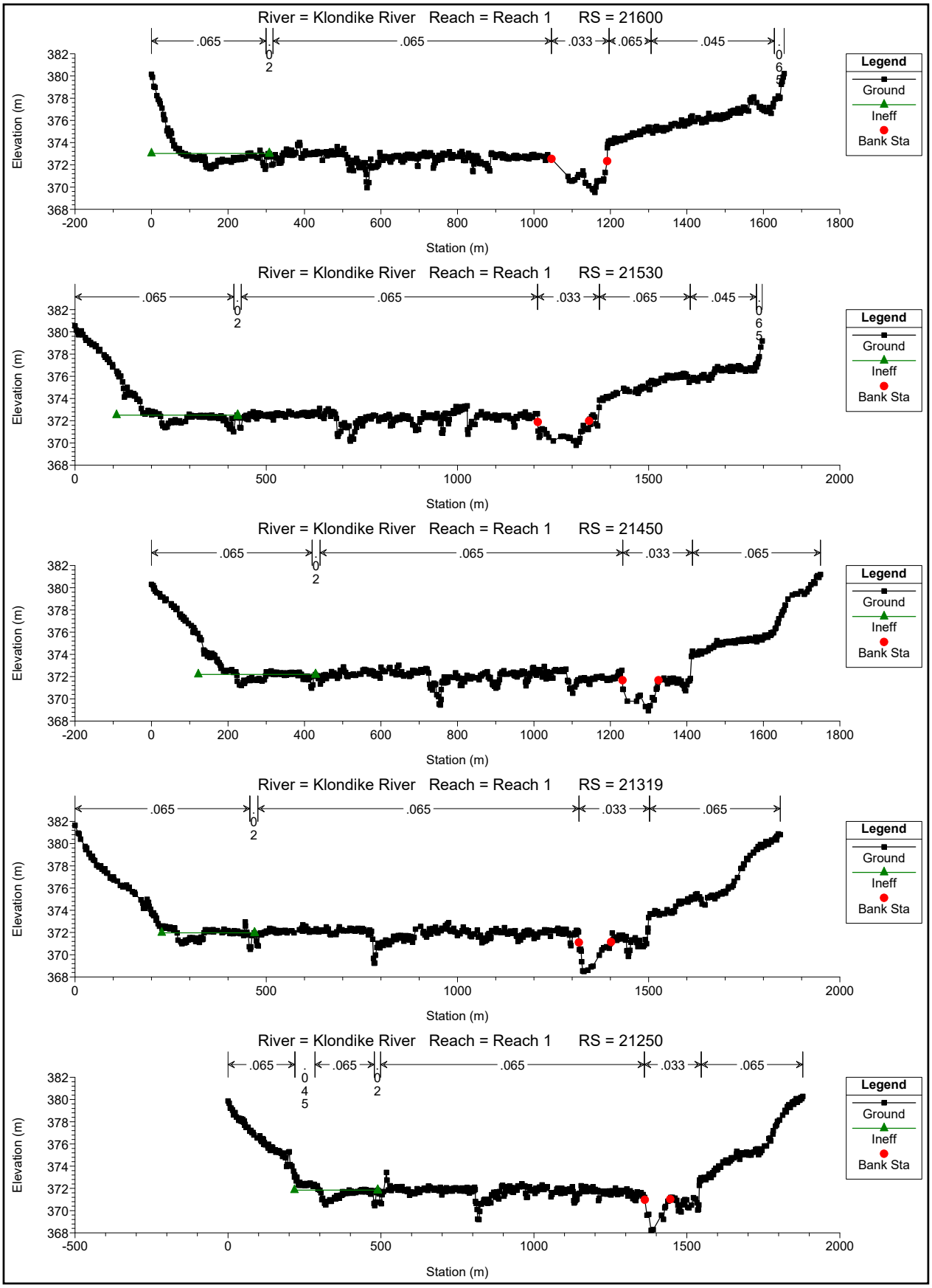
River = Klondike River Reach = Reach 1 RS = 22050
River = Klondike River Reach = Reach 1 RS = 21950
River = Klondike River Reach = Reach 1 RS = 21825
River = Klondike River Reach = Reach 1 RS = 21700
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta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.065
.033
.065
.045
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 21530
.065
.065
.033
.065
.045
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 21450
.065
.065
.033
.065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 21319
.065
.065
.033
.065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 21250
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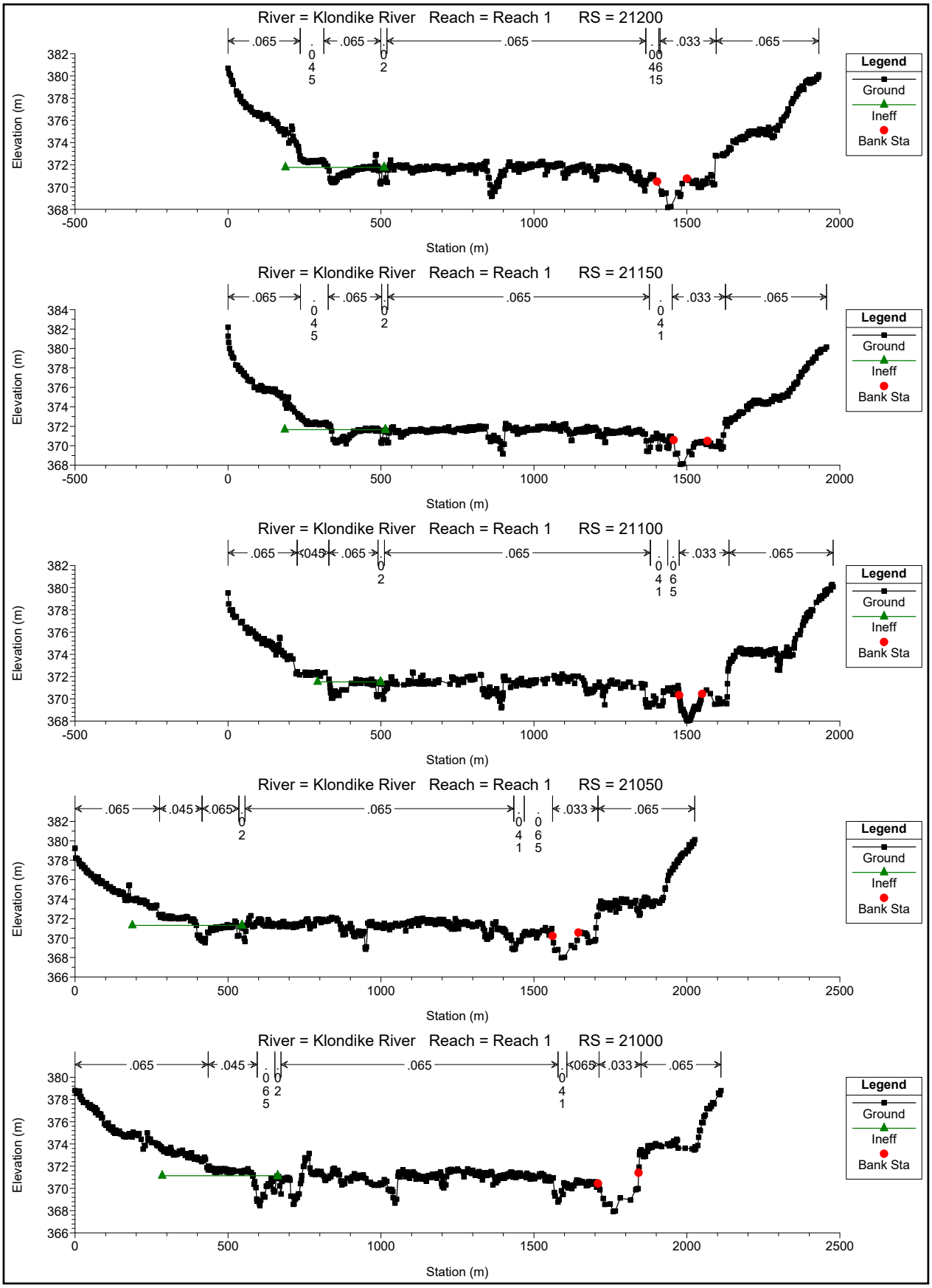
.065
.065
.033
.065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta


River = Klondike River Reach = Reach 1 RS = 21200
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.065
.02
.065
.033
.065
.00046
.15
Legend
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)
River = Klondike River Reach = Reach 1 RS = 21150
.065
.045
.065
.02
.065
.041
.033
.065
Legend
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)
River = Klondike River Reach = Reach 1 RS = 21100
.065
.045
.065
.02
.065
.041
.065
.033
.065
Legend
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)
River = Klondike River Reach = Reach 1 RS = 21050
.065
.045
.065
.02
.065
.041
.065
.033
.065
Legend
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)
River = Klondike River Reach = Reach 1 RS = 21000
.065
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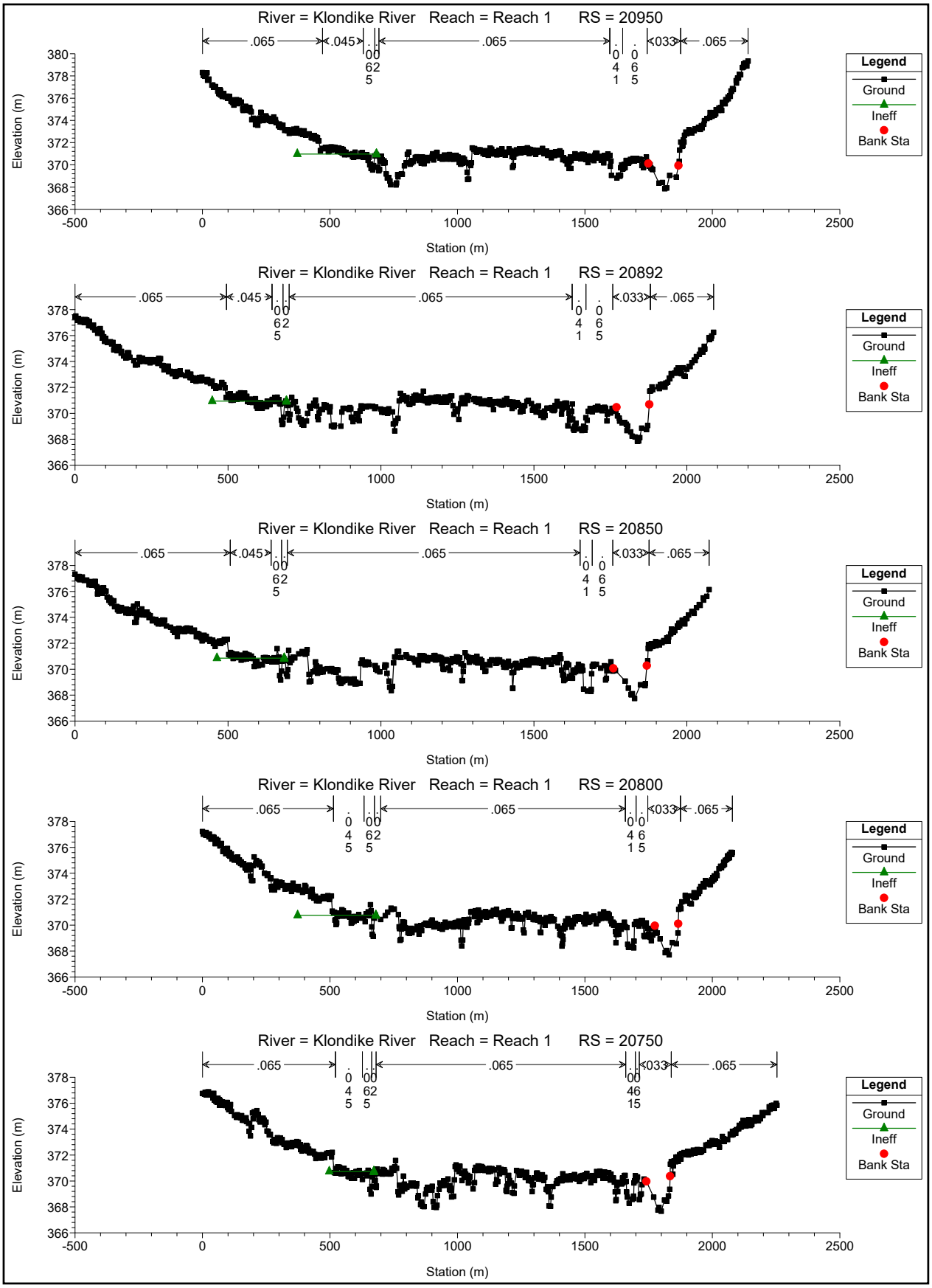
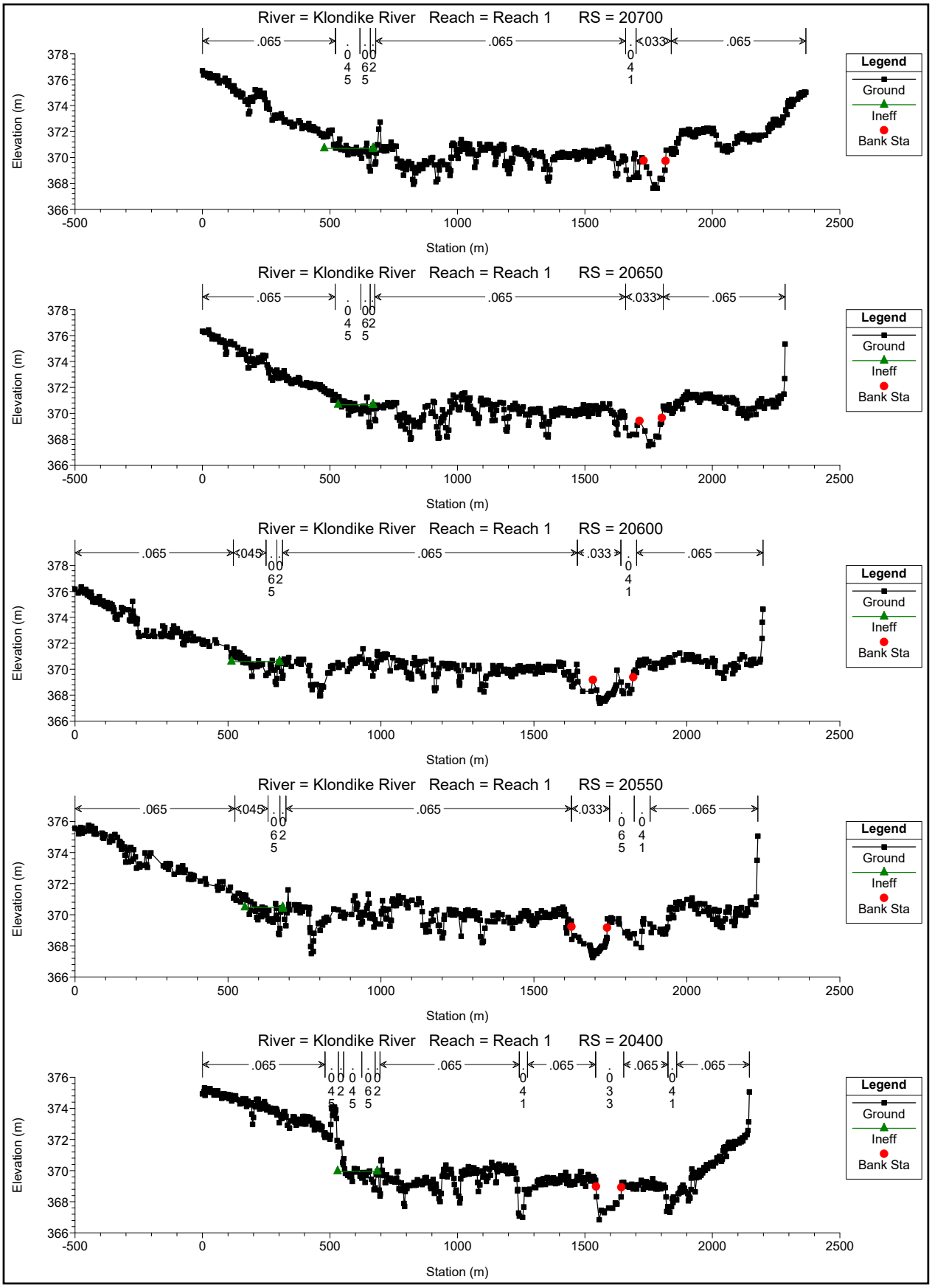
.033
.065
Legend
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)


River = Klondike River Reach = Reach 1 RS = 20950
.065
.045
.065
.033
.065
Legend
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)
River = Klondike River Reach = Reach 1 RS = 20892
River = Klondike River Reach = Reach 1 RS = 20850
River = Klondike River Reach = Reach 1 RS = 20800
River = Klondike River Reach = Reach 1 RS = 20750


River = Klondike River Reach = Reach 1 RS = 20700
.065
.065
.033
.065
Legend
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)
River = Klondike River Reach = Reach 1 RS = 20650
.065
.065
.033
.065
Legend
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)
River = Klondike River Reach = Reach 1 RS = 20600
.065
.045
.065
.033
.065
Legend
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)
River = Klondike River Reach = Reach 1 RS = 20550
.065
.045
.065
.033
.065
Legend
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)
River = Klondike River Reach = Reach 1 RS = 20400
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.065
.065
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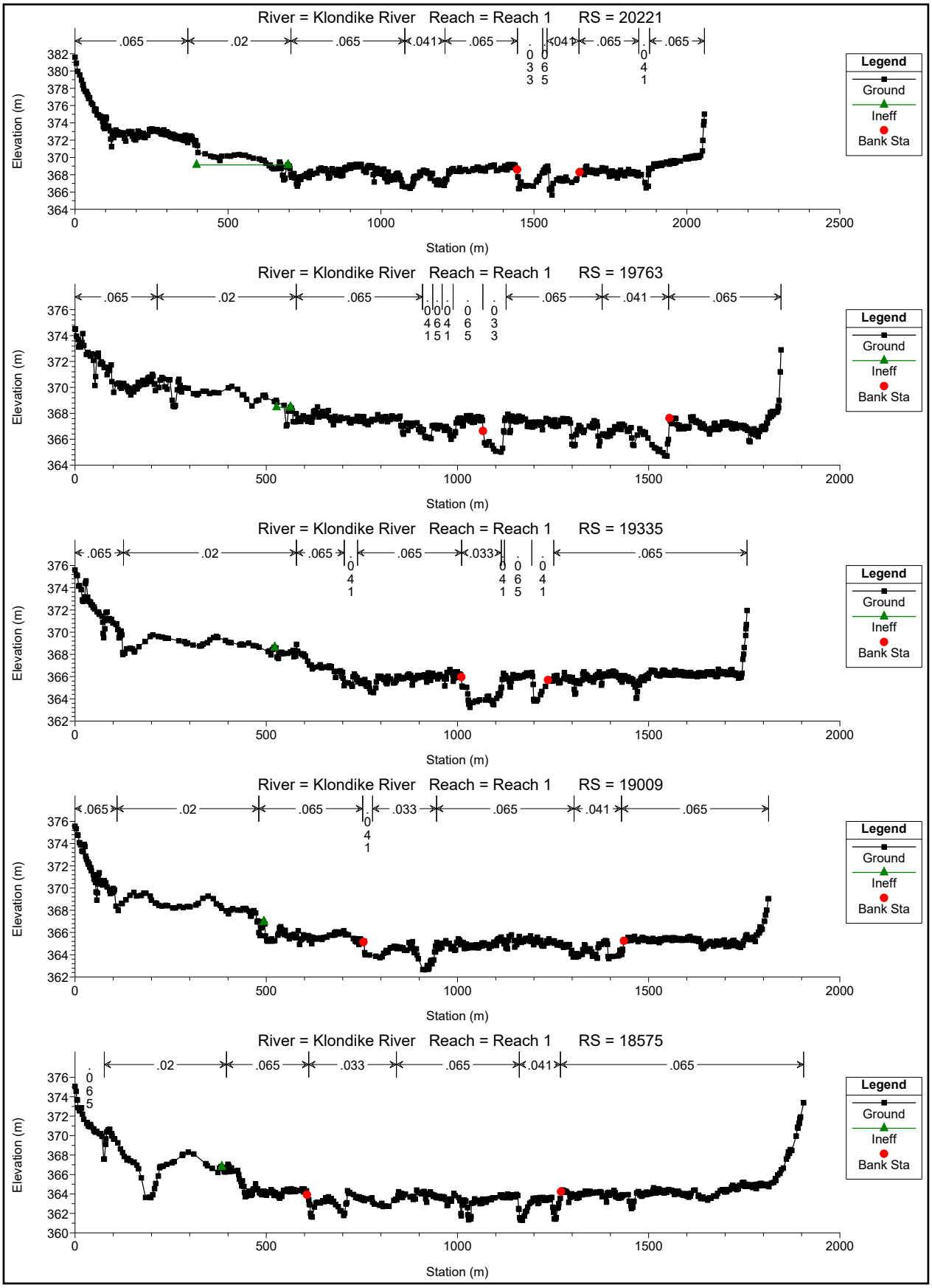
Legend
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)


River = Klondike River Reach = Reach 1 RS = 20221
.065 .02 .065 .041 .065 .035 .065 .041 .065 .065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 19763
.065 .02 .065 .151 .064 .041 .065 .033 .065 .041 .065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 19335
.065 .02 .065 .041 .065 .033 .041 .065 .065 .041
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 19009
.065 .02 .065 .041 .033 .065 .041 .065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 18575
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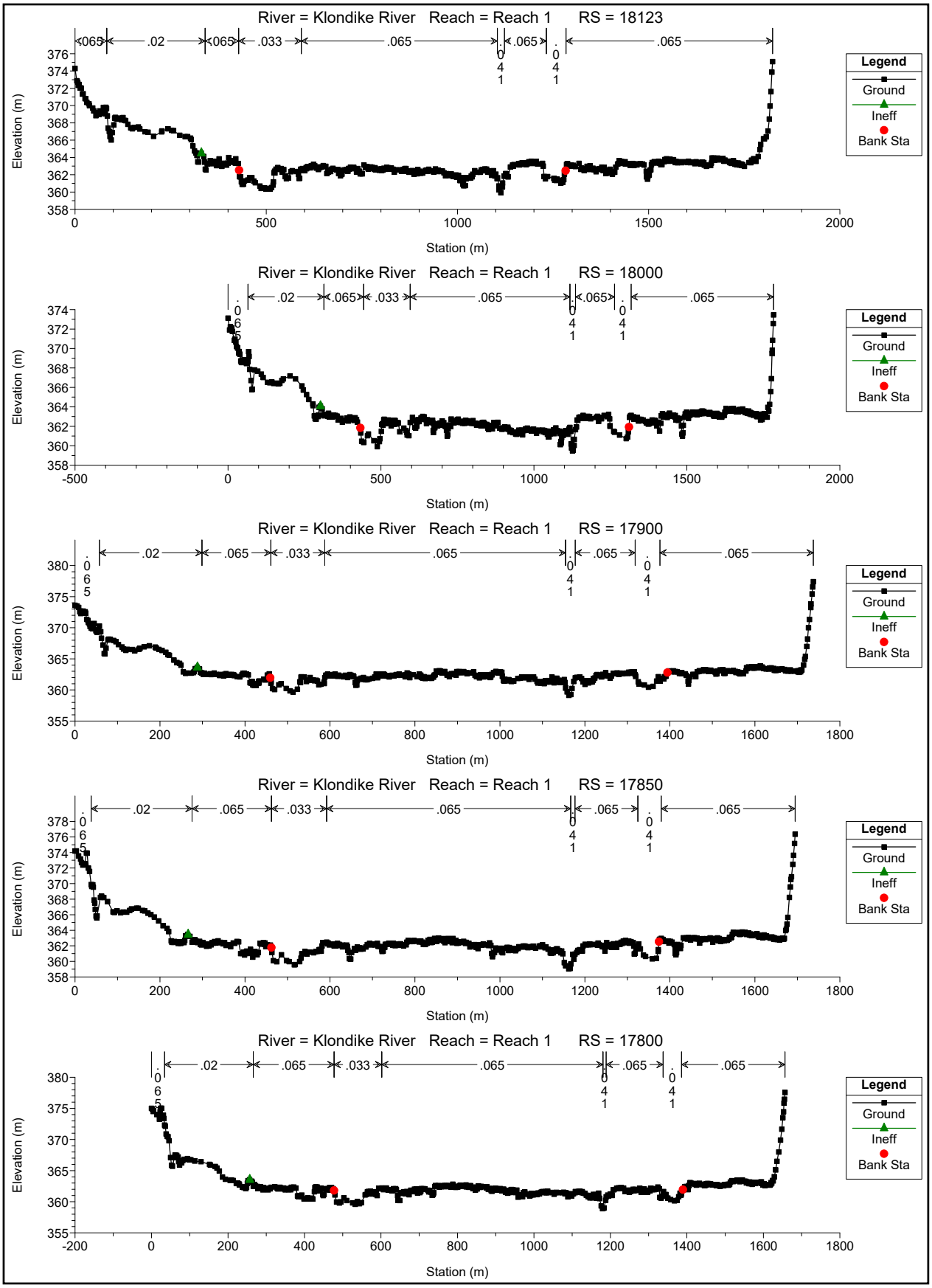
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta


River = Klondike River Reach = Reach 1 RS = 18123
.065 .02 .065 .033 .065 .041 .065 .041 .065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 18000
.065 .02 .065 .033 .065 .041 .065 .041 .065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 17900
.065 .02 .065 .033 .065 .041 .065 .041 .065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 17850
.065 .02 .065 .033 .065 .041 .065 .041 .065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 17800
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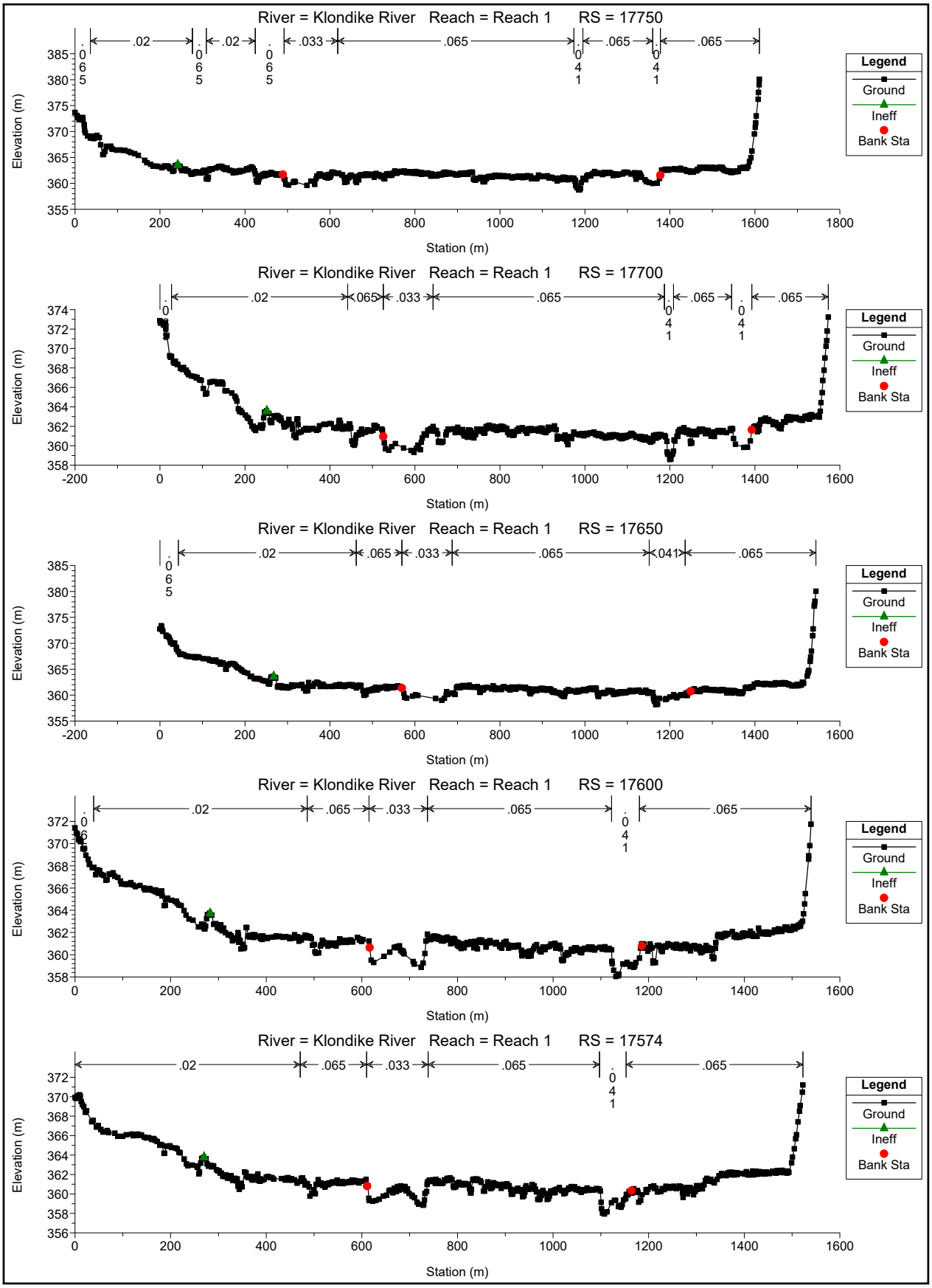
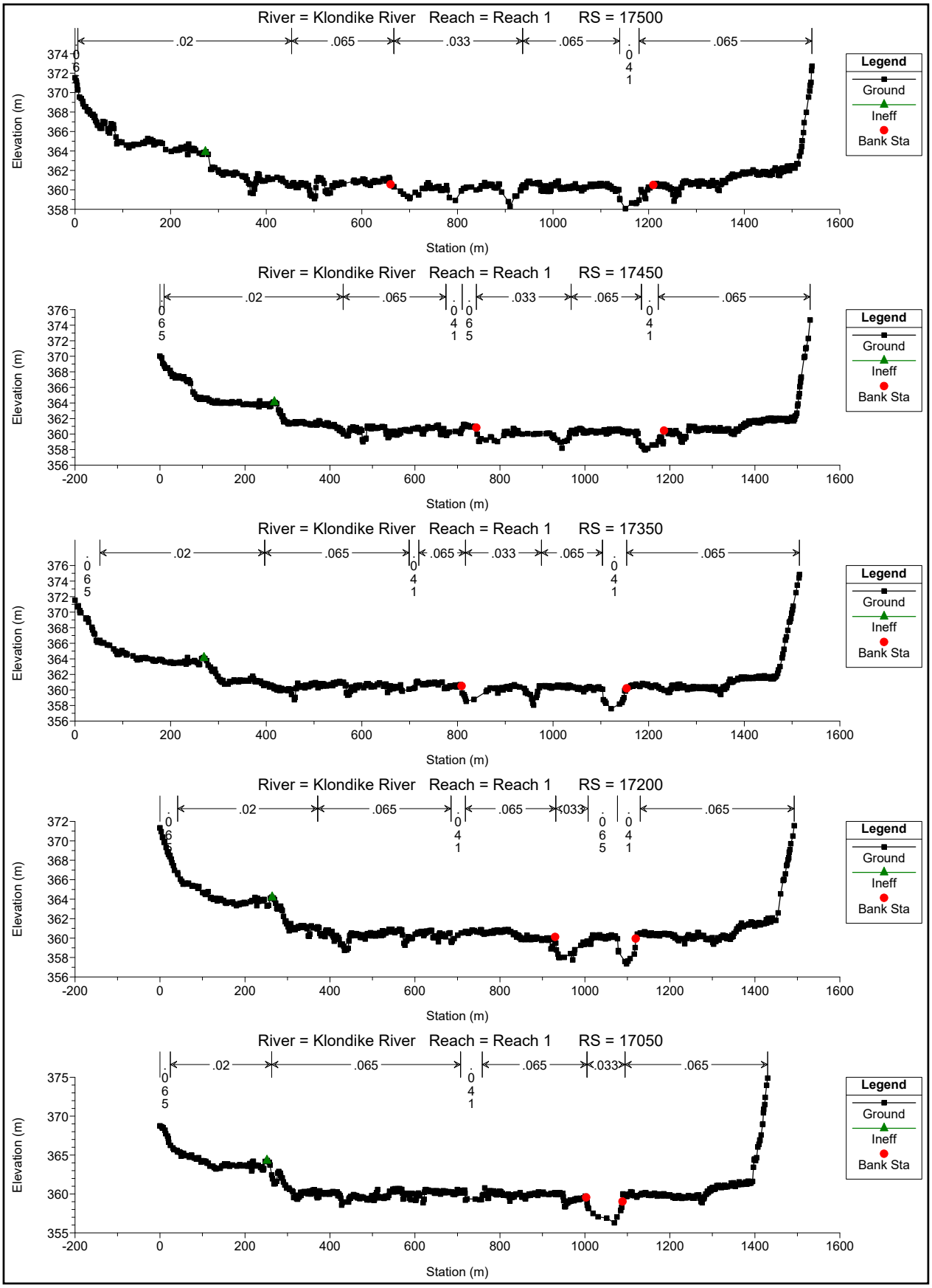
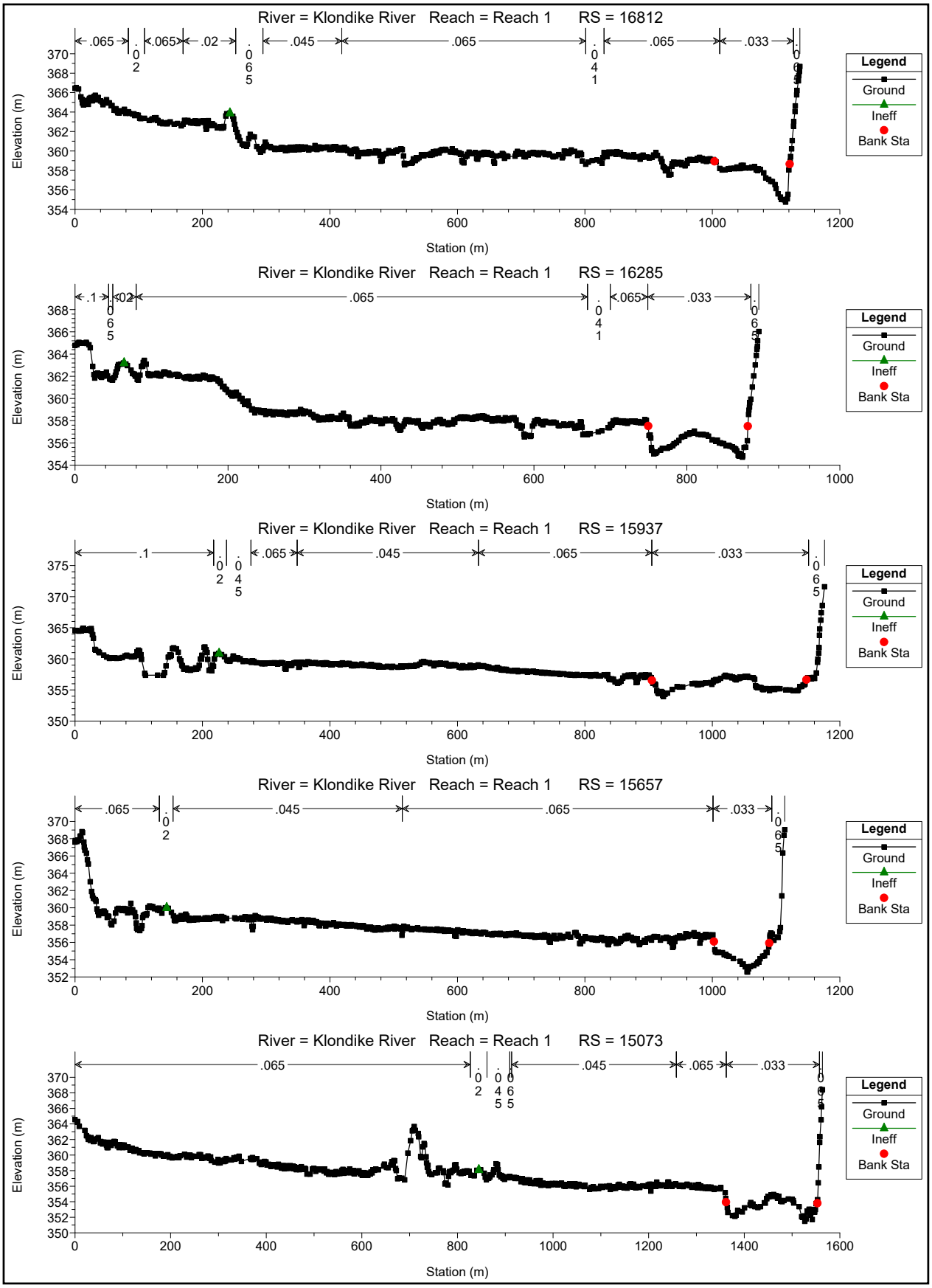
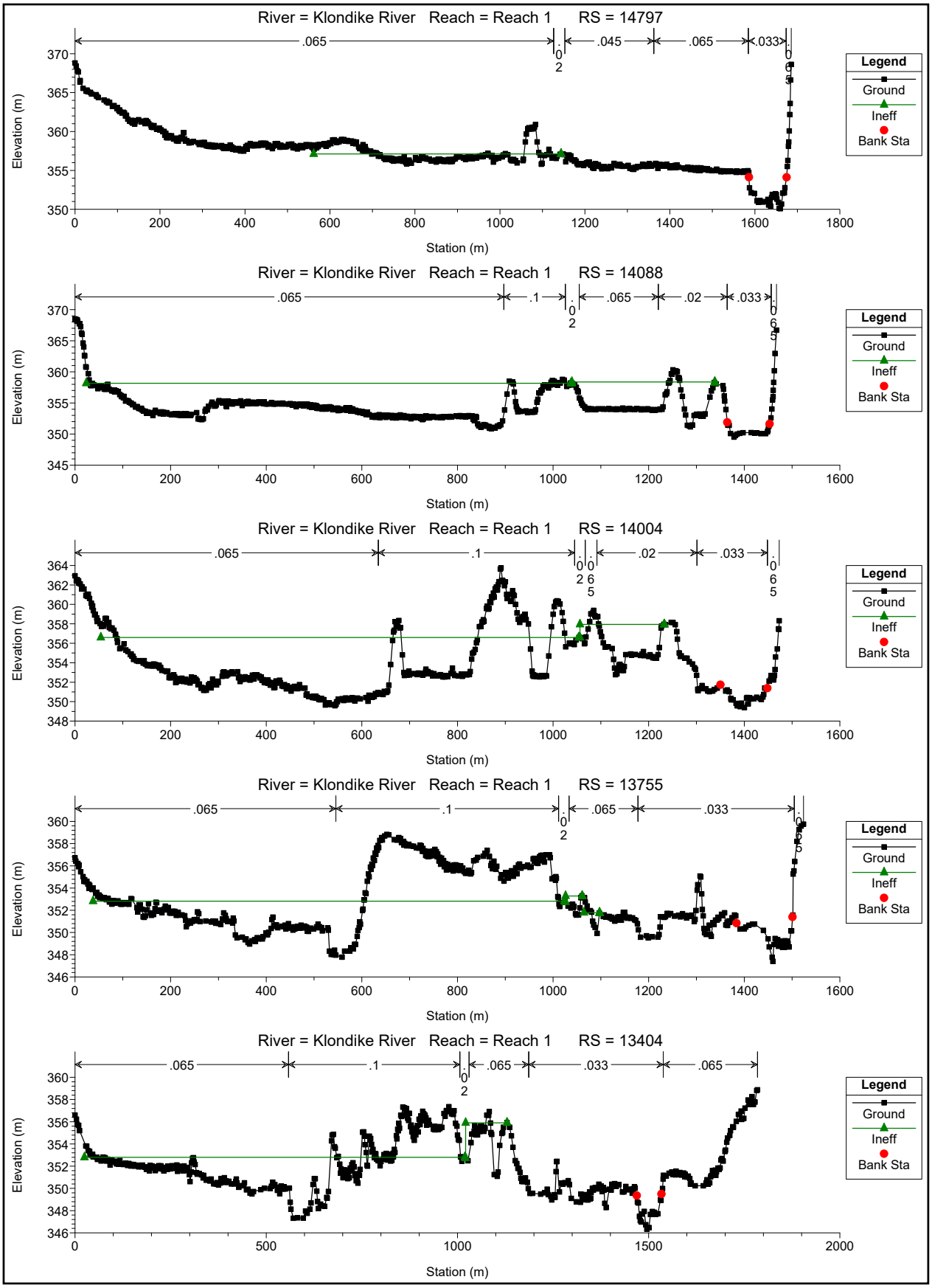
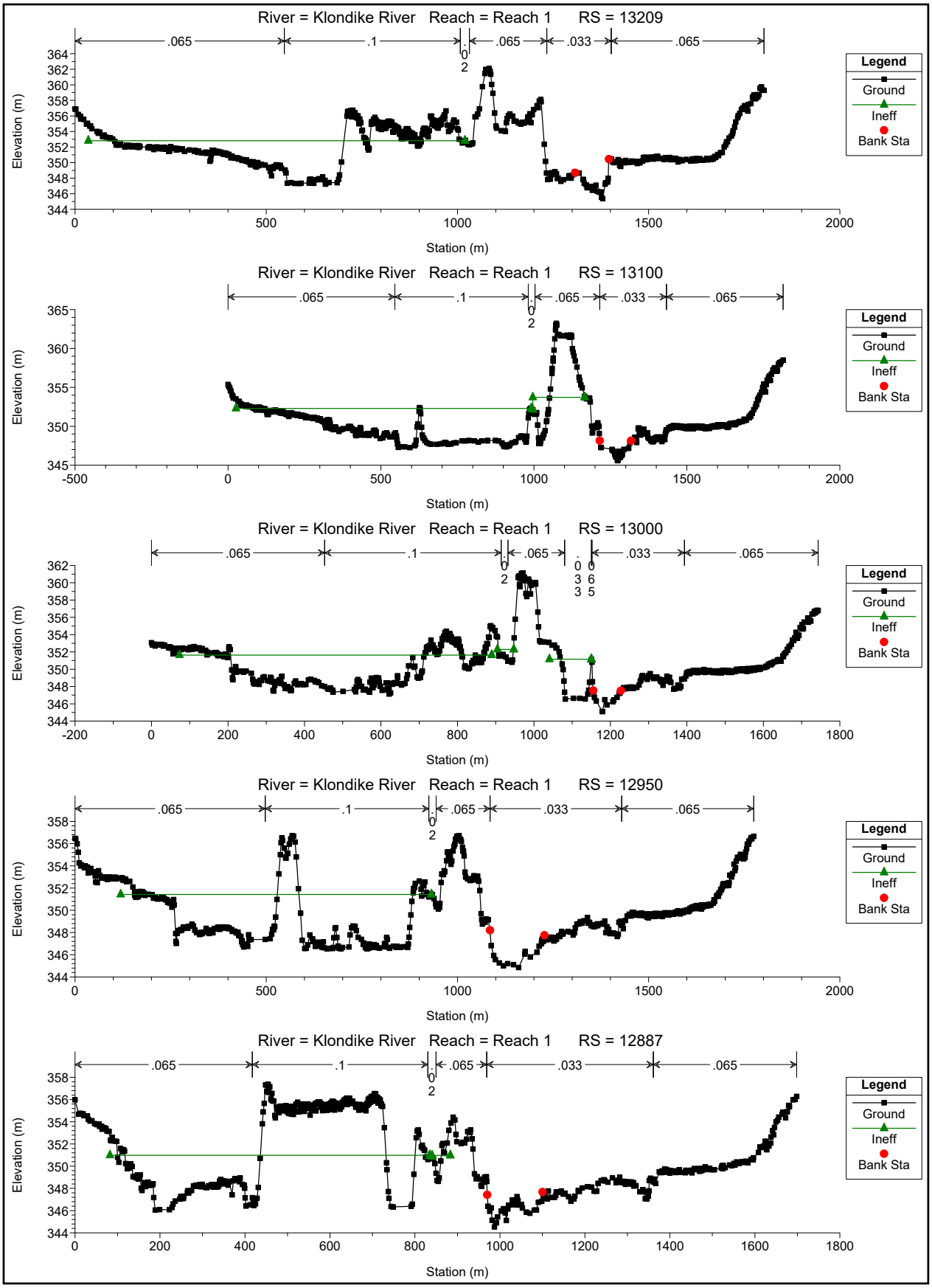
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta

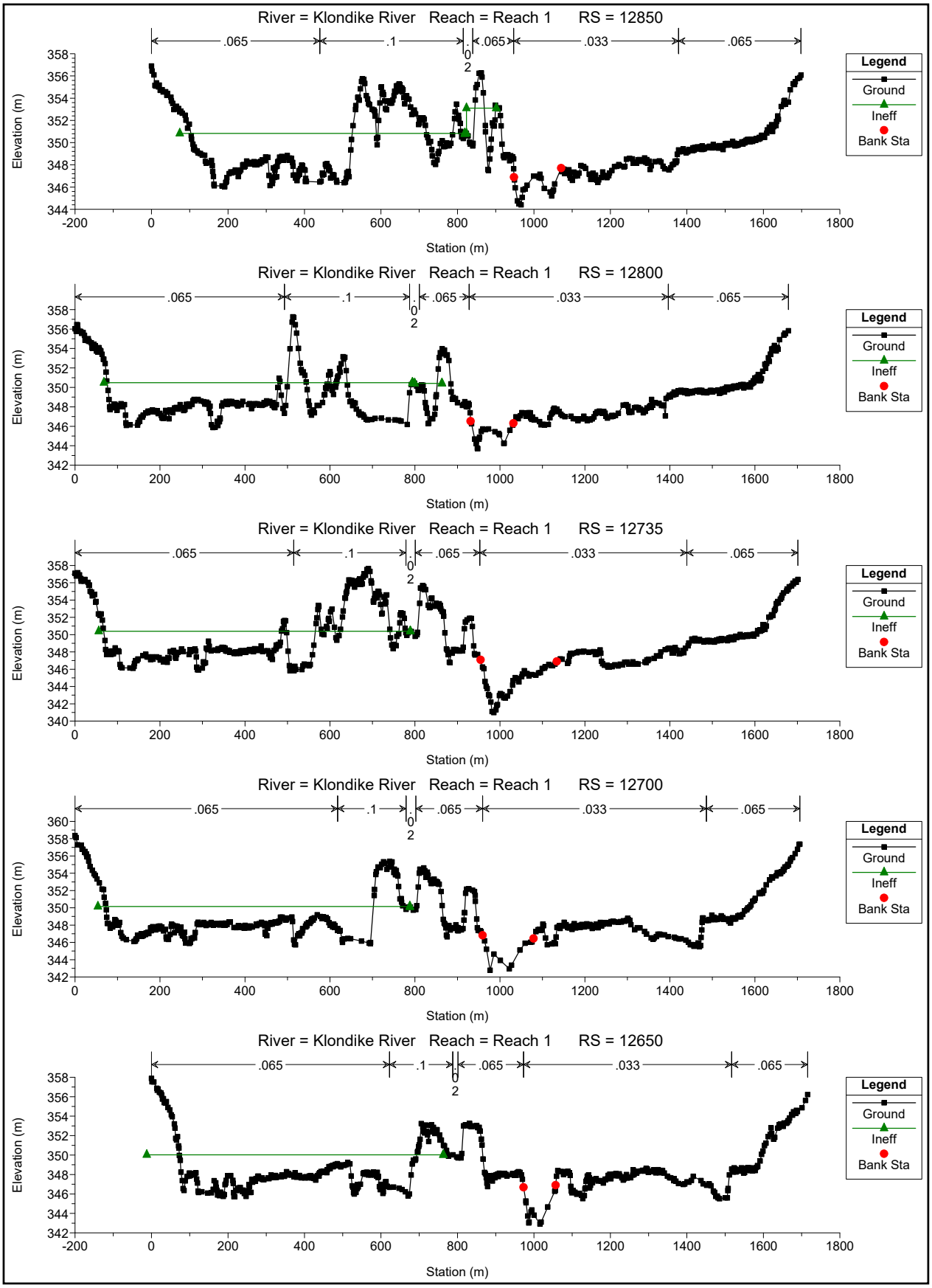

River = Klondike River Reach = Reach 1 RS = 17750
.065 .02 .065 .02 .065 .033 .065 .041 .065 .041 .065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 17700
.065 .02 .065 .033 .065 .041 .065 .041 .065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 17650
.065 .02 .065 .033 .065 .041 .065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 17600
.02 .065 .033 .065 .041 .065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 17574
.02 .065 .033 .065 .041 .065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta

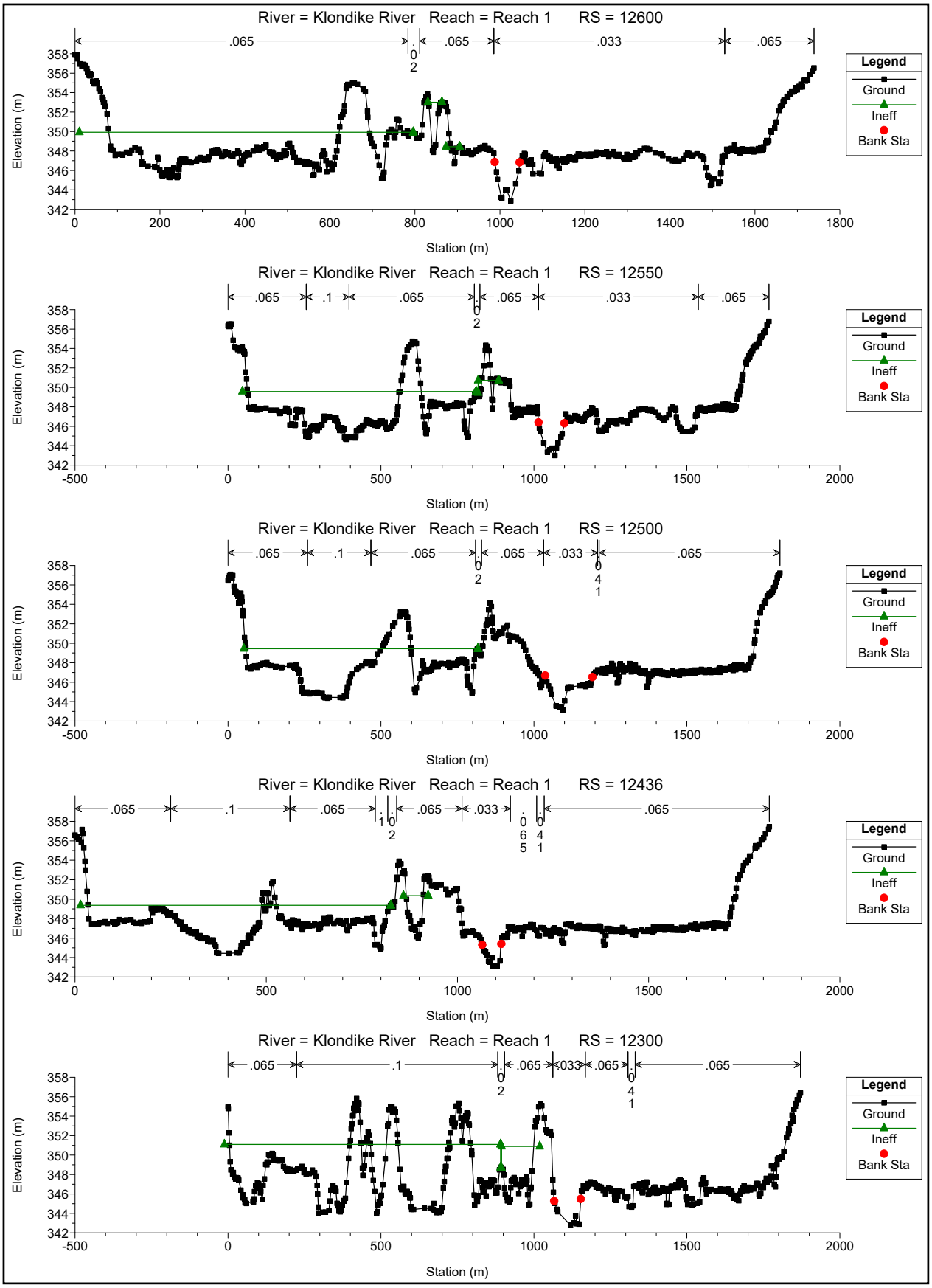

River = Klondike River Reach = Reach 1 RS = 17500
.02
.065
.033
.065
.065
.065
.041
Legend
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)
River = Klondike River Reach = Reach 1 RS = 17450
.02
.065
.041
.065
.033
.065
.041
.065
Legend
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)
River = Klondike River Reach = Reach 1 RS = 17350
.02
.065
.041
.065
.033
.065
.041
.065
Legend
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)
River = Klondike River Reach = Reach 1 RS = 17200
.02
.065
.041
.065
.033
.065
.041
Legend
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)
River = Klondike River Reach = Reach 1 RS = 17050
.02
.065
.041
.065
.033
.065
Legend
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)

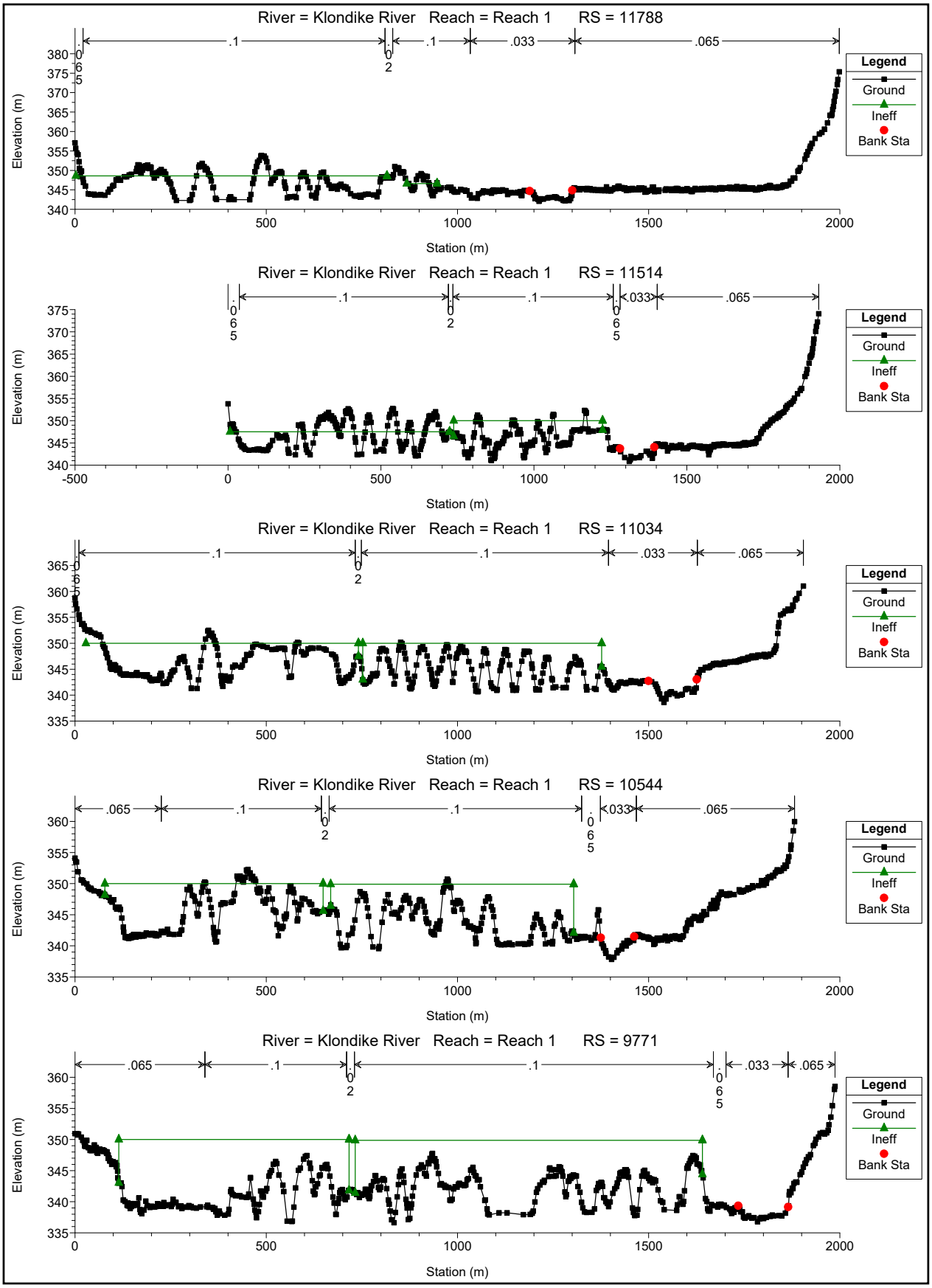

River = Klondike River Reach = Reach 1 RS = 16812
.065 .02 .065 .02 .065 .045 .065 .065 .033
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 16285
.1 .02 .065 .065 .033
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 15937
.1 .02 .045 .065 .045 .065 .033
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 15657
.065 .02 .045 .065 .033
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 15073
.065 .02 .045 .065 .045 .065 .033
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta

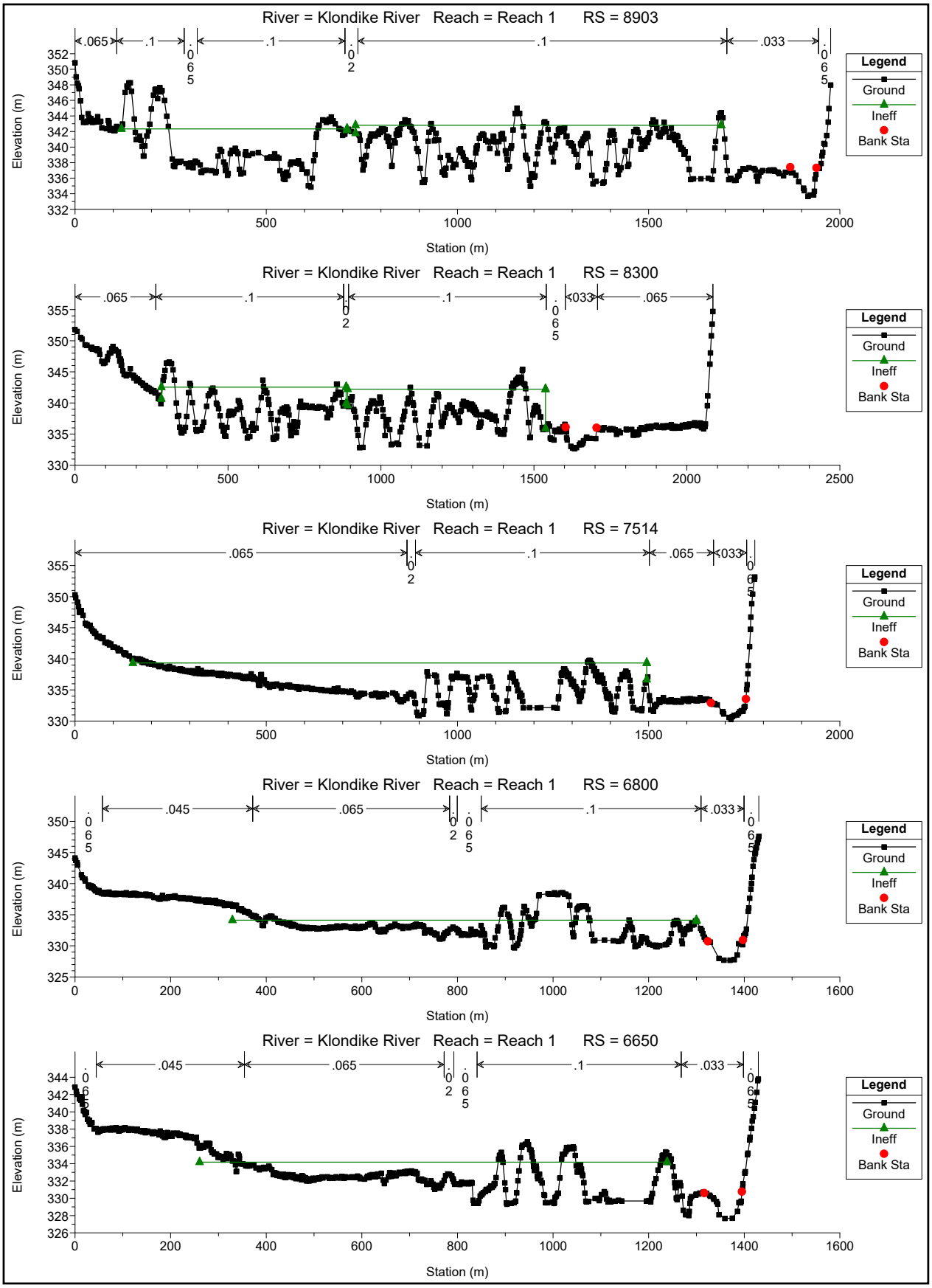

River = Klondike River Reach = Reach 1 RS = 14797
.065
.02
.045
.065
.033
.05
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 14088
.065
.1
.02
.065
.02
.033
.05
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 14004
.065
.1
.02
.02
.065
.02
.033
.05
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 13755
.065
.1
.02
.065
.033
.05
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 13404
.065
.1
.02
.065
.033
.065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta

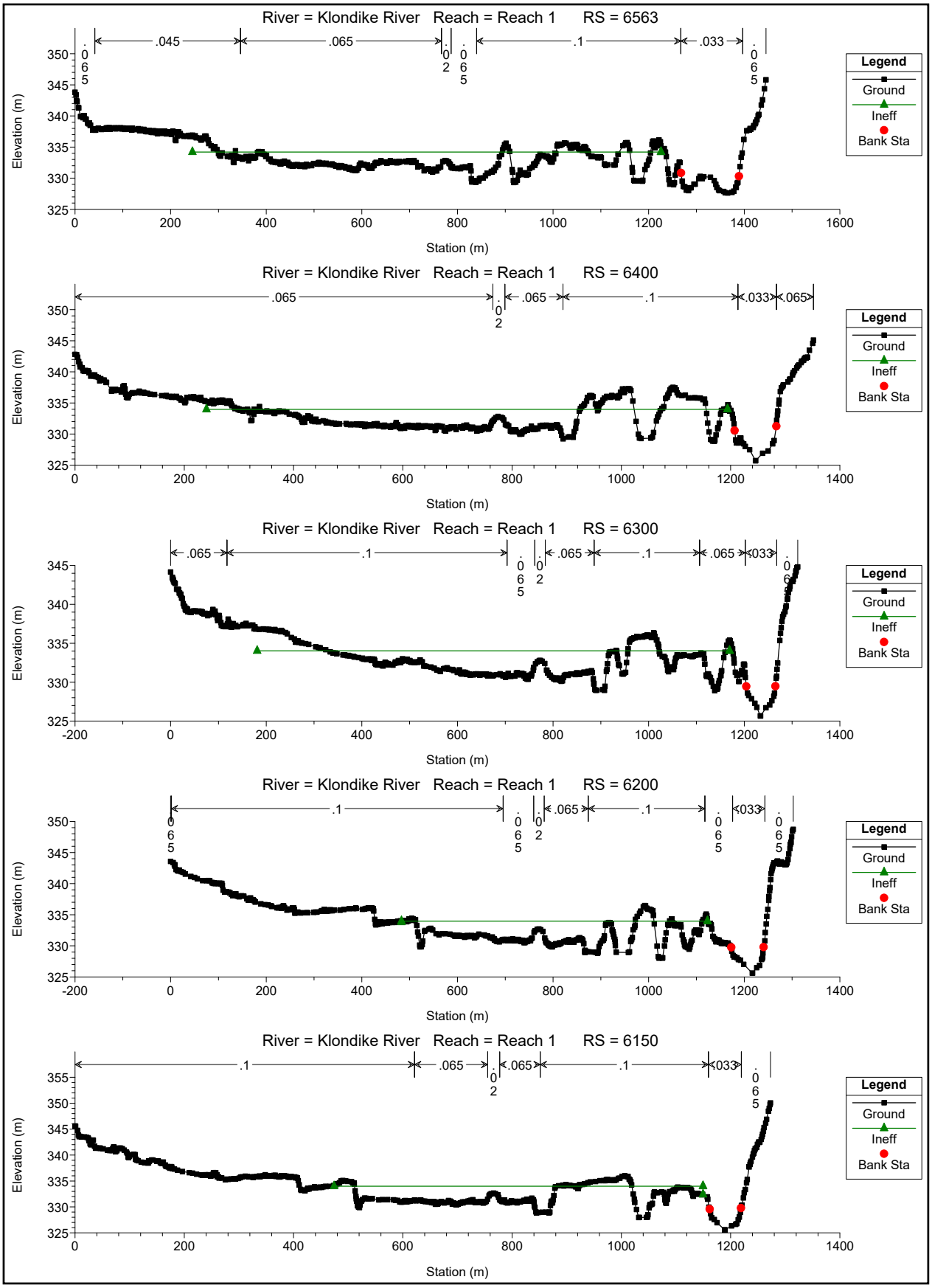

River = Klondike River Reach = Reach 1 RS = 13209
.065
.1
.065
.033
.065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 13100
.065
.1
.065
.033
.065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 13000
.065
.1
.065
.033
.065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 12950
.065
.1
.065
.033
.065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 12887
.065
.1
.065
.033
.065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta

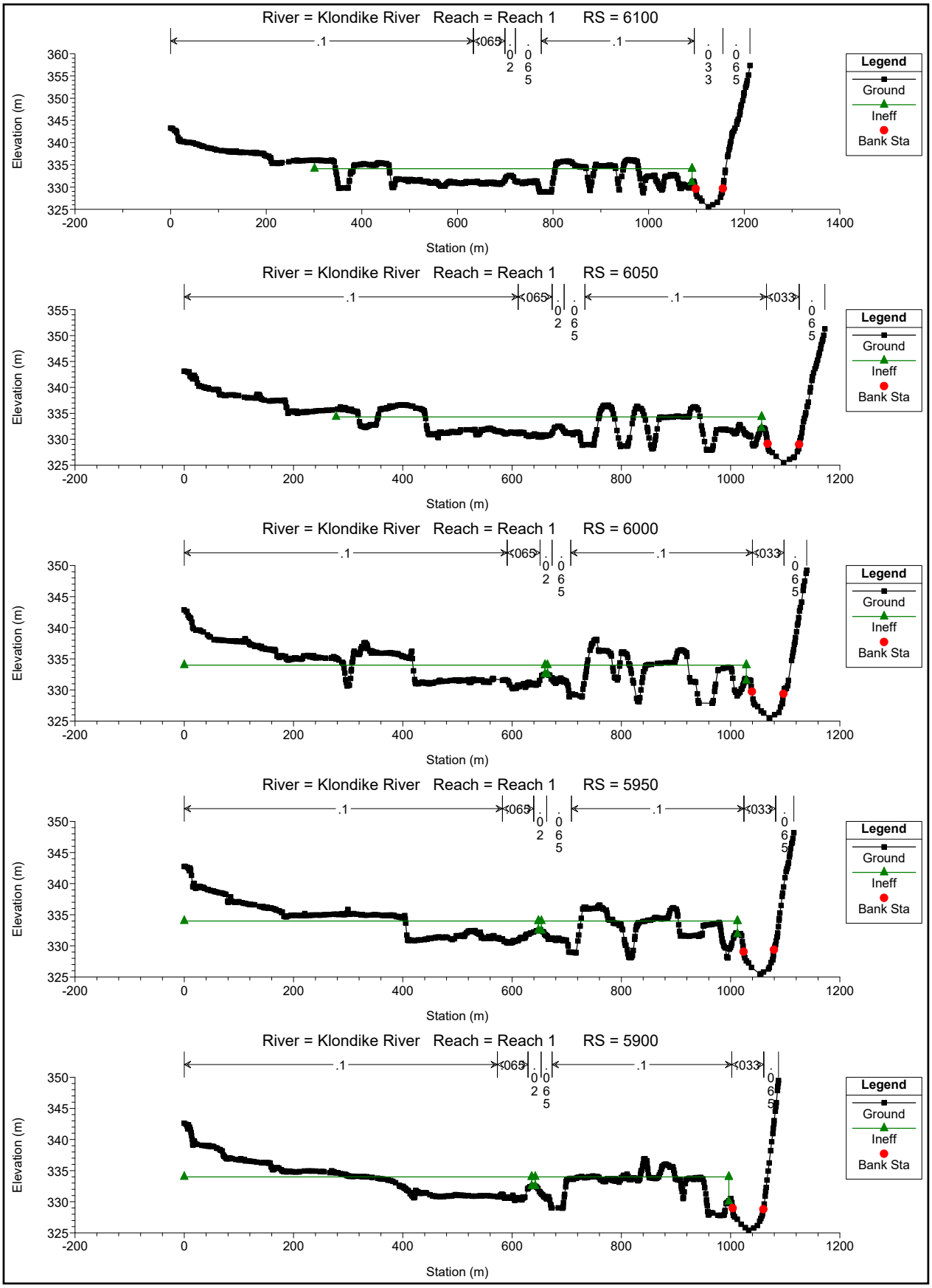

River = Klondike River Reach = Reach 1 RS = 12850
.065
.1
.065
.033
.065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 12800
River = Klondike River Reach = Reach 1 RS = 12735
River = Klondike River Reach = Reach 1 RS = 12700
River = Klondike River Reach = Reach 1 RS = 12650

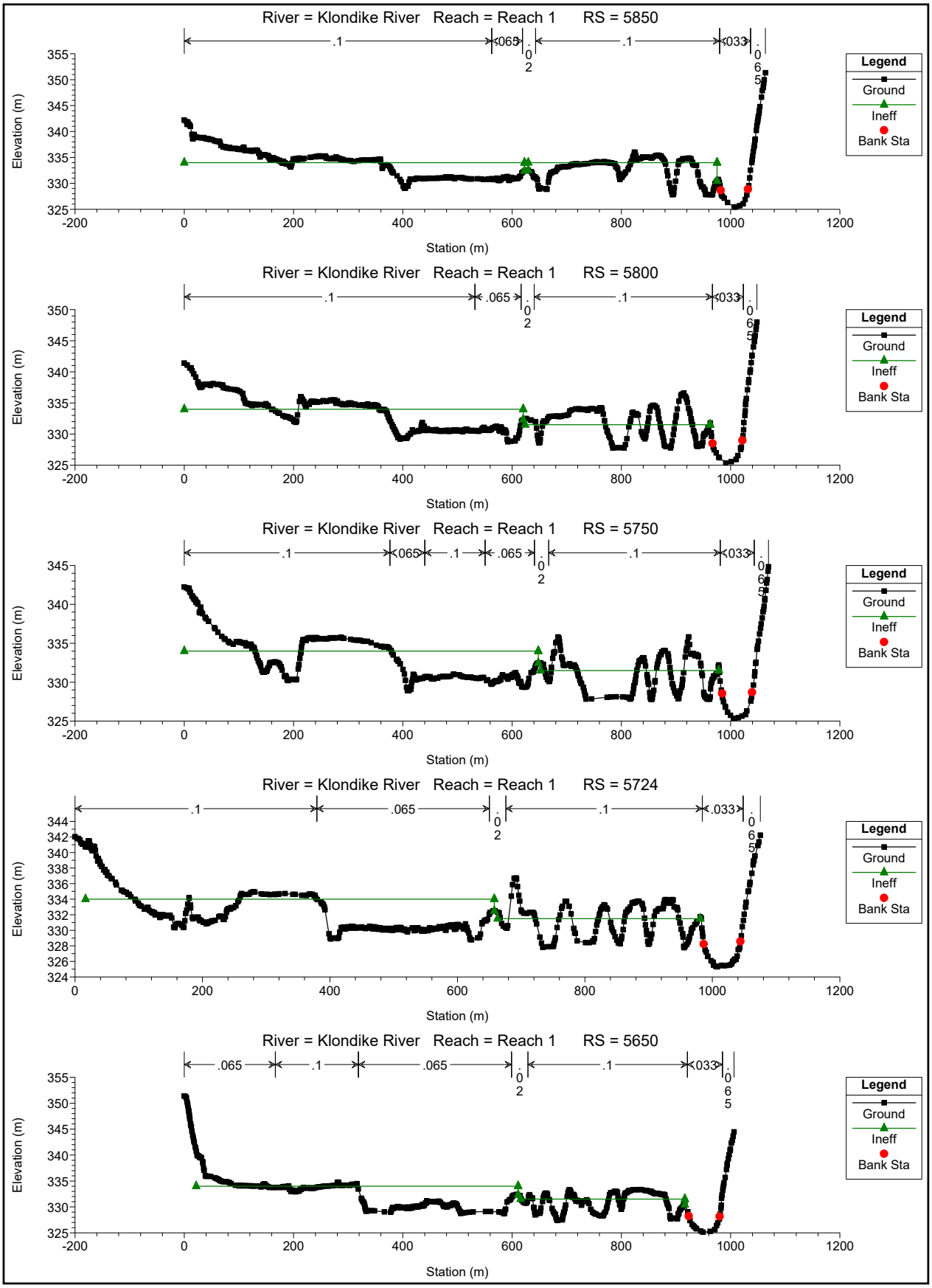

River = Klondike River Reach = Reach 1 RS = 12600
.065
.065
.033
.065
.02
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 12550
.065
.1
.065
.065
.033
.065
.02
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 12500
.065
.1
.065
.065
.033
.065
.02
.041
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 12436
.065
.1
.065
.065
.033
.065
.102
.065
.041
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 12300
.065
.1
.065
.033
.065
.065
.02
.041
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta

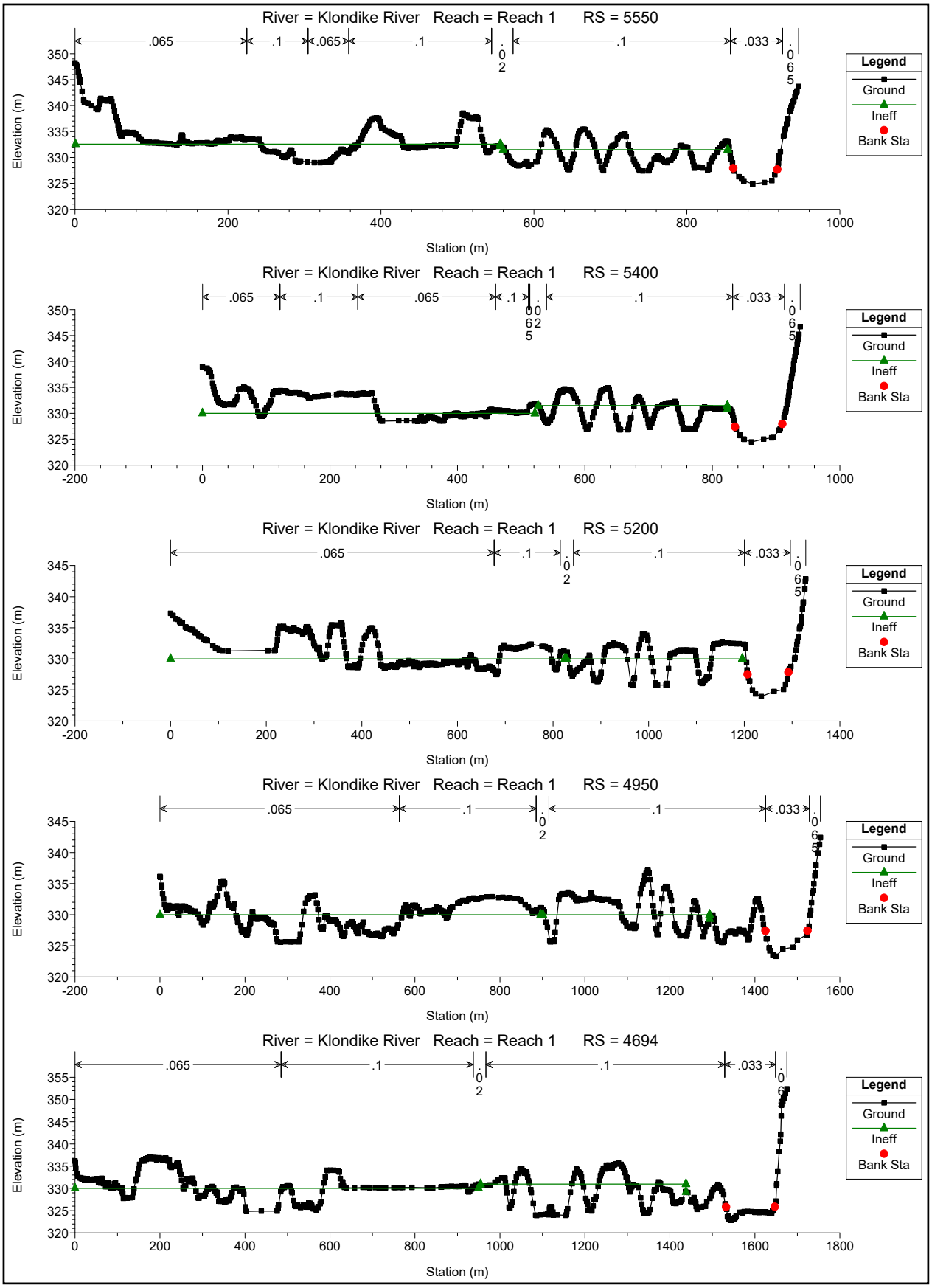

River = Klondike River Reach = Reach 1 RS = 11788
.065
.1
.02
.1
.033
.065
Legend
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)
River = Klondike River Reach = Reach 1 RS = 11514
.065
.1
.02
.1
.065
.033
.065
Legend
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)
River = Klondike River Reach = Reach 1 RS = 11034
.065
.1
.02
.1
.033
.065
Legend
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)
River = Klondike River Reach = Reach 1 RS = 10544
.065
.1
.02
.1
.065
.033
.065
Legend
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)
River = Klondike River Reach = Reach 1 RS = 9771
.065
.1
.02
.1
.065
.033
.065
Legend
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)

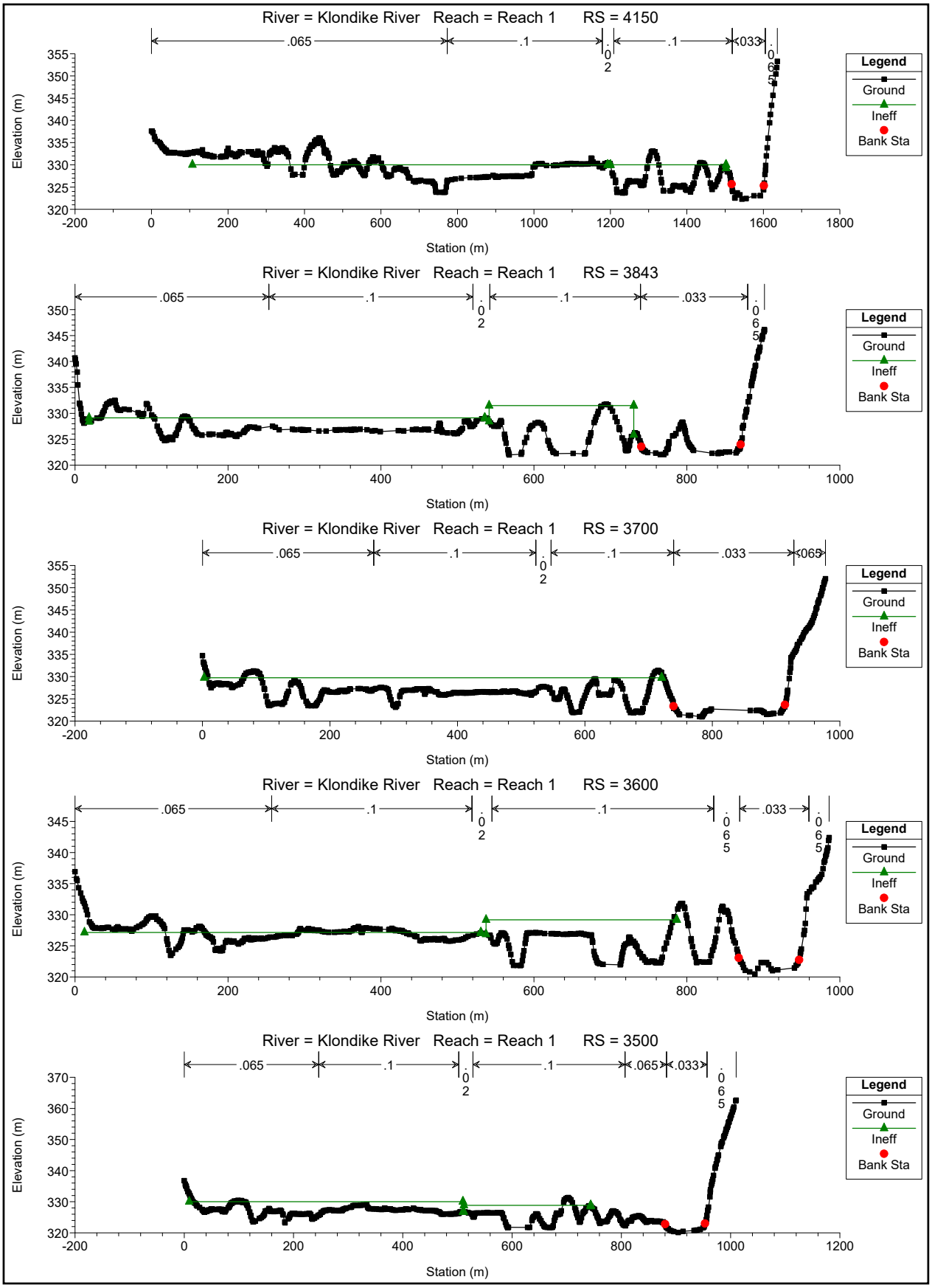

River = Klondike River Reach = Reach 1 RS = 8903
.065
.1
.065
.1
.02
.1
.033
.065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 8300
.065
.1
.02
.1
.065
.033
.065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 7514
.065
.02
.1
.065
.033
.065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 6800
.065
.045
.065
.02
.065
.1
.033
.065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 6650
.065
.045
.065
.02
.065
.1
.033
.065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta

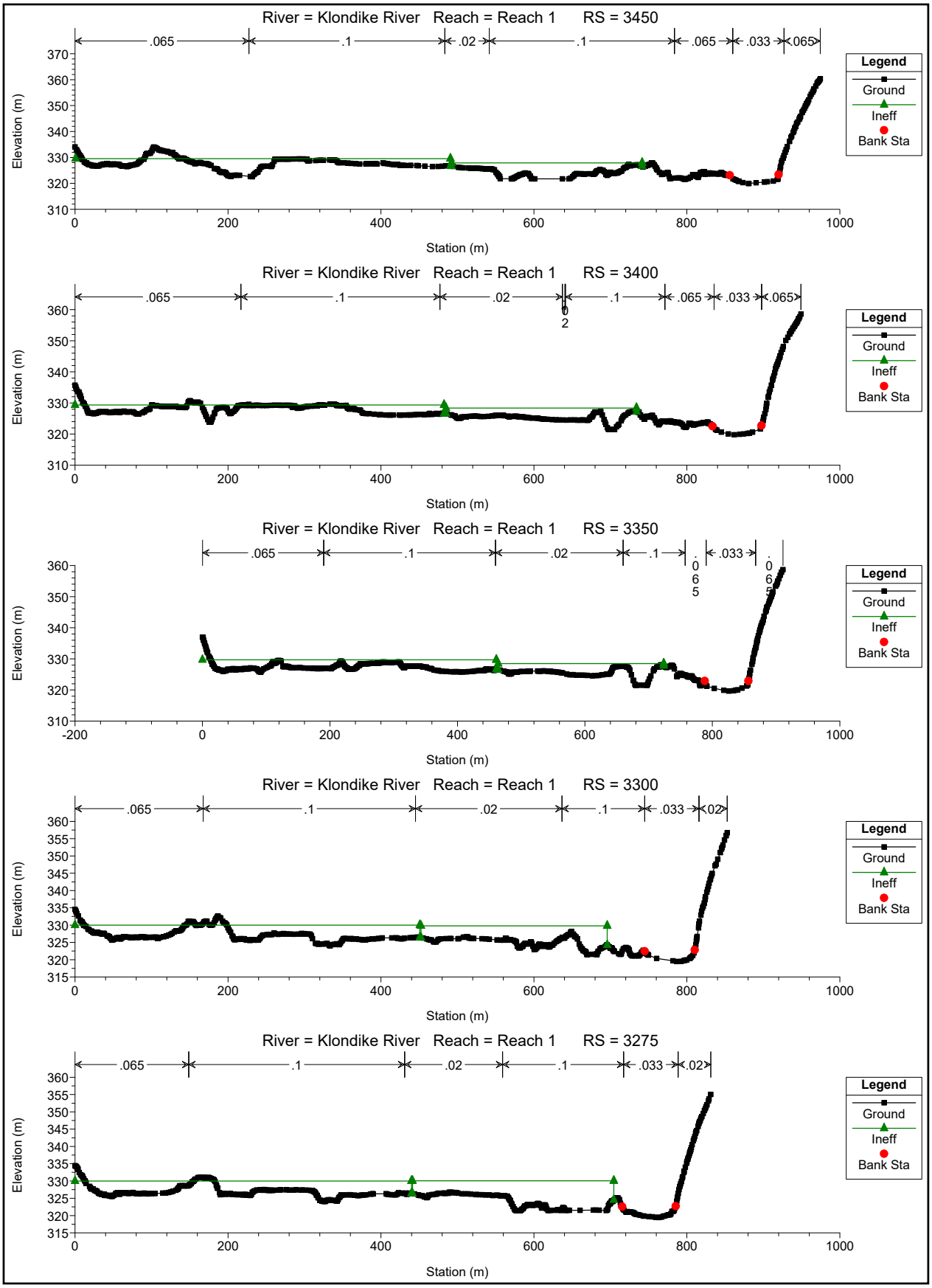

River = Klondike River Reach = Reach 1 RS = 6563
.045
.065
.1
.033
Legend
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)
River = Klondike River Reach = Reach 1 RS = 6400
.065
.1
.033
.065
Legend
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)
River = Klondike River Reach = Reach 1 RS = 6300
.065
.1
.033
Legend
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)
River = Klondike River Reach = Reach 1 RS = 6200
.1
.065
.033
Legend
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)
River = Klondike River Reach = Reach 1 RS = 6150
.1
.065
.033
Legend
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)

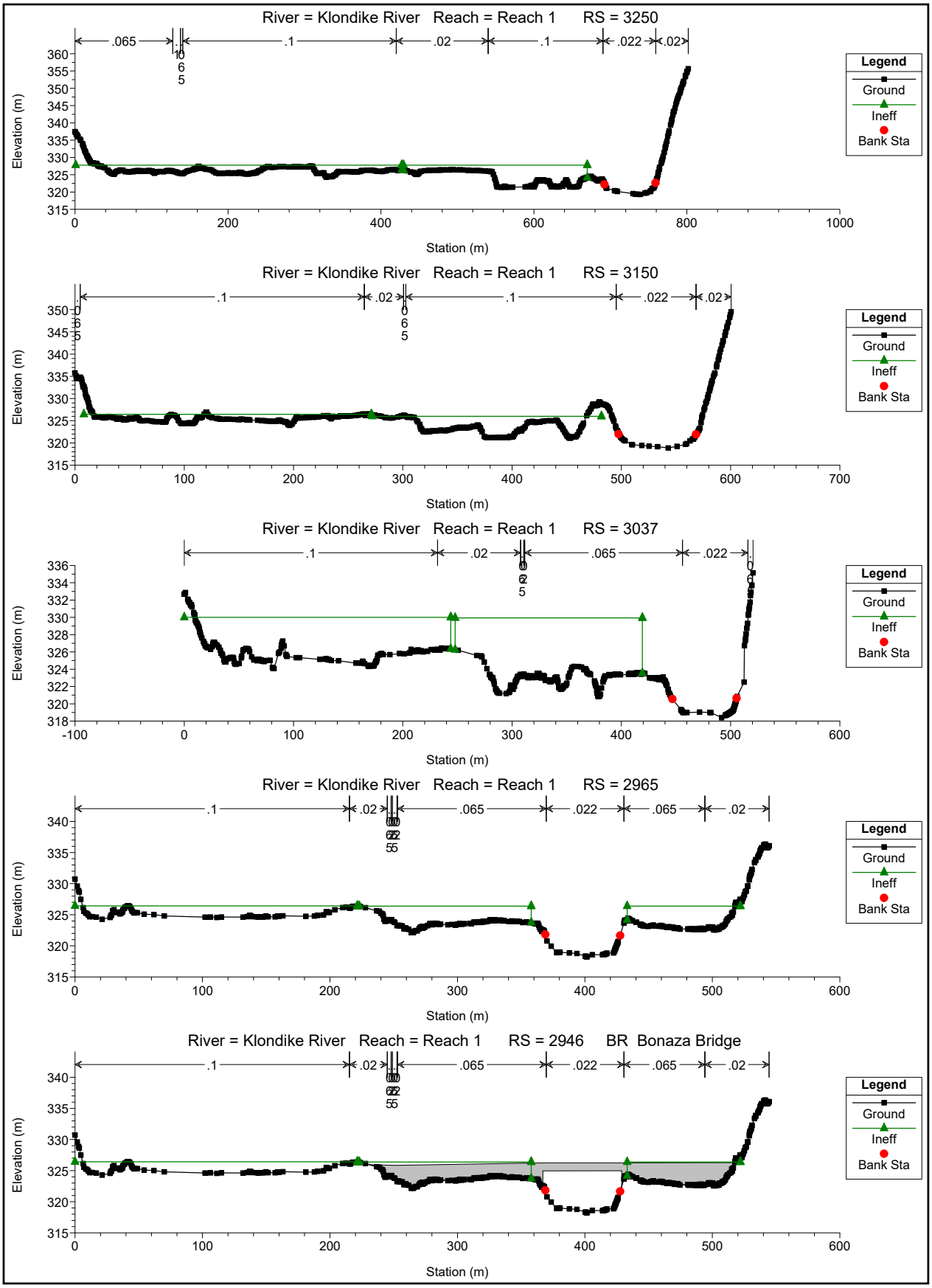

River = Klondike River Reach = Reach 1 RS = 6100
River = Klondike River Reach = Reach 1 RS = 6050
River = Klondike River Reach = Reach 1 RS = 6000
River = Klondike River Reach = Reach 1 RS = 5950
River = Klondike River Reach = Reach 1 RS = 5900
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta

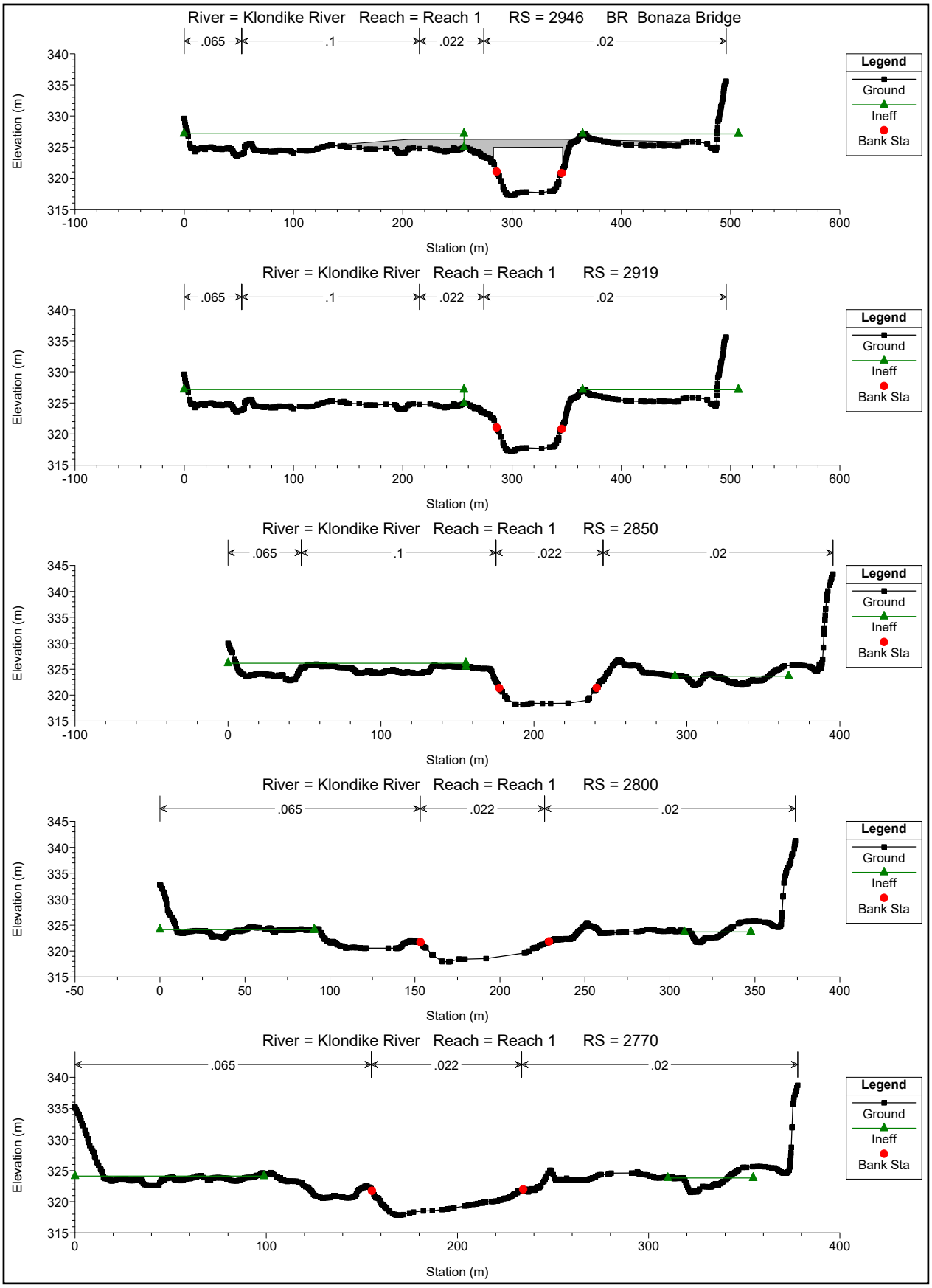

River = Klondike River Reach = Reach 1 RS = 5850
.1
.065
.02
.1
.033
.065
Legend
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)
River = Klondike River Reach = Reach 1 RS = 5800
River = Klondike River Reach = Reach 1 RS = 5750
River = Klondike River Reach = Reach 1 RS = 5724
River = Klondike River Reach = Reach 1 RS = 5650

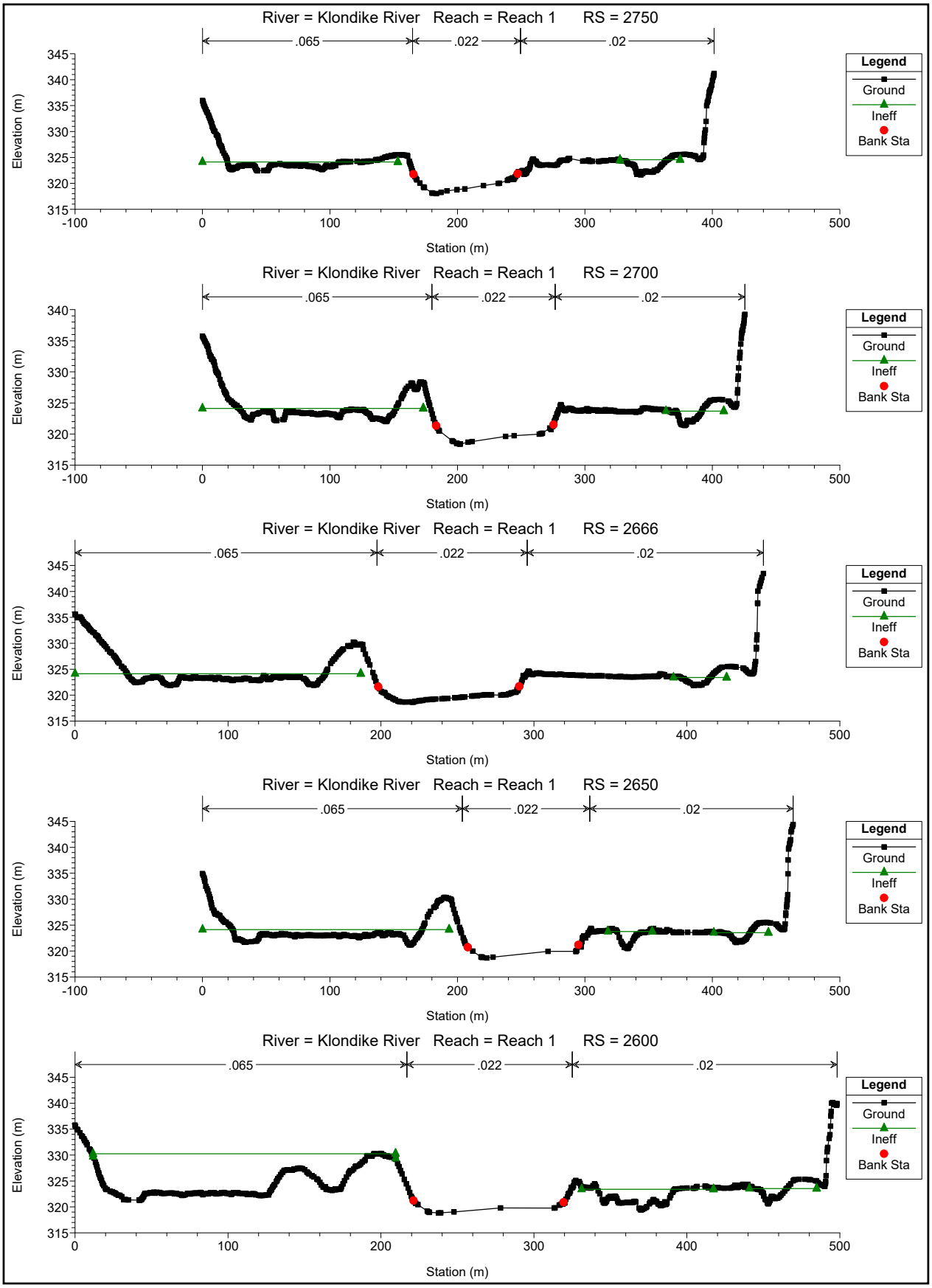

River = Klondike River Reach = Reach 1 RS = 5550
.065
.1
.065
.1
.02
.1
.033
.065
Legend
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)
River = Klondike River Reach = Reach 1 RS = 5400
.065
.1
.065
.1
.0625
.1
.033
.065
River = Klondike River Reach = Reach 1 RS = 5200
.065
.1
.02
.1
.033
.065
River = Klondike River Reach = Reach 1 RS = 4950
.065
.1
.02
.1
.033
.065
River = Klondike River Reach = Reach 1 RS = 4694
.065
.1
.02
.1
.033
.06

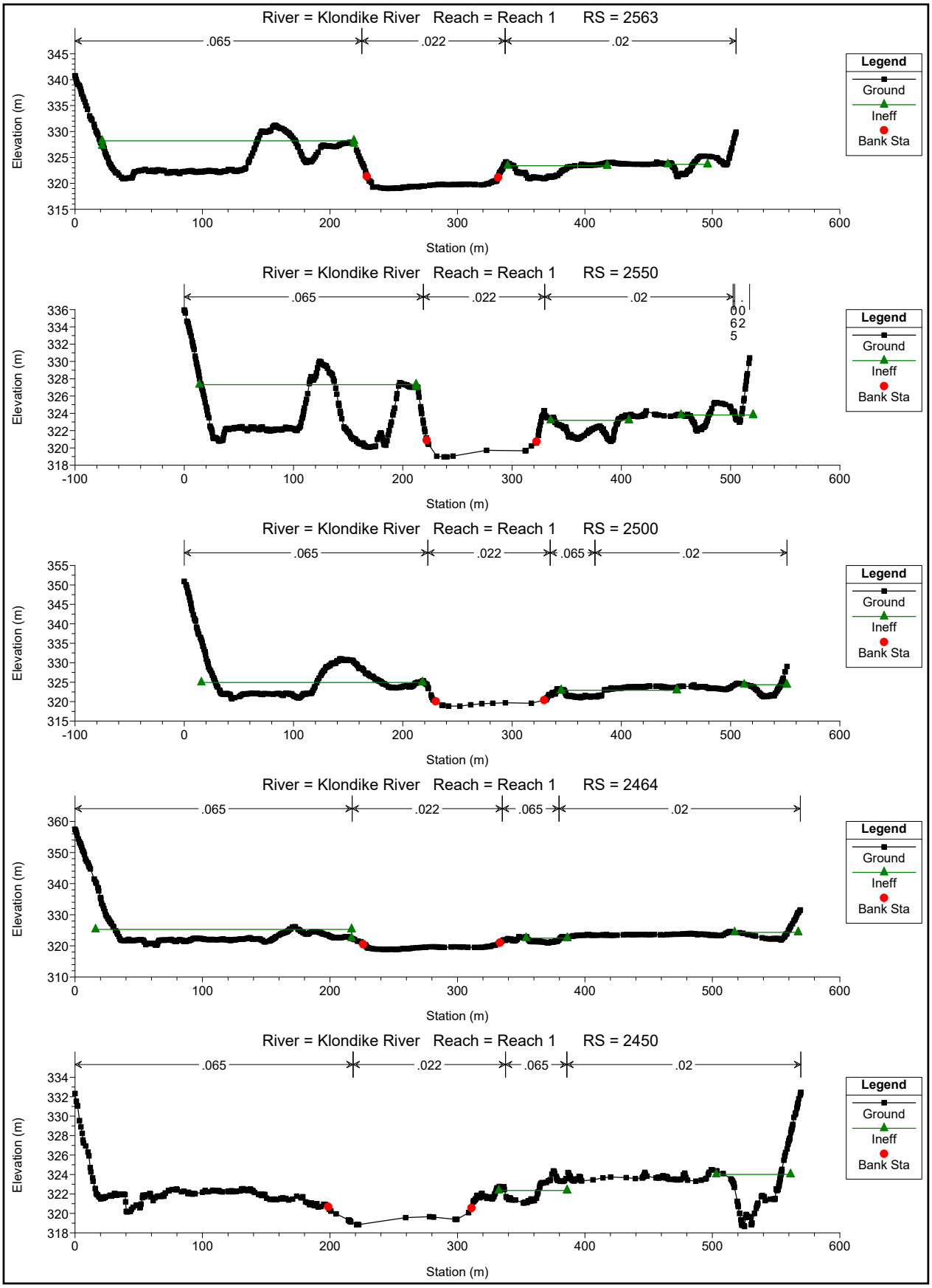

River = Klondike River Reach = Reach 1 RS = 4150
.065
.1
.02
.1
.033
.065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 3843
.065
.1
.02
.1
.033
.065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 3700
.065
.1
.02
.1
.033
.065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 3600
.065
.1
.02
.1
.065
.033
.065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 3500
.065
.1
.02
.1
.065
.033
.065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta

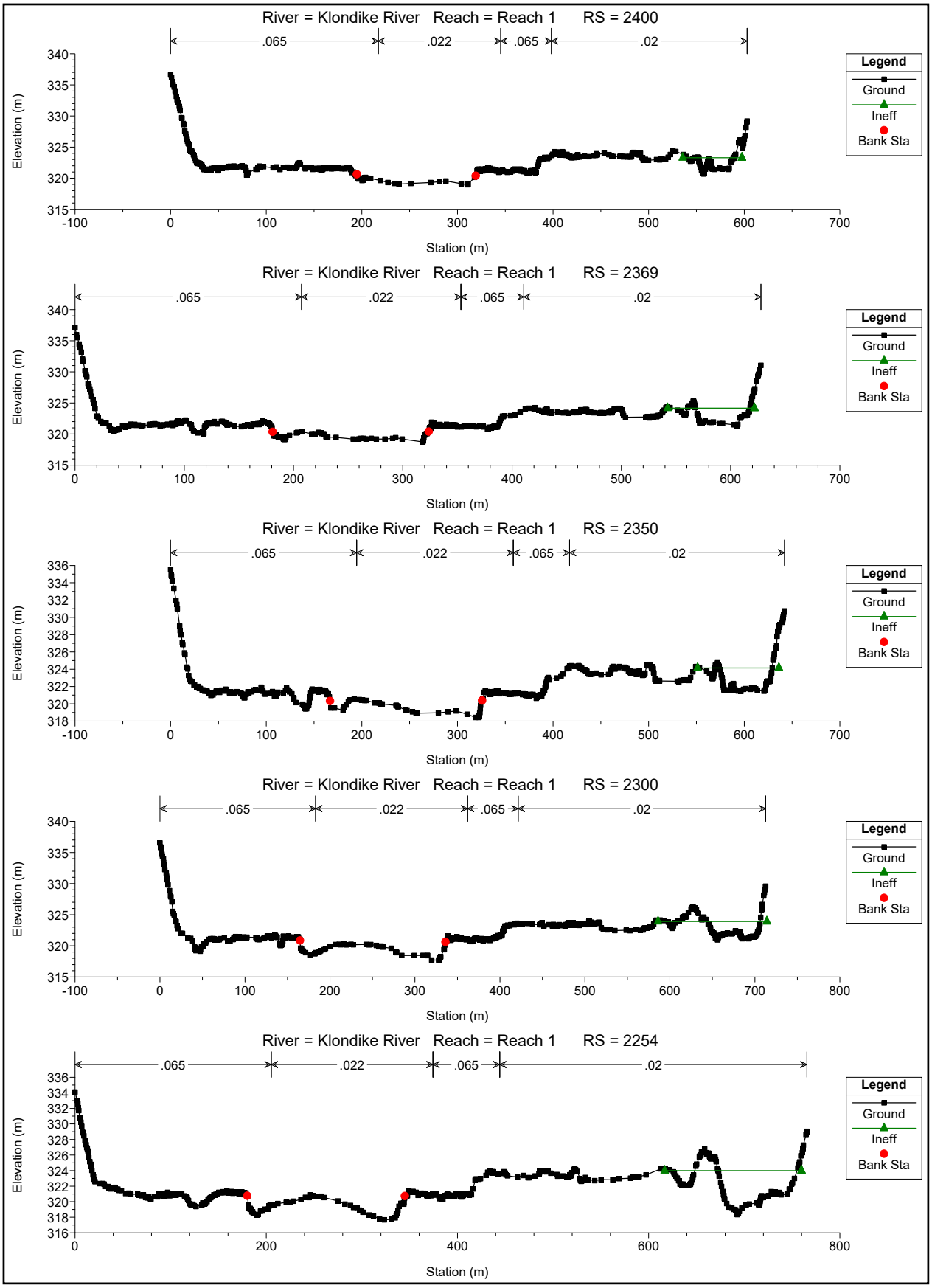

River = Klondike River Reach = Reach 1 RS = 3450
.065
.1
.02
.1
.065
.033
.065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 3400
.065
.1
.02
.1
.065
.033
.065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 3350
.065
.1
.02
.1
.033
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 3300
.065
.1
.02
.1
.033
.02
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 3275
.065
.1
.02
.1
.033
.02
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta

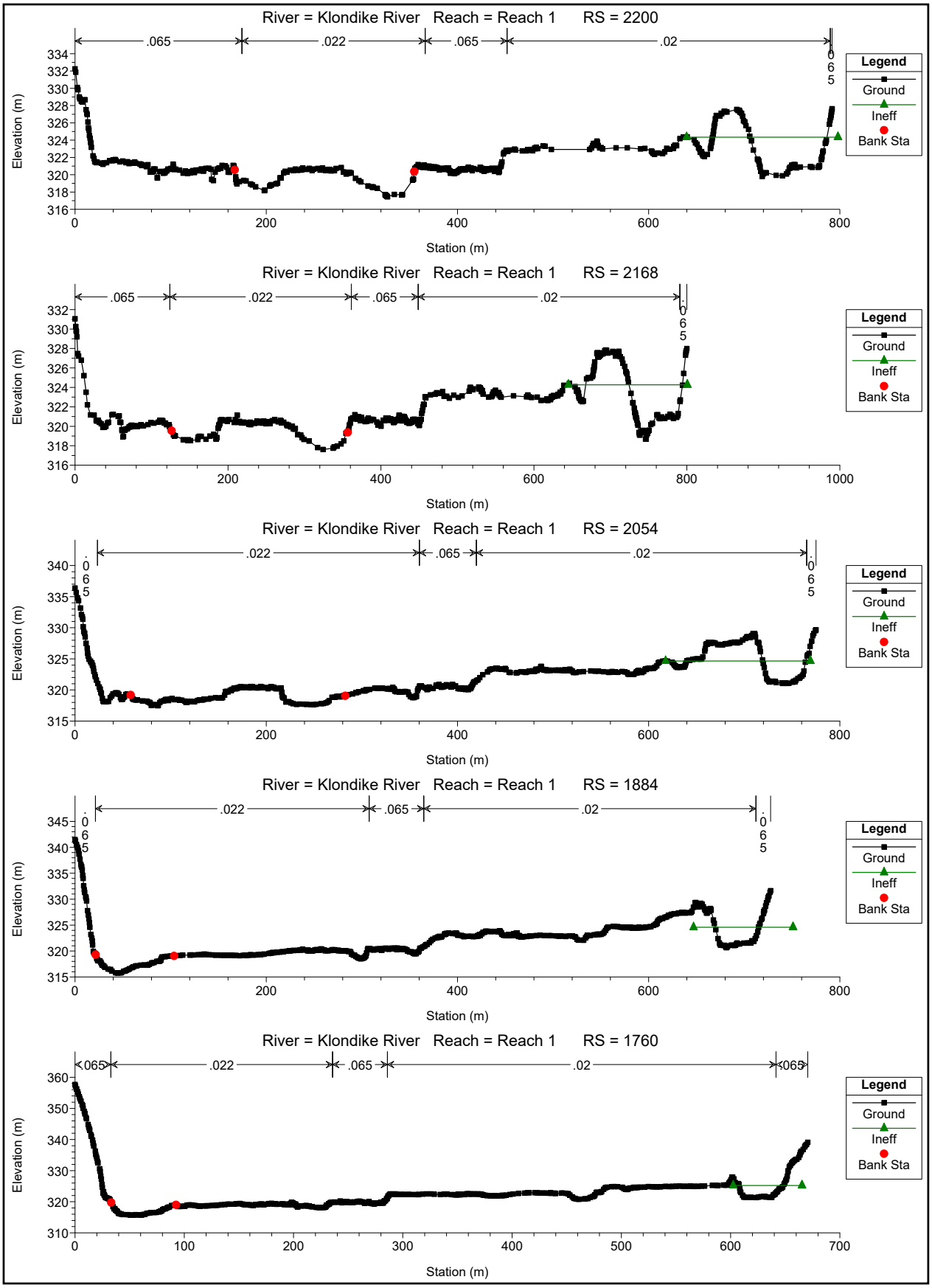

River = Klondike River Reach = Reach 1 RS = 3250
.065
.1
.02
.1
.022
.02
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 3150
.1
.02
.1
.022
.02
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 3037
.1
.02
.065
.022
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 2965
.1
.02
.065
.022
.065
.02
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 2946 BR Bonaza Bridge
.1
.02
.065
.022
.065
.02
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta

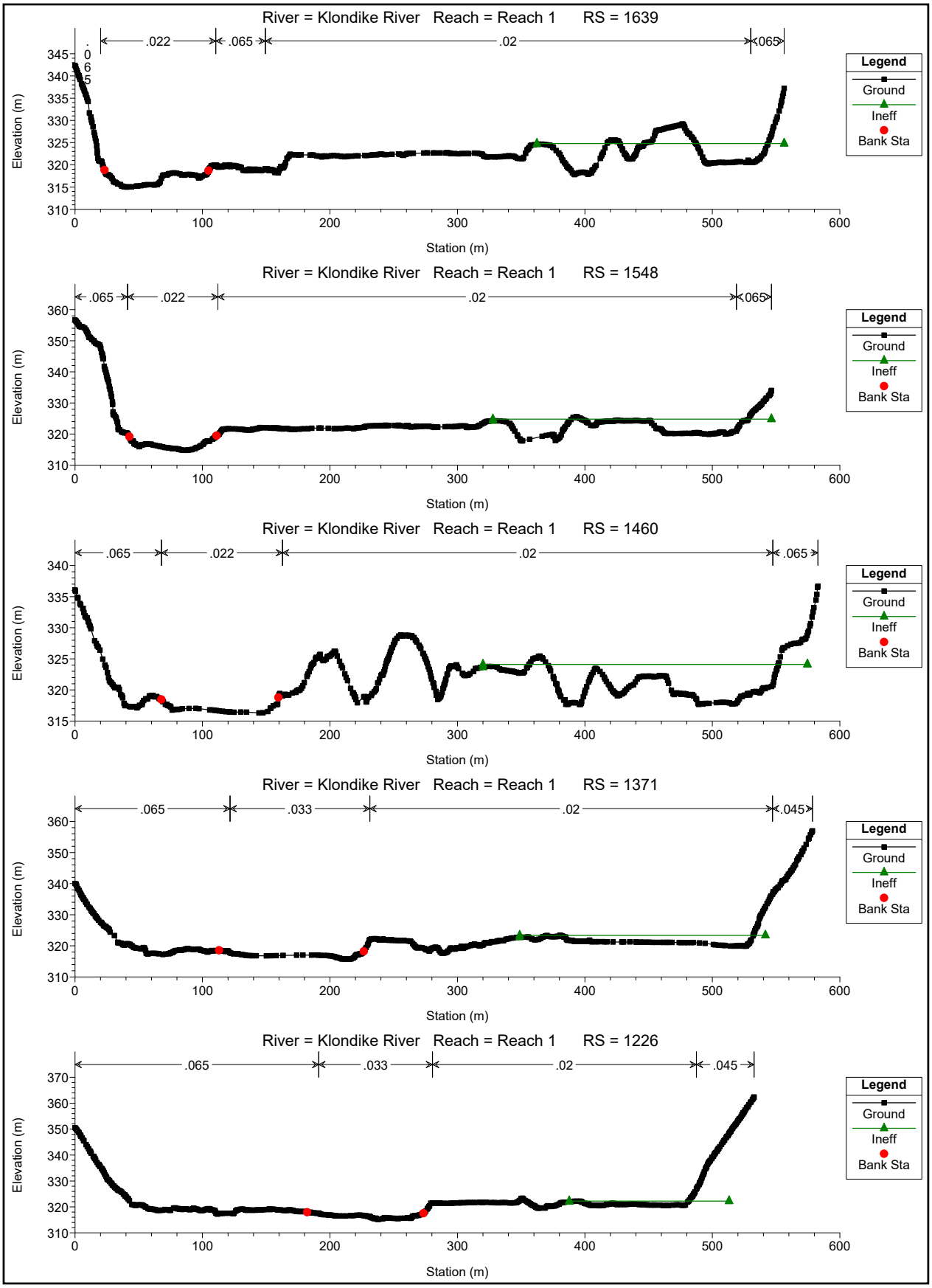

River = Klondike River Reach = Reach 1 RS = 2946 BR Bonaza Bridge
.065
.1
.022
.02
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 2919
River = Klondike River Reach = Reach 1 RS = 2850
River = Klondike River Reach = Reach 1 RS = 2800
River = Klondike River Reach = Reach 1 RS = 2770


River = Klondike River Reach = Reach 1 RS = 2750
.065
.022
.02
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 2700
River = Klondike River Reach = Reach 1 RS = 2666
River = Klondike River Reach = Reach 1 RS = 2650
River = Klondike River Reach = Reach 1 RS = 2600


River = Klondike River Reach = Reach 1 RS = 2563
.065
.022
.02
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 2550
.065
.022
.02
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 2500
.065
.022
.065
.02
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 2464
.065
.022
.065
.02
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 2450
.065
.022
.065
.02
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta


River = Klondike River Reach = Reach 1 RS = 2400
.065
.022
.065
.02
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 2369
River = Klondike River Reach = Reach 1 RS = 2350
River = Klondike River Reach = Reach 1 RS = 2300
River = Klondike River Reach = Reach 1 RS = 2254


River = Klondike River Reach = Reach 1 RS = 2200
.065
.022
.065
.02
.065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 2168
.065
.022
.065
.02
.065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 2054
.065
.022
.065
.02
.065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 1884
.065
.022
.065
.02
.065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 1760
.065
.022
.065
.02
.065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta


River = Klondike River Reach = Reach 1 RS = 1639
.065
.022
.065
.02
.065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 1548
.065
.022
.02
.065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 1460
.065
.022
.02
.065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 1371
.065
.033
.02
.045
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 1226
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.033
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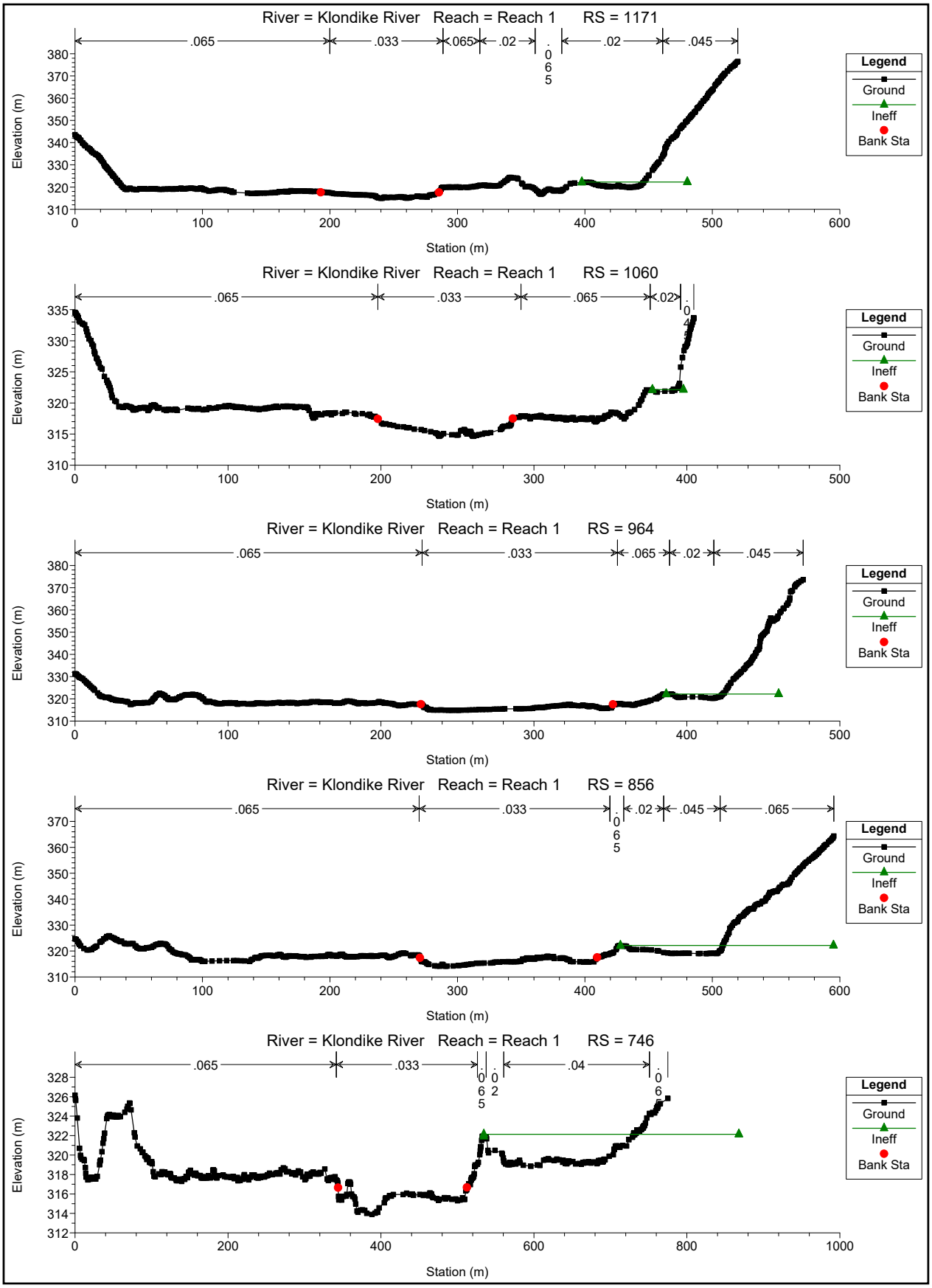
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta


River = Klondike River Reach = Reach 1 RS = 1171
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.033
.065
.02
.065
.02
.045
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 1060
.065
.033
.065
.02
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 964
.065
.033
.065
.02
.045
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 856
.065
.033
.065
.02
.045
.065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Klondike River Reach = Reach 1 RS = 746
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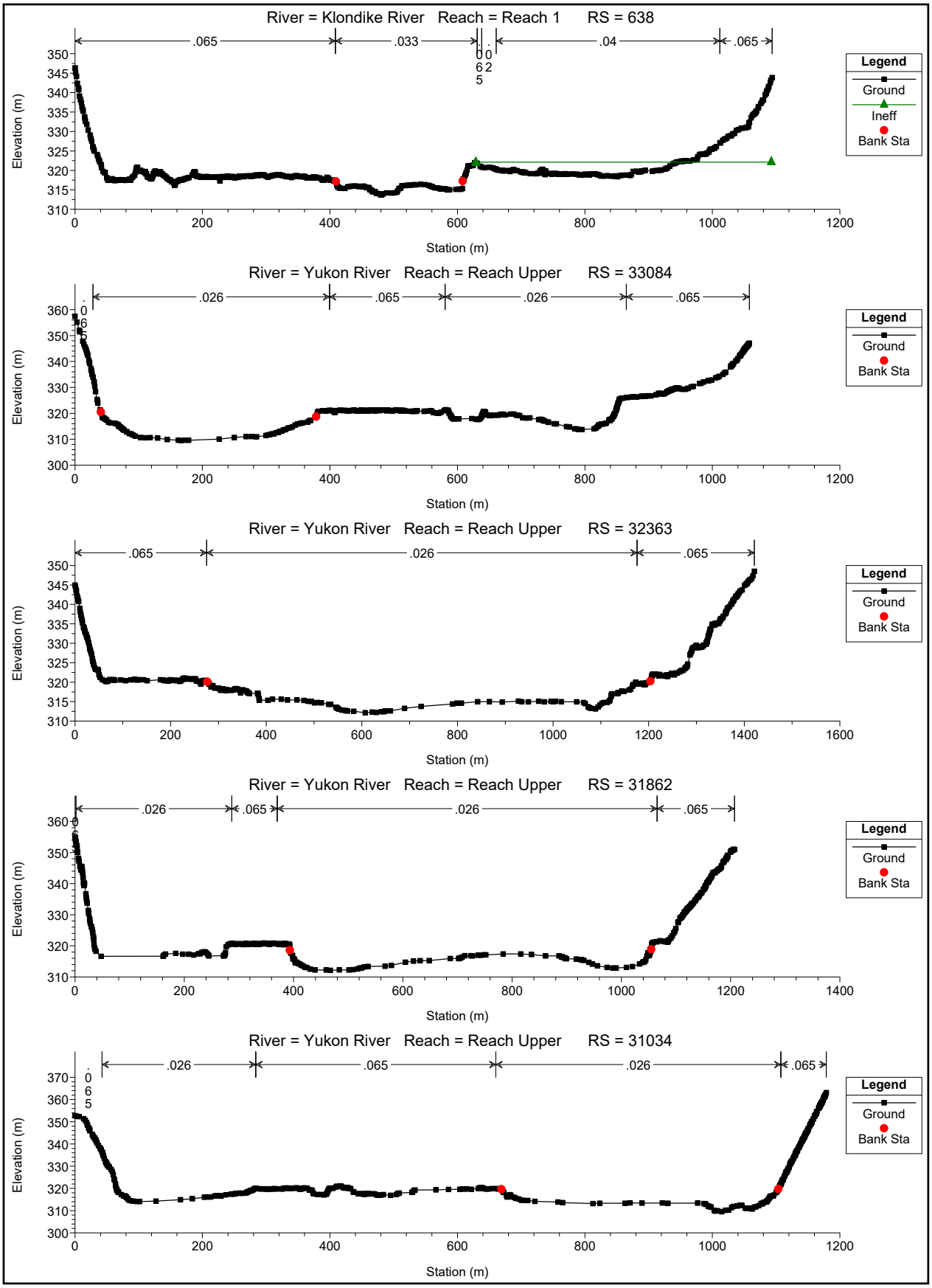
.033
.04
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta


River = Klondike River Reach = Reach 1 RS = 638
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.033
.04
.065
Legend
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)
River = Yukon River Reach = Reach Upper RS = 33084
.026
.065
.026
.065
Legend
Ground
Bank Sta
Elevation (m)
Station (m)
River = Yukon River Reach = Reach Upper RS = 32363
.065
.026
.065
Legend
Ground
Bank Sta
Elevation (m)
Station (m)
River = Yukon River Reach = Reach Upper RS = 31862
.026
.065
.026
.065
Legend
Ground
Bank Sta
Elevation (m)
Station (m)
River = Yukon River Reach = Reach Upper RS = 31034
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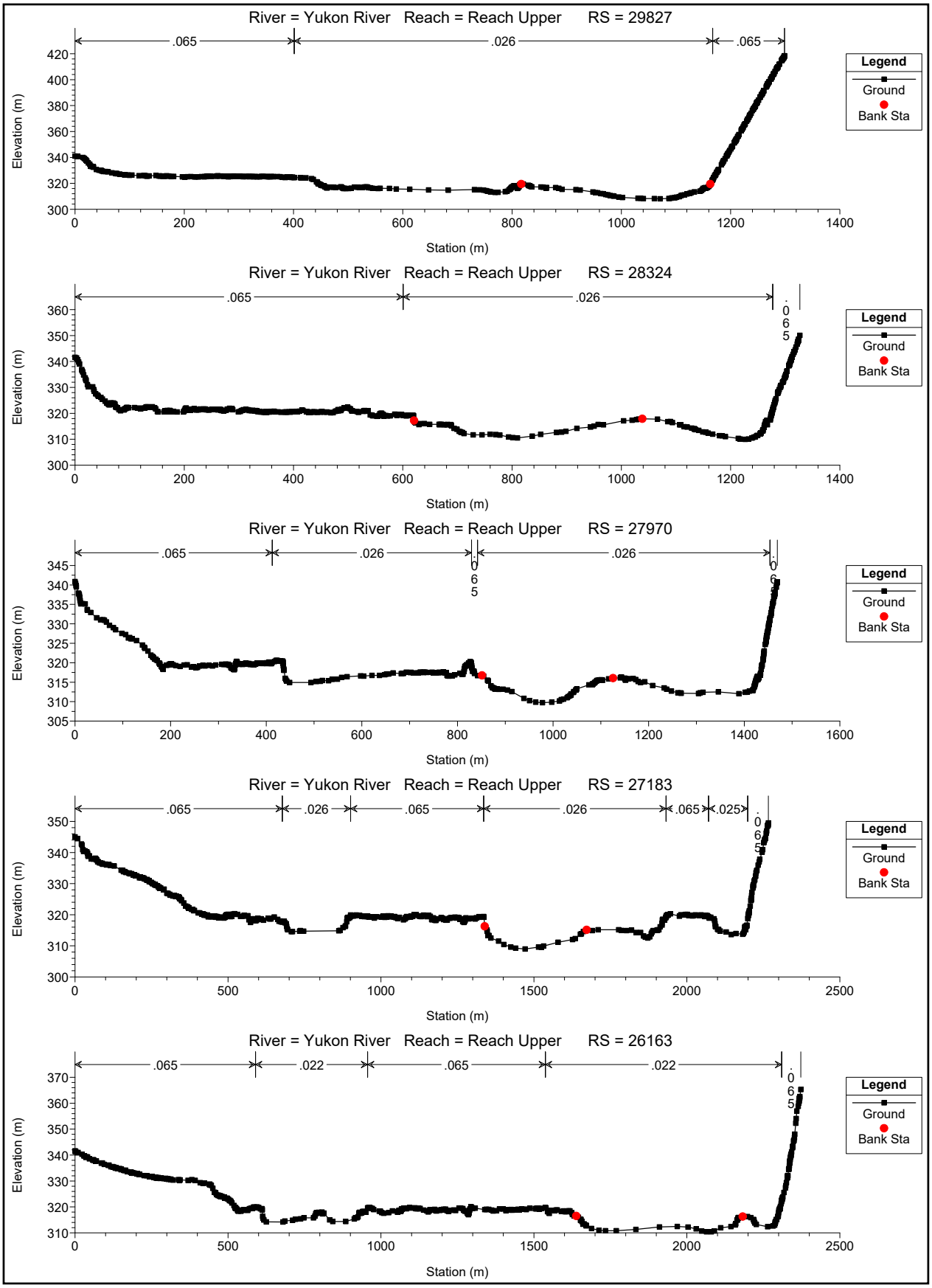
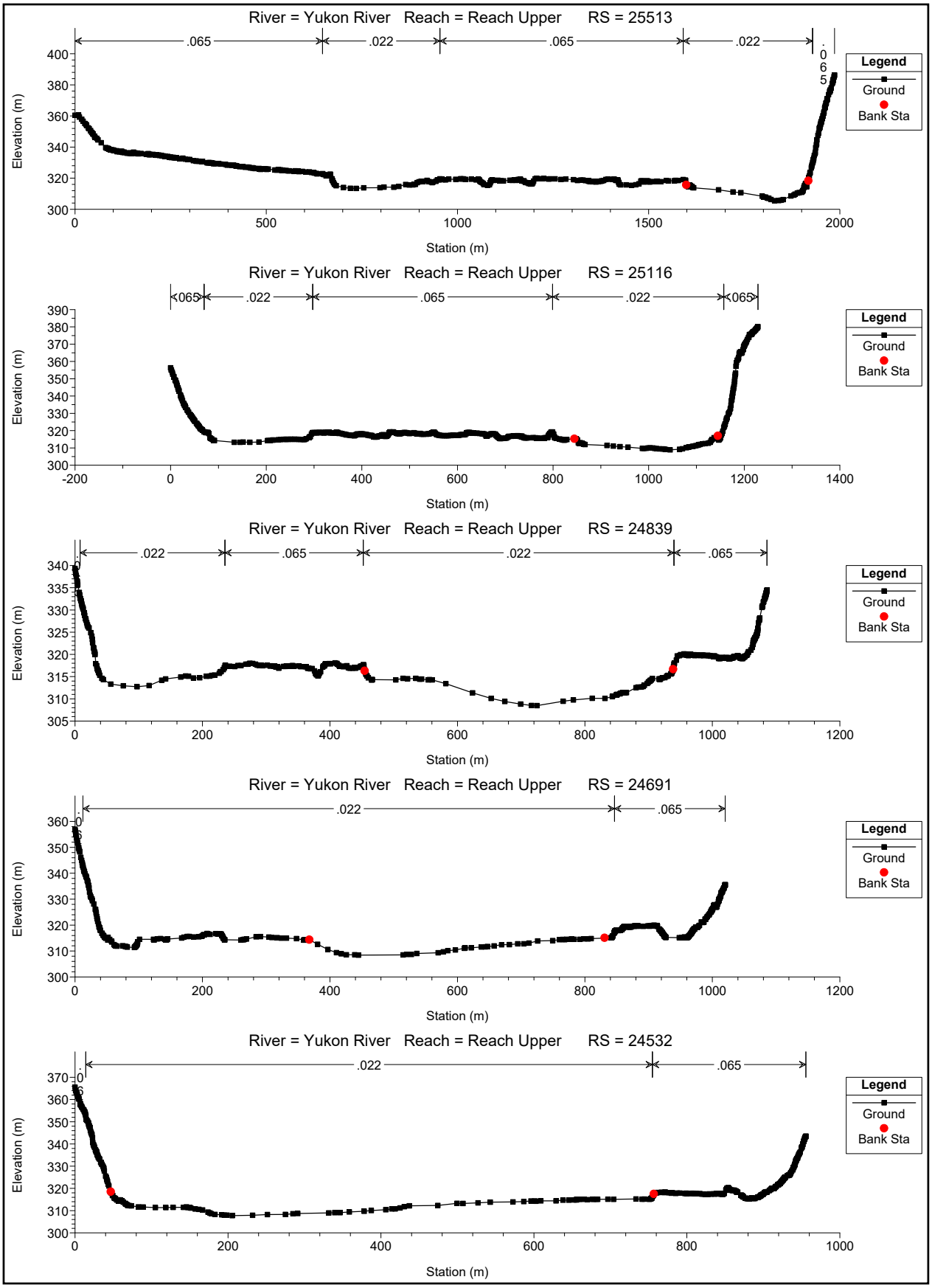
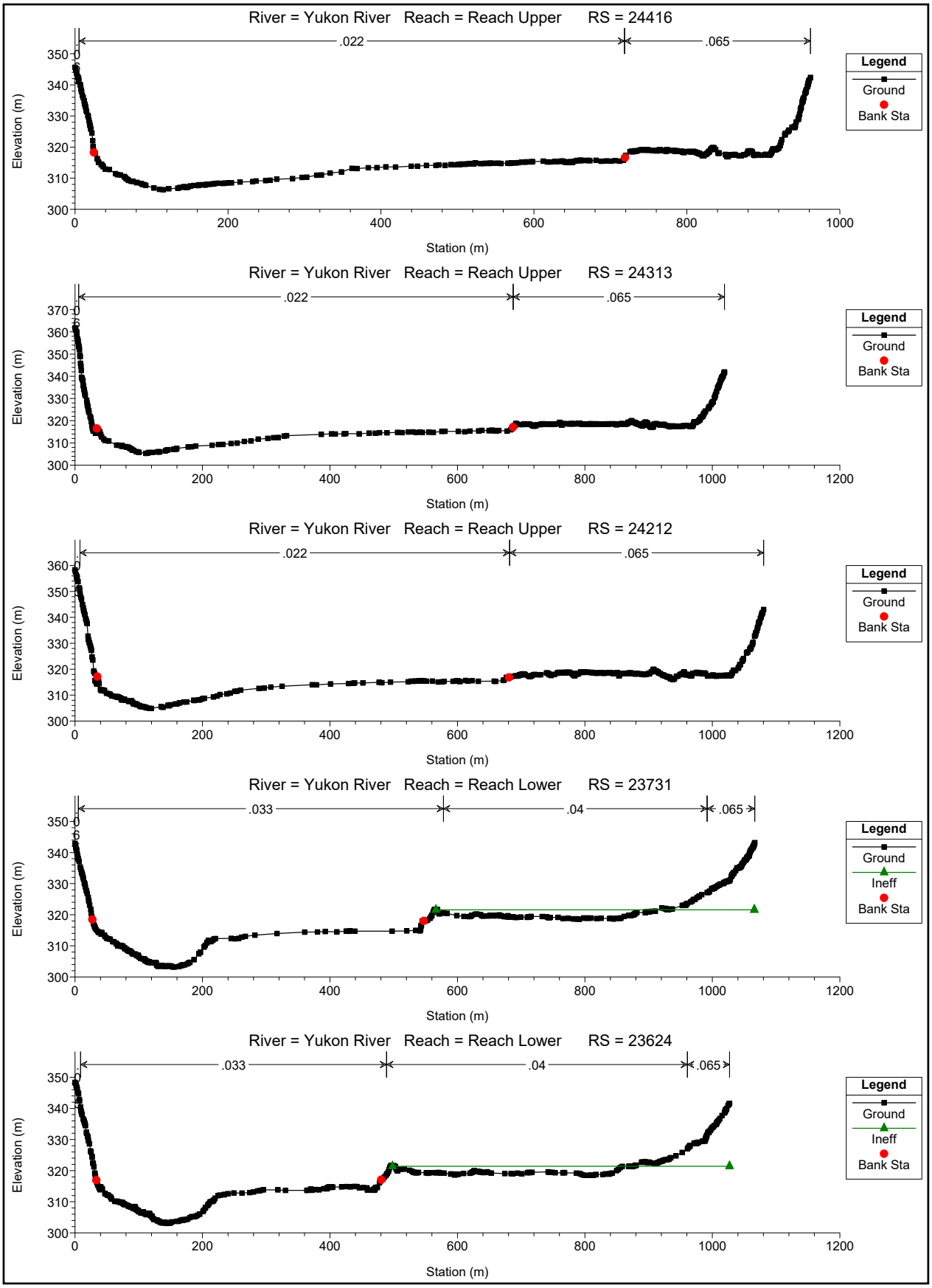
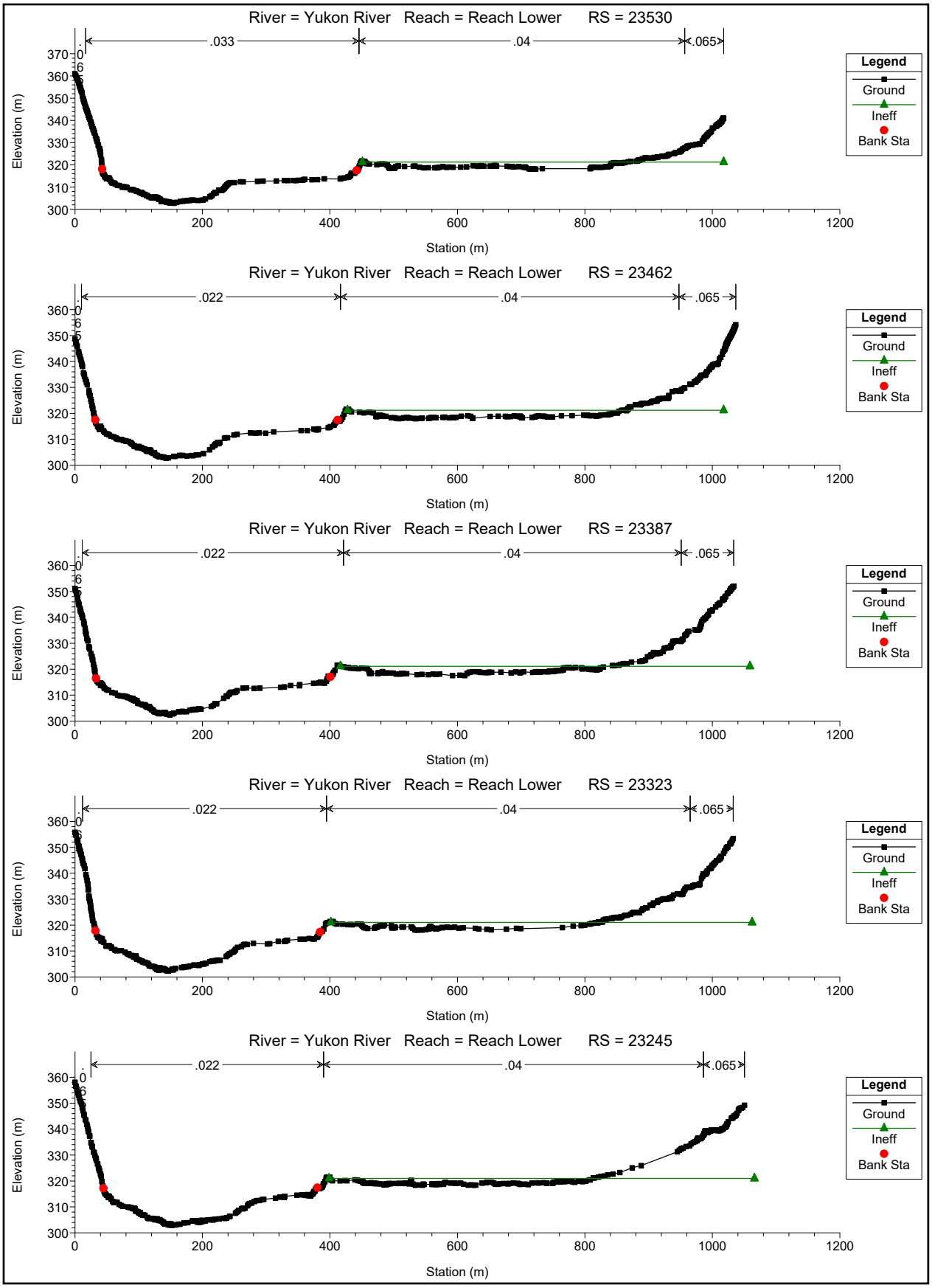
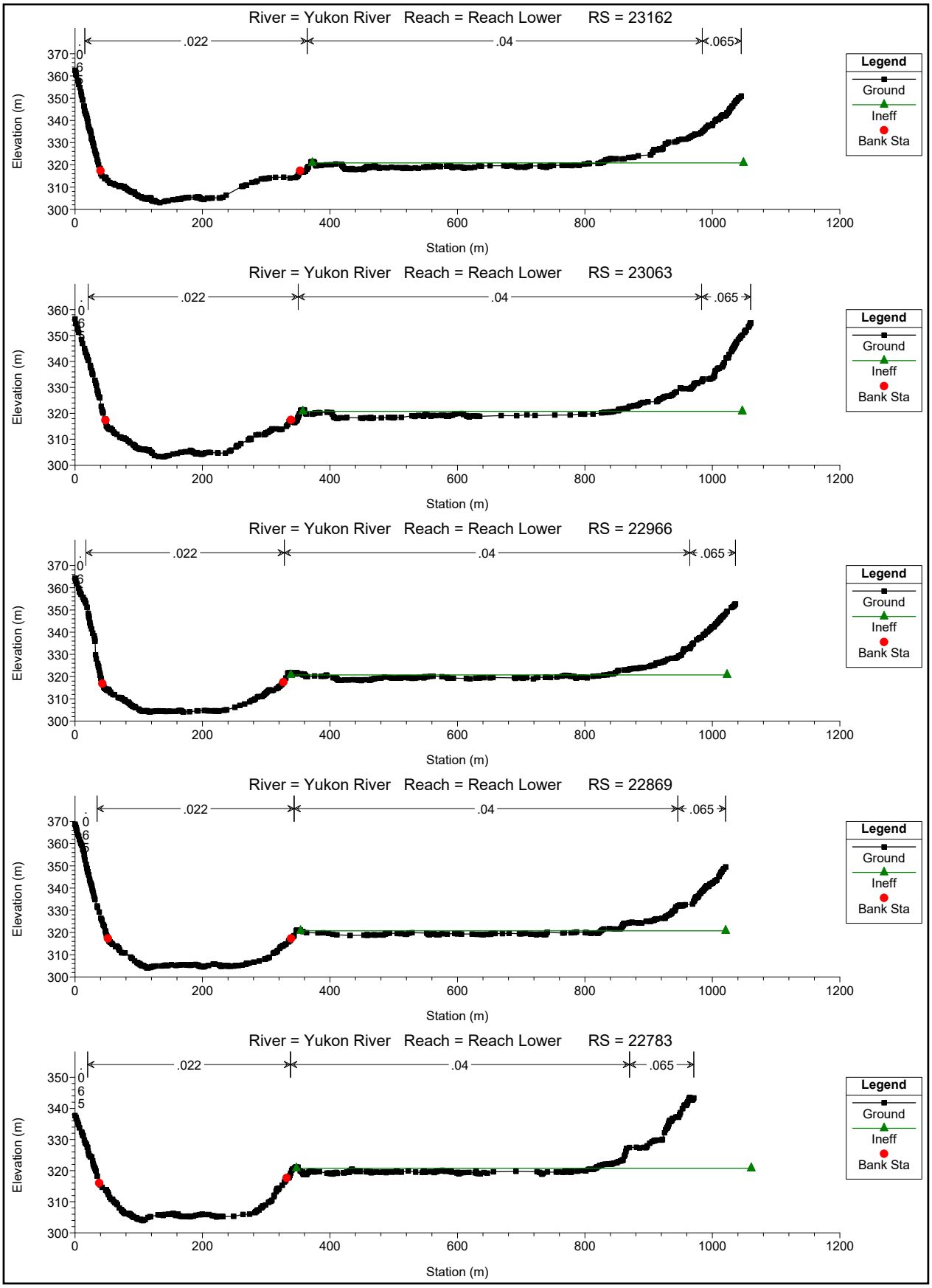
.026
.065
Legend
Ground
Bank Sta
Elevation (m)
Station (m)

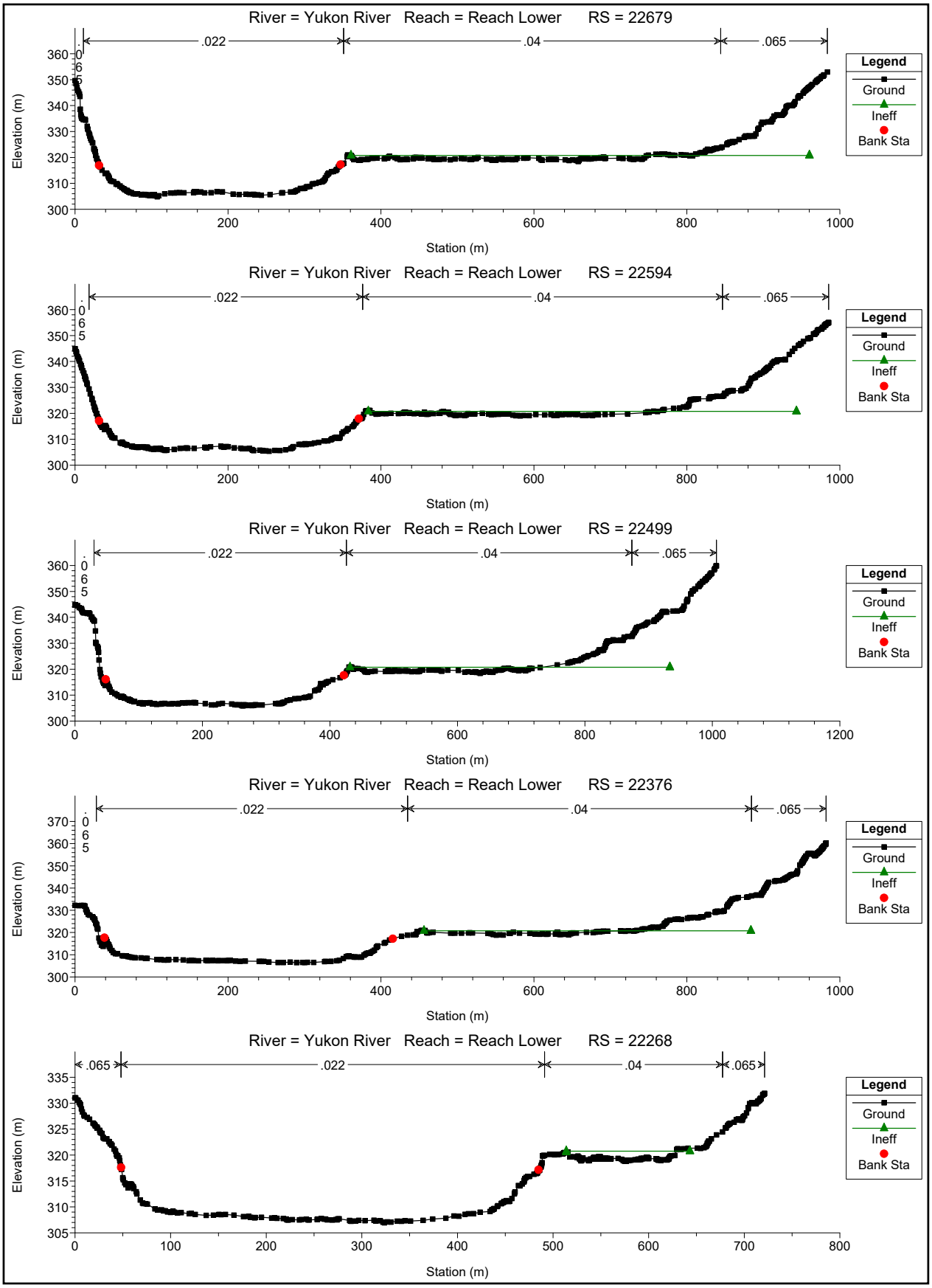

River = Yukon River Reach = Reach Upper RS = 29827
.065
.026
.065
Elevation (m)
Station (m)
Legend
Ground
Bank Sta
River = Yukon River Reach = Reach Upper RS = 28324
.065
.026
.065
Elevation (m)
Station (m)
Legend
Ground
Bank Sta
River = Yukon River Reach = Reach Upper RS = 27970
.065
.026
.065
.026
.065
Elevation (m)
Station (m)
Legend
Ground
Bank Sta
River = Yukon River Reach = Reach Upper RS = 27183
.065
.026
.065
.026
.065
.025
.065
Elevation (m)
Station (m)
Legend
Ground
Bank Sta
River = Yukon River Reach = Reach Upper RS = 26163
.065
.022
.065
.022
.065
Elevation (m)
Station (m)
Legend
Ground
Bank Sta

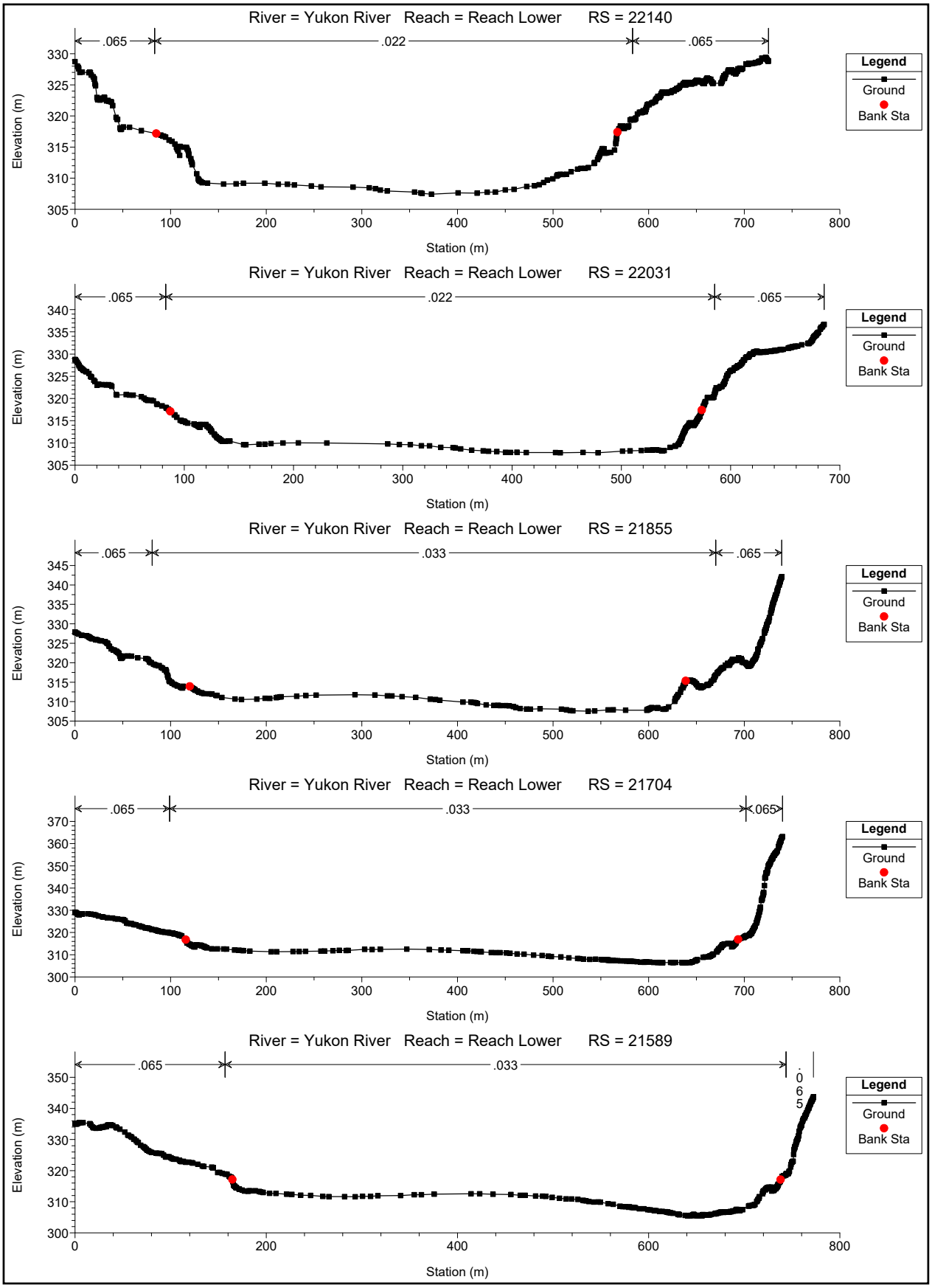

River = Yukon River Reach = Reach Upper RS = 25513
.065
.022
.065
.022
.065
Legend
Ground
Bank Sta
Elevation (m)
Station (m)
River = Yukon River Reach = Reach Upper RS = 25116
.065
.022
.065
.022
.065
Legend
Ground
Bank Sta
Elevation (m)
Station (m)
River = Yukon River Reach = Reach Upper RS = 24839
.022
.065
.022
.065
Legend
Ground
Bank Sta
Elevation (m)
Station (m)
River = Yukon River Reach = Reach Upper RS = 24691
.022
.065
Legend
Ground
Bank Sta
Elevation (m)
Station (m)
River = Yukon River Reach = Reach Upper RS = 24532
.022
.065
Legend
Ground
Bank Sta
Elevation (m)
Station (m)

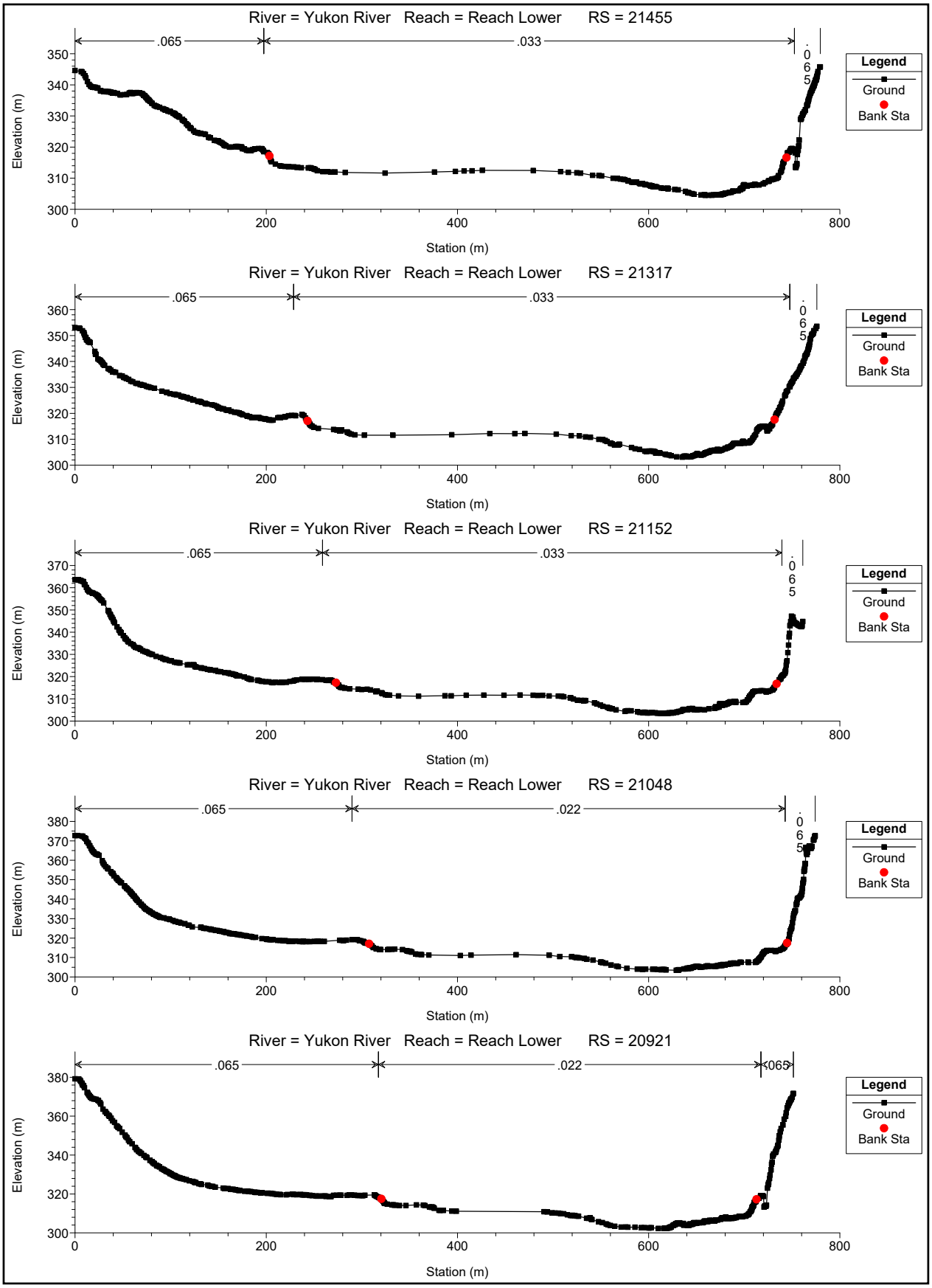

River = Yukon River Reach = Reach Upper RS = 24416
.022
.065
Elevation (m)
Station (m)
Legend
Ground
Bank Sta
River = Yukon River Reach = Reach Upper RS = 24313
.022
.065
Elevation (m)
Station (m)
Legend
Ground
Bank Sta
River = Yukon River Reach = Reach Upper RS = 24212
.022
.065
Elevation (m)
Station (m)
Legend
Ground
Bank Sta
River = Yukon River Reach = Reach Lower RS = 23731
.033
.04
.065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Yukon River Reach = Reach Lower RS = 23624
.033
.04
.065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta

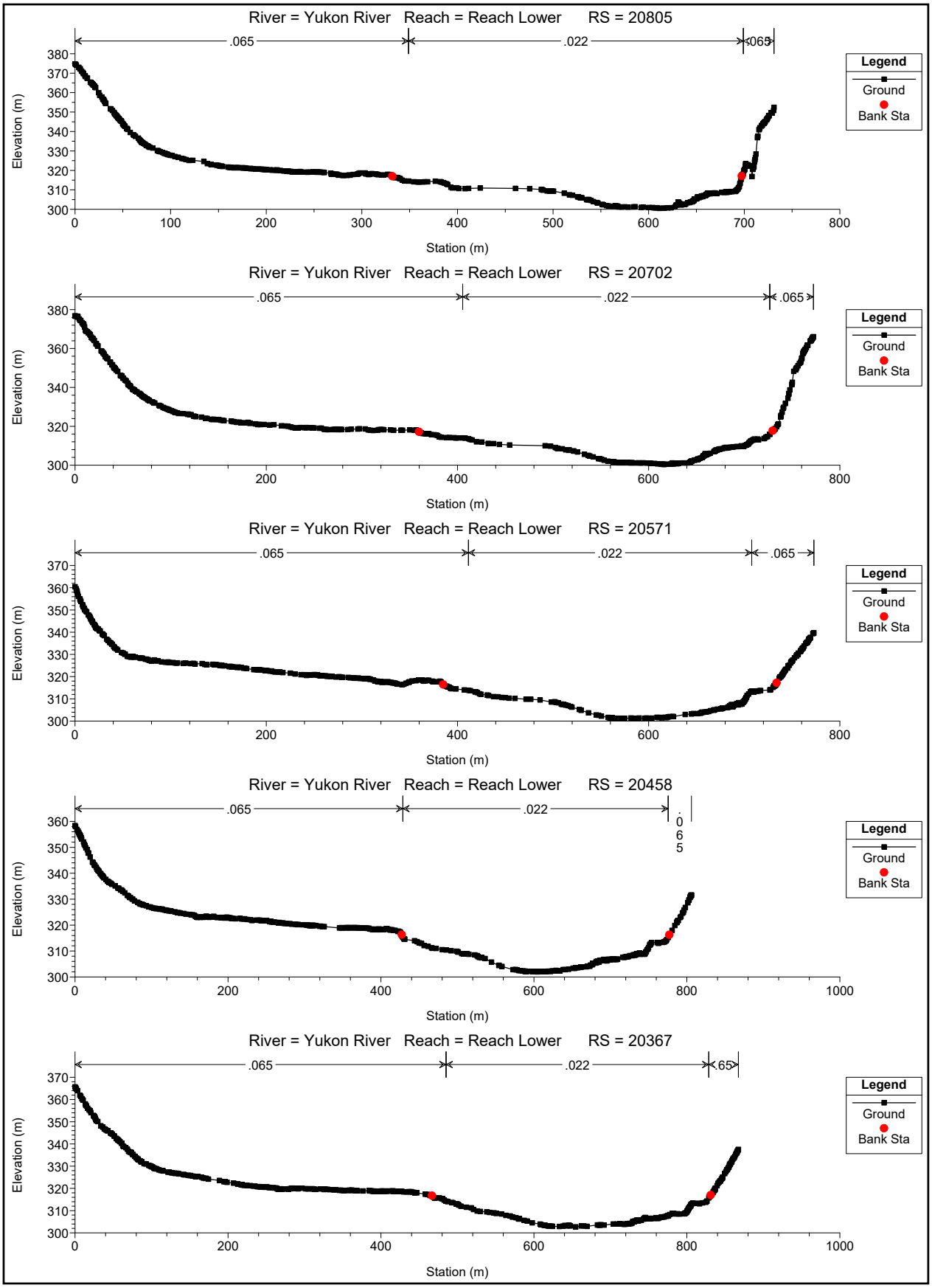

River = Yukon River Reach = Reach Lower RS = 23530
.033
.04
.065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Yukon River Reach = Reach Lower RS = 23462
.022
.04
.065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Yukon River Reach = Reach Lower RS = 23387
.022
.04
.065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Yukon River Reach = Reach Lower RS = 23323
.022
.04
.065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Yukon River Reach = Reach Lower RS = 23245
.022
.04
.065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta


River = Yukon River Reach = Reach Lower RS = 23162
.022
.04
.065
Legend
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)
River = Yukon River Reach = Reach Lower RS = 23063
.022
.04
.065
Legend
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)
River = Yukon River Reach = Reach Lower RS = 22966
.022
.04
.065
Legend
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)
River = Yukon River Reach = Reach Lower RS = 22869
.022
.04
.065
Legend
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)
River = Yukon River Reach = Reach Lower RS = 22783
.022
.04
.065
Legend
Ground
Ineff
Bank Sta
Elevation (m)
Station (m)


River = Yukon River Reach = Reach Lower RS = 22679
.065
.022
.04
.065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Yukon River Reach = Reach Lower RS = 22594
.065
.022
.04
.065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Yukon River Reach = Reach Lower RS = 22499
.065
.022
.04
.065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Yukon River Reach = Reach Lower RS = 22376
.065
.022
.04
.065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta
River = Yukon River Reach = Reach Lower RS = 22268
.065
.022
.04
.065
Elevation (m)
Station (m)
Legend
Ground
Ineff
Bank Sta


River = Yukon River Reach = Reach Lower RS = 22140
.065
.022
.065
Elevation (m)
Station (m)
Legend
Ground
Bank Sta
River = Yukon River Reach = Reach Lower RS = 22031
.065
.022
.065
Elevation (m)
Station (m)
Legend
Ground
Bank Sta
River = Yukon River Reach = Reach Lower RS = 21855
.065
.033
.065
Elevation (m)
Station (m)
Legend
Ground
Bank Sta
River = Yukon River Reach = Reach Lower RS = 21704
.065
.033
.065
Elevation (m)
Station (m)
Legend
Ground
Bank Sta
River = Yukon River Reach = Reach Lower RS = 21589
.065
.033
.065
Elevation (m)
Station (m)
Legend
Ground
Bank Sta


River = Yukon River Reach = Reach Lower RS = 21455
.065
.033
.065
Elevation (m)
Station (m)
Legend
Ground
Bank Sta
River = Yukon River Reach = Reach Lower RS = 21317
.065
.033
.065
Elevation (m)
Station (m)
Legend
Ground
Bank Sta
River = Yukon River Reach = Reach Lower RS = 21152
.065
.033
.065
Elevation (m)
Station (m)
Legend
Ground
Bank Sta
River = Yukon River Reach = Reach Lower RS = 21048
.065
.022
.065
Elevation (m)
Station (m)
Legend
Ground
Bank Sta
River = Yukon River Reach = Reach Lower RS = 20921
.065
.022
.065
Elevation (m)
Station (m)
Legend
Ground
Bank Sta


River = Yukon River Reach = Reach Lower RS = 20805
.065
.022
.065
Elevation (m)
Station (m)
Legend
Ground
Bank Sta
River = Yukon River Reach = Reach Lower RS = 20702
.065
.022
.065
Elevation (m)
Station (m)
Legend
Ground
Bank Sta
River = Yukon River Reach = Reach Lower RS = 20571
.065
.022
.065
Elevation (m)
Station (m)
Legend
Ground
Bank Sta
River = Yukon River Reach = Reach Lower RS = 20458
.065
.022
.065
Elevation (m)
Station (m)
Legend
Ground
Bank Sta
River = Yukon River Reach = Reach Lower RS = 20367
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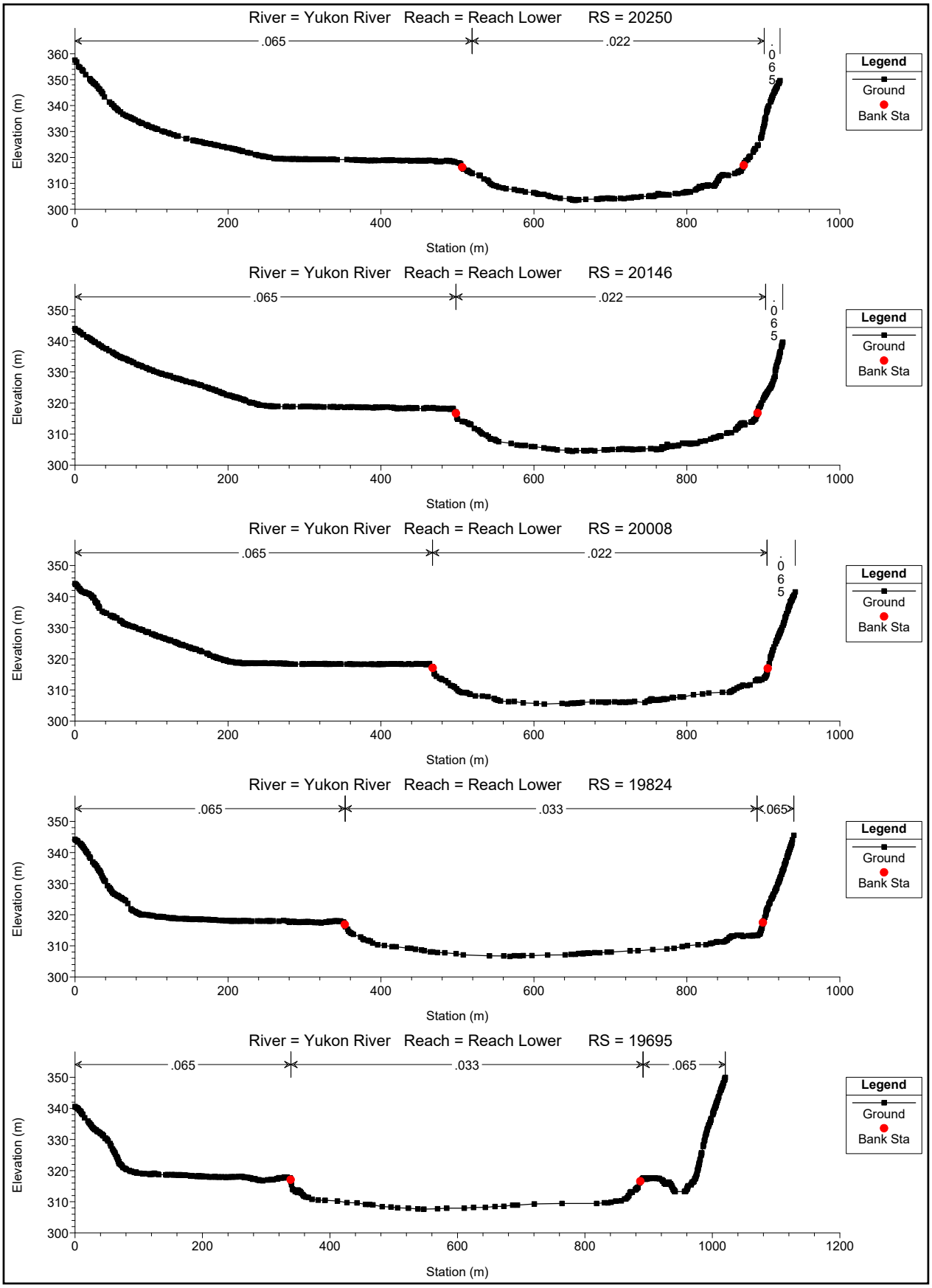
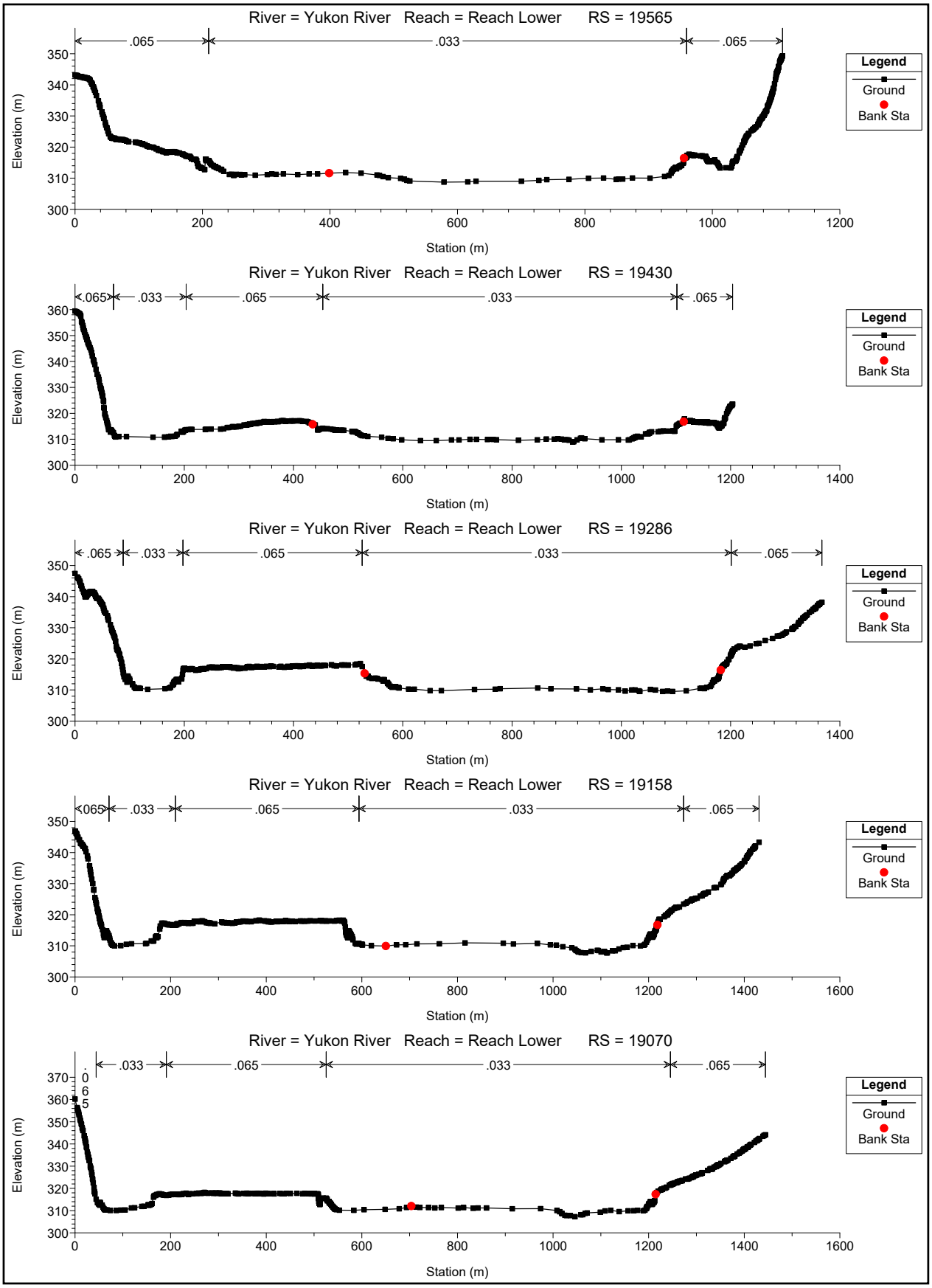
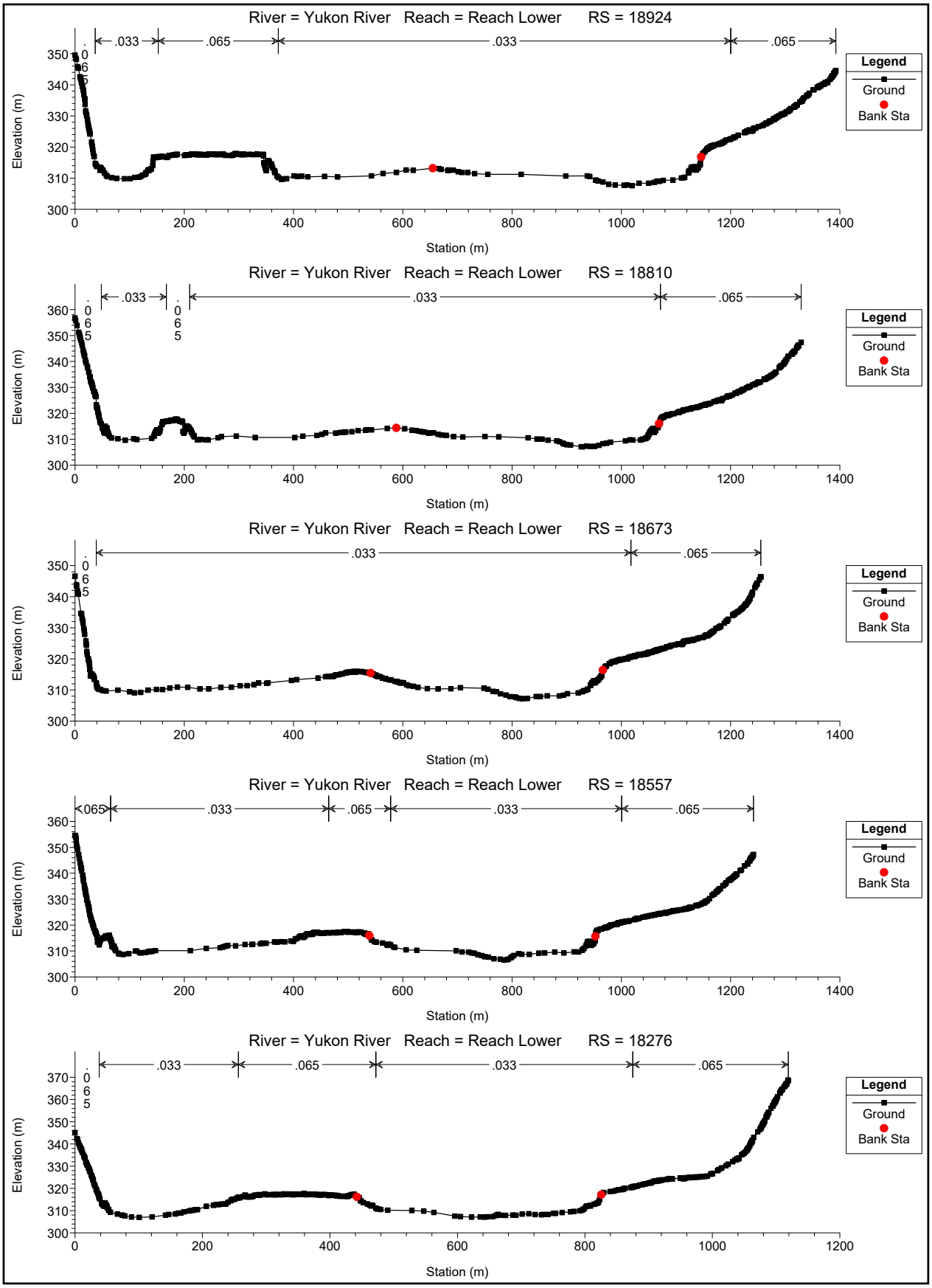
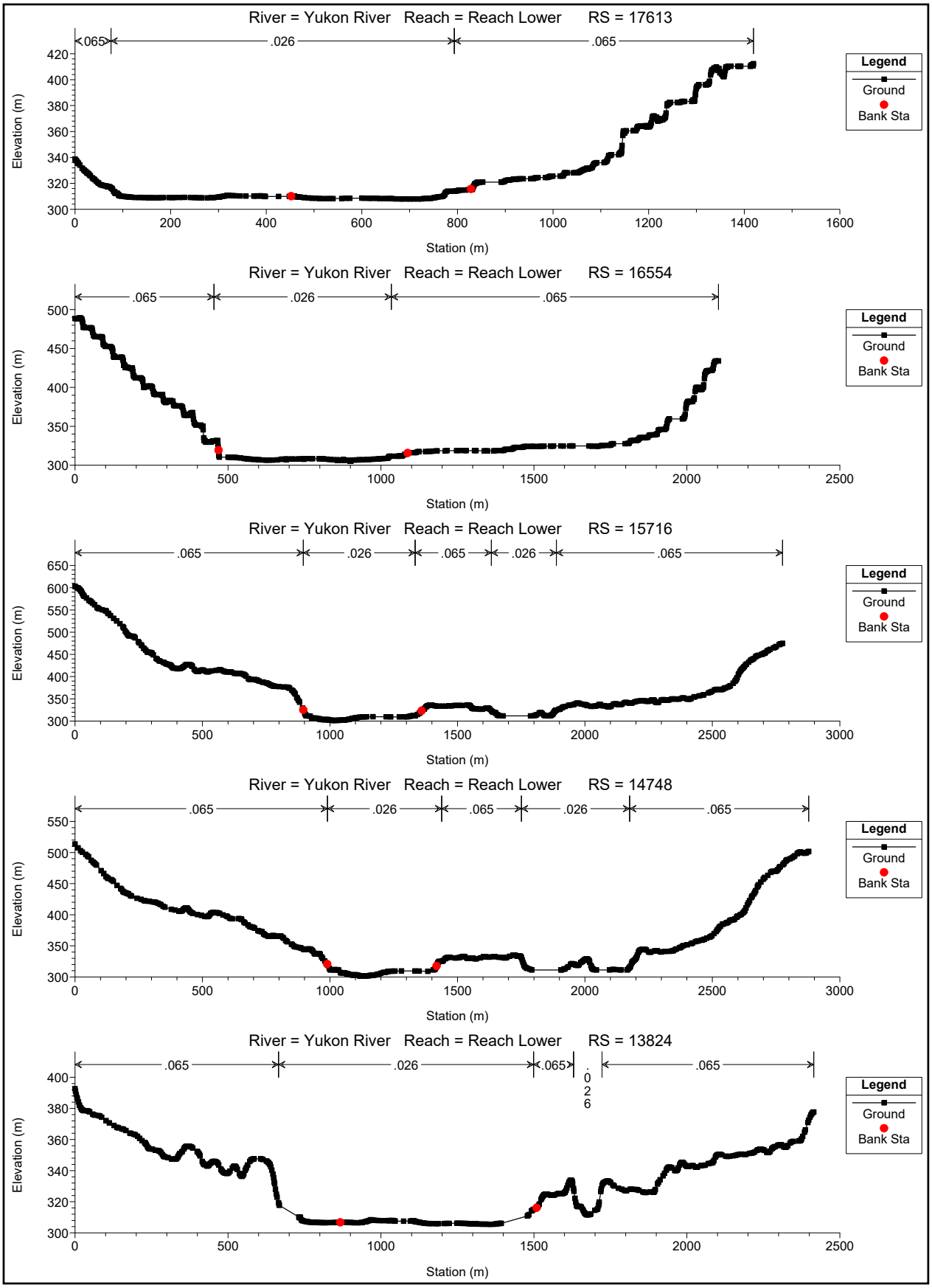
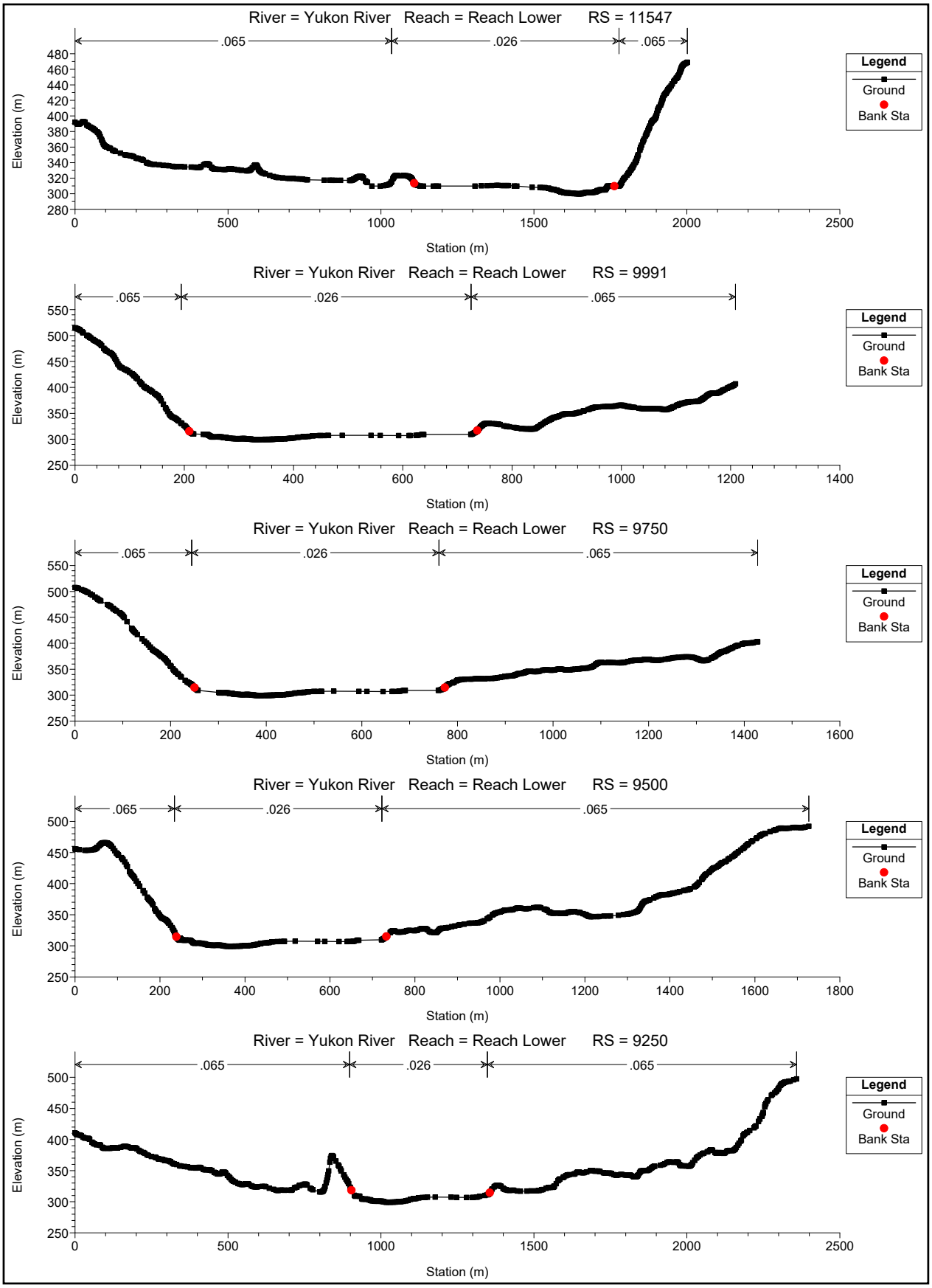
.022
.65
Elevation (m)
Station (m)
Legend
Ground
Bank Sta

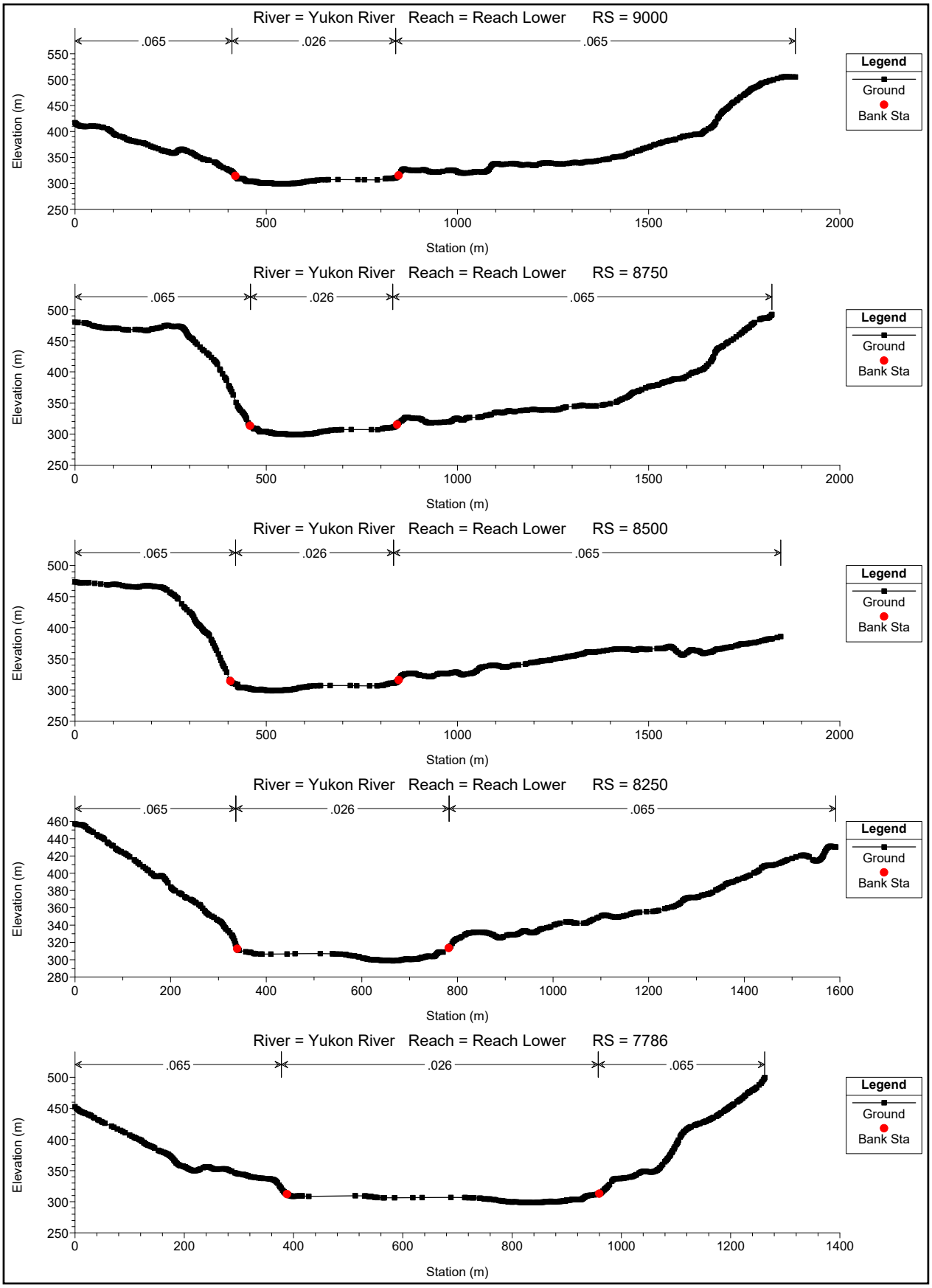

River = Yukon River Reach = Reach Lower RS = 20250
.065
.022
.065
Elevation (m)
Station (m)
Legend
Ground
Bank Sta
River = Yukon River Reach = Reach Lower RS = 20146
.065
.022
.065
Elevation (m)
Station (m)
Legend
Ground
Bank Sta
River = Yukon River Reach = Reach Lower RS = 20008
.065
.022
.065
Elevation (m)
Station (m)
Legend
Ground
Bank Sta
River = Yukon River Reach = Reach Lower RS = 19824
.065
.033
.065
Elevation (m)
Station (m)
Legend
Ground
Bank Sta
River = Yukon River Reach = Reach Lower RS = 19695
.065
.033
.065
Elevation (m)
Station (m)
Legend
Ground
Bank Sta

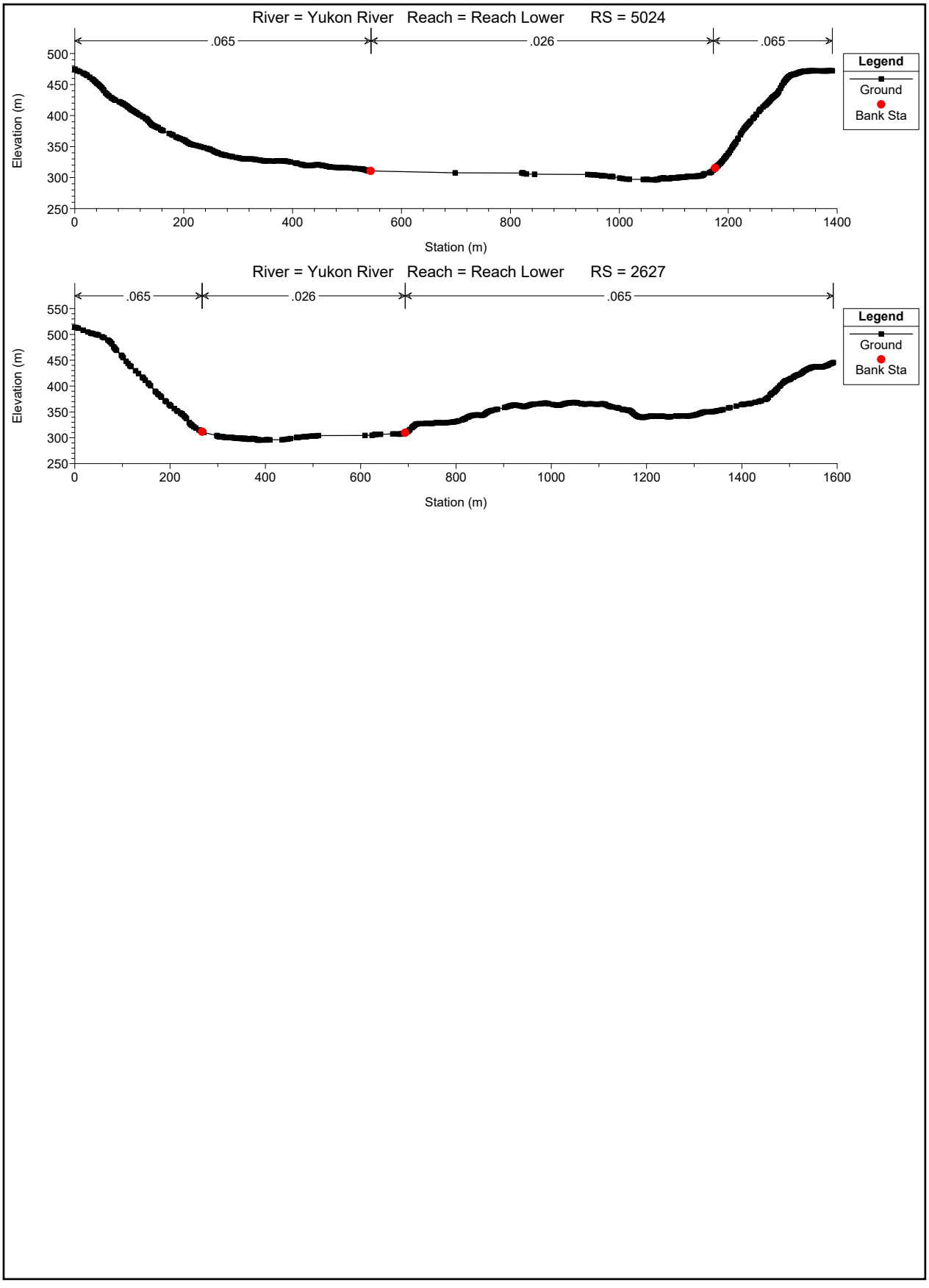

River = Yukon River Reach = Reach Lower RS = 19565
.065
.033
.065
Elevation (m)
Station (m)
Legend
Ground
Bank Sta
River = Yukon River Reach = Reach Lower RS = 19430
.065
.033
.065
.033
.065
Elevation (m)
Station (m)
Legend
Ground
Bank Sta
River = Yukon River Reach = Reach Lower RS = 19286
.065
.033
.065
.033
.065
Elevation (m)
Station (m)
Legend
Ground
Bank Sta
River = Yukon River Reach = Reach Lower RS = 19158
.065
.033
.065
.033
.065
Elevation (m)
Station (m)
Legend
Ground
Bank Sta
River = Yukon River Reach = Reach Lower RS = 19070
.033
.065
.033
.065
.065
Elevation (m)
Station (m)
Legend
Ground
Bank Sta

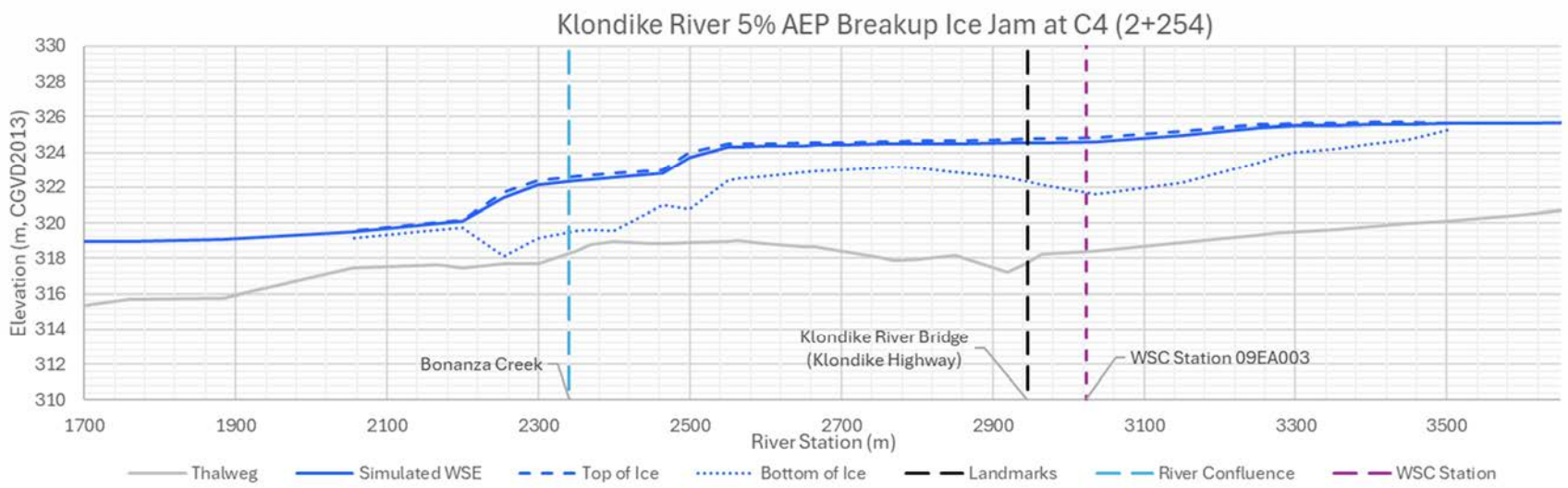

River = Yukon River Reach = Reach Lower RS = 18924
.065
.033
.065
.033
.065
Legend
Ground
Bank Sta
Elevation (m)
Station (m)
River = Yukon River Reach = Reach Lower RS = 18810
.065
.033
.065
.033
.065
Legend
Ground
Bank Sta
Elevation (m)
Station (m)
River = Yukon River Reach = Reach Lower RS = 18673
.065
.033
.065
Legend
Ground
Bank Sta
Elevation (m)
Station (m)
River = Yukon River Reach = Reach Lower RS = 18557
.065
.033
.065
.033
.065
Legend
Ground
Bank Sta
Elevation (m)
Station (m)
River = Yukon River Reach = Reach Lower RS = 18276
.065
.033
.065
.033
.065
Legend
Ground
Bank Sta
Elevation (m)
Station (m)

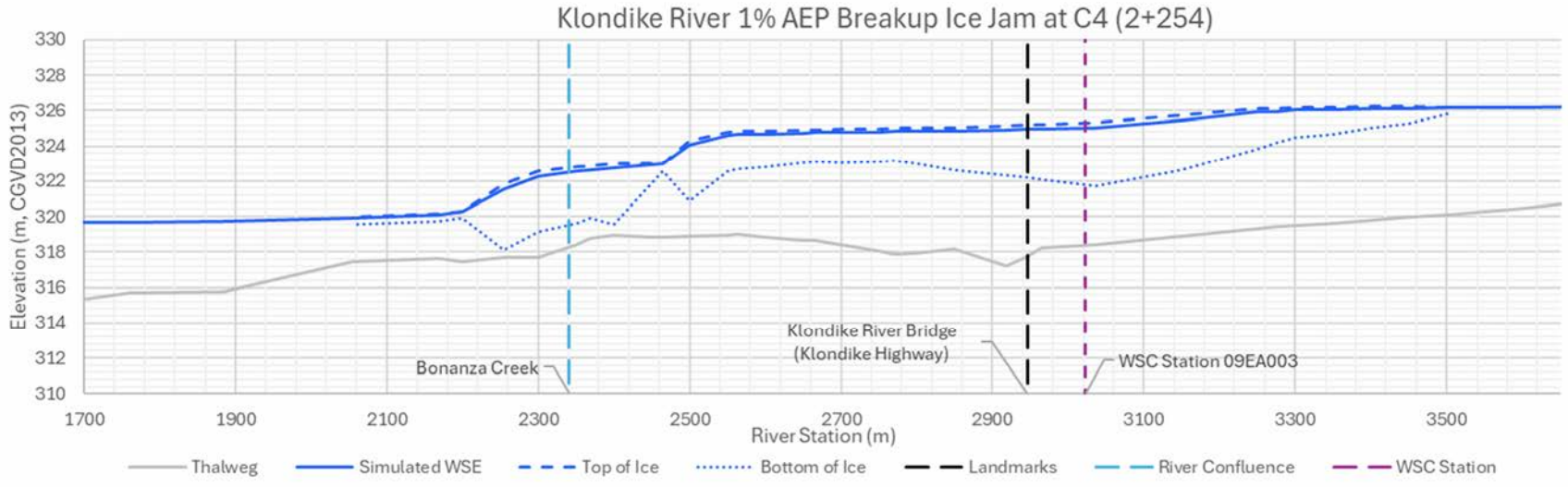

River = Yukon River Reach = Reach Lower RS = 17613
.065
.026
.065
Elevation (m)
Station (m)
Legend
Ground
Bank Sta
River = Yukon River Reach = Reach Lower RS = 16554
.065
.026
.065
Elevation (m)
Station (m)
Legend
Ground
Bank Sta
River = Yukon River Reach = Reach Lower RS = 15716
.065
.026
.065
.026
.065
Elevation (m)
Station (m)
Legend
Ground
Bank Sta
River = Yukon River Reach = Reach Lower RS = 14748
.065
.026
.065
.026
.065
Elevation (m)
Station (m)
Legend
Ground
Bank Sta
River = Yukon River Reach = Reach Lower RS = 13824
.065
.026
.065
.026
.065
Elevation (m)
Station (m)
Legend
Ground
Bank Sta

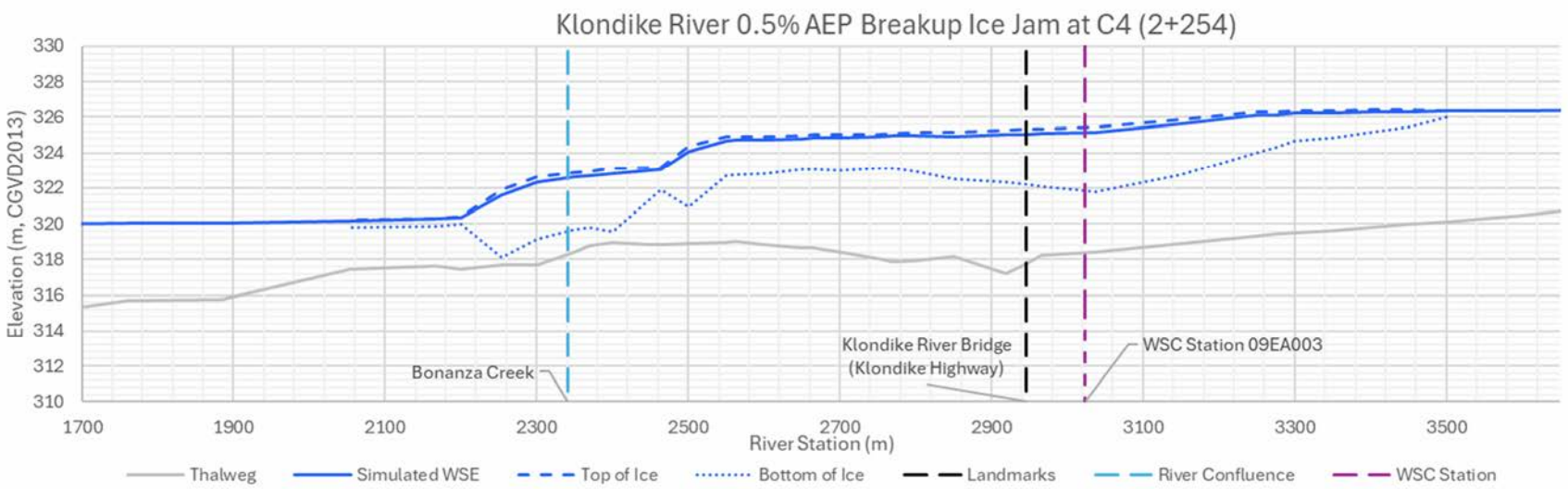

River = Yukon River Reach = Reach Lower RS = 11547
.065
.026
.065
Elevation (m)
Station (m)
Legend
Ground
Bank Sta
River = Yukon River Reach = Reach Lower RS = 9991
.065
.026
.065
Elevation (m)
Station (m)
Legend
Ground
Bank Sta
River = Yukon River Reach = Reach Lower RS = 9750
.065
.026
.065
Elevation (m)
Station (m)
Legend
Ground
Bank Sta
River = Yukon River Reach = Reach Lower RS = 9500
.065
.026
.065
Elevation (m)
Station (m)
Legend
Ground
Bank Sta
River = Yukon River Reach = Reach Lower RS = 9250
.065
.026
.065
Elevation (m)
Station (m)
Legend
Ground
Bank Sta

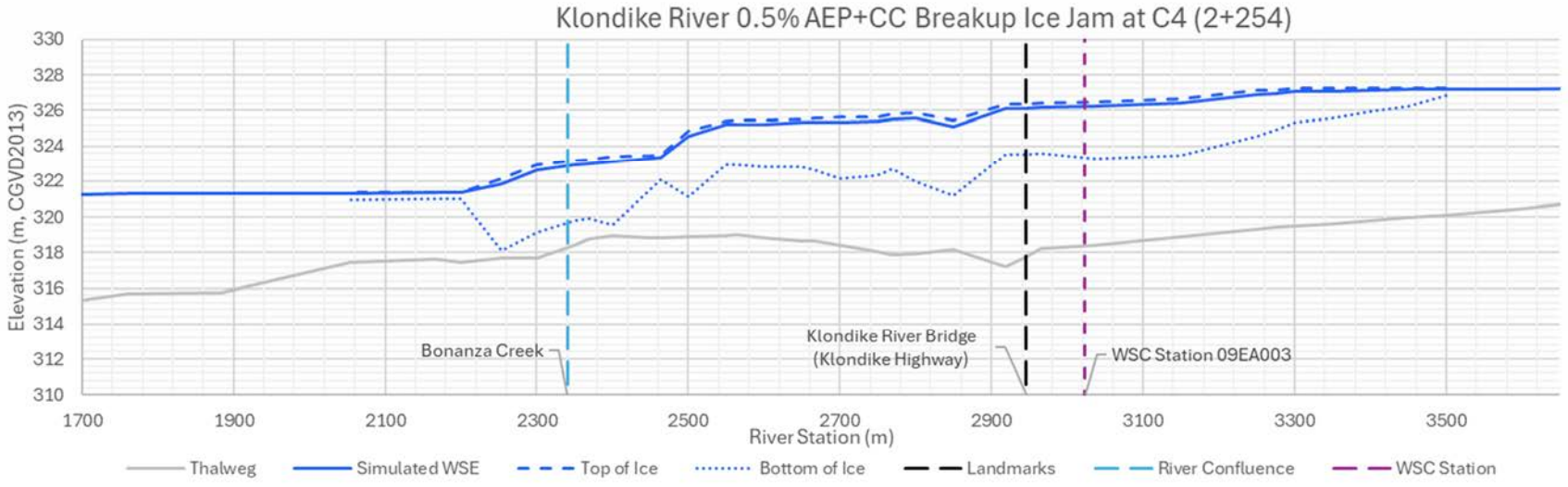

River = Yukon River Reach = Reach Lower RS = 9000
.065
.026
.065
Elevation (m)
Station (m)
Legend
Ground
Bank Sta
River = Yukon River Reach = Reach Lower RS = 8750
.065
.026
.065
Elevation (m)
Station (m)
Legend
Ground
Bank Sta
River = Yukon River Reach = Reach Lower RS = 8500
.065
.026
.065
Elevation (m)
Station (m)
Legend
Ground
Bank Sta
River = Yukon River Reach = Reach Lower RS = 8250
.065
.026
.065
Elevation (m)
Station (m)
Legend
Ground
Bank Sta
River = Yukon River Reach = Reach Lower RS = 7786
.065
.026
.065
Elevation (m)
Station (m)
Legend
Ground
Bank Sta

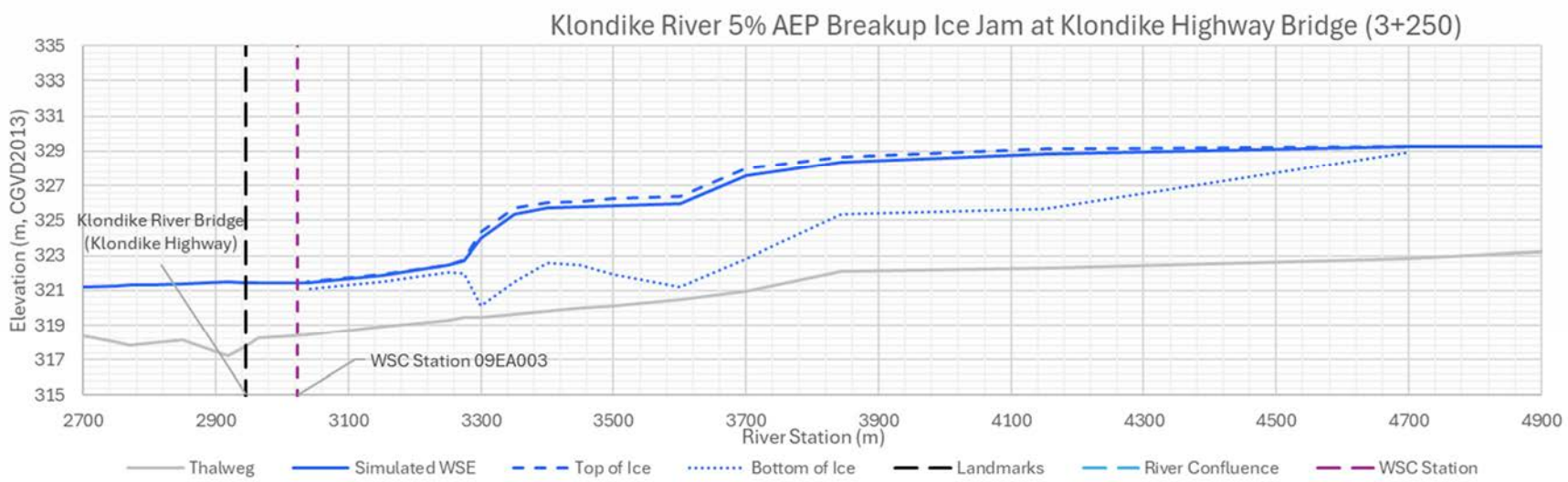

River = Yukon River Reach = Reach Lower RS = 5024
.065
.026
.065
Legend
Ground
Bank Sta
Elevation (m)
Station (m)
River = Yukon River Reach = Reach Lower RS = 2627
.065
.026
.065
Legend
Ground
Bank Sta
Elevation (m)
Station (m)

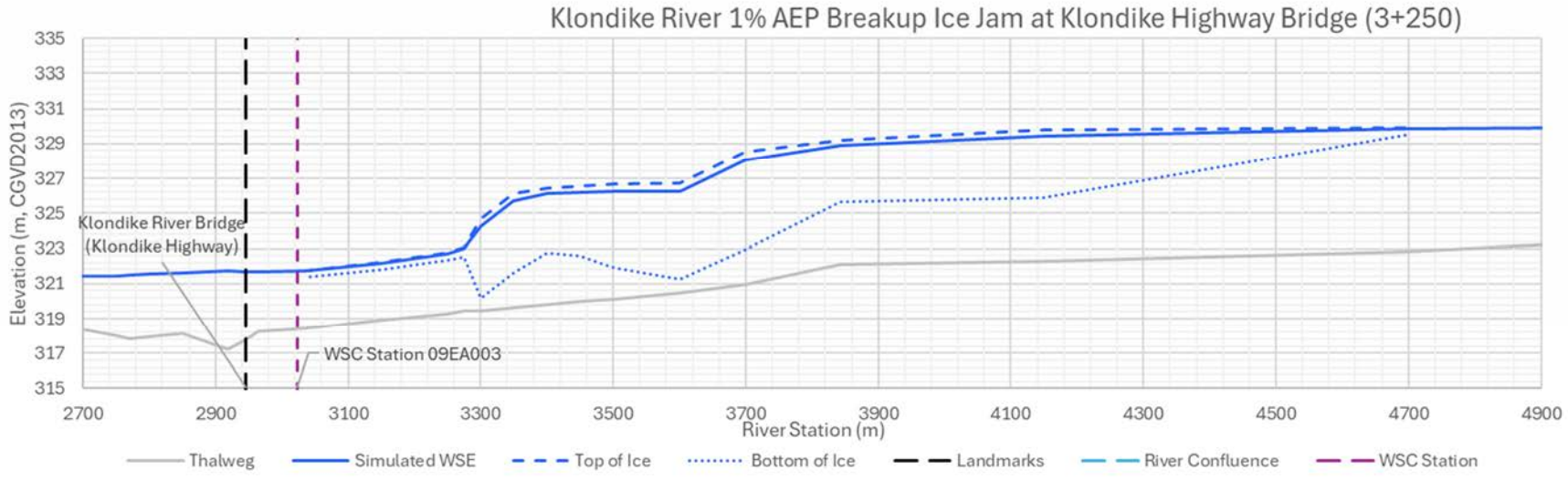

Klondike River 5% AEP Breakup Ice Jam at C4 (2+254)
Elevation (m, CGVD2013)
330
328
326
324
322
320
318
316
314
312
310
1700
1900
2100
2300
2500
2700
2900
3100
3300
3500
River Station (m)
Bonanza Creek
Klondike River Bridge
(Klondike Highway)
WSC Station 09EA003
Thalweg
Simulated WSE
Top of Ice
Bottom of Ice
Landmarks
River Confluence
WSC Station

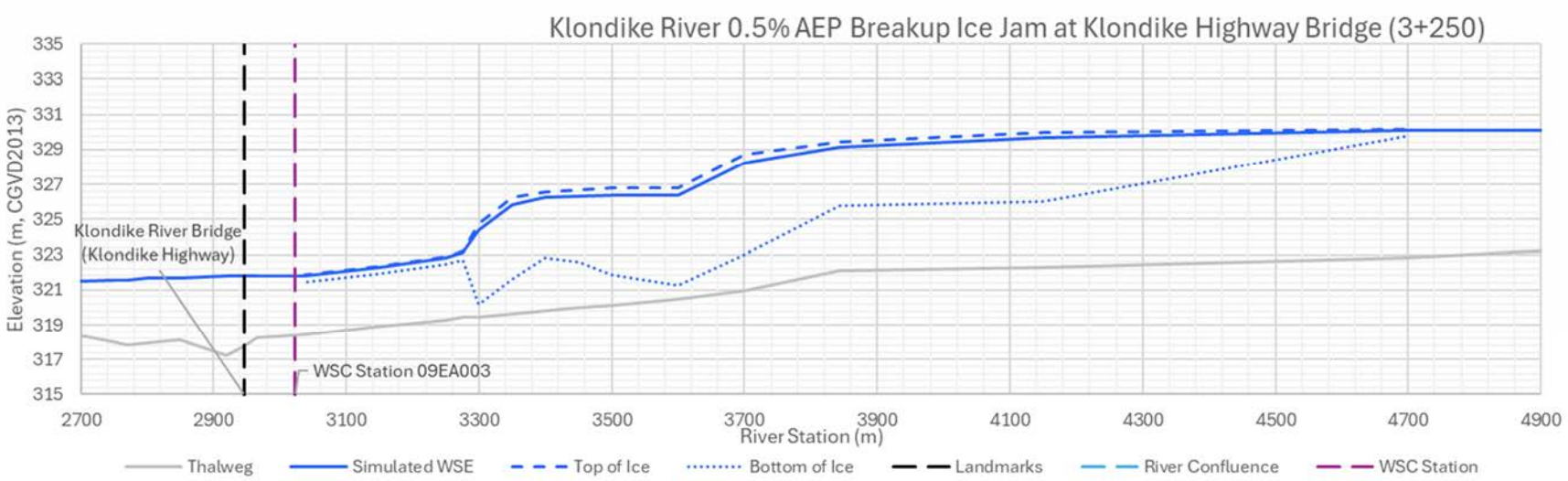

Klondike River 1% AEP Breakup Ice Jam at C4 (2+254)
Elevation (m, CGVD2013)
330
328
326
324
322
320
318
316
314
312
310
1700
1900
2100
2300
2500
2700
2900
3100
3300
3500
River Station (m)
Bonanza Creek
Klondike River Bridge
(Klondike Highway)
WSC Station 09EA003
Thalweg
Simulated WSE
Top of Ice
Bottom of Ice
Landmarks
River Confluence
WSC Station

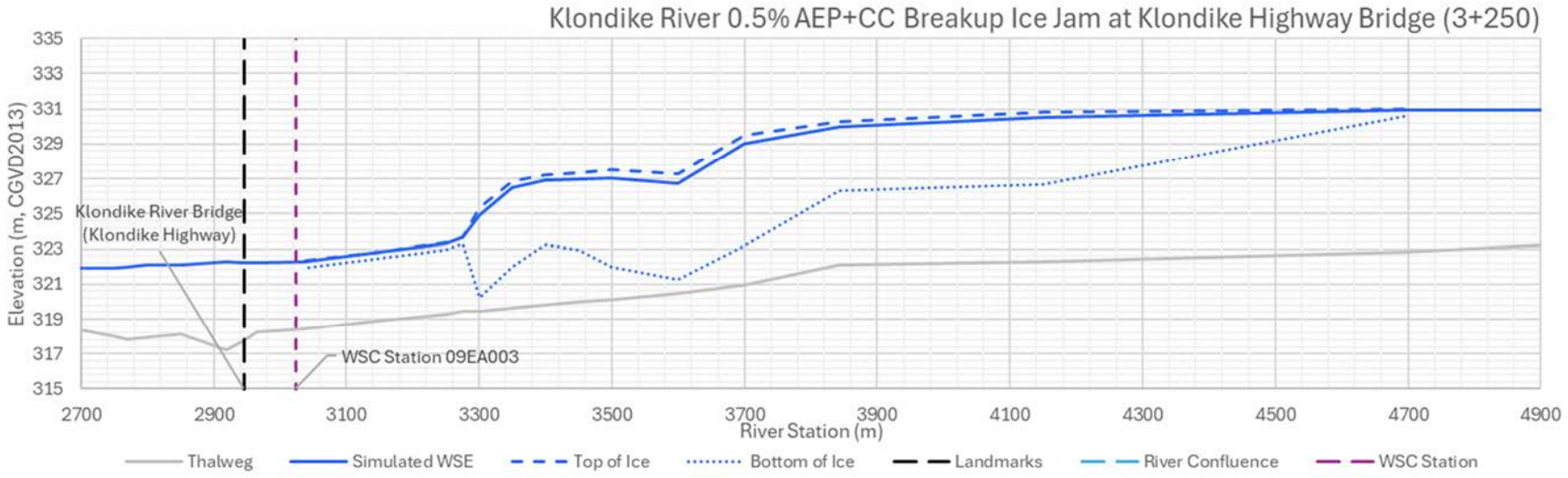

Klondike River 0.5% AEP Breakup Ice Jam at C4 (2+254)
Elevation (m, CGVD2013)
330
328
326
324
322
320
318
316
314
312
310
1700
1900
2100
2300
2500
2700
2900
3100
3300
3500
River Station (m)
Bonanza Creek
Klondike River Bridge
(Klondike Highway)
WSC Station 09EA003
Thalweg
Simulated WSE
Top of Ice
Bottom of Ice
Landmarks
River Confluence
WSC Station

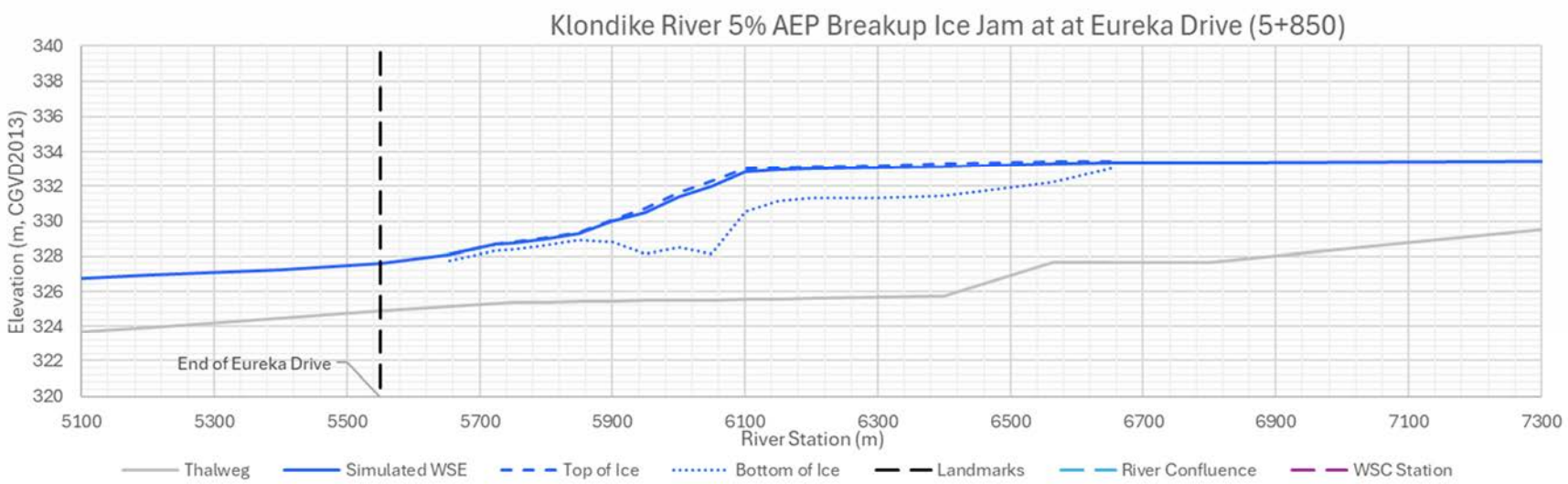

Klondike River 0.5% AEP+CC Breakup Ice Jam at C4 (2+254)
Elevation (m, CGVD2013)
330
328
326
324
322
320
318
316
314
312
310
1700
1900
2100
2300
2500
2700
2900
3100
3300
3500
River Station (m)
Bonanza Creek
Klondike River Bridge
(Klondike Highway)
WSC Station 09EA003
Thalweg
Simulated WSE
Top of Ice
Bottom of Ice
Landmarks
River Confluence
WSC Station

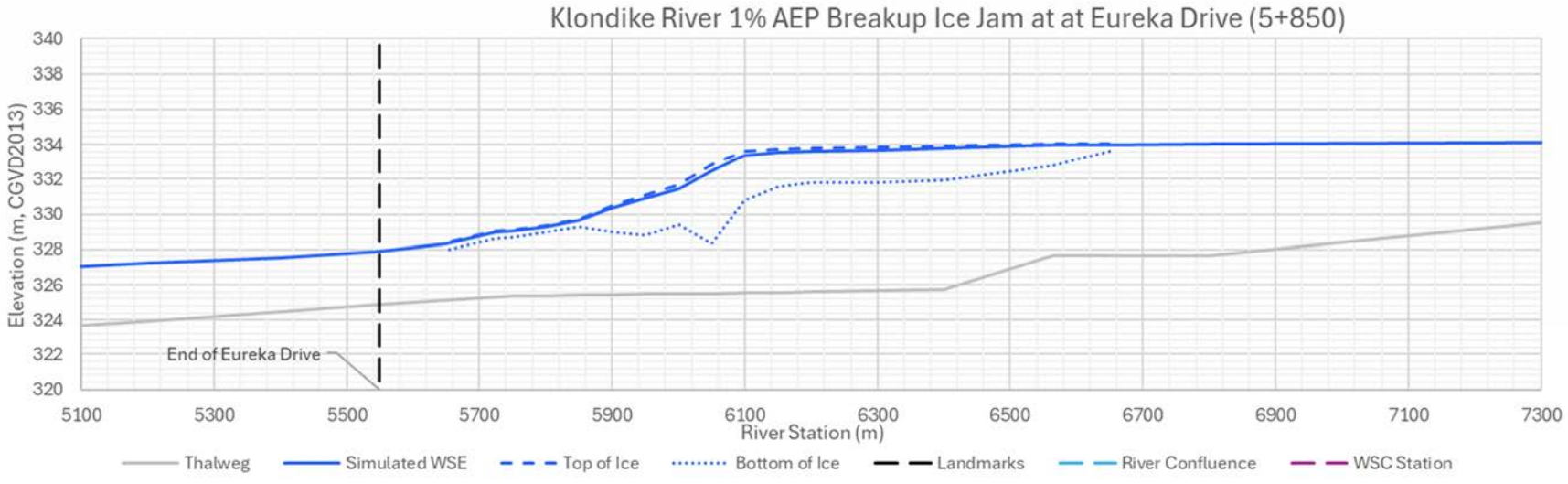

Klondike River 5% AEP Breakup Ice Jam at Klondike Highway Bridge (3+250)
Elevation (m, CGVD2013)
335
333
331
329
327
325
323
321
319
317
315
Klondike River Bridge
(Klondike Highway)
WSC Station 09EA003
2700
2900
3100
3300
3500
3700
3900
4100
4300
4500
4700
4900
River Station (m)
Thalweg
Simulated WSE
Top of Ice
Bottom of Ice
Landmarks
River Confluence
WSC Station

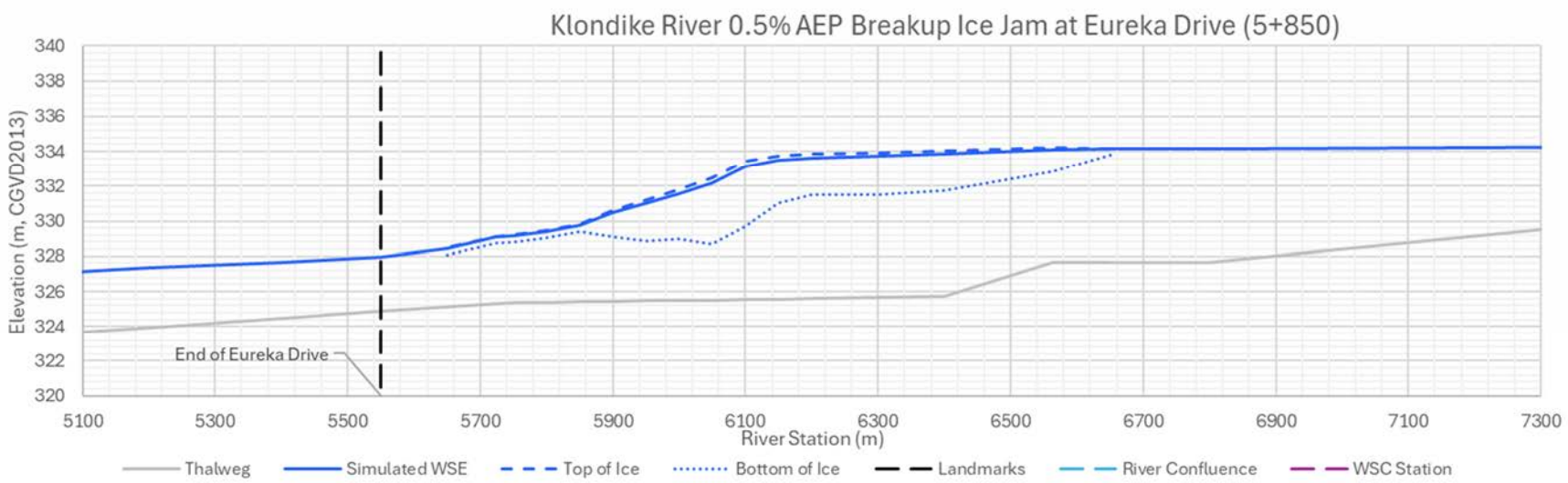

Klondike River 1% AEP Breakup Ice Jam at Klondike Highway Bridge (3+250)
Elevation (m, CGVD2013)
335
333
331
329
327
325
323
321
319
317
315
Klondike River Bridge
(Klondike Highway)
WSC Station 09EA003
2700
2900
3100
3300
3500
3700
3900
4100
4300
4500
4700
4900
River Station (m)
Thalweg
Simulated WSE
Top of Ice
Bottom of Ice
Landmarks
River Confluence
WSC Station

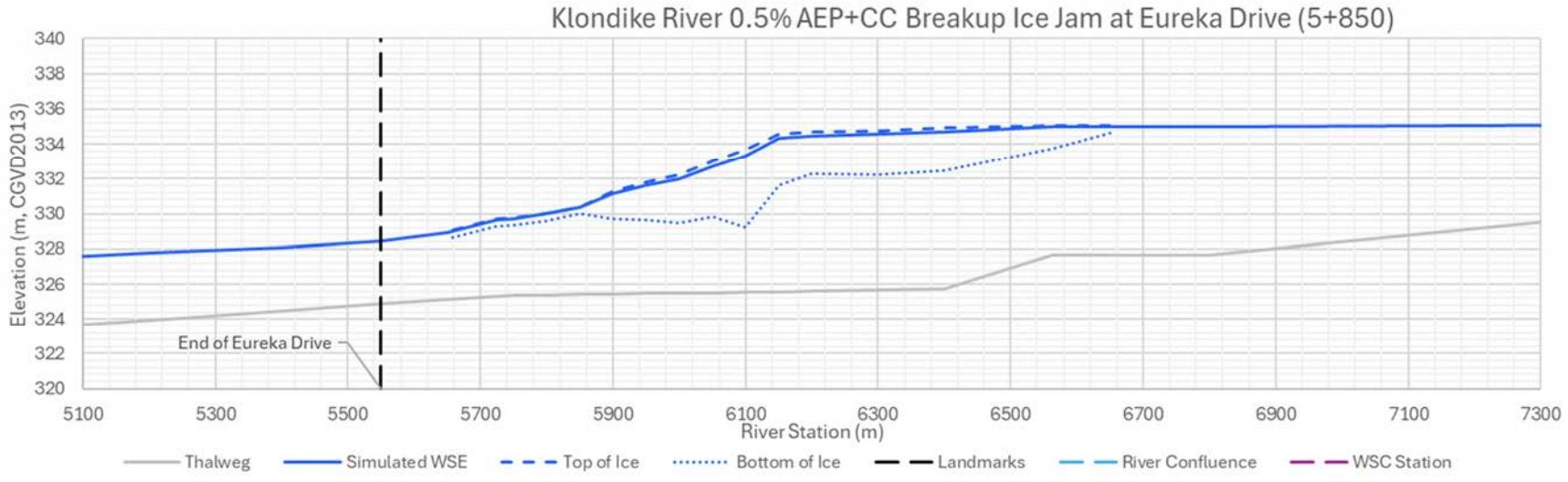

Klondike River 0.5% AEP Breakup Ice Jam at Klondike Highway Bridge (3+250)
Elevation (m, CGVD2013)
335
333
331
329
327
325
323
321
319
317
315
Klondike River Bridge
(Klondike Highway)
WSC Station 09EA003
2700
2900
3100
3300
3500
3700
3900
4100
4300
4500
4700
4900
River Station (m)
Thalweg
Simulated WSE
Top of Ice
Bottom of Ice
Landmarks
River Confluence
WSC Station

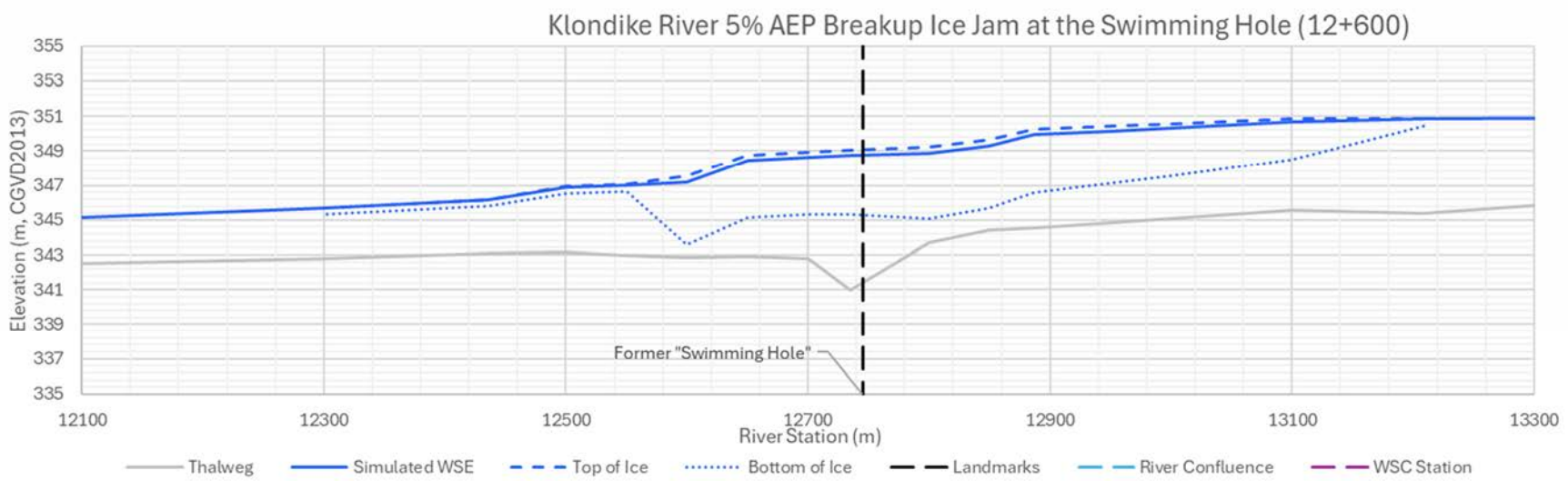

Klondike River 0.5% AEP+CC Breakup Ice Jam at Klondike Highway Bridge (3+250)
Elevation (m, CGVD2013)
335
333
331
329
327
325
323
321
319
317
315
Klondike River Bridge
(Klondike Highway)
WSC Station 09EA003
2700
2900
3100
3300
3500
3700
3900
4100
4300
4500
4700
4900
River Station (m)
Thalweg
Simulated WSE
Top of Ice
Bottom of Ice
Landmarks
River Confluence
WSC Station

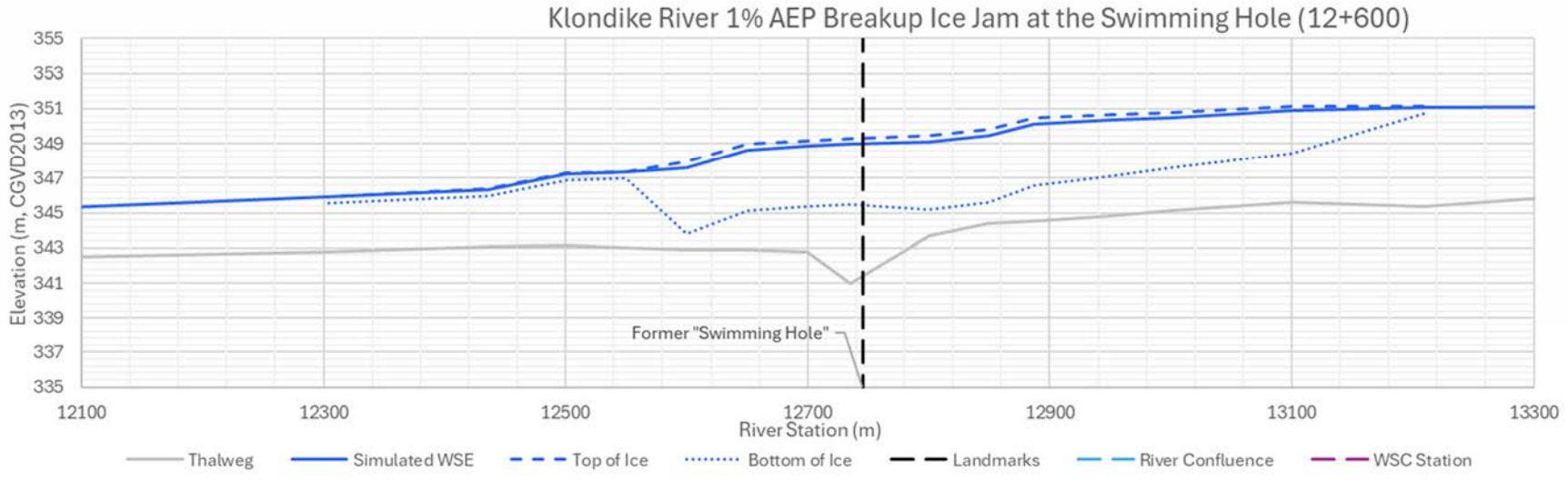

Klondike River 5% AEP Breakup Ice Jam at at Eureka Drive (5+850)
Elevation (m, CGVD2013)
340
338
336
334
332
330
328
326
324
322
320
End of Eureka Drive
5100
5300
5500
5700
5900
6100
6300
6500
6700
6900
7100
7300
River Station (m)
Thalweg
Simulated WSE
Top of Ice
Bottom of Ice
Landmarks
River Confluence
WSC Station

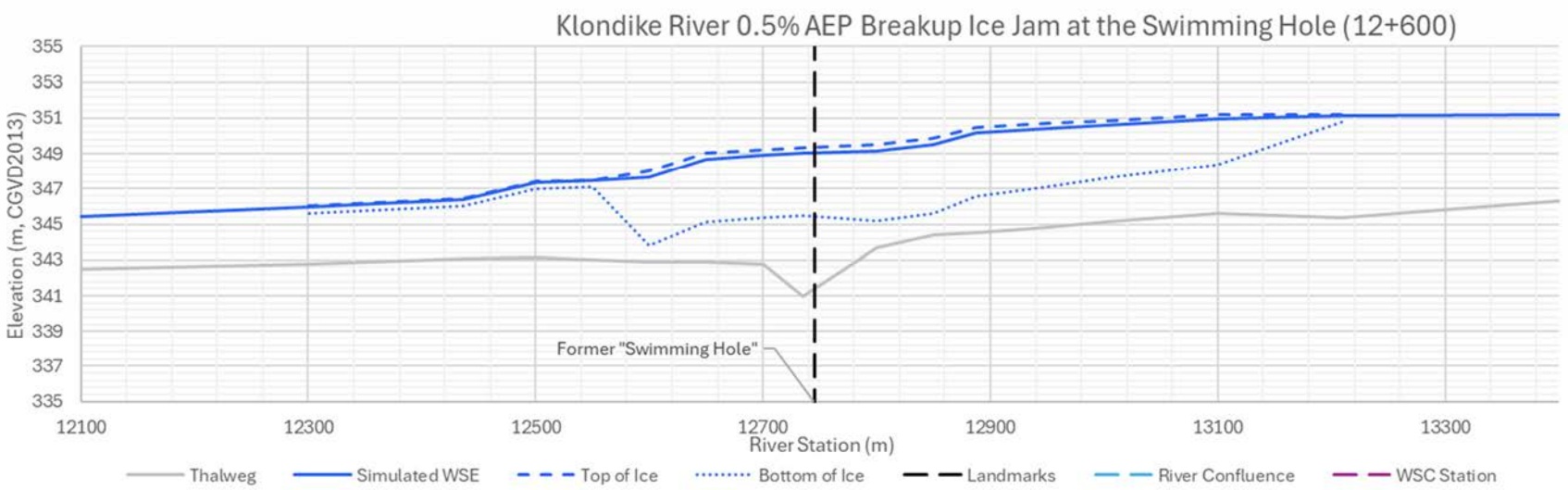

Klondike River 1% AEP Breakup Ice Jam at at Eureka Drive (5+850)
Elevation (m, CGVD2013)
340
338
336
334
332
330
328
326
324
322
320
End of Eureka Drive
5100
5300
5500
5700
5900
6100
6300
6500
6700
6900
7100
7300
River Station (m)
Thalweg
Simulated WSE
Top of Ice
Bottom of Ice
Landmarks
River Confluence
WSC Station

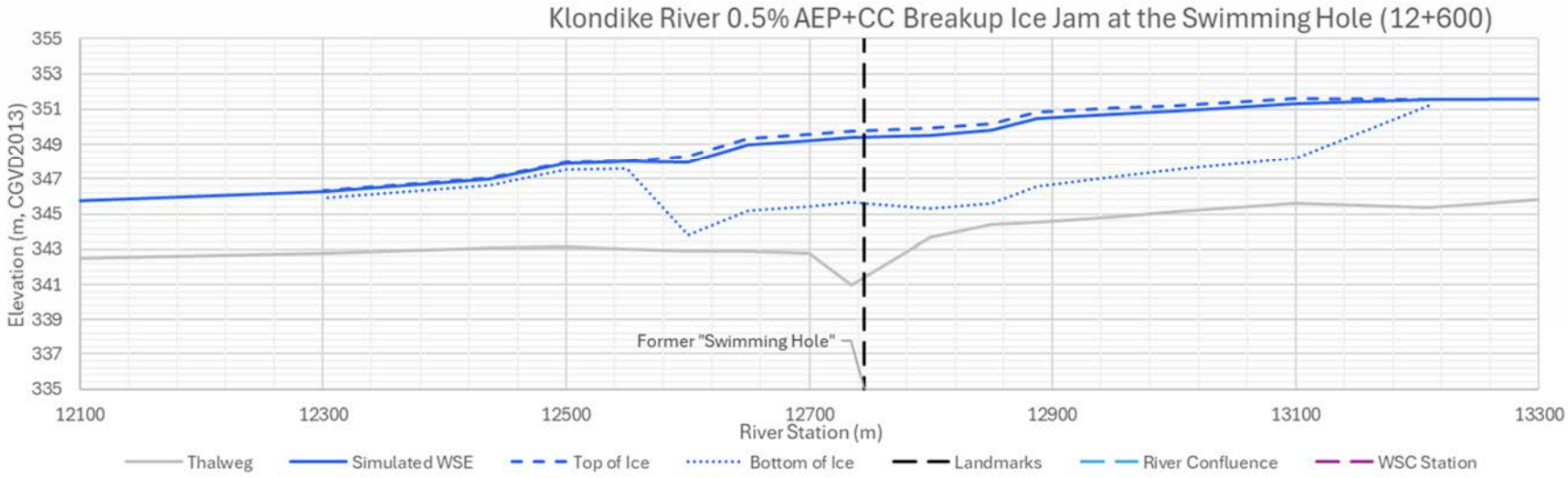

Klondike River 0.5% AEP Breakup Ice Jam at Eureka Drive (5+850)
Elevation (m, CGVD2013)
340
338
336
334
332
330
328
326
324
322
320
End of Eureka Drive
5100
5300
5500
5700
5900
6100
6300
6500
6700
6900
7100
7300
River Station (m)
Thalweg
Simulated WSE
Top of Ice
Bottom of Ice
Landmarks
River Confluence
WSC Station

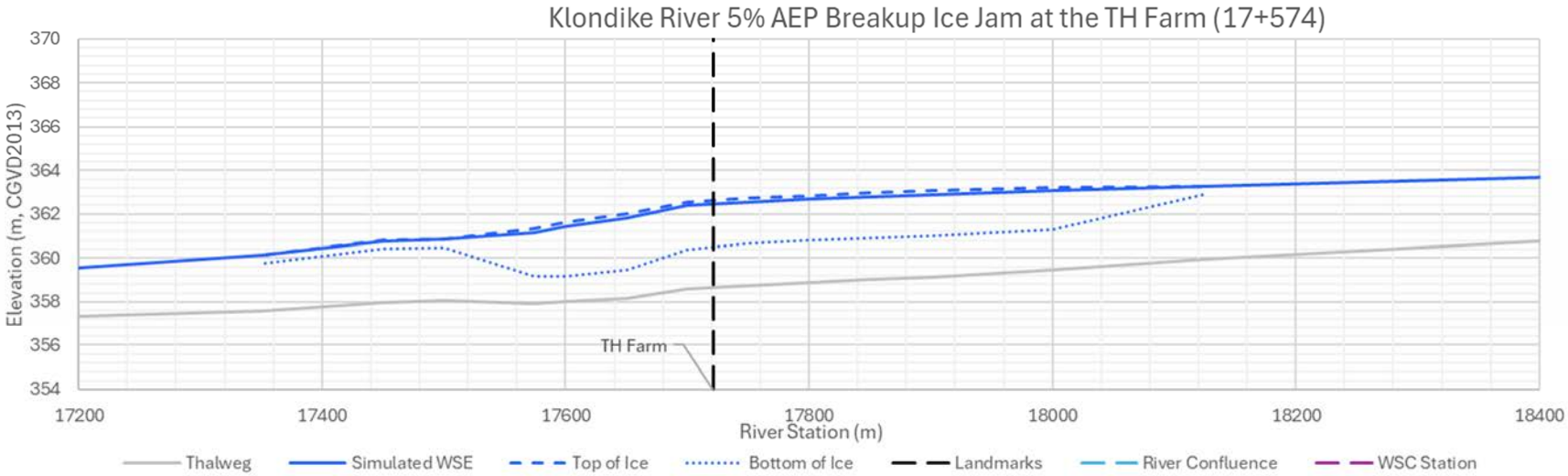

Klondike River 0.5% AEP+CC Breakup Ice Jam at Eureka Drive (5+850)
Elevation (m, CGVD2013)
340
338
336
334
332
330
328
326
324
322
320
End of Eureka Drive
5100
5300
5500
5700
5900
6100
6300
6500
6700
6900
7100
7300
River Station (m)
Thalweg
Simulated WSE
Top of Ice
Bottom of Ice
Landmarks
River Confluence
WSC Station

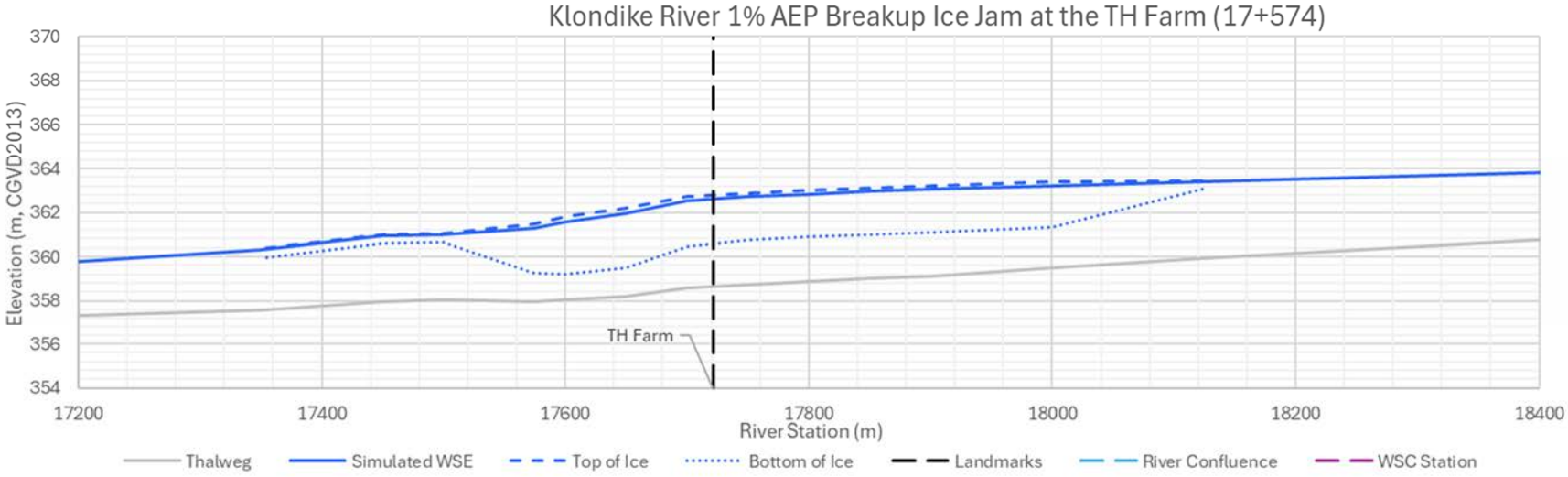

Klondike River 5% AEP Breakup Ice Jam at the Swimming Hole (12+600)
Elevation (m, CGVD2013)
355
353
351
349
347
345
343
341
339
337
335
Former "Swimming Hole"
12100
12300
12500
12700
12900
13100
13300
River Station (m)
Thalweg
Simulated WSE
Top of Ice
Bottom of Ice
Landmarks
River Confluence
WSC Station

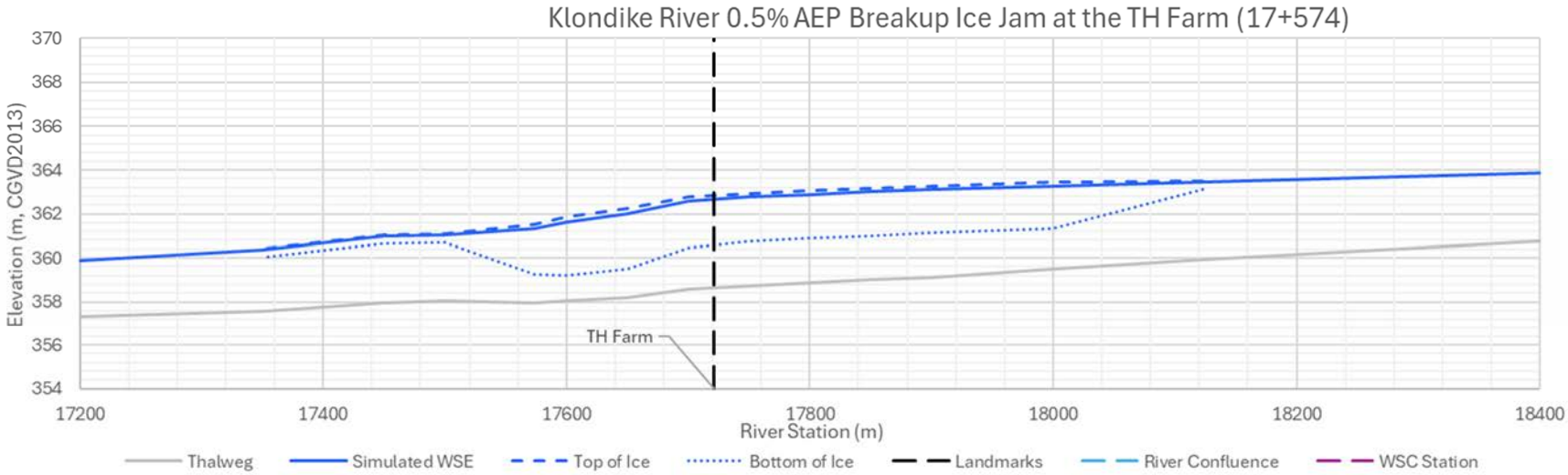

Klondike River 1% AEP Breakup Ice Jam at the Swimming Hole (12+600)
Elevation (m, CGVD2013)
355
353
351
349
347
345
343
341
339
337
335
Former "Swimming Hole"
12100
12300
12500
12700
12900
13100
13300
River Station (m)
Thalweg
Simulated WSE
Top of Ice
Bottom of Ice
Landmarks
River Confluence
WSC Station

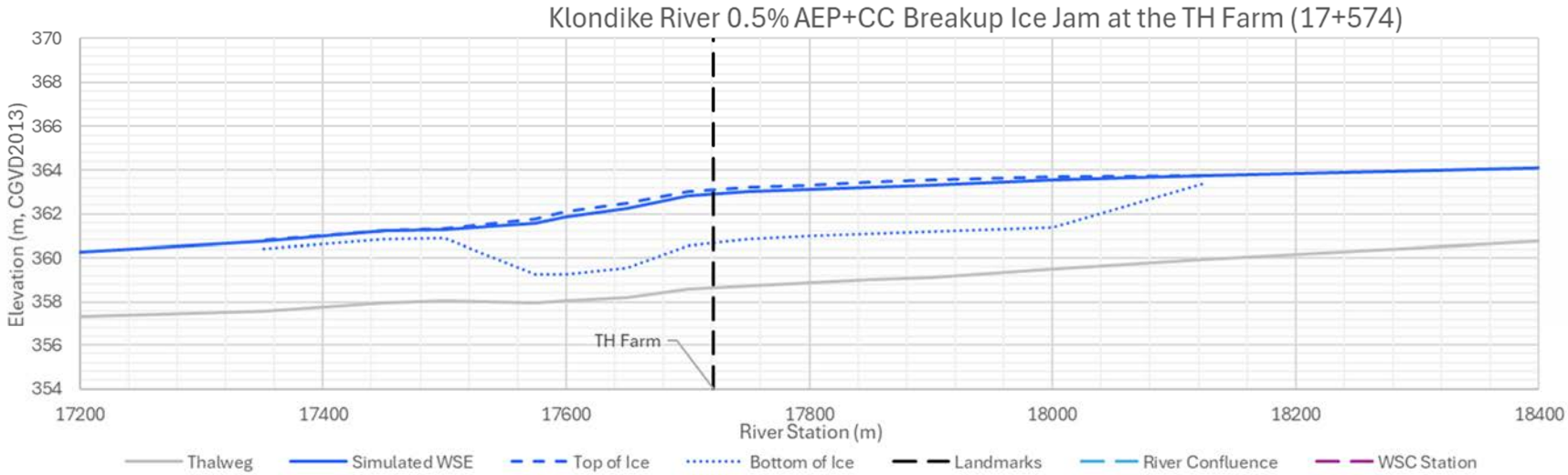

Klondike River 0.5% AEP Breakup Ice Jam at the Swimming Hole (12+600)
Elevation (m, CGVD2013)
355
353
351
349
347
345
343
341
339
337
335
12100
12300
12500
12700
12900
13100
13300
River Station (m)
Former "Swimming Hole"
Thalweg
Simulated WSE
Top of Ice
Bottom of Ice
Landmarks
River Confluence
WSC Station

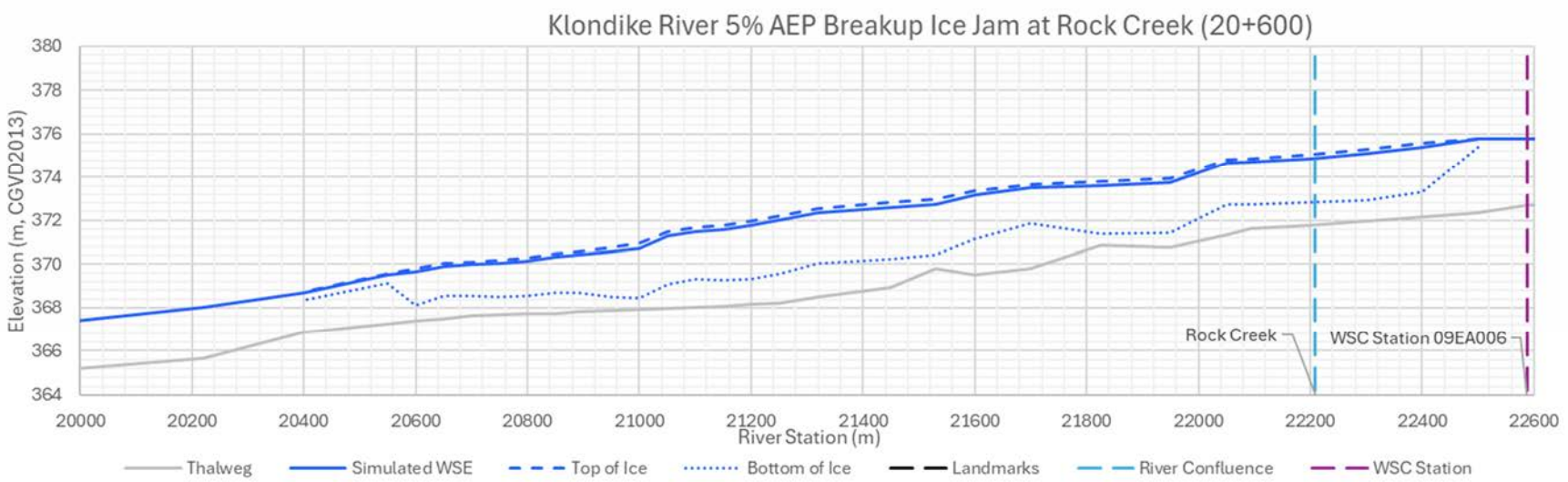

Klondike River 0.5% AEP+CC Breakup Ice Jam at the Swimming Hole (12+600)
Elevation (m, CGVD2013)
355
353
351
349
347
345
343
341
339
337
335
12100
12300
12500
12700
12900
13100
13300
River Station (m)
Former "Swimming Hole"
Thalweg
Simulated WSE
Top of Ice
Bottom of Ice
Landmarks
River Confluence
WSC Station

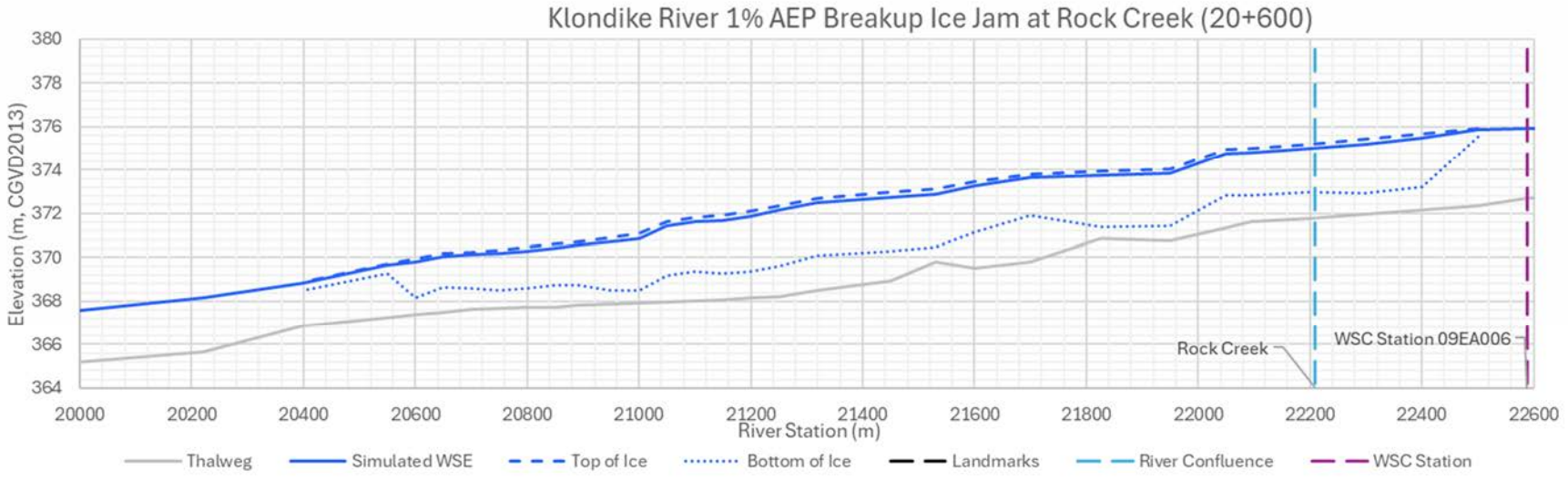

Klondike River 5% AEP Breakup Ice Jam at the TH Farm (17+574)
Elevation (m, CGVD2013)
370
368
366
364
362
360
358
356
354
TH Farm
17200
17400
17600
17800
18000
18200
18400
River Station (m)
Thalweg
Simulated WSE
Top of Ice
Bottom of Ice
Landmarks
River Confluence
WSC Station

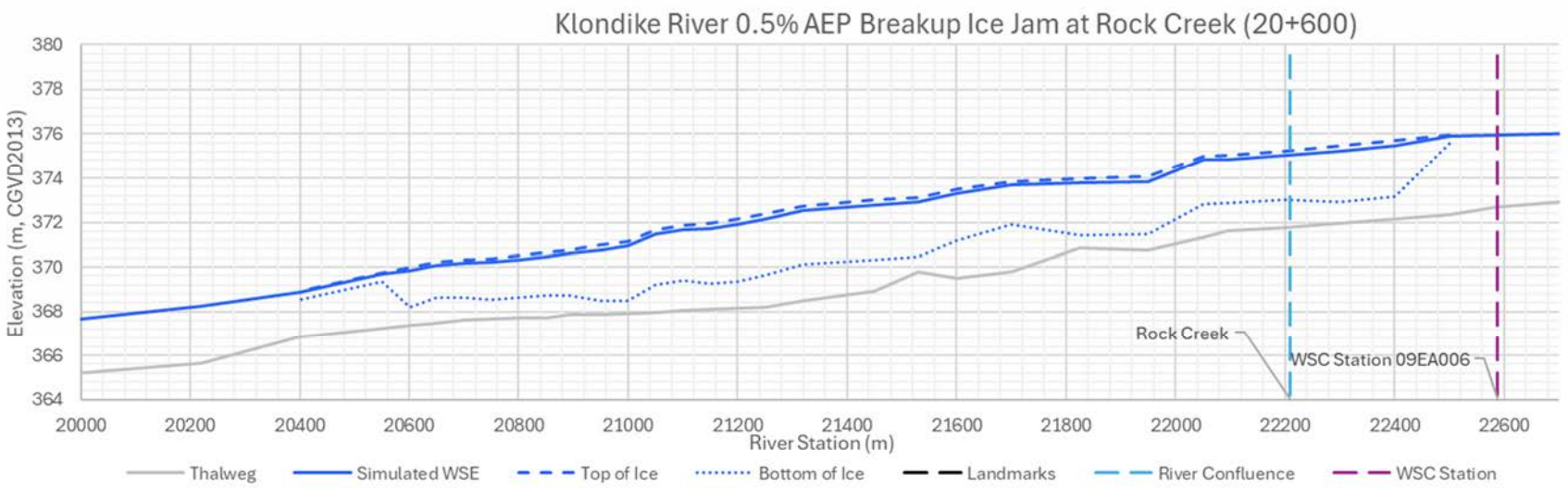

Klondike River 1% AEP Breakup Ice Jam at the TH Farm (17+574)
Elevation (m, CGVD2013)
370
368
366
364
362
360
358
356
354
TH Farm
17200
17400
17600
17800
18000
18200
18400
River Station (m)
Thalweg
Simulated WSE
Top of Ice
Bottom of Ice
Landmarks
River Confluence
WSC Station

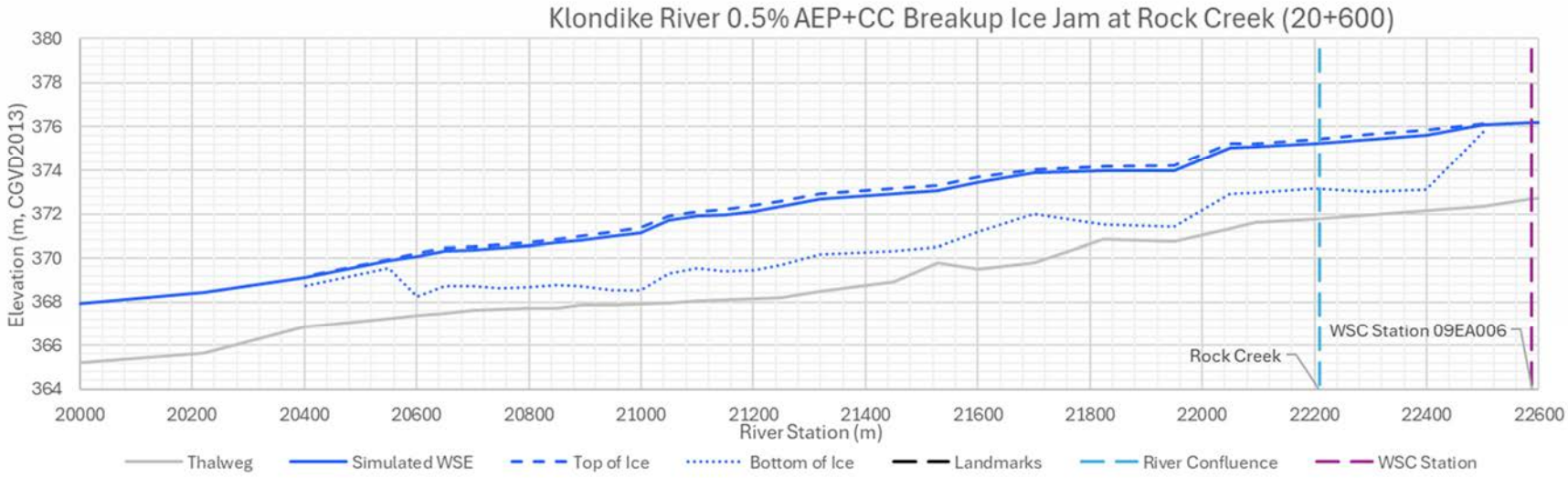

Klondike River 0.5% AEP Breakup Ice Jam at the TH Farm (17+574)
Elevation (m, CGVD2013)
370
368
366
364
362
360
358
356
354
TH Farm
17200
17400
17600
17800
18000
18200
18400
River Station (m)
Thalweg
Simulated WSE
Top of Ice
Bottom of Ice
Landmarks
River Confluence
WSC Station

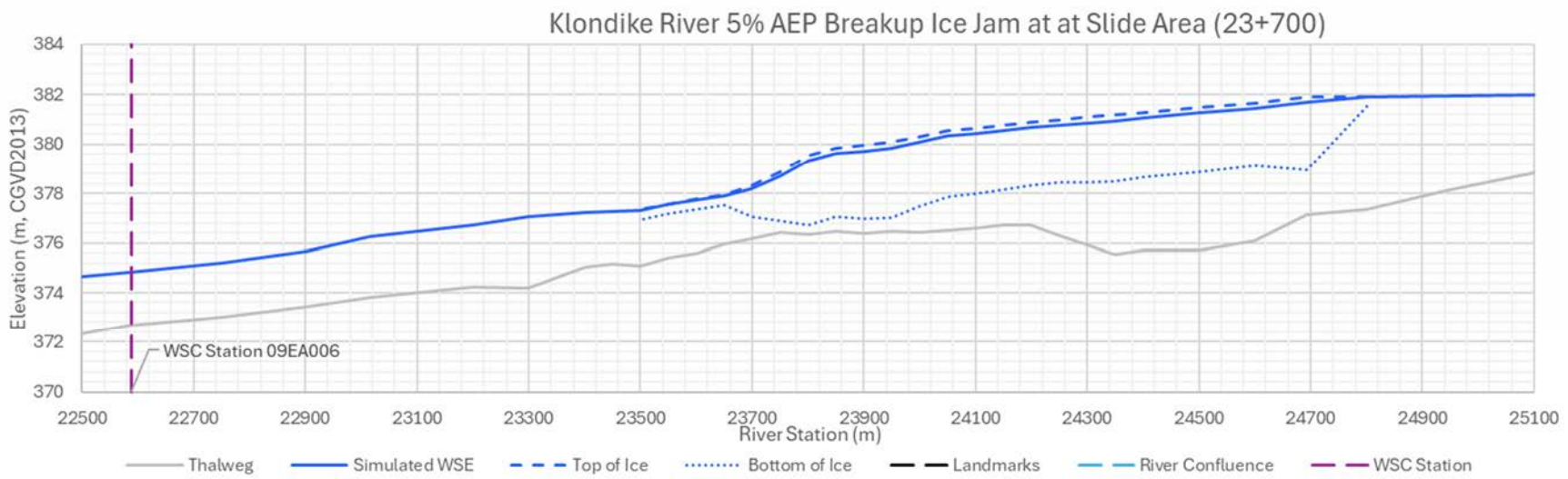

Klondike River 0.5% AEP+CC Breakup Ice Jam at the TH Farm (17+574)
Elevation (m, CGVD2013)
370
368
366
364
362
360
358
356
354
TH Farm
17200
17400
17600
17800
18000
18200
18400
River Station (m)
Thalweg
Simulated WSE
Top of Ice
Bottom of Ice
Landmarks
River Confluence
WSC Station

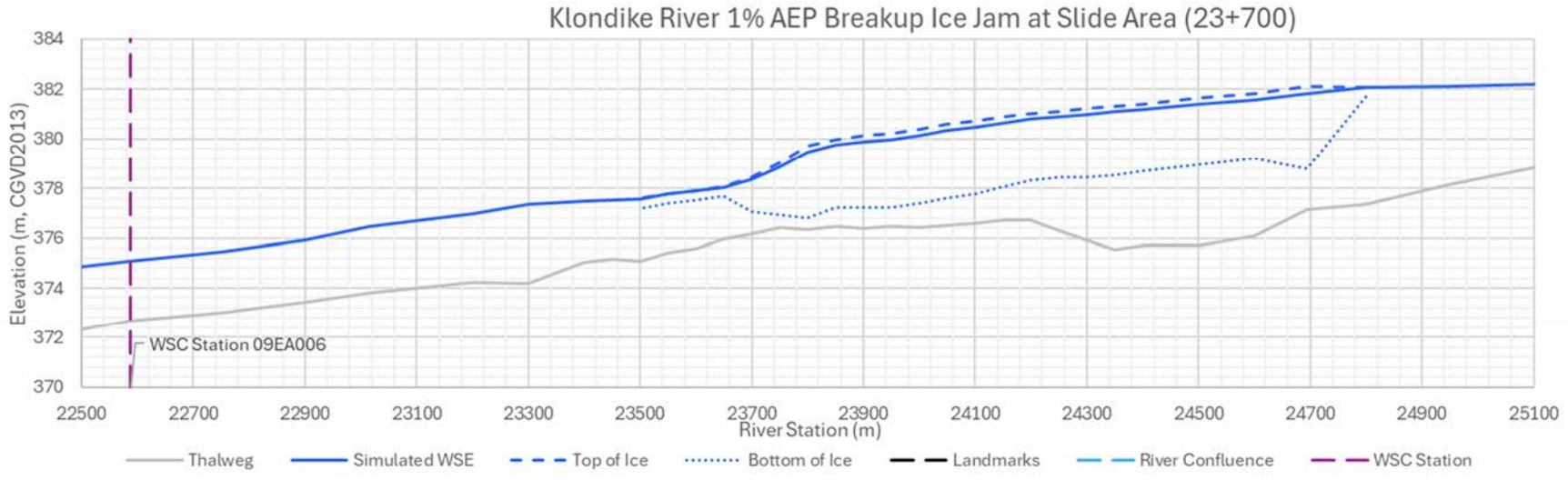

Klondike River 5% AEP Breakup Ice Jam at Rock Creek (20+600)
Elevation (m, CGVD2013)
380
378
376
374
372
370
368
366
364
20000
20200
20400
20600
20800
21000
21200
21400
21600
21800
22000
22200
22400
22600
River Station (m)
Rock Creek
WSC Station 09EA006
Thalweg
Simulated WSE
Top of Ice
Bottom of Ice
Landmarks
River Confluence
WSC Station

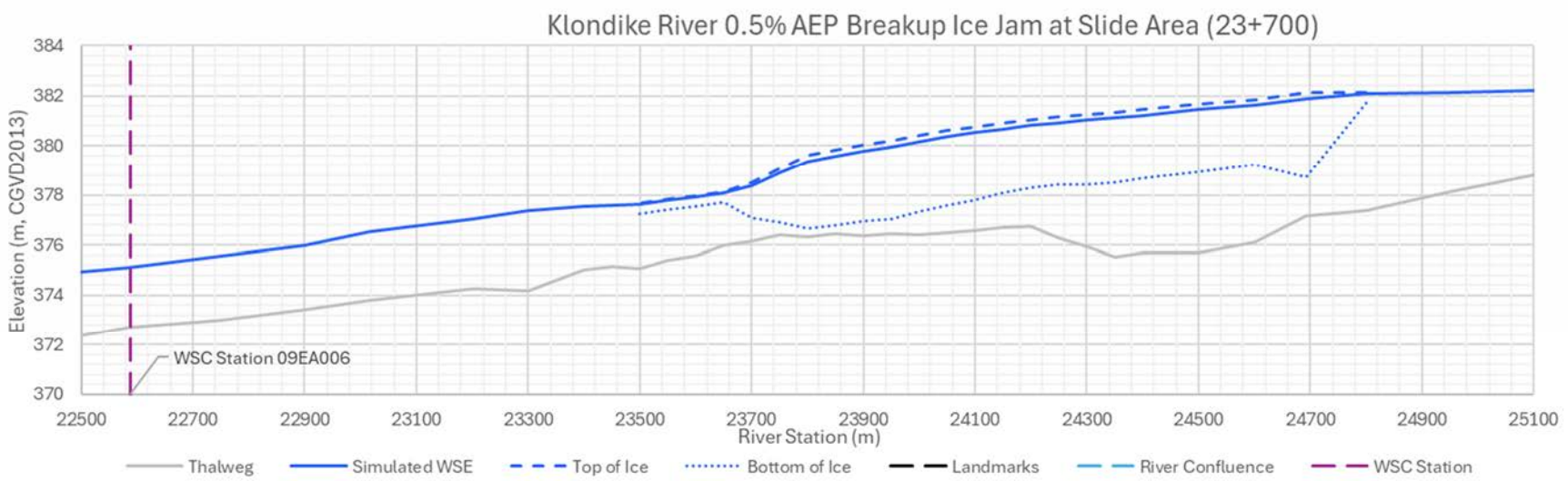

Klondike River 1% AEP Breakup Ice Jam at Rock Creek (20+600)
Elevation (m, CGVD2013)
380
378
376
374
372
370
368
366
364
20000
20200
20400
20600
20800
21000
21200
21400
21600
21800
22000
22200
22400
22600
River Station (m)
Rock Creek
WSC Station 09EA006
Thalweg
Simulated WSE
Top of Ice
Bottom of Ice
Landmarks
River Confluence
WSC Station

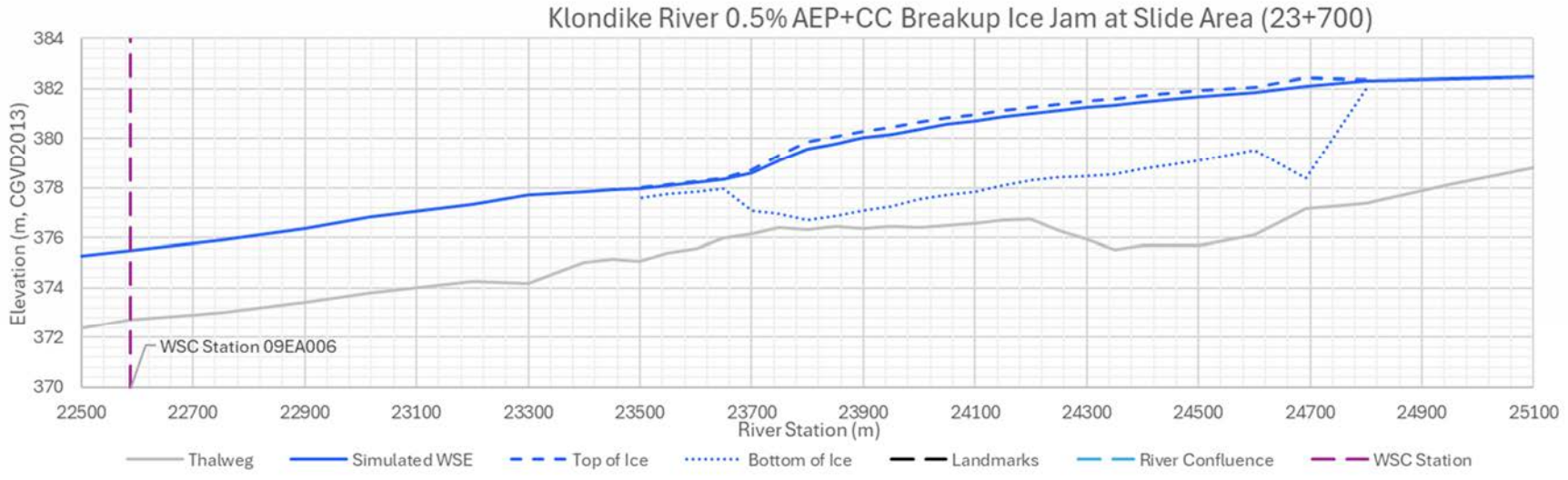

Klondike River 0.5% AEP Breakup Ice Jam at Rock Creek (20+600)
Elevation (m, CGVD2013)
380
378
376
374
372
370
368
366
364
20000
20200
20400
20600
20800
21000
21200
21400
21600
21800
22000
22200
22400
22600
River Station (m)
Rock Creek
WSC Station 09EA006
Thalweg
Simulated WSE
Top of Ice
Bottom of Ice
Landmarks
River Confluence
WSC Station

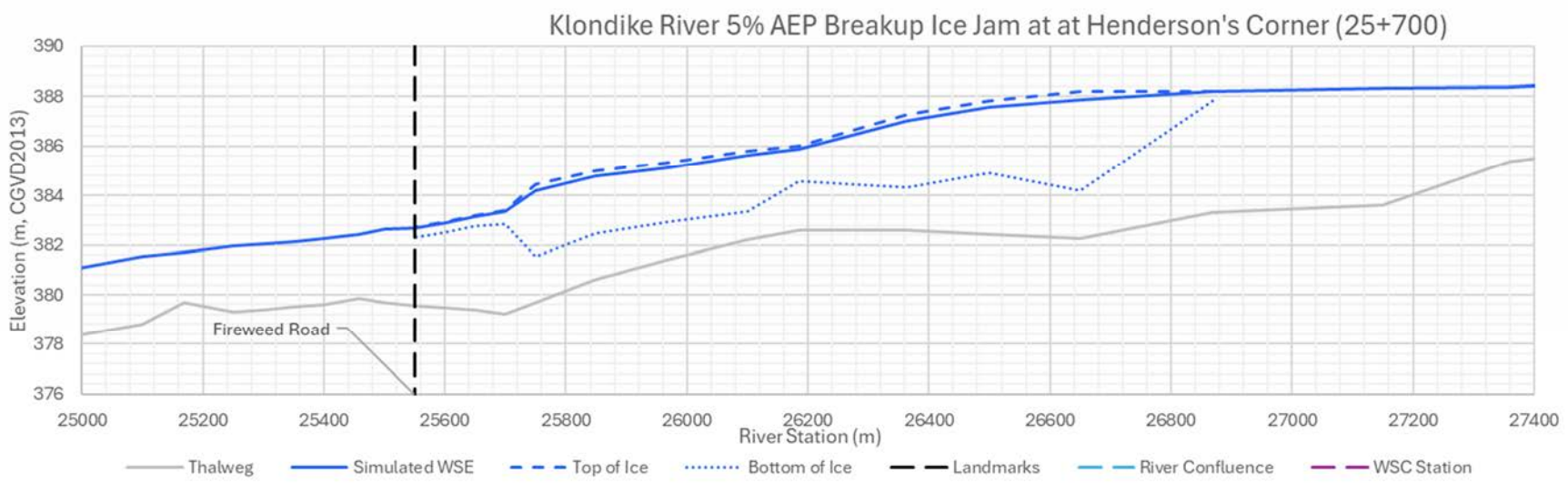

Klondike River 0.5% AEP+CC Breakup Ice Jam at Rock Creek (20+600)
Elevation (m, CGVD2013)
380
378
376
374
372
370
368
366
364
20000
20200
20400
20600
20800
21000
21200
21400
21600
21800
22000
22200
22400
22600
River Station (m)
WSC Station 09EA006
Rock Creek
Thalweg
Simulated WSE
Top of Ice
Bottom of Ice
Landmarks
River Confluence
WSC Station

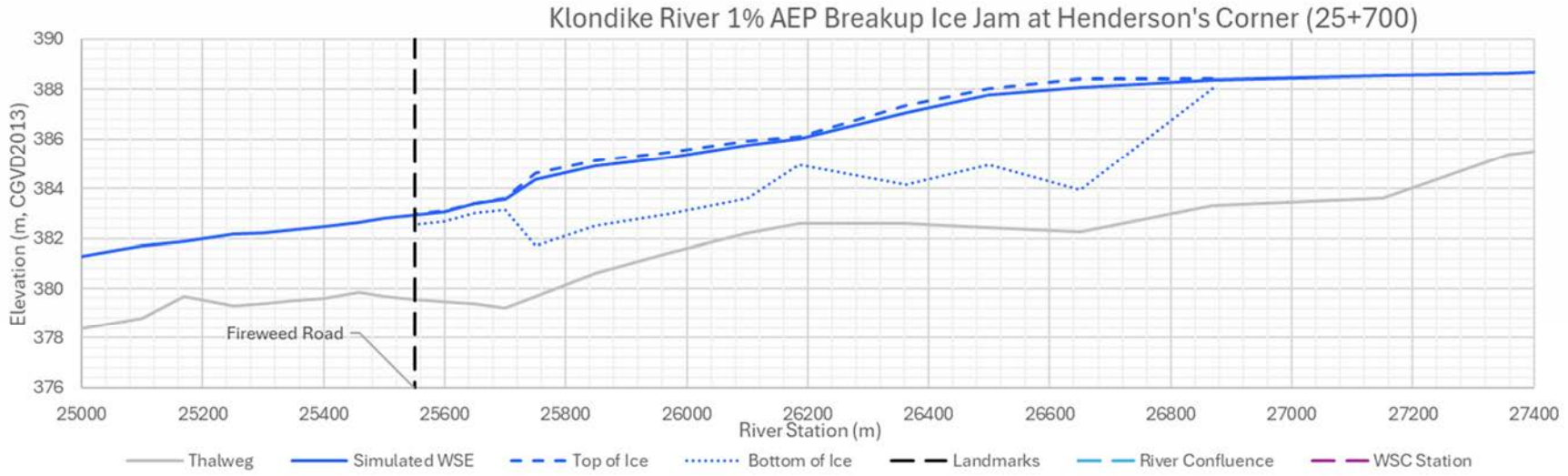

Klondike River 5% AEP Breakup Ice Jam at at Slide Area (23+700)
Elevation (m, CGVD2013)
384
382
380
378
376
374
372
370
WSC Station 09EA006
22500
22700
22900
23100
23300
23500
23700
23900
24100
24300
24500
24700
24900
25100
River Station (m)
Thalweg
Simulated WSE
Top of Ice
Bottom of Ice
Landmarks
River Confluence
WSC Station

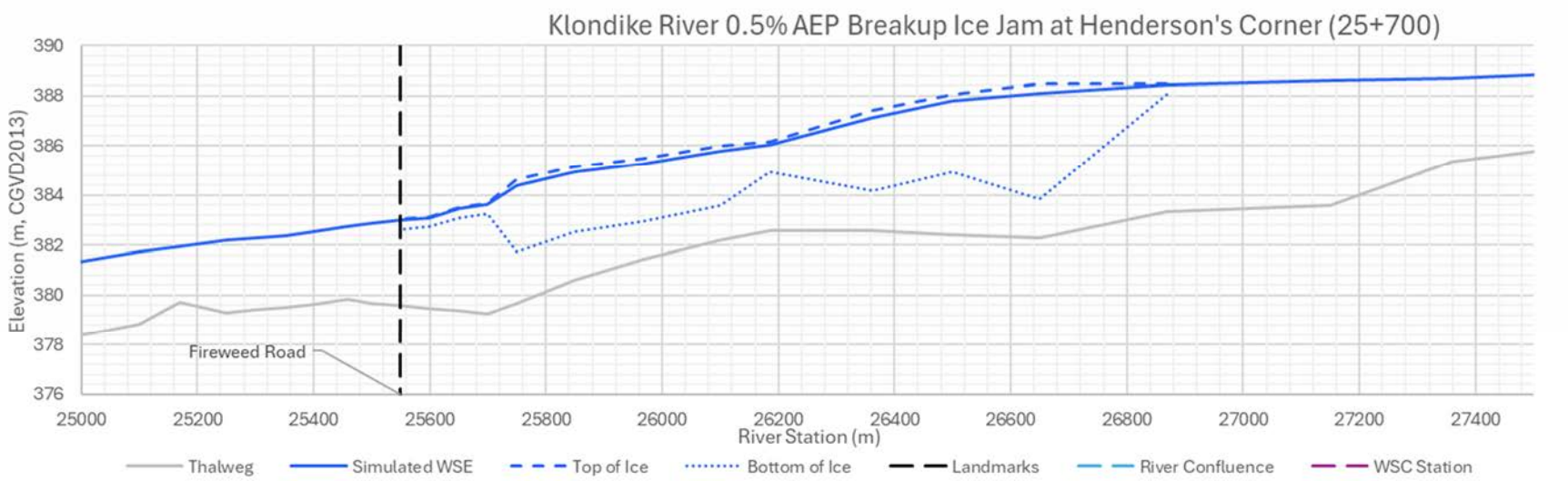

Klondike River 1% AEP Breakup Ice Jam at Slide Area (23+700)
Elevation (m, CGVD2013)
384
382
380
378
376
374
372
370
WSC Station 09EA006
22500
22700
22900
23100
23300
23500
23700
23900
24100
24300
24500
24700
24900
25100
River Station (m)
Thalweg
Simulated WSE
Top of Ice
Bottom of Ice
Landmarks
River Confluence
WSC Station

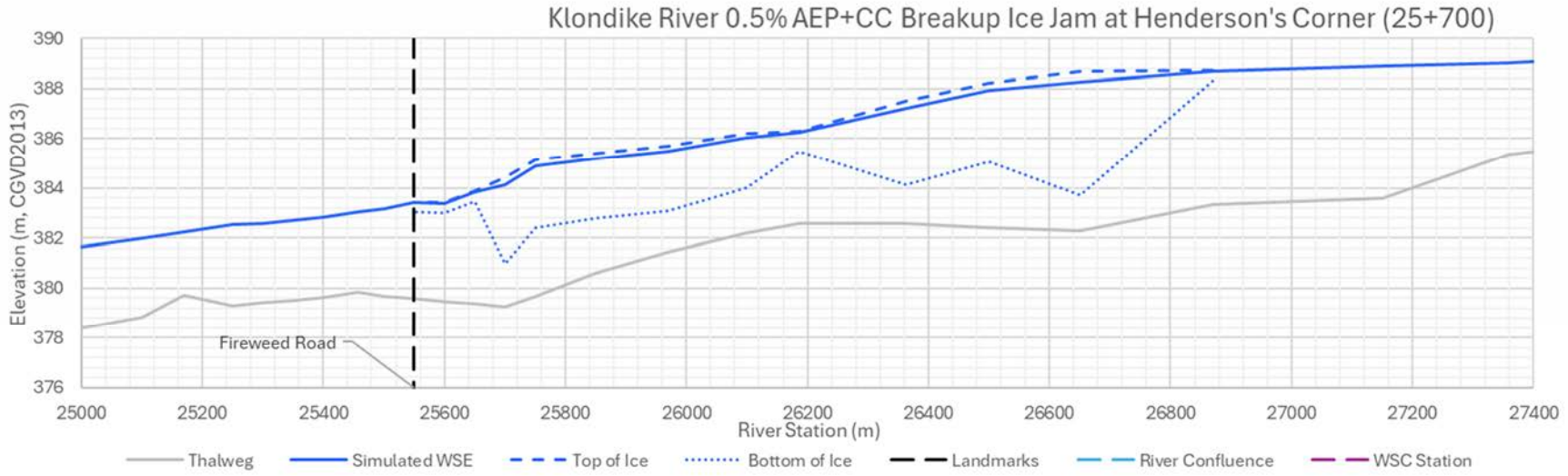

Klondike River 0.5% AEP Breakup Ice Jam at Slide Area (23+700)
Elevation (m, CGVD2013)
384
382
380
378
376
374
372
370
WSC Station 09EA006
22500
22700
22900
23100
23300
23500
23700
23900
24100
24300
24500
24700
24900
25100
River Station (m)
Thalweg
Simulated WSE
Top of Ice
Bottom of Ice
Landmarks
River Confluence
WSC Station


Klondike River 0.5% AEP+CC Breakup Ice Jam at Slide Area (23+700)
Elevation (m, CGVD2013)
384
382
380
378
376
374
372
370
WSC Station 09EA006
22500
22700
22900
23100
23300
23500
23700
23900
24100
24300
24500
24700
24900
25100
River Station (m)
Thalweg
Simulated WSE
Top of Ice
Bottom of Ice
Landmarks
River Confluence
WSC Station


Klondike River 5% AEP Breakup Ice Jam at at Henderson's Corner (25+700)
Elevation (m, CGVD2013)
390
388
386
384
382
380
378
376
Fireweed Road
25000
25200
25400
25600
25800
26000
26200
26400
26600
26800
27000
27200
27400
River Station (m)
Thalweg
Simulated WSE
Top of Ice
Bottom of Ice
Landmarks
River Confluence
WSC Station


Klondike River 1% AEP Breakup Ice Jam at Henderson's Corner (25+700)
Elevation (m, CGVD2013)
390
388
386
384
382
380
378
376
Fireweed Road
25000
25200
25400
25600
25800
26000
26200
26400
26600
26800
27000
27200
27400
River Station (m)
Thalweg
Simulated WSE
Top of Ice
Bottom of Ice
Landmarks
River Confluence
WSC Station


Klondike River 0.5% AEP Breakup Ice Jam at Henderson's Corner (25+700)
Elevation (m, CGVD2013)
390
388
386
384
382
380
378
376
Fireweed Road
25000
25200
25400
25600
25800
26000
26200
26400
26600
26800
27000
27200
27400
River Station (m)
Thalweg
Simulated WSE
Top of Ice
Bottom of Ice
Landmarks
River Confluence
WSC Station


Klondike River 0.5% AEP+CC Breakup Ice Jam at Henderson's Corner (25+700)
Elevation (m, CGVD2013)
390
388
386
384
382
380
378
376
Fireweed Road
25000
25200
25400
25600
25800
26000
26200
26400
26600
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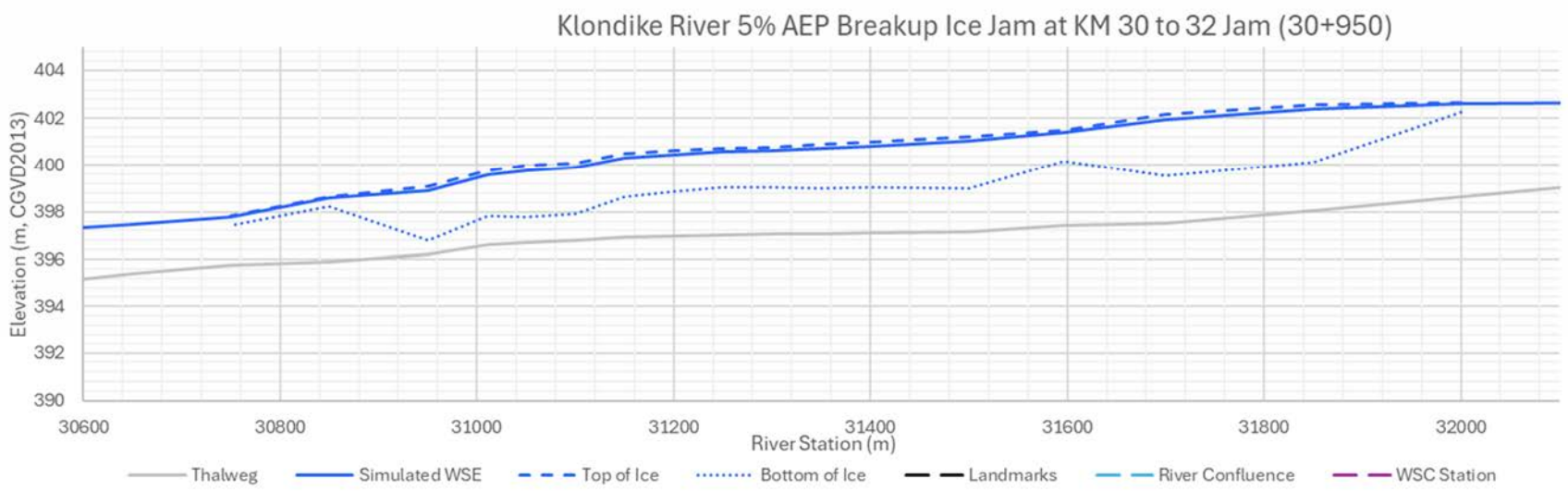
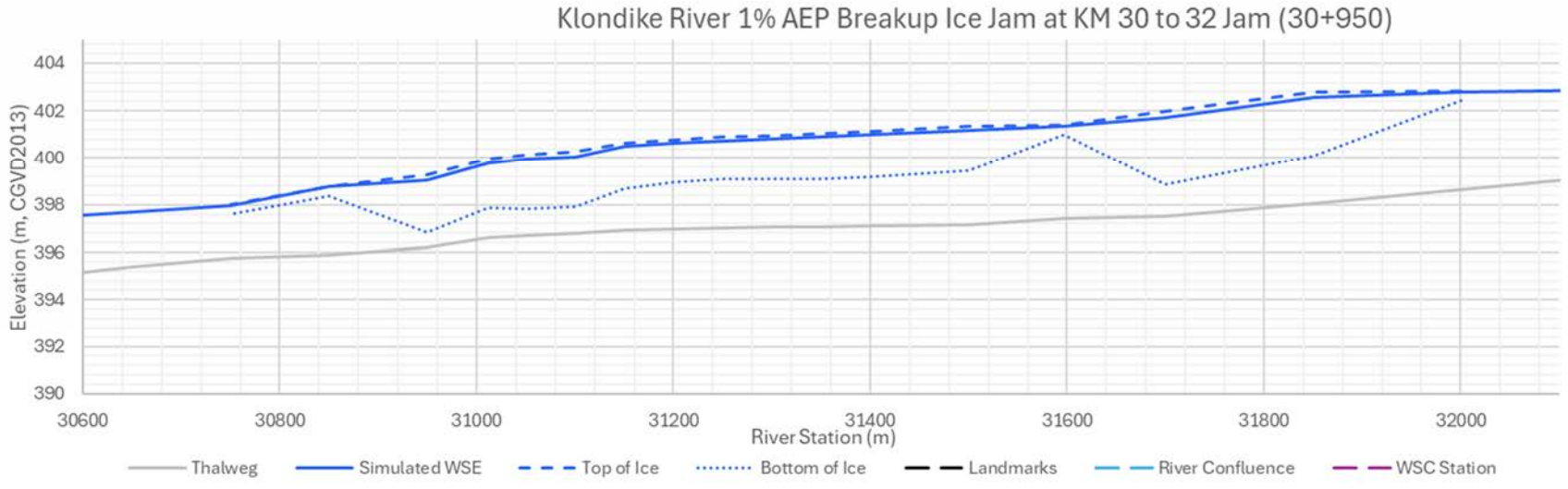
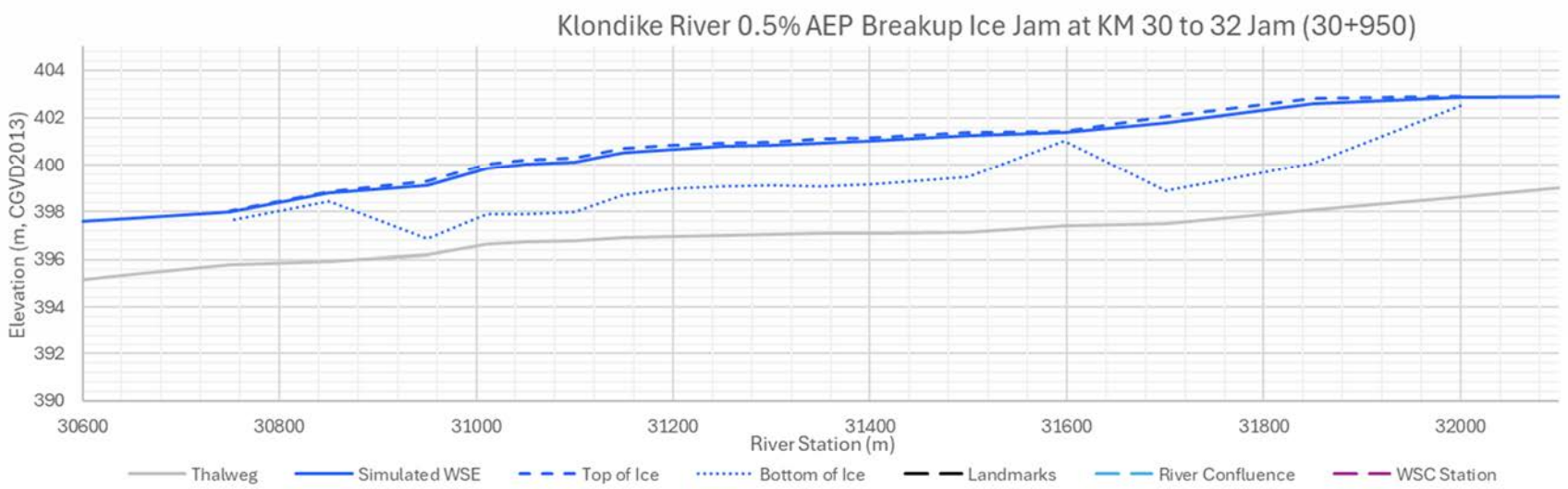
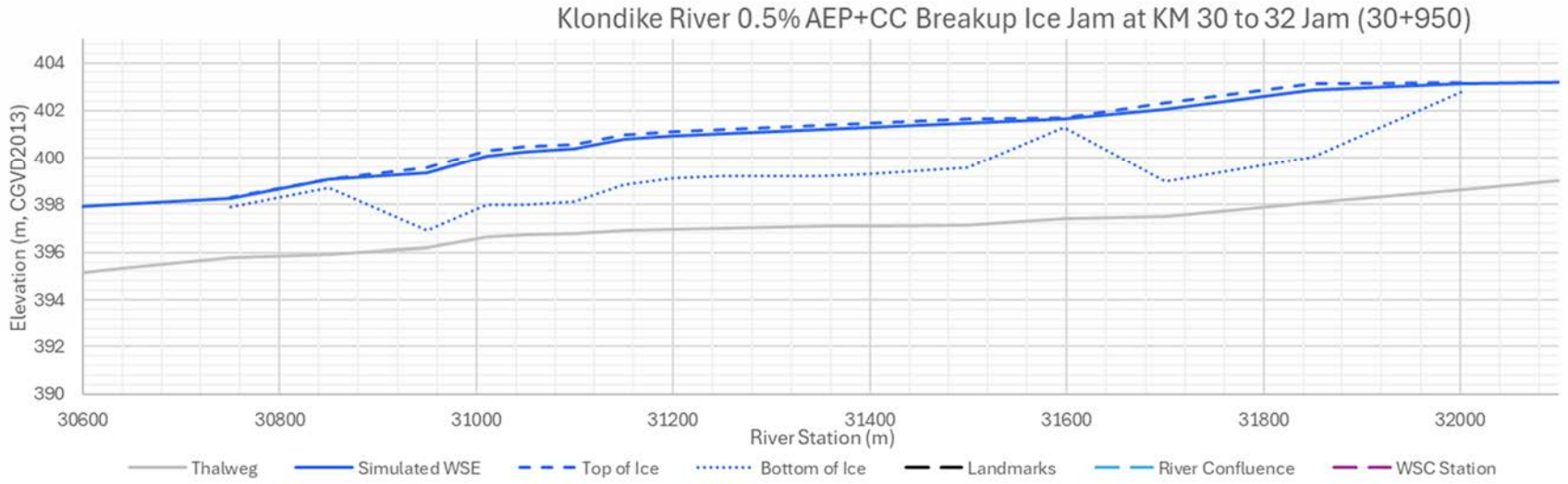
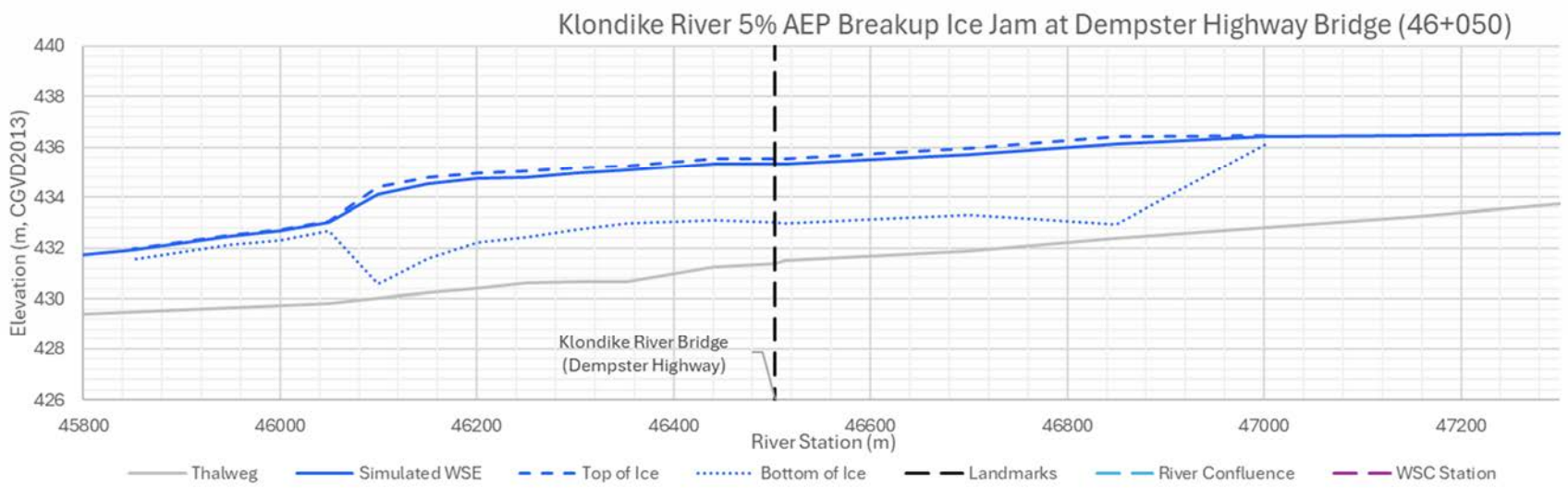
27400
River Station (m)
Thalweg
Simulated WSE
Top of Ice
Bottom of Ice
Landmarks
River Confluence
WSC Station

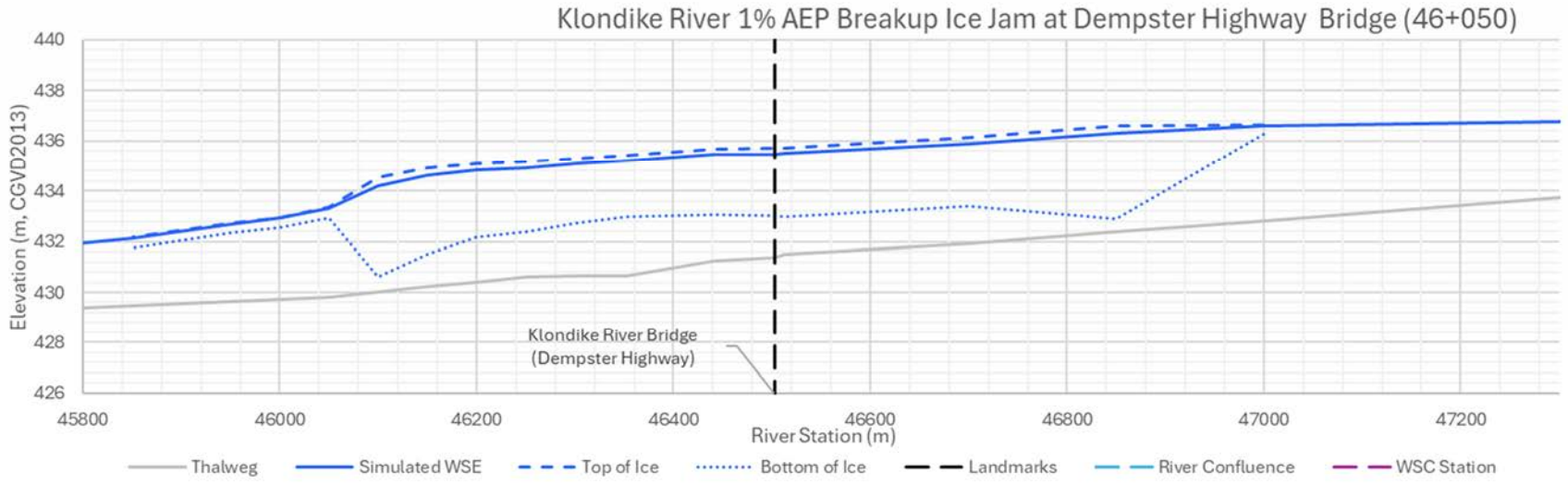

Klondike River 5% AEP Breakup Ice Jam at KM 30 to 32 Jam (30+950)
Elevation (m, CGVD2013)
404
402
400
398
396
394
392
390
30600
30800
31000
31200
31400
31600
31800
32000
River Station (m)
Thalweg
Simulated WSE
Top of Ice
Bottom of Ice
Landmarks
River Confluence
WSC Station

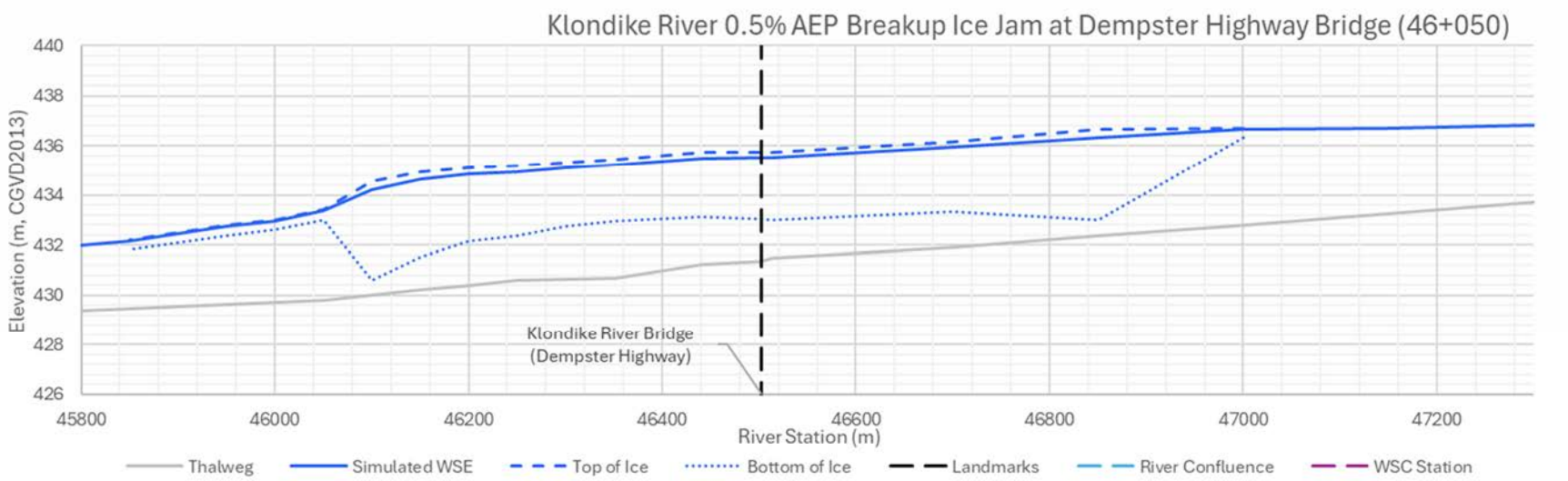

Klondike River 1% AEP Breakup Ice Jam at KM 30 to 32 Jam (30+950)
Elevation (m, CGVD2013)
404
402
400
398
396
394
392
390
30600
30800
31000
31200
31400
31600
31800
32000
River Station (m)
Thalweg
Simulated WSE
Top of Ice
Bottom of Ice
Landmarks
River Confluence
WSC Station

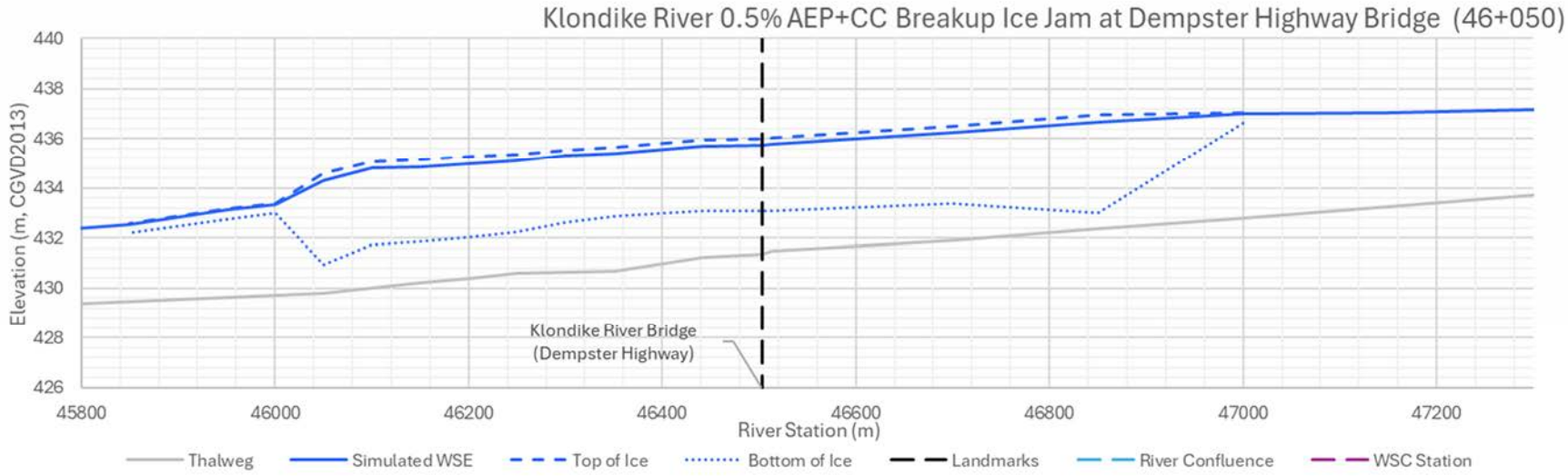

Klondike River 0.5% AEP Breakup Ice Jam at KM 30 to 32 Jam (30+950)
Elevation (m, CGVD2013)
404
402
400
398
396
394
392
390
30600
30800
31000
31200
31400
31600
31800
32000
River Station (m)
Thalweg
Simulated WSE
Top of Ice
Bottom of Ice
Landmarks
River Confluence
WSC Station

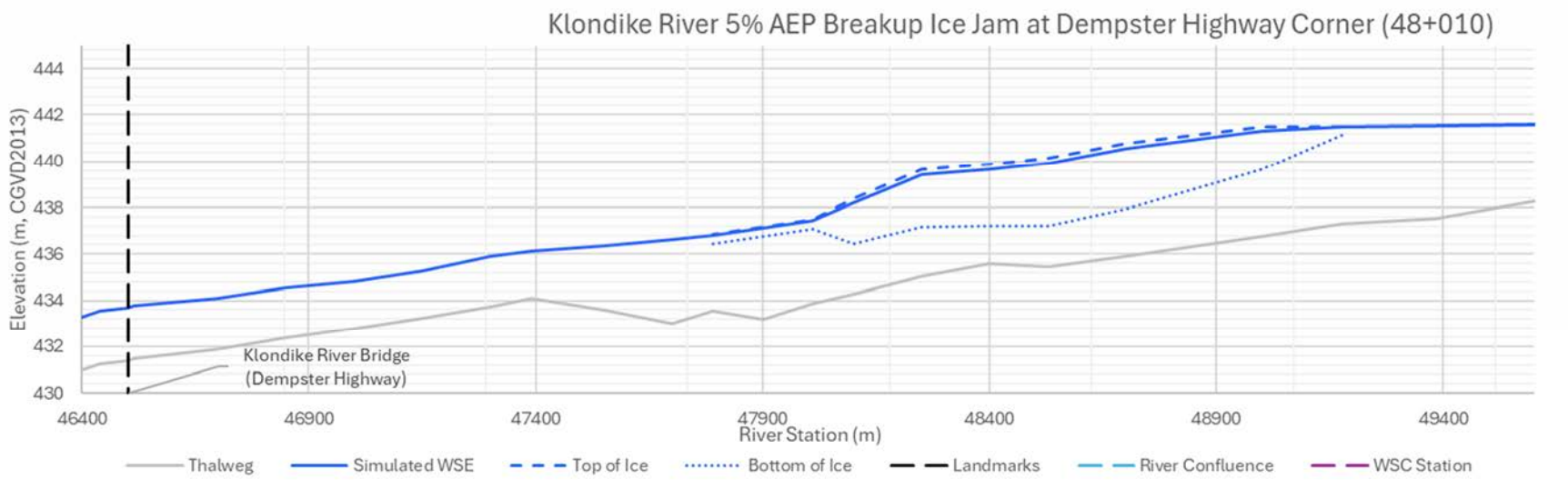

Klondike River 0.5% AEP+CC Breakup Ice Jam at KM 30 to 32 Jam (30+950)
Elevation (m, CGVD2013)
404
402
400
398
396
394
392
390
30600
30800
31000
31200
31400
31600
31800
32000
River Station (m)
Thalweg
Simulated WSE
Top of Ice
Bottom of Ice
Landmarks
River Confluence
WSC Station

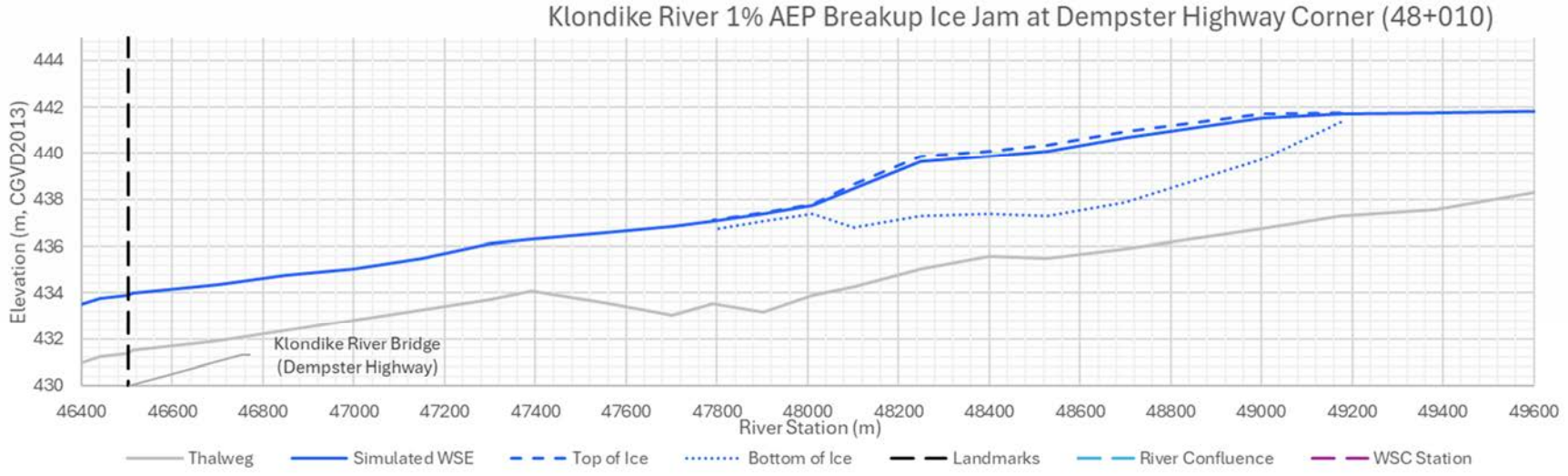

Klondike River 5% AEP Breakup Ice Jam at Dempster Highway Bridge (46+050)
Elevation (m, CGVD2013)
440
438
436
434
432
430
428
426
Klondike River Bridge
(Dempster Highway)
45800
46000
46200
46400
46600
46800
47000
47200
River Station (m)
Thalweg
Simulated WSE
Top of Ice
Bottom of Ice
Landmarks
River Confluence
WSC Station


Klondike River 1% AEP Breakup Ice Jam at Dempster Highway Bridge (46+050)
Elevation (m, CGVD2013)
440
438
436
434
432
430
428
426
Klondike River Bridge
(Dempster Highway)
45800
46000
46200
46400
46600
46800
47000
47200
River Station (m)
Thalweg
Simulated WSE
Top of Ice
Bottom of Ice
Landmarks
River Confluence
WSC Station


Klondike River 0.5% AEP Breakup Ice Jam at Dempster Highway Bridge (46+050)
Elevation (m, CGVD2013)
440
438
436
434
432
430
428
426
45800
46000
46200
46400
46600
46800
47000
47200
River Station (m)
Klondike River Bridge
(Dempster Highway)
Thalweg
Simulated WSE
Top of Ice
Bottom of Ice
Landmarks
River Confluence
WSC Station


Klondike River 0.5% AEP+CC Breakup Ice Jam at Dempster Highway Bridge (46+050)
Elevation (m, CGVD2013)
440
438
436
434
432
430
428
426
45800
46000
46200
46400
46600
46800
47000
47200
River Station (m)
Klondike River Bridge
(Dempster Highway)
Thalweg
Simulated WSE
Top of Ice
Bottom of Ice
Landmarks
River Confluence
WSC Station


Klondike River 5% AEP Breakup Ice Jam at Dempster Highway Corner (48+010)
Elevation (m, CGVD2013)
444
442
440
438
436
434
432
430
Klondike River Bridge
(Dempster Highway)
46400
46900
47400
47900
48400
48900
49400
River Station (m)
Thalweg
Simulated WSE
Top of Ice
Bottom of Ice
Landmarks
River Confluence
WSC Station


Klondike River 1% AEP Breakup Ice Jam at Dempster Highway Corner (48+010)
Elevation (m, CGVD2013)
444
442
440
438
436
434
432
430
Klondike River Bridge
(Dempster Highway)
46400
46600
46800
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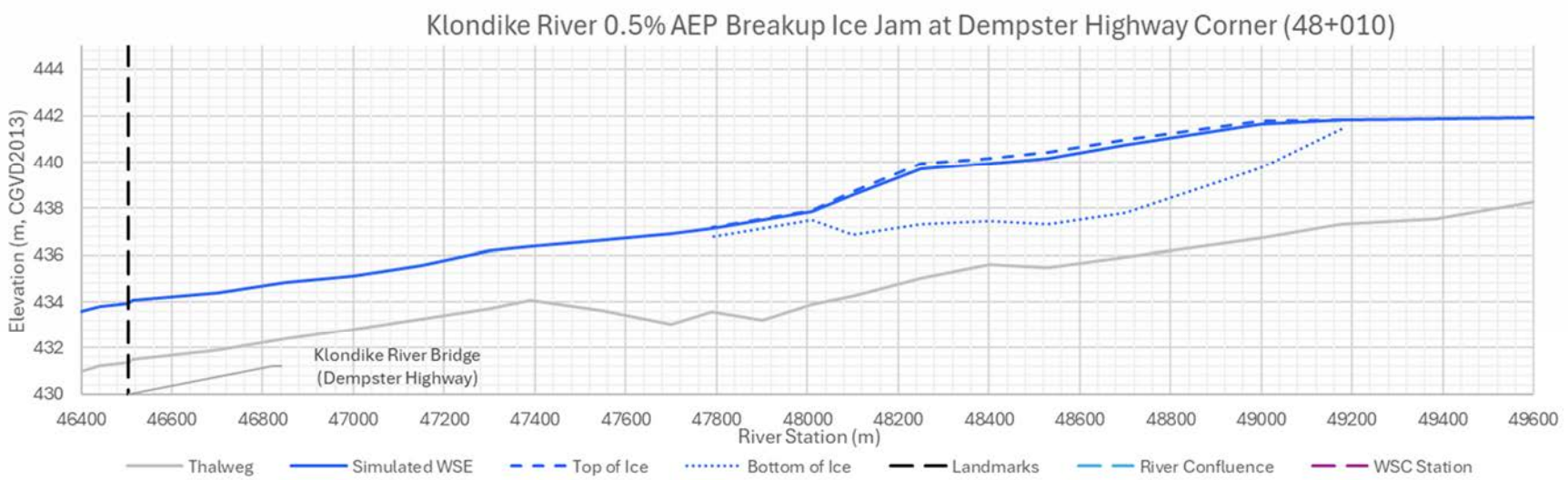
River Station (m)
Thalweg
Simulated WSE
Top of Ice
Bottom of Ice
Landmarks
River Confluence
WSC Station


Klondike River 0.5% AEP Breakup Ice Jam at Dempster Highway Corner (48+010)
Elevation (m, CGVD2013)
444
442
440
438
436
434
432
430
Klondike River Bridge
(Dempster Highway)
46400
46600
46800
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47600
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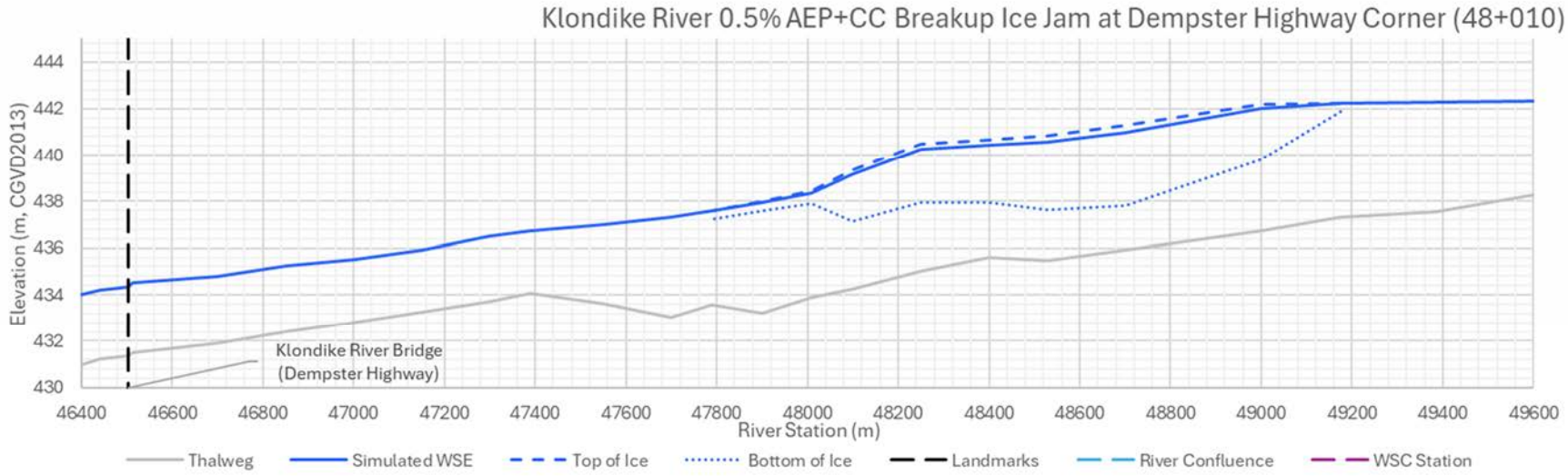
49600
River Station (m)
Thalweg
Simulated WSE
Top of Ice
Bottom of Ice
Landmarks
River Confluence
WSC Station


Klondike River 0.5% AEP+CC Breakup Ice Jam at Dempster Highway Corner (48+010)
Elevation (m, CGVD2013)
444
442
440
438
436
434
432
430
Klondike River Bridge
(Dempster Highway)
46400
46600
46800
47000
47200
47400
47600
47800
48000
48200
48400
48600
48800
49000
49200
49400
49600
River Station (m)
Thalweg
Simulated WSE
Top of Ice
Bottom of Ice
Landmarks
River Confluence
WSC Station

HEC-RAS Plan: OW_AEP

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Yukon River	Reach Upper	33084	5_OW_klondike	8486.60	309.51	320.60	315.68	320.89	0.000251	2.53	3761.05	617.17	0.28
Yukon River	Reach Upper	33084	5_OW_yukon	10497.30	309.51	321.39	316.54	321.74	0.000271	2.79	4320.56	809.98	0.29
Yukon River	Reach Upper	33084	1_OW_klondike	9894.30	309.51	321.19	316.31	321.52	0.000261	2.70	4164.65	781.55	0.29
Yukon River	Reach Upper	33084	1_OW_yukon	12780.60	309.51	322.28	317.20	322.67	0.000274	2.98	5047.08	812.41	0.30
Yukon River	Reach Upper	33084	0p5_OW_klondike	10409.30	309.51	321.41	316.49	321.75	0.000264	2.75	4337.47	810.04	0.29
Yukon River	Reach Upper	33084	0p5_OW_yukon	13784.30	309.51	322.67	317.34	323.07	0.000273	3.05	5359.10	813.24	0.30
Yukon River	Reach Upper	33084	0p5-CC-LC_OW_klo	13433.00	309.51	322.63	317.36	323.01	0.000264	2.99	5324.82	813.16	0.29
Yukon River	Reach Upper	33084	0p5-CC-LC_OW_yuk	17828.10	309.51	324.12	318.64	324.57	0.000268	3.29	6539.68	816.84	0.30
Yukon River	Reach Upper	32363	5_OW_klondike	8486.60	312.15	320.54		320.69	0.000197	1.69	5047.30	1050.94	0.23
Yukon River	Reach Upper	32363	5_OW_yukon	10497.30	312.15	321.35		321.52	0.000190	1.81	5968.95	1154.27	0.23
Yukon River	Reach Upper	32363	1_OW_klondike	9894.30	312.15	321.15		321.31	0.000188	1.76	5739.60	1152.91	0.23
Yukon River	Reach Upper	32363	1_OW_yukon	12780.60	312.15	322.27		322.45	0.000178	1.91	7046.70	1206.60	0.23
Yukon River	Reach Upper	32363	0p5_OW_klondike	10409.30	312.15	321.38		321.54	0.000185	1.79	5994.76	1154.38	0.23
Yukon River	Reach Upper	32363	0p5_OW_yukon	13784.30	312.15	322.66		322.85	0.000173	1.95	7521.94	1215.62	0.23
Yukon River	Reach Upper	32363	0p5-CC-LC_OW_klo	13433.00	312.15	322.62		322.80	0.000167	1.91	7469.99	1214.96	0.22
Yukon River	Reach Upper	32363	0p5-CC-LC_OW_yuk	17828.10	312.15	324.14		324.35	0.000157	2.08	9338.69	1240.78	0.22
Yukon River	Reach Upper	31862	5_OW_klondike	8486.60	312.11	320.36		320.56	0.000293	2.03	4413.76	909.09	0.28
Yukon River	Reach Upper	31862	5_OW_yukon	10497.30	312.11	321.19		321.40	0.000270	2.14	5221.39	1024.30	0.27
Yukon River	Reach Upper	31862	1_OW_klondike	9894.30	312.11	320.99		321.19	0.000269	2.09	5019.28	1022.93	0.27
Yukon River	Reach Upper	31862	1_OW_yukon	12780.60	312.11	322.12		322.34	0.000241	2.22	6193.93	1054.27	0.26
Yukon River	Reach Upper	31862	0p5_OW_klondike	10409.30	312.11	321.21		321.42	0.000261	2.11	5249.91	1024.55	0.27
Yukon River	Reach Upper	31862	0p5_OW_yukon	13784.30	312.11	322.51		322.75	0.000230	2.25	6613.51	1056.69	0.26
Yukon River	Reach Upper	31862	0p5-CC-LC_OW_klo	13433.00	312.11	322.48		322.70	0.000223	2.20	6573.80	1056.57	0.26
Yukon River	Reach Upper	31862	0p5-CC-LC_OW_yuk	17828.10	312.11	324.00		324.26	0.000200	2.36	8194.48	1062.75	0.25
Yukon River	Reach Upper	31034	5_OW_klondike	8486.60	309.49	320.08		320.32	0.000300	2.35	4199.23	988.46	0.29
Yukon River	Reach Upper	31034	5_OW_yukon	10497.30	309.49	320.90		321.17	0.000291	2.50	5046.36	1033.19	0.29
Yukon River	Reach Upper	31034	1_OW_klondike	9894.30	309.49	320.71		320.97	0.000287	2.44	4847.84	1031.24	0.29
Yukon River	Reach Upper	31034	1_OW_yukon	12780.60	309.49	321.85		322.14	0.000271	2.61	6032.87	1043.95	0.29
Yukon River	Reach Upper	31034	0p5_OW_klondike	10409.30	309.49	320.94		321.20	0.000281	2.46	5085.77	1033.57	0.29
Yukon River	Reach Upper	31034	0p5_OW_yukon	13784.30	309.49	322.26		322.55	0.000263	2.65	6455.29	1044.60	0.28
Yukon River	Reach Upper	31034	0p5-CC-LC_OW_klo	13433.00	309.49	322.23		322.51	0.000252	2.59	6426.88	1044.55	0.28
Yukon River	Reach Upper	31034	0p5-CC-LC_OW_yuk	17828.10	309.49	323.77		324.08	0.000238	2.81	8034.65	1048.12	0.28
Yukon River	Reach Upper	29827	5_OW_klondike	8486.60	308.06	319.70		319.96	0.000306	2.46	3922.04	717.69	0.30
Yukon River	Reach Upper	29827	5_OW_yukon	10497.30	308.06	320.53		320.82	0.000299	2.62	4517.12	720.15	0.30
Yukon River	Reach Upper	29827	1_OW_klondike	9894.30	308.06	320.35		320.63	0.000292	2.54	4387.13	719.66	0.29
Yukon River	Reach Upper	29827	1_OW_yukon	12780.60	308.06	321.49		321.81	0.000282	2.74	5207.43	724.47	0.29
Yukon River	Reach Upper	29827	0p5_OW_klondike	10409.30	308.06	320.58		320.87	0.000287	2.57	4555.92	720.29	0.29
Yukon River	Reach Upper	29827	0p5_OW_yukon	13784.30	308.06	321.89		322.23	0.000275	2.79	5502.96	726.24	0.29
Yukon River	Reach Upper	29827	0p5-CC-LC_OW_klo	13433.00	308.06	321.88		322.20	0.000262	2.72	5495.88	726.20	0.29
Yukon River	Reach Upper	29827	0p5-CC-LC_OW_yuk	17828.10	308.06	323.40		323.79	0.000256	2.98	6604.31	733.71	0.29
Yukon River	Reach Upper	28324	5_OW_klondike	8486.60	310.53	319.12		319.42	0.000441	2.45	3473.50	679.87	0.34
Yukon River	Reach Upper	28324	5_OW_yukon	10497.30	310.53	319.96		320.31	0.000412	2.62	4080.69	733.98	0.34
Yukon River	Reach Upper	28324	1_OW_klondike	9894.30	310.53	319.80		320.12	0.000400	2.53	3962.18	731.20	0.33
Yukon River	Reach Upper	28324	1_OW_yukon	12780.60	310.53	320.97		321.34	0.000366	2.73	4903.36	963.32	0.33
Yukon River	Reach Upper	28324	0p5_OW_klondike	10409.30	310.53	320.05		320.38	0.000386	2.56	4144.17	736.83	0.33
Yukon River	Reach Upper	28324	0p5_OW_yukon	13784.30	310.53	321.39		321.77	0.000348	2.76	5337.63	1054.28	0.32
Yukon River	Reach Upper	28324	0p5-CC-LC_OW_klo	13433.00	310.53	321.41		321.77	0.000328	2.69	5358.31	1059.04	0.31
Yukon River	Reach Upper	28324	0p5-CC-LC_OW_yuk	17828.10	310.53	322.98		323.39	0.000295	2.89	7178.08	1205.27	0.30
Yukon River	Reach Upper	27970	5_OW_klondike	8486.60	309.72	319.07		319.27	0.000271	2.20	4527.77	1024.53	0.28
Yukon River	Reach Upper	27970	5_OW_yukon	10497.30	309.72	319.95		320.16	0.000242	2.26	5516.81	1225.69	0.27
Yukon River	Reach Upper	27970	1_OW_klondike	9894.30	309.72	319.78		319.98	0.000237	2.21	5314.83	1190.33	0.26
Yukon River	Reach Upper	27970	1_OW_yukon	12780.60	309.72	320.98		321.19	0.000208	2.29	6817.31	1272.98	0.25
Yukon River	Reach Upper	27970	0p5_OW_klondike	10409.30	309.72	320.04		320.24	0.000226	2.21	5627.62	1231.27	0.26
Yukon River	Reach Upper	27970	0p5_OW_yukon	13784.30	309.72	321.42		321.63	0.000194	2.29	7379.66	1276.88	0.25
Yukon River	Reach Upper	27970	0p5-CC-LC_OW_klo	13433.00	309.72	321.44		321.64	0.000183	2.22	7402.89	1277.13	0.24
Yukon River	Reach Upper	27970	0p5-CC-LC_OW_yuk	17828.10	309.72	323.04		323.25	0.000160	2.32	9456.30	1289.50	0.23
Yukon River	Reach Upper	27183	5_OW_klondike	8486.60	309.00	318.91		319.08	0.000186	2.07	5029.41	1146.55	0.24
Yukon River	Reach Upper	27183	5_OW_yukon	10497.30	309.00	319.81		319.98	0.000176	2.17	6260.28	1628.39	0.23
Yukon River	Reach Upper	27183	1_OW_klondike	9894.30	309.00	319.64		319.81	0.000171	2.11	6001.82	1532.30	0.23
Yukon River	Reach Upper	27183	1_OW_yukon	12780.60	309.00	320.87		321.04	0.000151	2.17	8144.95	1804.60	0.22
Yukon River	Reach Upper	27183	0p5_OW_klondike	10409.30	309.00	319.91		320.08	0.000164	2.11	6427.24	1685.36	0.23
Yukon River	Reach Upper	27183	0p5_OW_yukon	13784.30	309.00	321.33		321.49	0.000142	2.16	8962.68	1813.29	0.22
Yukon River	Reach Upper	27183	0p5-CC-LC_OW_klo	13433.00	309.00	321.35		321.51	0.000133	2.10	9007.29	1814.50	0.21
Yukon River	Reach Upper	27183	0p5-CC-LC_OW_yuk	17828.10	309.00	322.97		323.13	0.000118	2.18	11980.43	1846.20	0.20
Yukon River	Reach Upper	26163	5_OW_klondike	8486.60	310.39	318.81		318.94	0.000112	1.74	5597.66	1326.95	0.21
Yukon River	Reach Upper	26163	5_OW_yukon	10497.30	310.39	319.72		319.85	0.000104	1.81	7010.22	1749.67	0.21
Yukon River	Reach Upper	26163	1_OW_klondike	9894.30	310.39	319.55		319.69	0.000101	1.76	6730.08	1699.73	0.20
Yukon River	Reach Upper	26163	1_OW_yukon	12780.60	310.39	320.80		320.93	0.000089	1.83	8941.14	1789.05	0.20
Yukon River	Reach Upper	26163	0p5_OW_klondike	10409.30	310.39	319.82		319.95	0.000097	1.77	7198.89	1766.46	0.20
Yukon River	Reach Upper	26163	0p5_OW_yukon	13784.30	310.39	321.26		321.39	0.000083	1.83	9761.56	1793.37	0.19
Yukon River	Reach Upper	26163	0p5-CC-LC_OW_klo	13433.00	310.39	321.29		321.41	0.000078	1.78	9813.61	1793.62	0.19
Yukon River	Reach Upper	26163	0p5-CC-LC_OW_yuk	17828.10	310.39	322.92		323.05	0.000070	1.87	12754.07	1809.42	0.18
Yukon River	Reach Upper	25513	5_OW_klondike	8486.60	305.57	318.51		318.83	0.000234	2.72	3780.08	876.62	0.31
Yukon River	Reach Upper	25513	5_OW_yukon	10497.30	305.57	319.39		319.75	0.000234	2.92	4666.23	1163.19	0.31
Yukon River	Reach Upper	25513	1_OW_klondike	9894.30	305.57	319.25		319.59	0.000222	2.82	4506.65	1076.01	0.31
Yukon River	Reach Upper	25513	1_OW_yukon	12780.60	305.57	320.50		320.84	0.000205	2.96	6026.91	1248.51	0.30
Yukon River	Reach Upper	25513	0p5_OW_klondike	10409.30	305.57	319.52		319.86	0.000216	2.83	4819.61	1189.93	0.30
Yukon River	Reach Upper	25513	0p5_OW_yukon	13784.30	305.57	320.96		321.31	0.000195	2.97	6609.63	1249.74	0.30
Yukon River	Reach Upper	25513	0p5-CC-LC_OW_klo	13433.00	305.57	321.01		321.33	0.000181	2.88	6671.52	1249.87	0.28
Yukon River	Reach Upper	25513	0p5-CC-LC_OW_yuk	17828.10	305.57	322.63		322.98	0.000171	3.08	8711.28	1272.99	0.28

HEC-RAS Plan: OW_AEP (Continued)

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Yukon River	Reach Upper	25116	5_OW_klondike	8486.60	308.87	318.35		318.70	0.000289	2.90	3674.27	918.27	0.34
Yukon River	Reach Upper	25116	5_OW_yukon	10497.30	308.87	319.25		319.62	0.000276	3.06	4575.84	1083.25	0.34
Yukon River	Reach Upper	25116	1_OW_klondike	9894.30	308.87	319.11		319.46	0.000262	2.95	4433.00	1071.80	0.33
Yukon River	Reach Upper	25116	1_OW_yukon	12780.60	308.87	320.37		320.73	0.000235	3.08	5795.59	1089.57	0.32
Yukon River	Reach Upper	25116	0p5_OW_klondike	10409.30	308.87	319.39		319.74	0.000252	2.96	4732.75	1085.03	0.33
Yukon River	Reach Upper	25116	0p5_OW_yukon	13784.30	308.87	320.84		321.19	0.000221	3.09	6308.74	1091.72	0.31
Yukon River	Reach Upper	25116	0p5-CC-LC_OW_klo	13433.00	308.87	320.90		321.23	0.000205	2.98	6373.41	1092.00	0.30
Yukon River	Reach Upper	25116	0p5-CC-LC_OW_yuk	17828.10	308.87	322.52		322.88	0.000189	3.17	8150.60	1098.92	0.30
Yukon River	Reach Upper	24839	5_OW_klondike	8486.60	308.47	318.38		318.60	0.000193	2.22	4262.76	909.76	0.28
Yukon River	Reach Upper	24839	5_OW_yukon	10497.30	308.47	319.27		319.52	0.000183	2.35	5083.98	939.89	0.27
Yukon River	Reach Upper	24839	1_OW_klondike	9894.30	308.47	319.14		319.37	0.000174	2.27	4958.48	923.68	0.27
Yukon River	Reach Upper	24839	1_OW_yukon	12780.60	308.47	320.39		320.65	0.000162	2.42	6186.17	1025.01	0.26
Yukon River	Reach Upper	24839	0p5_OW_klondike	10409.30	308.47	319.42		319.65	0.000168	2.28	5217.86	946.93	0.26
Yukon River	Reach Upper	24839	0p5_OW_yukon	13784.30	308.47	320.86		321.12	0.000154	2.45	6666.05	1028.99	0.26
Yukon River	Reach Upper	24839	0p5-CC-LC_OW_klo	13433.00	308.47	320.91		321.16	0.000143	2.37	6725.49	1029.56	0.25
Yukon River	Reach Upper	24839	0p5-CC-LC_OW_yuk	17828.10	308.47	322.53		322.81	0.000137	2.59	8394.64	1036.17	0.25
Yukon River	Reach Upper	24691	5_OW_klondike	8486.60	308.44	318.38		318.57	0.000152	2.06	4684.15	872.77	0.25
Yukon River	Reach Upper	24691	5_OW_yukon	10497.30	308.44	319.27		319.49	0.000145	2.19	5474.21	887.46	0.25
Yukon River	Reach Upper	24691	1_OW_klondike	9894.30	308.44	319.14		319.34	0.000138	2.11	5354.87	881.73	0.24
Yukon River	Reach Upper	24691	1_OW_yukon	12780.60	308.44	320.39		320.61	0.000130	2.25	6507.15	943.92	0.24
Yukon River	Reach Upper	24691	0p5_OW_klondike	10409.30	308.44	319.42		319.62	0.000133	2.12	5601.11	897.12	0.24
Yukon River	Reach Upper	24691	0p5_OW_yukon	13784.30	308.44	320.86		321.09	0.000124	2.28	6949.16	945.55	0.24
Yukon River	Reach Upper	24691	0p5-CC-LC_OW_klo	13433.00	308.44	320.91		321.13	0.000115	2.20	7003.77	945.76	0.23
Yukon River	Reach Upper	24691	0p5-CC-LC_OW_yuk	17828.10	308.44	322.53		322.79	0.000112	2.41	8541.40	955.19	0.23
Yukon River	Reach Upper	24532	5_OW_klondike	8486.60	307.75	318.37		318.54	0.000134	1.82	4781.04	840.68	0.23
Yukon River	Reach Upper	24532	5_OW_yukon	10497.30	307.75	319.26		319.46	0.000133	1.97	5539.25	857.16	0.23
Yukon River	Reach Upper	24532	1_OW_klondike	9894.30	307.75	319.13		319.31	0.000125	1.90	5425.02	852.25	0.22
Yukon River	Reach Upper	24532	1_OW_yukon	12780.60	307.75	320.37		320.59	0.000123	2.08	6497.85	870.22	0.23
Yukon River	Reach Upper	24532	0p5_OW_klondike	10409.30	307.75	319.41		319.59	0.000122	1.92	5661.48	858.67	0.22
Yukon River	Reach Upper	24532	0p5_OW_yukon	13784.30	307.75	320.84		321.07	0.000119	2.12	6903.73	871.97	0.23
Yukon River	Reach Upper	24532	0p5-CC-LC_OW_klo	13433.00	307.75	320.90		321.11	0.000111	2.06	6955.00	872.27	0.22
Yukon River	Reach Upper	24532	0p5-CC-LC_OW_yuk	17828.10	307.75	322.50		322.77	0.000112	2.30	8359.59	879.50	0.23
Yukon River	Reach Upper	24416	5_OW_klondike	8486.60	306.29	318.32		318.52	0.000169	1.98	4350.02	783.17	0.25
Yukon River	Reach Upper	24416	5_OW_yukon	10497.30	306.29	319.21		319.44	0.000164	2.13	5090.57	883.30	0.26
Yukon River	Reach Upper	24416	1_OW_klondike	9894.30	306.29	319.08		319.29	0.000155	2.05	4976.09	874.75	0.25
Yukon River	Reach Upper	24416	1_OW_yukon	12780.60	306.29	320.32		320.57	0.000148	2.23	6084.38	897.84	0.25
Yukon River	Reach Upper	24416	0p5_OW_klondike	10409.30	306.29	319.36		319.57	0.000150	2.07	5220.40	886.30	0.25
Yukon River	Reach Upper	24416	0p5_OW_yukon	13784.30	306.29	320.79		321.05	0.000142	2.27	6503.95	898.69	0.25
Yukon River	Reach Upper	24416	0p5-CC-LC_OW_klo	13433.00	306.29	320.85		321.09	0.000131	2.19	6560.16	898.77	0.24
Yukon River	Reach Upper	24416	0p5-CC-LC_OW_yuk	17828.10	306.29	322.45		322.75	0.000130	2.44	8001.69	901.39	0.24
Yukon River	Reach Upper	24313	5_OW_klondike	8486.60	305.31	318.26		318.49	0.000198	2.13	4044.43	747.84	0.28
Yukon River	Reach Upper	24313	5_OW_yukon	10497.30	305.31	319.15		319.42	0.000191	2.29	4824.19	931.97	0.28
Yukon River	Reach Upper	24313	1_OW_klondike	9894.30	305.31	319.03		319.27	0.000180	2.20	4706.58	927.72	0.27
Yukon River	Reach Upper	24313	1_OW_yukon	12780.60	305.31	320.27		320.55	0.000169	2.38	5881.04	954.52	0.27
Yukon River	Reach Upper	24313	0p5_OW_klondike	10409.30	305.31	319.30		319.55	0.000174	2.22	4965.58	938.46	0.27
Yukon River	Reach Upper	24313	0p5_OW_yukon	13784.30	305.31	320.74		321.03	0.000162	2.41	6328.61	955.60	0.26
Yukon River	Reach Upper	24313	0p5-CC-LC_OW_klo	13433.00	305.31	320.80		321.08	0.000149	2.33	6391.93	955.72	0.25
Yukon River	Reach Upper	24313	0p5-CC-LC_OW_yuk	17828.10	305.31	322.41		322.73	0.000145	2.58	7927.34	962.35	0.26
Yukon River	Reach Upper	24212	5_OW_klondike	8486.60	304.88	318.22		318.47	0.000231	2.23	3903.82	824.41	0.29
Yukon River	Reach Upper	24212	5_OW_yukon	10497.30	304.88	319.11		319.40	0.000217	2.38	4734.70	994.78	0.29
Yukon River	Reach Upper	24212	1_OW_klondike	9894.30	304.88	318.98		319.25	0.000206	2.29	4611.50	991.79	0.28
Yukon River	Reach Upper	24212	1_OW_yukon	12780.60	304.88	320.23		320.53	0.000188	2.46	5863.33	1010.58	0.28
Yukon River	Reach Upper	24212	0p5_OW_klondike	10409.30	304.88	319.26		319.53	0.000197	2.31	4890.01	996.41	0.28
Yukon River	Reach Upper	24212	0p5_OW_yukon	13784.30	304.88	320.70		321.01	0.000178	2.49	6340.29	1012.26	0.27
Yukon River	Reach Upper	24212	0p5-CC-LC_OW_klo	13433.00	304.88	320.77		321.06	0.000164	2.40	6410.39	1012.44	0.26
Yukon River	Reach Upper	24212	0p5-CC-LC_OW_yuk	17828.10	304.88	322.38		322.72	0.000156	2.63	8039.80	1016.72	0.27
Yukon River	Reach Lower	23731	5_OW_klondike	9200.00	303.17	317.84	314.19	318.28	0.000845	2.92	3152.33	517.13	0.38
Yukon River	Reach Lower	23731	5_OW_yukon	11100.00	303.17	318.73	315.32	319.21	0.000786	3.07	3618.98	549.17	0.37
Yukon River	Reach Lower	23731	1_OW_klondike	10800.00	303.17	318.60	315.26	319.07	0.000795	3.05	3546.87	531.92	0.37
Yukon River	Reach Lower	23731	1_OW_yukon	13600.00	303.17	319.83	315.86	320.37	0.000722	3.25	4202.42	795.42	0.37
Yukon River	Reach Lower	23731	0p5_OW_klondike	11400.00	303.17	318.87	315.40	319.36	0.000776	3.09	3691.20	605.45	0.37
Yukon River	Reach Lower	23731	0p5_OW_yukon	14700.00	303.17	320.29	316.08	320.85	0.000701	3.32	4447.17	827.42	0.36
Yukon River	Reach Lower	23731	0p5-CC-LC_OW_klo	14820.00	303.17	320.34	316.11	320.90	0.000699	3.33	4473.45	830.77	0.36
Yukon River	Reach Lower	23731	0p5-CC-LC_OW_yuk	19110.00	303.17	322.02	316.92	322.58	0.000575	3.40	6246.39	910.62	0.34
Yukon River	Reach Lower	23624	5_OW_klondike	9200.00	303.04	317.68	314.24	318.18	0.000860	3.11	2964.11	451.78	0.39
Yukon River	Reach Lower	23624	5_OW_yukon	11100.00	303.04	318.55	315.00	319.11	0.000829	3.31	3359.32	471.00	0.39
Yukon River	Reach Lower	23624	1_OW_klondike	10800.00	303.04	318.42	314.92	318.97	0.000834	3.28	3298.50	455.90	0.39
Yukon River	Reach Lower	23624	1_OW_yukon	13600.00	303.04	319.63	315.58	320.27	0.000796	3.54	3850.83	766.26	0.39
Yukon River	Reach Lower	23624	0p5_OW_klondike	11400.00	303.04	318.69	315.07	319.26	0.000825	3.34	3420.22	478.97	0.39
Yukon River	Reach Lower	23624	0p5_OW_yukon	14700.00	303.04	320.07	315.84	320.75	0.000784	3.64	4057.07	788.93	0.39
Yukon River	Reach Lower	23624	0p5-CC-LC_OW_klo	14820.00	303.04	320.12	315.86	320.80	0.000783	3.65	4079.20	790.75	0.39
Yukon River	Reach Lower	23624	0p5-CC-LC_OW_yuk	19110.00	303.04	321.81	316.77	322.49	0.000656	3.74	5769.22	852.32	0.36
Yukon River	Reach Lower	23530	5_OW_klondike	9200.00	302.73	317.62	313.48	318.10	0.000704	3.06	3007.91	399.71	0.36
Yukon River	Reach Lower	23530	5_OW_yukon	11100.00	302.73	318.48	314.22	319.04	0.000715	3.31	3353.68	509.29	0.37
Yukon River	Reach Lower	23530	1_OW_klondike	10800.00	302.73	318.35	314.13	318.90	0.000713	3.27	3300.75	500.27	0.36
Yukon River	Reach Lower	23530	1_OW_yukon	13600.00	302.73	319.53	314.89	320.19	0.000725	3.61	3775.43	745.04	0.37
Yukon River	Reach Lower	23530	0p5_OW_klondike	11400.00	302.73	318.61	314.30	319.18	0.000716	3.35	3406.14	512.71	0.37
Yukon River	Reach Lower	23530	0p5_OW_yukon	14700.00	302.73	319.96	315.16	320.67	0.000729	3.73	3951.42	755.85	0.38
Yukon River	Reach Lower	23530	0p5-CC-LC_OW_klo	14820.00	302.73	320.01	315.20	320.72	0.000729	3.74	3970.30	756.22	0.38
Yukon River	Reach Lower	23530	0p5-CC-LC_OW_yuk	19110.00	302.73	321.72	316.20	322.43	0.000623	3.84	5736.76	838.54	0.36

HEC-RAS Plan: OW_AEP (Continued)

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Yukon River	Reach Lower	23462	5_OW_klondike	9200.00	302.74	317.58	313.02	318.07	0.000300	3.08	2986.99	385.63	0.35
Yukon River	Reach Lower	23462	5_OW_yukon	11100.00	302.74	318.44	313.89	319.01	0.000310	3.35	3317.73	511.82	0.36
Yukon River	Reach Lower	23462	1_OW_klondike	10800.00	302.74	318.30	313.78	318.86	0.000308	3.31	3267.10	459.92	0.36
Yukon River	Reach Lower	23462	1_OW_yukon	13600.00	302.74	319.47	314.67	320.16	0.000319	3.67	3722.26	755.67	0.38
Yukon River	Reach Lower	23462	0p5_OW_klondike	11400.00	302.74	318.56	313.98	319.15	0.000311	3.39	3367.96	537.15	0.36
Yukon River	Reach Lower	23462	0p5_OW_yukon	14700.00	302.74	319.90	314.98	320.63	0.000322	3.79	3891.39	766.24	0.38
Yukon River	Reach Lower	23462	0p5-CC-LC_OW_klo	14820.00	302.74	319.95	315.01	320.69	0.000323	3.81	3909.53	766.81	0.38
Yukon River	Reach Lower	23462	0p5-CC-LC_OW_yuk	19110.00	302.74	321.62	316.06	322.39	0.000292	4.01	5728.28	838.99	0.37
Yukon River	Reach Lower	23387	5_OW_klondike	9200.00	302.37	317.53	312.45	318.04	0.000314	3.16	2908.15	371.60	0.36
Yukon River	Reach Lower	23387	5_OW_yukon	11100.00	302.37	318.37	313.73	318.98	0.000326	3.45	3222.73	494.99	0.37
Yukon River	Reach Lower	23387	1_OW_klondike	10800.00	302.37	318.25	313.54	318.84	0.000324	3.41	3174.60	480.40	0.37
Yukon River	Reach Lower	23387	1_OW_yukon	13600.00	302.37	319.40	314.65	320.13	0.000338	3.78	3606.49	670.98	0.39
Yukon River	Reach Lower	23387	0p5_OW_klondike	11400.00	302.37	318.50	313.83	319.12	0.000327	3.49	3270.46	504.33	0.37
Yukon River	Reach Lower	23387	0p5_OW_yukon	14700.00	302.37	319.82	315.00	320.61	0.000342	3.91	3767.01	686.40	0.39
Yukon River	Reach Lower	23387	0p5-CC-LC_OW_klo	14820.00	302.37	319.87	315.03	320.66	0.000342	3.93	3784.23	689.74	0.39
Yukon River	Reach Lower	23387	0p5-CC-LC_OW_yuk	19110.00	302.37	321.52	316.10	322.36	0.000316	4.17	5454.35	819.80	0.39
Yukon River	Reach Lower	23323	5_OW_klondike	9200.00	302.29	317.49	312.21	318.02	0.000313	3.21	2863.78	352.92	0.36
Yukon River	Reach Lower	23323	5_OW_yukon	11100.00	302.29	318.33	313.33	318.96	0.000329	3.51	3161.38	395.25	0.37
Yukon River	Reach Lower	23323	1_OW_klondike	10800.00	302.29	318.20	313.22	318.81	0.000327	3.47	3115.80	376.40	0.37
Yukon River	Reach Lower	23323	1_OW_yukon	13600.00	302.29	319.34	314.34	320.10	0.000345	3.87	3525.02	656.31	0.39
Yukon River	Reach Lower	23323	0p5_OW_klondike	11400.00	302.29	318.45	313.45	319.10	0.000331	3.56	3206.60	414.85	0.38
Yukon River	Reach Lower	23323	0p5_OW_yukon	14700.00	302.29	319.76	314.88	320.58	0.000352	4.01	3676.91	684.38	0.40
Yukon River	Reach Lower	23323	0p5-CC-LC_OW_klo	14820.00	302.29	319.81	314.88	320.63	0.000352	4.02	3693.21	691.21	0.40
Yukon River	Reach Lower	23323	0p5-CC-LC_OW_yuk	19110.00	302.29	321.42	316.02	322.34	0.000334	4.31	5231.21	799.32	0.40
Yukon River	Reach Lower	23245	5_OW_klondike	9200.00	302.93	317.45	312.14	317.99	0.000308	3.26	2821.30	340.50	0.36
Yukon River	Reach Lower	23245	5_OW_yukon	11100.00	302.93	318.28	313.03	318.93	0.000328	3.58	3105.35	345.84	0.38
Yukon River	Reach Lower	23245	1_OW_klondike	10800.00	302.93	318.15	312.87	318.79	0.000325	3.53	3061.87	345.49	0.37
Yukon River	Reach Lower	23245	1_OW_yukon	13600.00	302.93	319.27	314.14	320.07	0.000349	3.96	3452.11	609.66	0.39
Yukon River	Reach Lower	23245	0p5_OW_klondike	11400.00	302.93	318.40	313.20	319.07	0.000331	3.63	3148.49	352.99	0.38
Yukon River	Reach Lower	23245	0p5_OW_yukon	14700.00	302.93	319.69	314.74	320.55	0.000357	4.11	3597.01	657.25	0.40
Yukon River	Reach Lower	23245	0p5-CC-LC_OW_klo	14820.00	302.93	319.73	314.78	320.60	0.000358	4.12	3612.54	664.09	0.40
Yukon River	Reach Lower	23245	0p5-CC-LC_OW_yuk	19110.00	302.93	321.33	315.91	322.30	0.000348	4.46	5027.84	771.93	0.41
Yukon River	Reach Lower	23162	5_OW_klondike	9200.00	302.95	317.38	312.12	317.96	0.000316	3.37	2730.03	322.16	0.36
Yukon River	Reach Lower	23162	5_OW_yukon	11100.00	302.95	318.19	312.93	318.90	0.000342	3.72	2991.28	351.13	0.39
Yukon River	Reach Lower	23162	1_OW_klondike	10800.00	302.95	318.07	312.80	318.75	0.000338	3.67	2951.37	340.38	0.38
Yukon River	Reach Lower	23162	1_OW_yukon	13600.00	302.95	319.17	313.98	320.03	0.000370	4.13	3309.22	526.58	0.41
Yukon River	Reach Lower	23162	0p5_OW_klondike	11400.00	302.95	318.31	313.05	319.04	0.000346	3.77	3030.85	356.30	0.39
Yukon River	Reach Lower	23162	0p5_OW_yukon	14700.00	302.95	319.57	314.68	320.51	0.000381	4.30	3442.15	622.14	0.42
Yukon River	Reach Lower	23162	0p5-CC-LC_OW_klo	14820.00	302.95	319.61	314.72	320.56	0.000382	4.31	3456.40	641.70	0.42
Yukon River	Reach Lower	23162	0p5-CC-LC_OW_yuk	19110.00	302.95	321.18	315.89	322.26	0.000378	4.69	4829.19	787.33	0.42
Yukon River	Reach Lower	23063	5_OW_klondike	9200.00	303.28	317.35	311.92	317.93	0.000287	3.38	2723.91	299.12	0.35
Yukon River	Reach Lower	23063	5_OW_yukon	11100.00	303.28	318.14	312.71	318.86	0.000320	3.76	2962.88	313.73	0.38
Yukon River	Reach Lower	23063	1_OW_klondike	10800.00	303.28	318.02	312.60	318.72	0.000315	3.70	2926.37	303.49	0.37
Yukon River	Reach Lower	23063	1_OW_yukon	13600.00	303.28	319.10	313.62	319.99	0.000355	4.20	3253.10	522.83	0.40
Yukon River	Reach Lower	23063	0p5_OW_klondike	11400.00	303.28	318.26	312.83	319.00	0.000324	3.81	2999.05	344.40	0.38
Yukon River	Reach Lower	23063	0p5_OW_yukon	14700.00	303.28	319.49	314.20	320.47	0.000369	4.38	3373.81	669.49	0.41
Yukon River	Reach Lower	23063	0p5-CC-LC_OW_klo	14820.00	303.28	319.53	314.23	320.52	0.000370	4.40	3386.74	673.05	0.41
Yukon River	Reach Lower	23063	0p5-CC-LC_OW_yuk	19110.00	303.28	321.09	315.53	322.22	0.000372	4.81	4807.97	803.63	0.42
Yukon River	Reach Lower	22966	5_OW_klondike	9200.00	304.10	317.35	311.46	317.90	0.000250	3.28	2802.06	283.38	0.33
Yukon River	Reach Lower	22966	5_OW_yukon	11100.00	304.10	318.14	312.24	318.82	0.000283	3.67	3027.45	287.21	0.36
Yukon River	Reach Lower	22966	1_OW_klondike	10800.00	304.10	318.02	312.12	318.68	0.000279	3.61	2992.98	286.86	0.36
Yukon River	Reach Lower	22966	1_OW_yukon	13600.00	304.10	319.09	313.16	319.95	0.000320	4.13	3300.90	356.06	0.39
Yukon River	Reach Lower	22966	0p5_OW_klondike	11400.00	304.10	318.26	312.36	318.96	0.000288	3.73	3061.59	288.11	0.36
Yukon River	Reach Lower	22966	0p5_OW_yukon	14700.00	304.10	319.48	313.54	320.43	0.000335	4.31	3414.30	486.83	0.40
Yukon River	Reach Lower	22966	0p5-CC-LC_OW_klo	14820.00	304.10	319.52	313.59	320.48	0.000336	4.33	3426.44	518.98	0.40
Yukon River	Reach Lower	22966	0p5-CC-LC_OW_yuk	19110.00	304.10	321.00	315.08	322.18	0.000362	4.86	4553.20	774.44	0.42
Yukon River	Reach Lower	22869	5_OW_klondike	9200.00	304.06	317.34	311.39	317.87	0.000236	3.20	2872.78	287.41	0.32
Yukon River	Reach Lower	22869	5_OW_yukon	11100.00	304.06	318.13	312.10	318.79	0.000266	3.58	3101.52	292.30	0.35
Yukon River	Reach Lower	22869	1_OW_klondike	10800.00	304.06	318.01	312.00	318.65	0.000262	3.52	3066.43	291.34	0.34
Yukon River	Reach Lower	22869	1_OW_yukon	13600.00	304.06	319.08	312.99	319.91	0.000302	4.03	3381.01	390.57	0.38
Yukon River	Reach Lower	22869	0p5_OW_klondike	11400.00	304.06	318.25	312.22	318.93	0.000271	3.64	3136.34	292.85	0.35
Yukon River	Reach Lower	22869	0p5_OW_yukon	14700.00	304.06	319.48	313.36	320.38	0.000316	4.21	3497.16	512.99	0.39
Yukon River	Reach Lower	22869	0p5-CC-LC_OW_klo	14820.00	304.06	319.52	313.41	320.43	0.000317	4.23	3509.59	536.83	0.39
Yukon River	Reach Lower	22869	0p5-CC-LC_OW_yuk	19110.00	304.06	321.01	314.84	322.13	0.000341	4.74	4678.44	773.77	0.41
Yukon River	Reach Lower	22783	5_OW_klondike	9200.00	303.94	317.35	311.26	317.84	0.000214	3.09	2981.14	295.39	0.31
Yukon River	Reach Lower	22783	5_OW_yukon	11100.00	303.94	318.14	311.95	318.75	0.000243	3.45	3218.16	301.47	0.33
Yukon River	Reach Lower	22783	1_OW_klondike	10800.00	303.94	318.02	311.85	318.61	0.000239	3.40	3181.75	301.02	0.33
Yukon River	Reach Lower	22783	1_OW_yukon	13600.00	303.94	319.10	312.81	319.87	0.000276	3.89	3507.62	326.13	0.36
Yukon River	Reach Lower	22783	0p5_OW_klondike	11400.00	303.94	318.26	312.07	318.89	0.000247	3.51	3254.23	301.92	0.34
Yukon River	Reach Lower	22783	0p5_OW_yukon	14700.00	303.94	319.49	313.18	320.34	0.000289	4.07	3627.99	465.68	0.37
Yukon River	Reach Lower	22783	0p5-CC-LC_OW_klo	14820.00	303.94	319.54	313.21	320.39	0.000290	4.09	3640.89	513.25	0.37
Yukon River	Reach Lower	22783	0p5-CC-LC_OW_yuk	19110.00	303.94	321.03	314.59	322.08	0.000315	4.60	4774.02	782.58	0.40
Yukon River	Reach Lower	22679	5_OW_klondike	9200.00	304.84	317.35	311.56	317.80	0.000213	2.99	3072.49	317.80	0.31
Yukon River	Reach Lower	22679	5_OW_yukon	11100.00	304.84	318.15	312.20	318.71	0.000238	3.34	3328.24	321.58	0.33
Yukon River	Reach Lower	22679	1_OW_klondike	10800.00	304.84	318.02	312.10	318.57	0.000234	3.29	3289.12	321.18	0.33
Yukon River	Reach Lower	22679	1_OW_yukon	13600.00	304.84	319.11	313.00	319.82	0.000266	3.75	3639.59	367.81	0.35
Yukon River	Reach Lower	22679	0p5_OW_klondike	11400.00	304.84	318.27	312.30	318.85	0.000242	3.39	3367.01	322.06	0.33
Yukon River	Reach Lower	22679	0p5_OW_yukon	14700.00	304.84	319.51	313.34	320.29	0.000278	3.91	3769.23	536.62	0.36
Yukon River	Reach Lower	22679	0p5-CC-LC_OW_klo	14820.00	304.84	319.55	313.37	320.34	0.000279	3.93	3783.15	552.65	0.36
Yukon River	Reach Lower	22679	0p5-CC-LC_OW_yuk	19110.00	304.84	321.05	314.67	322.02	0.000300	4.41	4900.14	759.33	0.38

HEC-RAS Plan: OW_AEP (Continued)

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Yukon River	Reach Lower	22594	5_OW_klondike	9200.00	305.38	317.35	311.73	317.78	0.000209	2.89	3181.27	337.91	0.30
Yukon River	Reach Lower	22594	5_OW_yukon	11100.00	305.38	318.15	312.35	318.68	0.000233	3.21	3455.32	345.01	0.32
Yukon River	Reach Lower	22594	1_OW_klondike	10800.00	305.38	318.03	312.26	318.54	0.000230	3.16	3413.03	344.11	0.32
Yukon River	Reach Lower	22594	1_OW_yukon	13600.00	305.38	319.13	313.12	319.78	0.000258	3.59	3792.08	360.45	0.34
Yukon River	Reach Lower	22594	0p5_OW_klondike	11400.00	305.38	318.28	312.44	318.82	0.000236	3.26	3497.23	345.46	0.32
Yukon River	Reach Lower	22594	0p5_OW_yukon	14700.00	305.38	319.53	313.45	320.24	0.000267	3.75	3932.35	464.31	0.35
Yukon River	Reach Lower	22594	0p5-CC-LC_OW_klo	14820.00	305.38	319.57	313.48	320.29	0.000268	3.76	3947.39	483.55	0.35
Yukon River	Reach Lower	22594	0p5-CC-LC_OW_yuk	19110.00	305.38	321.08	314.70	321.98	0.000288	4.23	4982.06	739.14	0.37
Yukon River	Reach Lower	22499	5_OW_klondike	9200.00	305.90	317.36	311.66	317.74	0.000195	2.73	3378.78	379.42	0.29
Yukon River	Reach Lower	22499	5_OW_yukon	11100.00	305.90	318.18	312.28	318.64	0.000214	3.02	3689.95	385.04	0.31
Yukon River	Reach Lower	22499	1_OW_klondike	10800.00	305.90	318.05	312.19	318.50	0.000211	2.98	3642.20	384.59	0.31
Yukon River	Reach Lower	22499	1_OW_yukon	13600.00	305.90	319.16	313.01	319.74	0.000233	3.36	4070.11	462.26	0.33
Yukon River	Reach Lower	22499	0p5_OW_klondike	11400.00	305.90	318.30	312.37	318.78	0.000216	3.06	3737.32	385.29	0.31
Yukon River	Reach Lower	22499	0p5_OW_yukon	14700.00	305.90	319.57	313.31	320.19	0.000240	3.50	4228.67	565.37	0.33
Yukon River	Reach Lower	22499	0p5-CC-LC_OW_klo	14820.00	305.90	319.61	313.34	320.24	0.000241	3.51	4245.69	580.76	0.33
Yukon River	Reach Lower	22499	0p5-CC-LC_OW_yuk	19110.00	305.90	321.14	314.48	321.91	0.000254	3.93	5335.45	704.81	0.35
Yukon River	Reach Lower	22376	5_OW_klondike	9200.00	306.45	317.34	311.94	317.72	0.000196	2.73	3383.68	384.09	0.29
Yukon River	Reach Lower	22376	5_OW_yukon	11100.00	306.45	318.15	312.51	318.61	0.000214	3.01	3699.62	394.16	0.31
Yukon River	Reach Lower	22376	1_OW_klondike	10800.00	306.45	318.03	312.42	318.48	0.000212	2.97	3650.88	392.85	0.31
Yukon River	Reach Lower	22376	1_OW_yukon	13600.00	306.45	319.14	313.20	319.71	0.000233	3.35	4095.93	440.47	0.33
Yukon River	Reach Lower	22376	0p5_OW_klondike	11400.00	306.45	318.27	312.60	318.75	0.000217	3.06	3748.08	395.45	0.31
Yukon River	Reach Lower	22376	0p5_OW_yukon	14700.00	306.45	319.54	313.50	320.16	0.000239	3.48	4265.75	488.92	0.33
Yukon River	Reach Lower	22376	0p5-CC-LC_OW_klo	14820.00	306.45	319.59	313.53	320.21	0.000240	3.50	4283.97	491.71	0.33
Yukon River	Reach Lower	22376	0p5-CC-LC_OW_yuk	19110.00	306.45	321.11	314.62	321.88	0.000254	3.92	5278.75	706.63	0.35
Yukon River	Reach Lower	22268	5_OW_klondike	9200.00	306.94	317.36	312.10	317.68	0.000177	2.49	3689.40	437.82	0.27
Yukon River	Reach Lower	22268	5_OW_yukon	11100.00	306.94	318.19	312.60	318.57	0.000189	2.74	4050.52	440.69	0.29
Yukon River	Reach Lower	22268	1_OW_klondike	10800.00	306.94	318.06	312.53	318.43	0.000187	2.70	3995.20	440.36	0.29
Yukon River	Reach Lower	22268	1_OW_yukon	13600.00	306.94	319.18	313.25	319.65	0.000202	3.03	4491.04	479.47	0.30
Yukon River	Reach Lower	22268	0p5_OW_klondike	11400.00	306.94	318.31	312.69	318.70	0.000191	2.78	4105.36	440.91	0.29
Yukon River	Reach Lower	22268	0p5_OW_yukon	14700.00	306.94	319.60	313.52	320.10	0.000206	3.15	4674.52	537.18	0.31
Yukon River	Reach Lower	22268	0p5-CC-LC_OW_klo	14820.00	306.94	319.64	313.55	320.15	0.000207	3.16	4694.23	539.00	0.31
Yukon River	Reach Lower	22268	0p5-CC-LC_OW_yuk	19110.00	306.94	321.18	314.57	321.82	0.000217	3.54	5617.90	593.98	0.32
Yukon River	Reach Lower	22140	5_OW_klondike	9200.00	307.43	317.35		317.65	0.000191	2.45	3753.74	488.00	0.28
Yukon River	Reach Lower	22140	5_OW_yukon	11100.00	307.43	318.17		318.54	0.000199	2.67	4168.82	517.28	0.29
Yukon River	Reach Lower	22140	1_OW_klondike	10800.00	307.43	318.05		318.40	0.000198	2.64	4103.77	511.94	0.29
Yukon River	Reach Lower	22140	1_OW_yukon	13600.00	307.43	319.18		319.62	0.000206	2.93	4704.42	535.28	0.30
Yukon River	Reach Lower	22140	0p5_OW_klondike	11400.00	307.43	318.30		318.67	0.000200	2.71	4234.51	528.66	0.29
Yukon River	Reach Lower	22140	0p5_OW_yukon	14700.00	307.43	319.60		320.07	0.000208	3.03	4929.86	542.82	0.31
Yukon River	Reach Lower	22140	0p5-CC-LC_OW_klo	14820.00	307.43	319.64		320.11	0.000208	3.04	4954.26	543.19	0.31
Yukon River	Reach Lower	22140	0p5-CC-LC_OW_yuk	19110.00	307.43	321.19		321.77	0.000213	3.38	5804.08	557.16	0.32
Yukon River	Reach Lower	22031	5_OW_klondike	9200.00	307.80	317.32		317.63	0.000197	2.47	3726.00	487.30	0.28
Yukon River	Reach Lower	22031	5_OW_yukon	11100.00	307.80	318.15		318.52	0.000204	2.69	4130.58	493.13	0.29
Yukon River	Reach Lower	22031	1_OW_klondike	10800.00	307.80	318.02		318.38	0.000203	2.66	4068.40	491.68	0.29
Yukon River	Reach Lower	22031	1_OW_yukon	13600.00	307.80	319.15		319.59	0.000211	2.94	4631.86	503.44	0.31
Yukon River	Reach Lower	22031	0p5_OW_klondike	11400.00	307.80	318.27		318.65	0.000205	2.72	4192.37	494.58	0.30
Yukon River	Reach Lower	22031	0p5_OW_yukon	14700.00	307.80	319.57		320.04	0.000213	3.05	4842.70	507.43	0.31
Yukon River	Reach Lower	22031	0p5-CC-LC_OW_klo	14820.00	307.80	319.61		320.09	0.000214	3.06	4865.50	509.97	0.31
Yukon River	Reach Lower	22031	0p5-CC-LC_OW_yuk	19110.00	307.80	321.16		321.75	0.000219	3.41	5677.29	548.31	0.32
Yukon River	Reach Lower	21855	5_OW_klondike	9200.00	307.56	317.29		317.58	0.000450	2.40	3908.02	575.51	0.28
Yukon River	Reach Lower	21855	5_OW_yukon	11100.00	307.56	318.12		318.45	0.000450	2.58	4389.73	579.70	0.29
Yukon River	Reach Lower	21855	1_OW_klondike	10800.00	307.56	317.99		318.32	0.000450	2.55	4315.82	578.96	0.29
Yukon River	Reach Lower	21855	1_OW_yukon	13600.00	307.56	319.13		319.52	0.000451	2.79	4984.46	591.09	0.30
Yukon River	Reach Lower	21855	0p5_OW_klondike	11400.00	307.56	318.25		318.59	0.000451	2.61	4463.06	582.04	0.29
Yukon River	Reach Lower	21855	0p5_OW_yukon	14700.00	307.56	319.56		319.97	0.000451	2.88	5237.23	604.69	0.30
Yukon River	Reach Lower	21855	0p5-CC-LC_OW_klo	14820.00	307.56	319.60		320.02	0.000451	2.89	5264.69	605.96	0.30
Yukon River	Reach Lower	21855	0p5-CC-LC_OW_yuk	19110.00	307.56	321.17		321.66	0.000443	3.17	6237.32	641.55	0.30
Yukon River	Reach Lower	21704	5_OW_klondike	9200.00	306.31	317.20		317.50	0.000535	2.44	3778.22	579.87	0.30
Yukon River	Reach Lower	21704	5_OW_yukon	11100.00	306.31	318.03		318.38	0.000521	2.60	4266.53	587.78	0.31
Yukon River	Reach Lower	21704	1_OW_klondike	10800.00	306.31	317.91		318.25	0.000523	2.58	4191.36	587.11	0.31
Yukon River	Reach Lower	21704	1_OW_yukon	13600.00	306.31	319.05		319.45	0.000507	2.80	4869.66	598.13	0.31
Yukon River	Reach Lower	21704	0p5_OW_klondike	11400.00	306.31	318.16		318.51	0.000519	2.63	4341.10	588.32	0.31
Yukon River	Reach Lower	21704	0p5_OW_yukon	14700.00	306.31	319.48		319.90	0.000502	2.88	5124.15	603.78	0.31
Yukon River	Reach Lower	21704	0p5-CC-LC_OW_klo	14820.00	306.31	319.52		319.95	0.000502	2.89	5151.68	604.13	0.31
Yukon River	Reach Lower	21704	0p5-CC-LC_OW_yuk	19110.00	306.31	321.09		321.59	0.000482	3.16	6116.78	625.21	0.31
Yukon River	Reach Lower	21589	5_OW_klondike	9200.00	305.41	317.11		317.43	0.000604	2.53	3631.46	573.47	0.32
Yukon River	Reach Lower	21589	5_OW_yukon	11100.00	305.41	317.94		318.32	0.000582	2.70	4112.72	576.87	0.32
Yukon River	Reach Lower	21589	1_OW_klondike	10800.00	305.41	317.82		318.18	0.000585	2.67	4038.93	575.88	0.32
Yukon River	Reach Lower	21589	1_OW_yukon	13600.00	305.41	318.96		319.39	0.000560	2.90	4705.06	587.58	0.32
Yukon River	Reach Lower	21589	0p5_OW_klondike	11400.00	305.41	318.07		318.45	0.000579	2.72	4185.99	577.95	0.32
Yukon River	Reach Lower	21589	0p5_OW_yukon	14700.00	305.41	319.39		319.84	0.000553	2.97	4956.06	594.92	0.32
Yukon River	Reach Lower	21589	0p5-CC-LC_OW_klo	14820.00	305.41	319.43		319.88	0.000552	2.98	4983.20	597.52	0.32
Yukon River	Reach Lower	21589	0p5-CC-LC_OW_yuk	19110.00	305.41	321.00		321.53	0.000525	3.25	5924.48	604.77	0.32
Yukon River	Reach Lower	21455	5_OW_klondike	9200.00	304.50	316.99		317.35	0.000647	2.65	3479.74	543.05	0.33
Yukon River	Reach Lower	21455	5_OW_yukon	11100.00	304.50	317.82		318.23	0.000627	2.83	3933.15	544.67	0.34
Yukon River	Reach Lower	21455	1_OW_klondike	10800.00	304.50	317.69		318.09	0.000630	2.80	3863.78	544.39	0.33
Yukon River	Reach Lower	21455	1_OW_yukon	13600.00	304.50	318.83		319.31	0.000609	3.04	4489.97	554.19	0.34
Yukon River	Reach Lower	21455	0p5_OW_klondike	11400.00	304.50	317.95		318.36	0.000624	2.85	4002.06	545.99	0.34
Yukon River	Reach Lower	21455	0p5_OW_yukon	14700.00	304.50	319.26		319.75	0.000602	3.12	4726.18	566.08	0.34
Yukon River	Reach Lower	21455	0p5-CC-LC_OW_klo	14820.00	304.50	319.30		319.80	0.000601	3.13	4751.82	567.13	0.34
Yukon River	Reach Lower	21455	0p5-CC-LC_OW_yuk	19110.00	304.50	320.86		321.45	0.000575	3.42	5670.26	601.98	0.34

HEC-RAS Plan: OW_AEP (Continued)

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Yukon River	Reach Lower	21317	5_OW_klondike	9200.00	303.08	316.84		317.25	0.000717	2.84	3241.72	486.97	0.35
Yukon River	Reach Lower	21317	5_OW_yukon	11100.00	303.08	317.66		318.13	0.000711	3.05	3644.39	497.18	0.36
Yukon River	Reach Lower	21317	1_OW_klondike	10800.00	303.08	317.53		318.00	0.000712	3.02	3582.12	494.85	0.36
Yukon River	Reach Lower	21317	1_OW_yukon	13600.00	303.08	318.66		319.21	0.000701	3.29	4154.36	528.66	0.36
Yukon River	Reach Lower	21317	0p5_OW_klondike	11400.00	303.08	317.78		318.27	0.000709	3.08	3706.47	500.02	0.36
Yukon River	Reach Lower	21317	0p5_OW_yukon	14700.00	303.08	319.07		319.66	0.000697	3.39	4375.77	537.43	0.36
Yukon River	Reach Lower	21317	0p5-CC-LC_OW_klo	14820.00	303.08	319.12		319.70	0.000697	3.40	4399.79	539.86	0.36
Yukon River	Reach Lower	21317	0p5-CC-LC_OW_yuk	19110.00	303.08	320.66		321.36	0.000675	3.72	5263.13	571.24	0.37
Yukon River	Reach Lower	21152	5_OW_klondike	9200.00	303.41	316.72		317.13	0.000665	2.84	3237.18	459.76	0.34
Yukon River	Reach Lower	21152	5_OW_yukon	11100.00	303.41	317.54		318.02	0.000675	3.07	3615.43	481.34	0.35
Yukon River	Reach Lower	21152	1_OW_klondike	10800.00	303.41	317.41		317.88	0.000674	3.04	3555.75	476.99	0.35
Yukon River	Reach Lower	21152	1_OW_yukon	13600.00	303.41	318.53		319.09	0.000680	3.34	4110.00	522.07	0.36
Yukon River	Reach Lower	21152	0p5_OW_klondike	11400.00	303.41	317.66		318.15	0.000675	3.11	3675.07	484.98	0.35
Yukon River	Reach Lower	21152	0p5_OW_yukon	14700.00	303.41	318.94		319.54	0.000681	3.45	4332.18	555.56	0.36
Yukon River	Reach Lower	21152	0p5-CC-LC_OW_klo	14820.00	303.41	318.98		319.59	0.000681	3.46	4356.84	555.81	0.36
Yukon River	Reach Lower	21152	0p5-CC-LC_OW_yuk	19110.00	303.41	320.52		321.25	0.000670	3.80	5219.59	571.46	0.37
Yukon River	Reach Lower	21048	5_OW_klondike	9200.00	303.45	316.67		317.09	0.000283	2.86	3218.29	435.30	0.34
Yukon River	Reach Lower	21048	5_OW_yukon	11100.00	303.45	317.48		317.97	0.000299	3.11	3569.97	440.83	0.35
Yukon River	Reach Lower	21048	1_OW_klondike	10800.00	303.45	317.36		317.84	0.000297	3.07	3515.93	437.55	0.35
Yukon River	Reach Lower	21048	1_OW_yukon	13600.00	303.45	318.46		319.05	0.000308	3.40	4009.63	486.62	0.36
Yukon River	Reach Lower	21048	0p5_OW_klondike	11400.00	303.45	317.60		318.11	0.000300	3.15	3623.83	441.78	0.35
Yukon River	Reach Lower	21048	0p5_OW_yukon	14700.00	303.45	318.86		319.49	0.000311	3.52	4213.22	518.80	0.36
Yukon River	Reach Lower	21048	0p5-CC-LC_OW_klo	14820.00	303.45	318.91		319.54	0.000311	3.53	4235.93	522.34	0.36
Yukon River	Reach Lower	21048	0p5-CC-LC_OW_yuk	19110.00	303.45	320.42		321.19	0.000314	3.91	5063.48	560.97	0.38
Yukon River	Reach Lower	20921	5_OW_klondike	9200.00	302.28	316.60		317.05	0.000278	2.97	3107.31	394.04	0.34
Yukon River	Reach Lower	20921	5_OW_yukon	11100.00	302.28	317.39		317.93	0.000297	3.26	3417.41	396.23	0.35
Yukon River	Reach Lower	20921	1_OW_klondike	10800.00	302.28	317.27		317.79	0.000294	3.21	3369.93	395.45	0.35
Yukon River	Reach Lower	20921	1_OW_yukon	13600.00	302.28	318.34		319.00	0.000315	3.60	3797.87	402.56	0.37
Yukon River	Reach Lower	20921	0p5_OW_klondike	11400.00	302.28	317.51		318.06	0.000300	3.30	3464.60	397.20	0.36
Yukon River	Reach Lower	20921	0p5_OW_yukon	14700.00	302.28	318.73		319.44	0.000322	3.73	3957.63	410.75	0.38
Yukon River	Reach Lower	20921	0p5-CC-LC_OW_klo	14820.00	302.28	318.78		319.49	0.000323	3.75	3975.02	411.39	0.38
Yukon River	Reach Lower	20921	0p5-CC-LC_OW_yuk	19110.00	302.28	320.24		321.14	0.000340	4.21	4665.76	518.45	0.40
Yukon River	Reach Lower	20805	5_OW_klondike	9200.00	300.49	316.58		317.02	0.000230	2.92	3153.63	363.72	0.32
Yukon River	Reach Lower	20805	5_OW_yukon	11100.00	300.49	317.36		317.89	0.000255	3.23	3438.10	366.79	0.34
Yukon River	Reach Lower	20805	1_OW_klondike	10800.00	300.49	317.24		317.76	0.000251	3.18	3394.51	366.33	0.33
Yukon River	Reach Lower	20805	1_OW_yukon	13600.00	300.49	318.30		318.96	0.000281	3.59	3810.01	422.74	0.36
Yukon River	Reach Lower	20805	0p5_OW_klondike	11400.00	300.49	317.48		318.03	0.000258	3.27	3481.63	372.70	0.34
Yukon River	Reach Lower	20805	0p5_OW_yukon	14700.00	300.49	318.69		319.41	0.000291	3.74	3975.79	430.28	0.36
Yukon River	Reach Lower	20805	0p5-CC-LC_OW_klo	14820.00	300.49	318.74		319.46	0.000292	3.76	3993.87	435.91	0.37
Yukon River	Reach Lower	20805	0p5-CC-LC_OW_yuk	19110.00	300.49	320.18		321.10	0.000321	4.26	4667.75	492.90	0.39
Yukon River	Reach Lower	20702	5_OW_klondike	9200.00	300.38	316.56		316.99	0.000395	2.89	3179.74	365.63	0.31
Yukon River	Reach Lower	20702	5_OW_yukon	11100.00	300.38	317.33		317.86	0.000453	3.20	3465.01	369.71	0.33
Yukon River	Reach Lower	20702	1_OW_klondike	10800.00	300.38	317.22		317.72	0.000446	3.16	3421.20	369.24	0.33
Yukon River	Reach Lower	20702	1_OW_yukon	13600.00	300.38	318.27		318.92	0.000499	3.57	3825.81	424.13	0.35
Yukon River	Reach Lower	20702	0p5_OW_klondike	11400.00	300.38	317.45		317.99	0.000459	3.25	3508.52	370.17	0.34
Yukon River	Reach Lower	20702	0p5_OW_yukon	14700.00	300.38	318.66		319.37	0.000514	3.71	4000.66	467.55	0.36
Yukon River	Reach Lower	20702	0p5-CC-LC_OW_klo	14820.00	300.38	318.71		319.41	0.000516	3.73	4020.20	470.12	0.36
Yukon River	Reach Lower	20702	0p5-CC-LC_OW_yuk	19110.00	300.38	320.15		321.05	0.000557	4.21	4737.94	514.53	0.39
Yukon River	Reach Lower	20571	5_OW_klondike	9200.00	301.15	316.53		316.95	0.000184	2.84	3238.93	352.50	0.30
Yukon River	Reach Lower	20571	5_OW_yukon	11100.00	301.15	317.30		317.81	0.000211	3.17	3515.61	367.46	0.32
Yukon River	Reach Lower	20571	1_OW_klondike	10800.00	301.15	317.19		317.68	0.000207	3.12	3472.54	364.71	0.32
Yukon River	Reach Lower	20571	1_OW_yukon	13600.00	301.15	318.24		318.88	0.000242	3.55	3877.70	412.60	0.34
Yukon River	Reach Lower	20571	0p5_OW_klondike	11400.00	301.15	317.42		317.95	0.000215	3.21	3558.56	370.01	0.32
Yukon River	Reach Lower	20571	0p5_OW_yukon	14700.00	301.15	318.62		319.32	0.000254	3.70	4039.39	425.11	0.35
Yukon River	Reach Lower	20571	0p5-CC-LC_OW_klo	14820.00	301.15	318.66		319.37	0.000255	3.72	4056.92	425.66	0.35
Yukon River	Reach Lower	20571	0p5-CC-LC_OW_yuk	19110.00	301.15	320.08		321.00	0.000295	4.25	4686.96	469.59	0.38
Yukon River	Reach Lower	20458	5_OW_klondike	9200.00	301.98	316.51		316.92	0.000220	2.85	3223.27	350.70	0.30
Yukon River	Reach Lower	20458	5_OW_yukon	11100.00	301.98	317.27		317.79	0.000246	3.18	3492.88	354.00	0.32
Yukon River	Reach Lower	20458	1_OW_klondike	10800.00	301.98	317.16		317.66	0.000242	3.13	3451.52	353.32	0.32
Yukon River	Reach Lower	20458	1_OW_yukon	13600.00	301.98	318.20		318.85	0.000274	3.56	3826.28	368.18	0.34
Yukon River	Reach Lower	20458	0p5_OW_klondike	11400.00	301.98	317.39		317.92	0.000250	3.23	3533.98	354.68	0.32
Yukon River	Reach Lower	20458	0p5_OW_yukon	14700.00	301.98	318.58		319.29	0.000286	3.72	3972.95	395.07	0.35
Yukon River	Reach Lower	20458	0p5-CC-LC_OW_klo	14820.00	301.98	318.62		319.34	0.000287	3.74	3989.11	396.98	0.35
Yukon River	Reach Lower	20458	0p5-CC-LC_OW_yuk	19110.00	301.98	320.03		320.96	0.000321	4.28	4617.19	481.97	0.38
Yukon River	Reach Lower	20367	5_OW_klondike	9200.00	302.69	316.49		316.89	0.000480	2.79	3292.25	362.61	0.30
Yukon River	Reach Lower	20367	5_OW_yukon	11100.00	302.69	317.25		317.74	0.000767	3.11	3571.32	370.65	0.32
Yukon River	Reach Lower	20367	1_OW_klondike	10800.00	302.69	317.13		317.61	0.000755	3.06	3528.01	369.59	0.31
Yukon River	Reach Lower	20367	1_OW_yukon	13600.00	302.69	318.18		318.80	0.000850	3.48	3925.76	390.98	0.34
Yukon River	Reach Lower	20367	0p5_OW_klondike	11400.00	302.69	317.37		317.88	0.000777	3.16	3614.51	374.43	0.32
Yukon River	Reach Lower	20367	0p5_OW_yukon	14700.00	302.69	318.56		319.23	0.000883	3.63	4077.65	406.25	0.35
Yukon River	Reach Lower	20367	0p5-CC-LC_OW_klo	14820.00	302.69	318.60		319.28	0.000886	3.65	4094.33	407.34	0.35
Yukon River	Reach Lower	20367	0p5-CC-LC_OW_yuk	19110.00	302.69	320.02		320.90	0.000979	4.15	4794.29	567.03	0.37
Yukon River	Reach Lower	20250	5_OW_klondike	9200.00	303.47	316.47		316.85	0.000184	2.73	3374.40	367.77	0.29
Yukon River	Reach Lower	20250	5_OW_yukon	11100.00	303.47	317.23		317.70	0.000208	3.04	3652.69	369.93	0.31
Yukon River	Reach Lower	20250	1_OW_klondike	10800.00	303.47	317.11		317.57	0.000205	2.99	3609.54	369.67	0.31
Yukon River	Reach Lower	20250	1_OW_yukon	13600.00	303.47	318.15		318.74	0.000233	3.41	3997.37	377.23	0.33
Yukon River	Reach Lower	20250	0p5_OW_klondike	11400.00	303.47	317.34		317.83	0.000211	3.09	3695.54	370.18	0.31
Yukon River	Reach Lower	20250	0p5_OW_yukon	14700.00	303.47	318.53		319.18	0.000244	3.56	4143.72	390.41	0.34
Yukon River	Reach Lower	20250	0p5-CC-LC_OW_klo	14820.00	303.47	318.57		319.22	0.000245	3.57	4159.80	395.37	0.34
Yukon River	Reach Lower	20250	0p5-CC-LC_OW_yuk	19110.00	303.47	319.99		320.83	0.000274	4.08	4929.82	625.70	0.37

HEC-RAS Plan: OW_AEP (Continued)

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Yukon River	Reach Lower	20146	5_OW_klondike	9200.00	304.44	316.48		316.82	0.000173	2.58	3566.05	394.09	0.27
Yukon River	Reach Lower	20146	5_OW_yukon	11100.00	304.44	317.24		317.66	0.000193	2.87	3865.99	396.01	0.29
Yukon River	Reach Lower	20146	1_OW_klondike	10800.00	304.44	317.12		317.53	0.000190	2.83	3819.44	395.54	0.29
Yukon River	Reach Lower	20146	1_OW_yukon	13600.00	304.44	318.17		318.70	0.000214	3.21	4238.20	412.59	0.31
Yukon River	Reach Lower	20146	0p5_OW_klondike	11400.00	304.44	317.36		317.79	0.000196	2.91	3912.22	396.39	0.30
Yukon River	Reach Lower	20146	0p5_OW_yukon	14700.00	304.44	318.56		319.13	0.000222	3.35	4413.52	495.43	0.32
Yukon River	Reach Lower	20146	0p5-CC-LC_OW_klo	14820.00	304.44	318.60		319.18	0.000223	3.37	4434.30	509.10	0.32
Yukon River	Reach Lower	20146	0p5-CC-LC_OW_yuk	19110.00	304.44	320.03		320.77	0.000245	3.82	5346.69	666.60	0.34
Yukon River	Reach Lower	20008	5_OW_klondike	9200.00	305.47	316.48		316.79	0.000172	2.46	3737.48	437.13	0.27
Yukon River	Reach Lower	20008	5_OW_yukon	11100.00	305.47	317.24		317.62	0.000190	2.73	4072.35	438.67	0.29
Yukon River	Reach Lower	20008	1_OW_klondike	10800.00	305.47	317.12		317.49	0.000187	2.69	4020.37	438.32	0.28
Yukon River	Reach Lower	20008	1_OW_yukon	13600.00	305.47	318.18		318.65	0.000206	3.03	4487.36	442.89	0.30
Yukon River	Reach Lower	20008	0p5_OW_klondike	11400.00	305.47	317.36		317.75	0.000192	2.76	4123.96	439.02	0.29
Yukon River	Reach Lower	20008	0p5_OW_yukon	14700.00	305.47	318.58		319.08	0.000213	3.16	4708.62	663.22	0.31
Yukon River	Reach Lower	20008	0p5-CC-LC_OW_klo	14820.00	305.47	318.62		319.13	0.000213	3.17	4736.61	675.22	0.31
Yukon River	Reach Lower	20008	0p5-CC-LC_OW_yuk	19110.00	305.47	320.07		320.71	0.000229	3.57	5763.31	720.02	0.33
Yukon River	Reach Lower	19824	5_OW_klondike	9200.00	306.60	316.46		316.73	0.000405	2.27	4045.61	545.56	0.27
Yukon River	Reach Lower	19824	5_OW_yukon	11100.00	306.60	317.24		317.55	0.000427	2.48	4468.54	547.17	0.28
Yukon River	Reach Lower	19824	1_OW_klondike	10800.00	306.60	317.12		317.42	0.000425	2.45	4402.80	546.79	0.28
Yukon River	Reach Lower	19824	1_OW_yukon	13600.00	306.60	318.19		318.57	0.000444	2.72	5045.96	711.74	0.29
Yukon River	Reach Lower	19824	0p5_OW_klondike	11400.00	306.60	317.36		317.68	0.000430	2.51	4533.86	547.69	0.28
Yukon River	Reach Lower	19824	0p5_OW_yukon	14700.00	306.60	318.59		319.00	0.000449	2.82	5335.80	751.81	0.29
Yukon River	Reach Lower	19824	0p5-CC-LC_OW_klo	14820.00	306.60	318.64		319.04	0.000449	2.83	5367.89	753.81	0.29
Yukon River	Reach Lower	19824	0p5-CC-LC_OW_yuk	19110.00	306.60	320.12		320.61	0.000452	3.12	6540.20	817.87	0.30
Yukon River	Reach Lower	19695	5_OW_klondike	9200.00	307.61	316.38		316.67	0.000464	2.38	3927.21	594.16	0.29
Yukon River	Reach Lower	19695	5_OW_yukon	11100.00	307.61	317.15		317.49	0.000478	2.59	4394.48	628.51	0.30
Yukon River	Reach Lower	19695	1_OW_klondike	10800.00	307.61	317.03		317.36	0.000476	2.56	4319.55	619.05	0.29
Yukon River	Reach Lower	19695	1_OW_yukon	13600.00	307.61	318.11		318.51	0.000484	2.81	5050.73	768.13	0.30
Yukon River	Reach Lower	19695	0p5_OW_klondike	11400.00	307.61	317.27		317.62	0.000479	2.61	4470.12	638.12	0.30
Yukon River	Reach Lower	19695	0p5_OW_yukon	14700.00	307.61	318.51		318.93	0.000484	2.90	5367.29	803.32	0.31
Yukon River	Reach Lower	19695	0p5-CC-LC_OW_klo	14820.00	307.61	318.56		318.98	0.000484	2.91	5401.90	806.14	0.31
Yukon River	Reach Lower	19695	0p5-CC-LC_OW_yuk	19110.00	307.61	320.05		320.55	0.000470	3.17	6704.05	891.46	0.31
Yukon River	Reach Lower	19565	5_OW_klondike	9200.00	308.72	316.38		316.59	0.000404	2.11	4631.69	820.58	0.26
Yukon River	Reach Lower	19565	5_OW_yukon	11100.00	308.72	317.17		317.40	0.000390	2.23	5285.99	841.85	0.27
Yukon River	Reach Lower	19565	1_OW_klondike	10800.00	308.72	317.05		317.28	0.000392	2.22	5182.85	836.98	0.27
Yukon River	Reach Lower	19565	1_OW_yukon	13600.00	308.72	318.15		318.42	0.000373	2.38	6136.34	881.69	0.26
Yukon River	Reach Lower	19565	0p5_OW_klondike	11400.00	308.72	317.29		317.53	0.000388	2.25	5389.18	850.53	0.27
Yukon River	Reach Lower	19565	0p5_OW_yukon	14700.00	308.72	318.56		318.84	0.000367	2.43	6500.64	904.74	0.26
Yukon River	Reach Lower	19565	0p5-CC-LC_OW_klo	14820.00	308.72	318.60		318.88	0.000366	2.44	6540.40	905.01	0.26
Yukon River	Reach Lower	19565	0p5-CC-LC_OW_yuk	19110.00	308.72	320.13		320.45	0.000341	2.62	7936.21	930.49	0.26
Yukon River	Reach Lower	19430	5_OW_klondike	9200.00	308.98	316.32		316.52	0.000467	2.07	4701.28	976.46	0.28
Yukon River	Reach Lower	19430	5_OW_yukon	11100.00	308.98	317.12		317.33	0.000430	2.16	5532.75	1117.31	0.28
Yukon River	Reach Lower	19430	1_OW_klondike	10800.00	308.98	316.99		317.21	0.000436	2.15	5395.49	1081.28	0.28
Yukon River	Reach Lower	19430	1_OW_yukon	13600.00	308.98	318.11		318.35	0.000389	2.26	6656.38	1132.96	0.27
Yukon River	Reach Lower	19430	0p5_OW_klondike	11400.00	308.98	317.24		317.46	0.000426	2.18	5671.36	1124.21	0.27
Yukon River	Reach Lower	19430	0p5_OW_yukon	14700.00	308.98	318.53		318.77	0.000374	2.29	7126.55	1134.45	0.26
Yukon River	Reach Lower	19430	0p5-CC-LC_OW_klo	14820.00	308.98	318.57		318.81	0.000373	2.30	7177.00	1134.56	0.26
Yukon River	Reach Lower	19430	0p5-CC-LC_OW_yuk	19110.00	308.98	320.11		320.37	0.000328	2.42	8928.32	1138.83	0.25
Yukon River	Reach Lower	19286	5_OW_klondike	9200.00	309.53	316.20		316.44	0.000518	2.20	4251.91	762.93	0.29
Yukon River	Reach Lower	19286	5_OW_yukon	11100.00	309.53	317.00		317.26	0.000484	2.32	4873.25	817.06	0.29
Yukon River	Reach Lower	19286	1_OW_klondike	10800.00	309.53	316.87		317.14	0.000490	2.30	4772.81	806.98	0.29
Yukon River	Reach Lower	19286	1_OW_yukon	13600.00	309.53	317.99		318.28	0.000446	2.45	5802.64	1063.35	0.29
Yukon River	Reach Lower	19286	0p5_OW_klondike	11400.00	309.53	317.12		317.39	0.000479	2.34	4975.14	836.62	0.29
Yukon River	Reach Lower	19286	0p5_OW_yukon	14700.00	309.53	318.41		318.70	0.000431	2.49	6256.82	1105.40	0.28
Yukon River	Reach Lower	19286	0p5-CC-LC_OW_klo	14820.00	309.53	318.45		318.75	0.000430	2.50	6306.16	1106.42	0.28
Yukon River	Reach Lower	19286	0p5-CC-LC_OW_yuk	19110.00	309.53	320.00		320.32	0.000377	2.64	8021.65	1113.76	0.27
Yukon River	Reach Lower	19158	5_OW_klondike	9200.00	307.73	316.15		316.37	0.000479	2.17	4385.14	773.40	0.28
Yukon River	Reach Lower	19158	5_OW_yukon	11100.00	307.73	316.94		317.20	0.000456	2.30	5008.36	801.24	0.28
Yukon River	Reach Lower	19158	1_OW_klondike	10800.00	307.73	316.82		317.07	0.000460	2.28	4909.30	794.88	0.28
Yukon River	Reach Lower	19158	1_OW_yukon	13600.00	307.73	317.94		318.22	0.000437	2.46	5888.13	1036.26	0.28
Yukon River	Reach Lower	19158	0p5_OW_klondike	11400.00	307.73	317.07		317.32	0.000453	2.32	5107.72	806.99	0.28
Yukon River	Reach Lower	19158	0p5_OW_yukon	14700.00	307.73	318.35		318.64	0.000427	2.52	6361.93	1169.52	0.28
Yukon River	Reach Lower	19158	0p5-CC-LC_OW_klo	14820.00	307.73	318.40		318.69	0.000425	2.53	6414.59	1169.69	0.28
Yukon River	Reach Lower	19158	0p5-CC-LC_OW_yuk	19110.00	307.73	319.96		320.26	0.000370	2.65	8252.29	1189.14	0.27
Yukon River	Reach Lower	19070	5_OW_klondike	9200.00	307.30	316.09		316.32	0.000511	2.16	4390.48	825.58	0.29
Yukon River	Reach Lower	19070	5_OW_yukon	11100.00	307.30	316.90		317.15	0.000472	2.26	5055.62	836.64	0.29
Yukon River	Reach Lower	19070	1_OW_klondike	10800.00	307.30	316.77		317.02	0.000477	2.25	4951.74	829.15	0.29
Yukon River	Reach Lower	19070	1_OW_yukon	13600.00	307.30	317.90		318.17	0.000437	2.40	5981.94	1154.75	0.28
Yukon River	Reach Lower	19070	0p5_OW_klondike	11400.00	307.30	317.02		317.27	0.000466	2.28	5160.28	844.69	0.28
Yukon River	Reach Lower	19070	0p5_OW_yukon	14700.00	307.30	318.32		318.59	0.000418	2.43	6477.58	1177.27	0.28
Yukon River	Reach Lower	19070	0p5-CC-LC_OW_klo	14820.00	307.30	318.37		318.64	0.000416	2.44	6530.98	1177.50	0.28
Yukon River	Reach Lower	19070	0p5-CC-LC_OW_yuk	19110.00	307.30	319.94		320.22	0.000355	2.54	8386.97	1191.66	0.26
Yukon River	Reach Lower	18924	5_OW_klondike	9200.00	307.60	316.04		316.24	0.000467	2.04	4702.48	907.25	0.28
Yukon River	Reach Lower	18924	5_OW_yukon	11100.00	307.60	316.86		317.07	0.000427	2.13	5442.99	925.58	0.27
Yukon River	Reach Lower	18924	1_OW_klondike	10800.00	307.60	316.73		316.94	0.000429	2.11	5327.02	918.61	0.27
Yukon River	Reach Lower	18924	1_OW_yukon	13600.00	307.60	317.87		318.10	0.000382	2.23	6442.67	1111.63	0.26
Yukon River	Reach Lower	18924	0p5_OW_klondike	11400.00	307.60	316.98		317.20	0.000420	2.14	5560.34	935.89	0.27
Yukon River	Reach Lower	18924	0p5_OW_yukon	14700.00	307.60	318.29		318.52	0.000366	2.26	6915.43	1117.71	0.26
Yukon River	Reach Lower	18924	0p5-CC-LC_OW_klo	14820.00	307.60	318.34		318.57	0.000365	2.27	6966.26	1118.06	0.26
Yukon River	Reach Lower	18924	0p5-CC-LC_OW_yuk	19110.00	307.60	319.91		320.16	0.000314	2.38	8731.47	1129.79	0.25

HEC-RAS Plan: OW_AEP (Continued)

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Yukon River	Reach Lower	18810	5_OW_klondike	9200.00	307.08	315.99		316.18	0.000468	2.04	4841.20	983.79	0.28
Yukon River	Reach Lower	18810	5_OW_yukon	11100.00	307.08	316.81		317.01	0.000413	2.10	5652.29	992.56	0.27
Yukon River	Reach Lower	18810	1_OW_klondike	10800.00	307.08	316.69		316.88	0.000418	2.08	5526.84	987.94	0.27
Yukon River	Reach Lower	18810	1_OW_yukon	13600.00	307.08	317.83		318.05	0.000361	2.17	6683.09	1027.21	0.26
Yukon River	Reach Lower	18810	0p5_OW_klondike	11400.00	307.08	316.94		317.14	0.000406	2.11	5778.69	999.00	0.26
Yukon River	Reach Lower	18810	0p5_OW_yukon	14700.00	307.08	318.25		318.48	0.000345	2.20	7118.99	1029.05	0.25
Yukon River	Reach Lower	18810	0p5-CC-LC_OW_klo	14820.00	307.08	318.30		318.52	0.000343	2.20	7165.82	1029.31	0.25
Yukon River	Reach Lower	18810	0p5-CC-LC_OW_yuk	19110.00	307.08	319.87		320.12	0.000295	2.31	8800.24	1051.74	0.24
Yukon River	Reach Lower	18673	5_OW_klondike	9200.00	307.19	315.89		316.11	0.000550	2.25	4443.29	924.67	0.30
Yukon River	Reach Lower	18673	5_OW_yukon	11100.00	307.19	316.72		316.95	0.000491	2.32	5220.80	941.20	0.29
Yukon River	Reach Lower	18673	1_OW_klondike	10800.00	307.19	316.59		316.82	0.000502	2.32	5100.15	940.15	0.29
Yukon River	Reach Lower	18673	1_OW_yukon	13600.00	307.19	317.74		317.99	0.000423	2.38	6187.33	946.31	0.28
Yukon River	Reach Lower	18673	0p5_OW_klondike	11400.00	307.19	316.85		317.08	0.000480	2.33	5341.71	941.62	0.29
Yukon River	Reach Lower	18673	0p5_OW_yukon	14700.00	307.19	318.17		318.43	0.000402	2.41	6590.49	949.37	0.27
Yukon River	Reach Lower	18673	0p5-CC-LC_OW_klo	14820.00	307.19	318.21		318.47	0.000400	2.41	6633.84	949.71	0.27
Yukon River	Reach Lower	18673	0p5-CC-LC_OW_yuk	19110.00	307.19	319.79		320.07	0.000341	2.51	8146.99	974.49	0.26
Yukon River	Reach Lower	18557	5_OW_klondike	9200.00	306.52	315.76		316.04	0.000635	2.49	3989.39	790.02	0.33
Yukon River	Reach Lower	18557	5_OW_yukon	11100.00	306.52	316.59		316.89	0.000578	2.58	4651.38	814.64	0.32
Yukon River	Reach Lower	18557	1_OW_klondike	10800.00	306.52	316.46		316.75	0.000587	2.57	4547.46	804.34	0.32
Yukon River	Reach Lower	18557	1_OW_yukon	13600.00	306.52	317.61		317.93	0.000536	2.71	5534.69	918.04	0.31
Yukon River	Reach Lower	18557	0p5_OW_klondike	11400.00	306.52	316.71		317.02	0.000577	2.60	4754.73	820.01	0.32
Yukon River	Reach Lower	18557	0p5_OW_yukon	14700.00	306.52	318.04		318.37	0.000510	2.73	5930.00	922.26	0.31
Yukon River	Reach Lower	18557	0p5-CC-LC_OW_klo	14820.00	306.52	318.09		318.41	0.000508	2.74	5972.56	922.70	0.31
Yukon River	Reach Lower	18557	0p5-CC-LC_OW_yuk	19110.00	306.52	319.67		320.02	0.000433	2.82	7457.29	945.52	0.29
Yukon River	Reach Lower	18276	5_OW_klondike	9200.00	307.06	315.50		315.84	0.000658	2.64	3569.78	591.62	0.34
Yukon River	Reach Lower	18276	5_OW_yukon	11100.00	307.06	316.32		316.70	0.000640	2.80	4059.19	617.42	0.34
Yukon River	Reach Lower	18276	1_OW_klondike	10800.00	307.06	316.19		316.57	0.000644	2.78	3981.64	610.02	0.34
Yukon River	Reach Lower	18276	1_OW_yukon	13600.00	307.06	317.33		317.75	0.000609	2.97	4730.85	755.84	0.34
Yukon River	Reach Lower	18276	0p5_OW_klondike	11400.00	307.06	316.44		316.83	0.000636	2.82	4136.63	622.62	0.34
Yukon River	Reach Lower	18276	0p5_OW_yukon	14700.00	307.06	317.76		318.19	0.000593	3.03	5069.18	791.97	0.33
Yukon River	Reach Lower	18276	0p5-CC-LC_OW_klo	14820.00	307.06	317.81		318.24	0.000592	3.03	5105.90	792.20	0.33
Yukon River	Reach Lower	18276	0p5-CC-LC_OW_yuk	19110.00	307.06	319.40		319.87	0.000537	3.22	6388.45	821.59	0.33
Yukon River	Reach Lower	17613	5_OW_klondike	9200.00	307.89	315.30		315.54	0.000281	2.22	4325.16	748.57	0.29
Yukon River	Reach Lower	17613	5_OW_yukon	11100.00	307.89	316.14		316.40	0.000266	2.32	4956.13	755.09	0.28
Yukon River	Reach Lower	17613	1_OW_klondike	10800.00	307.89	316.01		316.27	0.000268	2.30	4858.15	754.43	0.29
Yukon River	Reach Lower	17613	1_OW_yukon	13600.00	307.89	317.18		317.47	0.000250	2.44	5740.63	760.30	0.28
Yukon River	Reach Lower	17613	0p5_OW_klondike	11400.00	307.89	316.27		316.53	0.000264	2.33	5053.21	755.75	0.28
Yukon River	Reach Lower	17613	0p5_OW_yukon	14700.00	307.89	317.61		317.91	0.000243	2.48	6072.57	765.94	0.28
Yukon River	Reach Lower	17613	0p5-CC-LC_OW_klo	14820.00	307.89	317.66		317.96	0.000243	2.49	6108.43	766.20	0.28
Yukon River	Reach Lower	17613	0p5-CC-LC_OW_yuk	19110.00	307.89	319.27		319.61	0.000224	2.65	7353.98	783.42	0.27
Yukon River	Reach Lower	16554	5_OW_klondike	9200.00	305.16	315.00		315.25	0.000261	2.22	4149.64	615.68	0.27
Yukon River	Reach Lower	16554	5_OW_yukon	11100.00	305.16	315.83		316.12	0.000262	2.38	4662.19	618.88	0.28
Yukon River	Reach Lower	16554	1_OW_klondike	10800.00	305.16	315.70		315.98	0.000262	2.36	4582.62	617.95	0.28
Yukon River	Reach Lower	16554	1_OW_yukon	13600.00	305.16	316.85		317.19	0.000262	2.57	5318.79	647.61	0.28
Yukon River	Reach Lower	16554	0p5_OW_klondike	11400.00	305.16	315.95		316.25	0.000262	2.40	4741.13	620.93	0.28
Yukon River	Reach Lower	16554	0p5_OW_yukon	14700.00	305.16	317.29		317.64	0.000261	2.64	5598.71	649.43	0.28
Yukon River	Reach Lower	16554	0p5-CC-LC_OW_klo	14820.00	305.16	317.33		317.69	0.000261	2.65	5628.87	649.62	0.28
Yukon River	Reach Lower	16554	0p5-CC-LC_OW_yuk	19110.00	305.16	318.92		319.35	0.000257	2.90	6792.99	929.00	0.28
Yukon River	Reach Lower	15716	5_OW_klondike	9200.00	301.44	314.63		314.98	0.000382	2.68	3670.40	630.06	0.32
Yukon River	Reach Lower	15716	5_OW_yukon	11100.00	301.44	315.47		315.85	0.000378	2.83	4200.38	639.47	0.32
Yukon River	Reach Lower	15716	1_OW_klondike	10800.00	301.44	315.34		315.71	0.000379	2.80	4117.49	638.01	0.32
Yukon River	Reach Lower	15716	1_OW_yukon	13600.00	301.44	316.50		316.92	0.000371	2.98	4869.38	651.10	0.32
Yukon River	Reach Lower	15716	0p5_OW_klondike	11400.00	301.44	315.59		315.98	0.000377	2.85	4282.63	640.91	0.32
Yukon River	Reach Lower	15716	0p5_OW_yukon	14700.00	301.44	316.94		317.38	0.000368	3.04	5154.85	656.00	0.32
Yukon River	Reach Lower	15716	0p5-CC-LC_OW_klo	14820.00	301.44	316.99		317.42	0.000367	3.05	5185.69	656.53	0.32
Yukon River	Reach Lower	15716	0p5-CC-LC_OW_yuk	19110.00	301.44	318.60		319.09	0.000353	3.24	6259.46	676.77	0.31
Yukon River	Reach Lower	14748	5_OW_klondike	9200.00	301.44	314.24		314.60	0.000401	2.77	3694.06	718.11	0.34
Yukon River	Reach Lower	14748	5_OW_yukon	11100.00	301.44	315.11		315.48	0.000367	2.86	4323.73	730.22	0.33
Yukon River	Reach Lower	14748	1_OW_klondike	10800.00	301.44	314.98		315.35	0.000372	2.85	4225.76	728.53	0.33
Yukon River	Reach Lower	14748	1_OW_yukon	13600.00	301.44	316.18		316.57	0.000333	2.96	5112.00	742.14	0.32
Yukon River	Reach Lower	14748	0p5_OW_klondike	11400.00	301.44	315.24		315.62	0.000363	2.87	4420.95	731.89	0.33
Yukon River	Reach Lower	14748	0p5_OW_yukon	14700.00	301.44	316.63		317.03	0.000321	3.00	5446.63	746.49	0.32
Yukon River	Reach Lower	14748	0p5-CC-LC_OW_klo	14820.00	301.44	316.68		317.08	0.000320	3.00	5482.74	746.93	0.32
Yukon River	Reach Lower	14748	0p5-CC-LC_OW_yuk	19110.00	301.44	318.33		318.77	0.000283	3.13	6729.36	759.88	0.30
Yukon River	Reach Lower	13824	5_OW_klondike	9200.00	305.50	314.19		314.33	0.000139	1.69	5592.46	831.07	0.20
Yukon River	Reach Lower	13824	5_OW_yukon	11100.00	305.50	315.06		315.22	0.000139	1.81	6329.47	855.37	0.20
Yukon River	Reach Lower	13824	1_OW_klondike	10800.00	305.50	314.93		315.08	0.000139	1.79	6214.12	851.18	0.20
Yukon River	Reach Lower	13824	1_OW_yukon	13600.00	305.50	316.14		316.32	0.000135	1.94	7268.10	881.57	0.21
Yukon River	Reach Lower	13824	0p5_OW_klondike	11400.00	305.50	315.20		315.36	0.000138	1.82	6444.33	858.80	0.20
Yukon River	Reach Lower	13824	0p5_OW_yukon	14700.00	305.50	316.60		316.79	0.000134	1.99	7669.69	889.91	0.21
Yukon River	Reach Lower	13824	0p5-CC-LC_OW_klo	14820.00	305.50	316.64		316.84	0.000133	1.99	7713.15	890.90	0.21
Yukon River	Reach Lower	13824	0p5-CC-LC_OW_yuk	19110.00	305.50	318.31		318.54	0.000127	2.16	9237.24	923.62	0.21
Yukon River	Reach Lower	11547	5_OW_klondike	9200.00	299.91	313.63		313.89	0.000333	2.30	4188.07	749.53	0.30
Yukon River	Reach Lower	11547	5_OW_yukon	11100.00	299.91	314.52		314.80	0.000302	2.41	4856.21	756.46	0.29
Yukon River	Reach Lower	11547	1_OW_klondike	10800.00	299.91	314.38		314.66	0.000307	2.39	4752.76	755.38	0.29
Yukon River	Reach Lower	11547	1_OW_yukon	13600.00	299.91	315.61		315.93	0.000275	2.53	5688.39	764.76	0.29
Yukon River	Reach Lower	11547	0p5_OW_klondike	11400.00	299.91	314.65		314.94	0.000298	2.42	4959.16	757.68	0.29
Yukon River	Reach Lower	11547	0p5_OW_yukon	14700.00	299.91	316.07		316.40	0.000265	2.58	6039.29	767.60	0.28
Yukon River	Reach Lower	11547	0p5-CC-LC_OW_klo	14820.00	299.91	316.12		316.45	0.000264	2.59	6077.11	767.91	0.28
Yukon River	Reach Lower	11547	0p5-CC-LC_OW_yuk	19110.00	299.91	317.80		318.18	0.000237	2.76	7424.43	904.71	0.28

HEC-RAS Plan: OW_AEP (Continued)

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Yukon River	Reach Lower	9991	5_OW_klondike	9200.00	299.34	312.95		313.28	0.000349	2.53	3629.96	520.57	0.31
Yukon River	Reach Lower	9991	5_OW_yukon	11100.00	299.34	313.85		314.22	0.000345	2.71	4096.07	522.50	0.31
Yukon River	Reach Lower	9991	1_OW_klondike	10800.00	299.34	313.71		314.08	0.000346	2.68	4024.22	522.22	0.31
Yukon River	Reach Lower	9991	1_OW_yukon	13600.00	299.34	314.94		315.37	0.000342	2.91	4668.37	524.68	0.31
Yukon River	Reach Lower	9991	0p5_OW_klondike	11400.00	299.34	313.98		314.37	0.000345	2.74	4167.46	522.77	0.31
Yukon River	Reach Lower	9991	0p5_OW_yukon	14700.00	299.34	315.40		315.85	0.000340	3.00	4907.47	525.52	0.31
Yukon River	Reach Lower	9991	0p5-CC-LC_OW_klo	14820.00	299.34	315.44		315.91	0.000340	3.00	4933.17	525.60	0.31
Yukon River	Reach Lower	9991	0p5-CC-LC_OW_yuk	19110.00	299.34	317.11		317.66	0.000335	3.29	5810.79	528.44	0.32
Yukon River	Reach Lower	9750	5_OW_klondike	9200.00	299.25	312.88		313.20	0.000326	2.47	3723.43	519.65	0.29
Yukon River	Reach Lower	9750	5_OW_yukon	11100.00	299.25	313.78		314.14	0.000326	2.65	4189.10	521.74	0.30
Yukon River	Reach Lower	9750	1_OW_klondike	10800.00	299.25	313.64		313.99	0.000326	2.62	4117.29	521.44	0.30
Yukon River	Reach Lower	9750	1_OW_yukon	13600.00	299.25	314.87		315.29	0.000325	2.86	4761.07	524.09	0.30
Yukon River	Reach Lower	9750	0p5_OW_klondike	11400.00	299.25	313.92		314.28	0.000326	2.68	4260.46	522.04	0.30
Yukon River	Reach Lower	9750	0p5_OW_yukon	14700.00	299.25	315.33		315.77	0.000322	2.94	5000.16	524.96	0.30
Yukon River	Reach Lower	9750	0p5-CC-LC_OW_klo	14820.00	299.25	315.38		315.82	0.000322	2.95	5025.85	525.06	0.30
Yukon River	Reach Lower	9750	0p5-CC-LC_OW_yuk	19110.00	299.25	317.04		317.58	0.000314	3.24	5903.68	528.29	0.31
Yukon River	Reach Lower	9500	5_OW_klondike	9200.00	299.16	312.75		313.11	0.000369	2.64	3489.43	488.81	0.32
Yukon River	Reach Lower	9500	5_OW_yukon	11100.00	299.16	313.64		314.05	0.000371	2.83	3923.76	491.11	0.32
Yukon River	Reach Lower	9500	1_OW_klondike	10800.00	299.16	313.50		313.90	0.000371	2.80	3856.74	490.75	0.32
Yukon River	Reach Lower	9500	1_OW_yukon	13600.00	299.16	314.72		315.20	0.000373	3.05	4457.70	493.71	0.32
Yukon River	Reach Lower	9500	0p5_OW_klondike	11400.00	299.16	313.77		314.19	0.000371	2.86	3990.37	491.46	0.32
Yukon River	Reach Lower	9500	0p5_OW_yukon	14700.00	299.16	315.17		315.68	0.000373	3.14	4681.23	494.71	0.33
Yukon River	Reach Lower	9500	0p5-CC-LC_OW_klo	14820.00	299.16	315.22		315.73	0.000372	3.15	4705.29	494.82	0.33
Yukon River	Reach Lower	9500	0p5-CC-LC_OW_yuk	19110.00	299.16	316.88		317.49	0.000363	3.46	5527.06	498.30	0.33
Yukon River	Reach Lower	9250	5_OW_klondike	9200.00	299.07	312.61		313.01	0.000380	2.79	3302.89	442.26	0.33
Yukon River	Reach Lower	9250	5_OW_yukon	11100.00	299.07	313.48		313.94	0.000392	3.01	3689.35	444.93	0.33
Yukon River	Reach Lower	9250	1_OW_klondike	10800.00	299.07	313.35		313.80	0.000390	2.98	3629.68	444.56	0.33
Yukon River	Reach Lower	9250	1_OW_yukon	13600.00	299.07	314.55		315.09	0.000402	3.27	4165.08	447.80	0.34
Yukon River	Reach Lower	9250	0p5_OW_klondike	11400.00	299.07	313.61		314.09	0.000393	3.04	3748.69	445.29	0.33
Yukon River	Reach Lower	9250	0p5_OW_yukon	14700.00	299.07	314.99		315.57	0.000403	3.37	4364.55	448.87	0.34
Yukon River	Reach Lower	9250	0p5-CC-LC_OW_klo	14820.00	299.07	315.04		315.62	0.000403	3.38	4386.05	448.98	0.34
Yukon River	Reach Lower	9250	0p5-CC-LC_OW_yuk	19110.00	299.07	316.67		317.38	0.000403	3.73	5128.86	467.63	0.35
Yukon River	Reach Lower	9000	5_OW_klondike	9200.00	298.98	312.47		312.90	0.000414	2.92	3151.54	421.20	0.34
Yukon River	Reach Lower	9000	5_OW_yukon	11100.00	298.98	313.33		313.84	0.000429	3.16	3514.16	423.43	0.35
Yukon River	Reach Lower	9000	1_OW_klondike	10800.00	298.98	313.20		313.69	0.000427	3.12	3458.15	423.09	0.35
Yukon River	Reach Lower	9000	1_OW_yukon	13600.00	298.98	314.38		314.98	0.000443	3.43	3960.64	425.81	0.36
Yukon River	Reach Lower	9000	0p5_OW_klondike	11400.00	298.98	313.46		313.98	0.000431	3.19	3569.89	423.77	0.35
Yukon River	Reach Lower	9000	0p5_OW_yukon	14700.00	298.98	314.82		315.46	0.000447	3.54	4147.99	426.73	0.36
Yukon River	Reach Lower	9000	0p5-CC-LC_OW_klo	14820.00	298.98	314.87		315.51	0.000448	3.56	4168.17	426.83	0.36
Yukon River	Reach Lower	9000	0p5-CC-LC_OW_yuk	19110.00	298.98	316.48		317.27	0.000451	3.94	4858.38	429.79	0.37
Yukon River	Reach Lower	8750	5_OW_klondike	9200.00	298.89	312.25		312.78	0.000515	3.23	2849.35	377.13	0.38
Yukon River	Reach Lower	8750	5_OW_yukon	11100.00	298.89	313.08		313.70	0.000548	3.51	3163.39	380.56	0.39
Yukon River	Reach Lower	8750	1_OW_klondike	10800.00	298.89	312.95		313.56	0.000543	3.47	3114.79	380.11	0.39
Yukon River	Reach Lower	8750	1_OW_yukon	13600.00	298.89	314.09		314.84	0.000576	3.83	3551.78	383.81	0.40
Yukon River	Reach Lower	8750	0p5_OW_klondike	11400.00	298.89	313.20		313.85	0.000553	3.55	3211.80	380.98	0.39
Yukon River	Reach Lower	8750	0p5_OW_yukon	14700.00	298.89	314.52		315.32	0.000585	3.96	3715.13	384.93	0.41
Yukon River	Reach Lower	8750	0p5-CC-LC_OW_klo	14820.00	298.89	314.56		315.37	0.000586	3.97	3732.74	385.04	0.41
Yukon River	Reach Lower	8750	0p5-CC-LC_OW_yuk	19110.00	298.89	316.12		317.12	0.000602	4.41	4337.17	388.85	0.42
Yukon River	Reach Lower	8500	5_OW_klondike	9200.00	298.79	312.19		312.62	0.000478	2.91	3163.48	431.21	0.34
Yukon River	Reach Lower	8500	5_OW_yukon	11100.00	298.79	313.03		313.54	0.000505	3.15	3525.84	434.65	0.35
Yukon River	Reach Lower	8500	1_OW_klondike	10800.00	298.79	312.90		313.40	0.000501	3.11	3469.77	434.18	0.35
Yukon River	Reach Lower	8500	1_OW_yukon	13600.00	298.79	314.06		314.66	0.000527	3.42	3975.03	437.67	0.36
Yukon River	Reach Lower	8500	0p5_OW_klondike	11400.00	298.79	313.16		313.68	0.000508	3.18	3581.71	435.12	0.35
Yukon River	Reach Lower	8500	0p5_OW_yukon	14700.00	298.79	314.49		315.13	0.000533	3.53	4164.30	438.74	0.37
Yukon River	Reach Lower	8500	0p5-CC-LC_OW_klo	14820.00	298.79	314.54		315.18	0.000533	3.54	4184.72	438.84	0.37
Yukon River	Reach Lower	8500	0p5-CC-LC_OW_yuk	19110.00	298.79	316.13		316.91	0.000542	3.91	4885.85	442.15	0.38
Yukon River	Reach Lower	8250	5_OW_klondike	9200.00	298.70	312.10		312.51	0.000389	2.85	3222.84	438.11	0.34
Yukon River	Reach Lower	8250	5_OW_yukon	11100.00	298.70	312.93		313.42	0.000400	3.09	3589.61	441.24	0.35
Yukon River	Reach Lower	8250	1_OW_klondike	10800.00	298.70	312.80		313.28	0.000398	3.06	3532.80	440.81	0.34
Yukon River	Reach Lower	8250	1_OW_yukon	13600.00	298.70	313.96		314.54	0.000405	3.36	4044.96	444.22	0.36
Yukon River	Reach Lower	8250	0p5_OW_klondike	11400.00	298.70	313.06		313.56	0.000400	3.13	3646.14	441.66	0.35
Yukon River	Reach Lower	8250	0p5_OW_yukon	14700.00	298.70	314.39		315.01	0.000405	3.47	4237.03	445.28	0.36
Yukon River	Reach Lower	8250	0p5-CC-LC_OW_klo	14820.00	298.70	314.44		315.06	0.000405	3.48	4257.77	445.39	0.36
Yukon River	Reach Lower	8250	0p5-CC-LC_OW_yuk	19110.00	298.70	316.03		316.79	0.000404	3.85	4970.16	448.78	0.37
Yukon River	Reach Lower	7786	5_OW_klondike	9200.00	298.53	311.97		312.31	0.000385	2.57	3585.73	567.87	0.33
Yukon River	Reach Lower	7786	5_OW_yukon	11100.00	298.53	312.83		313.21	0.000373	2.73	4073.16	572.15	0.33
Yukon River	Reach Lower	7786	1_OW_klondike	10800.00	298.53	312.70		313.07	0.000374	2.70	3997.60	571.60	0.33
Yukon River	Reach Lower	7786	1_OW_yukon	13600.00	298.53	313.89		314.32	0.000355	2.91	4680.44	576.42	0.32
Yukon River	Reach Lower	7786	0p5_OW_klondike	11400.00	298.53	312.96		313.34	0.000371	2.75	4148.35	572.77	0.33
Yukon River	Reach Lower	7786	0p5_OW_yukon	14700.00	298.53	314.33		314.78	0.000347	2.98	4937.10	577.92	0.32
Yukon River	Reach Lower	7786	0p5-CC-LC_OW_klo	14820.00	298.53	314.38		314.83	0.000347	2.99	4964.80	578.09	0.32
Yukon River	Reach Lower	7786	0p5-CC-LC_OW_yuk	19110.00	298.53	316.02		316.55	0.000323	3.24	5917.18	582.65	0.32
Yukon River	Reach Lower	5024	5_OW_klondike	9200.00	296.45	310.96		311.26	0.000369	2.43	3787.38	631.75	0.32
Yukon River	Reach Lower	5024	5_OW_yukon	11100.00	296.45	311.89		312.22	0.000334	2.54	4379.35	636.34	0.31
Yukon River	Reach Lower	5024	1_OW_klondike	10800.00	296.45	311.75		312.07	0.000338	2.52	4288.63	635.71	0.31
Yukon River	Reach Lower	5024	1_OW_yukon	13600.00	296.45	313.03		313.39	0.000305	2.67	5104.44	641.90	0.30
Yukon River	Reach Lower	5024	0p5_OW_klondike	11400.00	296.45	312.03		312.36	0.000329	2.55	4469.25	637.00	0.31
Yukon River	Reach Lower	5024	0p5_OW_yukon	14700.00	296.45	313.50		313.88	0.000297	2.73	5407.54	645.08	0.30
Yukon River	Reach Lower	5024	0p5-CC-LC_OW_klo	14820.00	296.45	313.55		313.93	0.000296	2.74	5440.22	645.50	0.30
Yukon River	Reach Lower	5024	0p5-CC-LC_OW_yuk	19110.00	296.45	315.27		315.71	0.000273	2.94	6568.14	667.06	0.29

HEC-RAS Plan: OW_AEP (Continued)

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Yukon River	Reach Lower	2627	5_OW_klondike	9200.00	295.57	309.95	305.22	310.36	0.000369	2.85	3232.74	422.43	0.33
Yukon River	Reach Lower	2627	5_OW_yukon	11100.00	295.57	310.89	305.77	311.36	0.000368	3.06	3631.62	427.25	0.33
Yukon River	Reach Lower	2627	1_OW_klondike	10800.00	295.57	310.75	305.72	311.21	0.000368	3.03	3570.81	426.66	0.33
Yukon River	Reach Lower	2627	1_OW_yukon	13600.00	295.57	312.01	306.58	312.57	0.000368	3.31	4113.42	431.73	0.34
Yukon River	Reach Lower	2627	0p5_OW_klondike	11400.00	295.57	311.03	305.87	311.52	0.000368	3.09	3691.78	427.83	0.33
Yukon River	Reach Lower	2627	0p5_OW_yukon	14700.00	295.57	312.47	306.98	313.06	0.000368	3.42	4312.58	433.50	0.34
Yukon River	Reach Lower	2627	0p5-CC-LC_OW_klo	14820.00	295.57	312.52	307.02	313.12	0.000368	3.43	4333.98	433.69	0.34
Yukon River	Reach Lower	2627	0p5-CC-LC_OW_yuk	19110.00	295.57	314.19	308.13	314.92	0.000368	3.79	5062.72	439.28	0.35
Klondike River	Reach 1	58149	5_OW_klondike	460.70	457.19	459.50	459.17	459.61	0.003560	1.58	328.69	446.53	0.54
Klondike River	Reach 1	58149	5_OW_yukon	389.20	457.19	459.41	459.09	459.51	0.003698	1.50	287.98	426.33	0.54
Klondike River	Reach 1	58149	1_OW_klondike	566.10	457.19	459.63	459.26	459.75	0.003372	1.68	386.62	485.84	0.54
Klondike River	Reach 1	58149	1_OW_yukon	512.20	457.19	459.57	459.21	459.68	0.003429	1.63	358.19	457.91	0.54
Klondike River	Reach 1	58149	0p5_OW_klondike	610.20	457.19	459.67	459.29	459.80	0.003341	1.72	409.80	514.31	0.54
Klondike River	Reach 1	58149	0p5_OW_yukon	564.00	457.19	459.62	459.25	459.75	0.003383	1.68	385.11	484.10	0.54
Klondike River	Reach 1	58149	0p5-CC-LC_OW_klo	854.30	457.19	459.91	459.49	460.06	0.003128	1.91	557.73	750.58	0.54
Klondike River	Reach 1	58149	0p5-CC-LC_OW_yuk	789.60	457.19	459.86	459.44	460.00	0.003161	1.86	516.64	672.68	0.54
Klondike River	Reach 1	57145	5_OW_klondike	460.70	454.28	457.53	457.08	457.60	0.001269	1.69	611.04	876.27	0.38
Klondike River	Reach 1	57145	5_OW_yukon	389.20	454.28	457.43	456.97	457.49	0.001245	1.61	526.87	762.41	0.37
Klondike River	Reach 1	57145	1_OW_klondike	566.10	454.28	457.66	457.20	457.73	0.001318	1.79	730.41	1049.25	0.39
Klondike River	Reach 1	57145	1_OW_yukon	512.20	454.28	457.60	457.13	457.67	0.001300	1.75	670.63	943.23	0.39
Klondike River	Reach 1	57145	0p5_OW_klondike	610.20	454.28	457.71	457.24	457.78	0.001327	1.83	782.93	1132.47	0.40
Klondike River	Reach 1	57145	0p5_OW_yukon	564.00	454.28	457.66	457.20	457.73	0.001313	1.79	729.09	1045.42	0.39
Klondike River	Reach 1	57145	0p5-CC-LC_OW_klo	854.30	454.28	457.93	457.40	458.00	0.001424	2.01	1063.73	1418.76	0.42
Klondike River	Reach 1	57145	0p5-CC-LC_OW_yuk	789.60	454.28	457.88	457.35	457.95	0.001401	1.97	996.34	1372.04	0.41
Klondike River	Reach 1	56479	5_OW_klondike	522.20	453.12	455.76	455.42	455.82	0.006183	1.44	535.39	918.52	0.40
Klondike River	Reach 1	56479	5_OW_yukon	441.20	453.12	455.68	455.34	455.74	0.006241	1.40	463.68	837.16	0.40
Klondike River	Reach 1	56479	1_OW_klondike	647.70	453.12	455.89	455.51	455.95	0.005631	1.46	660.22	1060.66	0.39
Klondike River	Reach 1	56479	1_OW_yukon	586.00	453.12	455.83	455.47	455.89	0.005840	1.45	598.79	990.76	0.39
Klondike River	Reach 1	56479	0p5_OW_klondike	701.10	453.12	455.94	455.54	456.00	0.005533	1.48	713.22	1114.74	0.39
Klondike River	Reach 1	56479	0p5_OW_yukon	648.00	453.12	455.89	455.52	455.95	0.005630	1.46	660.50	1060.98	0.39
Klondike River	Reach 1	56479	0p5-CC-LC_OW_klo	981.50	453.12	456.18	455.68	456.23	0.004646	1.50	997.48	1245.35	0.36
Klondike River	Reach 1	56479	0p5-CC-LC_OW_yuk	907.20	453.12	456.12	455.67	456.17	0.004935	1.51	921.00	1225.65	0.37
Klondike River	Reach 1	56103	5_OW_klondike	522.20	452.81	455.37	454.87	455.40	0.000777	1.27	1092.81	1417.47	0.30
Klondike River	Reach 1	56103	5_OW_yukon	441.20	452.81	455.25	454.81	455.28	0.000858	1.27	929.32	1384.69	0.31
Klondike River	Reach 1	56103	1_OW_klondike	647.70	452.81	455.55	454.91	455.58	0.000683	1.26	1336.78	1437.19	0.28
Klondike River	Reach 1	56103	1_OW_yukon	586.00	452.81	455.47	454.91	455.49	0.000728	1.27	1222.79	1432.33	0.29
Klondike River	Reach 1	56103	0p5_OW_klondike	701.10	452.81	455.59	454.94	455.62	0.000707	1.30	1392.46	1439.06	0.29
Klondike River	Reach 1	56103	0p5_OW_yukon	648.00	452.81	455.55	454.91	455.58	0.000682	1.26	1337.34	1437.21	0.28
Klondike River	Reach 1	56103	0p5-CC-LC_OW_klo	981.50	452.81	455.86	455.11	455.89	0.000676	1.38	1761.24	1459.85	0.29
Klondike River	Reach 1	56103	0p5-CC-LC_OW_yuk	907.20	452.81	455.79	455.07	455.82	0.000692	1.37	1661.03	1449.93	0.29
Klondike River	Reach 1	54315	5_OW_klondike	522.20	449.60	452.16	452.00	452.57	0.004644	3.16	248.72	369.74	0.74
Klondike River	Reach 1	54315	5_OW_yukon	441.20	449.60	452.08	451.78	452.41	0.003878	2.83	223.66	333.72	0.68
Klondike River	Reach 1	54315	1_OW_klondike	647.70	449.60	452.25	452.21	452.78	0.006086	3.70	277.24	410.31	0.84
Klondike River	Reach 1	54315	1_OW_yukon	586.00	449.60	452.21	452.11	452.67	0.005340	3.43	263.02	388.71	0.79
Klondike River	Reach 1	54315	0p5_OW_klondike	701.10	449.60	452.38	452.38	452.86	0.005302	3.56	328.90	448.42	0.79
Klondike River	Reach 1	54315	0p5_OW_yukon	648.00	449.60	452.25	452.21	452.79	0.006092	3.70	277.24	410.31	0.84
Klondike River	Reach 1	54315	0p5-CC-LC_OW_klo	981.50	449.60	452.69	452.69	453.20	0.005452	3.87	461.35	521.10	0.80
Klondike River	Reach 1	54315	0p5-CC-LC_OW_yuk	907.20	449.60	452.64	452.64	453.12	0.005179	3.73	438.53	510.52	0.78
Klondike River	Reach 1	53429	5_OW_klondike	522.20	446.75	449.81	449.24	449.89	0.001938	1.59	475.99	579.35	0.39
Klondike River	Reach 1	53429	5_OW_yukon	441.20	446.75	449.61	449.11	449.71	0.002280	1.71	378.93	448.40	0.44
Klondike River	Reach 1	53429	1_OW_klondike	647.70	446.75	450.05	449.38	450.12	0.001588	1.55	639.18	783.58	0.36
Klondike River	Reach 1	53429	1_OW_yukon	586.00	446.75	449.93	449.29	450.01	0.001731	1.56	555.50	677.07	0.38
Klondike River	Reach 1	53429	0p5_OW_klondike	701.10	446.75	450.14	449.43	450.21	0.001474	1.54	713.60	856.76	0.35
Klondike River	Reach 1	53429	0p5_OW_yukon	648.00	446.75	450.05	449.38	450.12	0.001587	1.55	639.65	784.24	0.36
Klondike River	Reach 1	53429	0p5-CC-LC_OW_klo	981.50	446.75	450.55	449.73	450.61	0.001153	1.54	1101.36	1013.94	0.32
Klondike River	Reach 1	53429	0p5-CC-LC_OW_yuk	907.20	446.75	450.45	449.64	450.52	0.001224	1.55	1008.27	997.46	0.33
Klondike River	Reach 1	52840	5_OW_klondike	522.20	445.50	449.11		449.25	0.000925	1.76	368.43	209.74	0.34
Klondike River	Reach 1	52840	5_OW_yukon	441.20	445.50	448.93		449.05	0.000850	1.61	332.38	197.51	0.33
Klondike River	Reach 1	52840	1_OW_klondike	647.70	445.50	449.32		449.49	0.001055	1.98	416.58	237.23	0.37
Klondike River	Reach 1	52840	1_OW_yukon	586.00	445.50	449.22		449.38	0.000991	1.87	393.25	225.78	0.36
Klondike River	Reach 1	52840	0p5_OW_klondike	701.10	445.50	449.40		449.59	0.001115	2.07	435.79	255.45	0.38
Klondike River	Reach 1	52840	0p5_OW_yukon	648.00	445.50	449.32		449.50	0.001055	1.98	416.76	237.35	0.37
Klondike River	Reach 1	52840	0p5-CC-LC_OW_klo	981.50	445.50	449.72		449.99	0.001455	2.53	560.60	639.72	0.45
Klondike River	Reach 1	52840	0p5-CC-LC_OW_yuk	907.20	445.50	449.64		449.89	0.001377	2.42	515.33	499.17	0.43
Klondike River	Reach 1	52279	5_OW_klondike	522.20	445.07	448.19	447.81	448.45	0.002434	2.49	314.87	524.22	0.54
Klondike River	Reach 1	52279	5_OW_yukon	441.20	445.07	448.04		448.29	0.002408	2.37	258.76	434.08	0.53
Klondike River	Reach 1	52279	1_OW_klondike	647.70	445.07	448.37	448.06	448.64	0.002411	2.62	407.26	670.64	0.54
Klondike River	Reach 1	52279	1_OW_yukon	586.00	445.07	448.28	447.94	448.55	0.002440	2.56	359.19	597.17	0.54
Klondike River	Reach 1	52279	0p5_OW_klondike	701.10	445.07	448.44	448.19	448.71	0.002377	2.65	451.13	772.54	0.54
Klondike River	Reach 1	52279	0p5_OW_yukon	648.00	445.07	448.37	448.06	448.64	0.002399	2.61	408.65	673.25	0.54
Klondike River	Reach 1	52279	0p5-CC-LC_OW_klo	981.50	445.07	448.77	448.54	449.02	0.002182	2.76	702.03	1012.31	0.53
Klondike River	Reach 1	52279	0p5-CC-LC_OW_yuk	907.20	445.07	448.69	448.44	448.94	0.002223	2.73	636.60	990.98	0.53
Klondike River	Reach 1	50899	5_OW_klondike	632.40	441.51	444.71		444.85	0.002492	2.06	516.08	617.04	0.52
Klondike River	Reach 1	50899	5_OW_yukon	534.30	441.51	444.58		444.72	0.002515	1.96	442.70	526.20	0.51
Klondike River	Reach 1	50899	1_OW_klondike	795.70	441.51	444.90		445.06	0.002470	2.21	644.49	741.25	0.52
Klondike River	Reach 1	50899	1_OW_yukon	719.90	441.51	444.82		444.97	0.002451	2.14	588.11	689.94	0.52
Klondike River	Reach 1	50899	0p5_OW_klondike	866.90	441.51	444.96		445.13	0.002488	2.27	695.61	790.96	0.53
Klondike River	Reach 1	50899	0p5_OW_yukon	801.30	441.51	444.90		445.07	0.002474	2.22	649.00	745.49	0.53
Klondike River	Reach 1	50899	0p5-CC-LC_OW_klo	1213.70	441.51	445.28		445.48	0.002597	2.57	972.12	928.97	0.56
Klondike River	Reach 1	50899	0p5-CC-LC_OW_yuk	1121.80	441.51	445.19		445.38	0.002596	2.50	888.11	913.78	0.55

HEC-RAS Plan: OW_AEP (Continued)

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Klondike River	Reach 1	50334	5_OW_klondike	632.40	440.40	443.11		443.32	0.003069	2.21	409.14	518.22	0.57
Klondike River	Reach 1	50334	5_OW_yukon	534.30	440.40	442.98		443.17	0.003065	2.08	350.09	422.33	0.56
Klondike River	Reach 1	50334	1_OW_klondike	795.70	440.40	443.30		443.53	0.003068	2.38	516.47	645.25	0.58
Klondike River	Reach 1	50334	1_OW_yukon	719.90	440.40	443.22		443.44	0.003090	2.32	467.53	579.27	0.58
Klondike River	Reach 1	50334	0p5_OW_klondike	866.90	440.40	443.37		443.61	0.003023	2.43	566.91	716.59	0.58
Klondike River	Reach 1	50334	0p5_OW_yukon	801.30	440.40	443.30		443.54	0.003066	2.39	520.15	649.46	0.58
Klondike River	Reach 1	50334	0p5-CC-LC_OW_klo	1213.70	440.40	443.68		443.95	0.002968	2.68	815.70	895.76	0.59
Klondike River	Reach 1	50334	0p5-CC-LC_OW_yuk	1121.80	440.40	443.60		443.86	0.002923	2.59	749.36	863.61	0.58
Klondike River	Reach 1	49973	5_OW_klondike	632.40	439.55	442.28	441.76	442.43	0.002161	1.80	417.01	424.38	0.48
Klondike River	Reach 1	49973	5_OW_yukon	534.30	439.55	442.15	441.66	442.29	0.002139	1.69	366.27	365.98	0.47
Klondike River	Reach 1	49973	1_OW_klondike	795.70	439.55	442.47	441.91	442.64	0.002196	1.97	501.13	478.82	0.49
Klondike River	Reach 1	49973	1_OW_yukon	719.90	439.55	442.39	441.84	442.55	0.002180	1.89	463.08	455.89	0.48
Klondike River	Reach 1	49973	0p5_OW_klondike	866.90	439.55	442.54	441.97	442.73	0.002225	2.04	536.38	498.99	0.50
Klondike River	Reach 1	49973	0p5_OW_yukon	801.30	439.55	442.48	441.92	442.65	0.002199	1.97	503.73	480.39	0.49
Klondike River	Reach 1	49973	0p5-CC-LC_OW_klo	1213.70	439.55	442.87	442.24	443.09	0.002224	2.29	709.57	593.31	0.51
Klondike River	Reach 1	49973	0p5-CC-LC_OW_yuk	1121.80	439.55	442.78	442.17	443.00	0.002251	2.24	662.44	569.80	0.51
Klondike River	Reach 1	49383	5_OW_klondike	632.40	437.54	440.88		441.04	0.002322	1.99	416.86	422.50	0.50
Klondike River	Reach 1	49383	5_OW_yukon	534.30	437.54	440.71		440.86	0.002485	1.92	348.30	355.20	0.51
Klondike River	Reach 1	49383	1_OW_klondike	795.70	437.54	441.15		441.32	0.002072	2.09	541.96	502.57	0.48
Klondike River	Reach 1	49383	1_OW_yukon	719.90	437.54	441.03		441.19	0.002198	2.05	482.52	472.47	0.49
Klondike River	Reach 1	49383	0p5_OW_klondike	866.90	437.54	441.26		441.43	0.001958	2.11	598.37	523.06	0.48
Klondike River	Reach 1	49383	0p5_OW_yukon	801.30	437.54	441.16		441.33	0.002064	2.09	546.43	506.29	0.48
Klondike River	Reach 1	49383	0p5-CC-LC_OW_klo	1213.70	437.54	441.74		441.90	0.001597	2.19	860.32	575.72	0.45
Klondike River	Reach 1	49383	0p5-CC-LC_OW_yuk	1121.80	437.54	441.62		441.78	0.001666	2.17	792.44	560.98	0.45
Klondike River	Reach 1	49175	5_OW_klondike	632.40	437.30	440.44		440.60	0.001734	1.79	370.71	272.05	0.45
Klondike River	Reach 1	49175	5_OW_yukon	534.30	437.30	440.25		440.40	0.001766	1.73	319.25	261.16	0.46
Klondike River	Reach 1	49175	1_OW_klondike	795.70	437.30	440.73		440.91	0.001675	1.89	454.80	311.95	0.43
Klondike River	Reach 1	49175	1_OW_yukon	719.90	437.30	440.60		440.77	0.001707	1.85	414.89	283.74	0.44
Klondike River	Reach 1	49175	0p5_OW_klondike	866.90	437.30	440.85		441.03	0.001660	1.93	493.86	352.16	0.43
Klondike River	Reach 1	49175	0p5_OW_yukon	801.30	437.30	440.74		440.92	0.001674	1.89	457.70	315.70	0.43
Klondike River	Reach 1	49175	0p5-CC-LC_OW_klo	1213.70	437.30	441.36		441.57	0.001548	2.07	694.07	407.87	0.41
Klondike River	Reach 1	49175	0p5-CC-LC_OW_yuk	1121.80	437.30	441.23		441.43	0.001597	2.05	639.78	403.94	0.42
Klondike River	Reach 1	49000	5_OW_klondike	632.40	436.74	440.10		440.28	0.001867	1.96	358.45	250.59	0.46
Klondike River	Reach 1	49000	5_OW_yukon	534.30	436.74	439.89		440.07	0.002021	1.88	309.78	237.69	0.47
Klondike River	Reach 1	49000	1_OW_klondike	795.70	436.74	440.41		440.61	0.001714	2.08	435.41	267.79	0.45
Klondike River	Reach 1	49000	1_OW_yukon	719.90	436.74	440.27		440.46	0.001768	2.02	400.16	262.08	0.45
Klondike River	Reach 1	49000	0p5_OW_klondike	866.90	436.74	440.53		440.74	0.001659	2.12	467.16	271.01	0.45
Klondike River	Reach 1	49000	0p5_OW_yukon	801.30	436.74	440.42		440.62	0.001709	2.08	437.91	268.15	0.45
Klondike River	Reach 1	49000	0p5-CC-LC_OW_klo	1213.70	436.74	441.04		441.29	0.001550	2.34	603.49	313.54	0.45
Klondike River	Reach 1	49000	0p5-CC-LC_OW_yuk	1121.80	436.74	440.91		441.15	0.001577	2.29	567.55	302.55	0.45
Klondike River	Reach 1	48700	5_OW_klondike	632.40	435.90	439.63		439.80	0.001395	1.84	355.65	291.67	0.39
Klondike River	Reach 1	48700	5_OW_yukon	534.30	435.90	439.42		439.57	0.001360	1.73	315.78	242.22	0.39
Klondike River	Reach 1	48700	1_OW_klondike	795.70	435.90	439.94		440.14	0.001459	2.01	421.25	377.85	0.40
Klondike River	Reach 1	48700	1_OW_yukon	719.90	435.90	439.80		439.99	0.001437	1.94	389.76	351.37	0.40
Klondike River	Reach 1	48700	0p5_OW_klondike	866.90	435.90	440.06		440.27	0.001484	2.08	457.04	389.07	0.41
Klondike River	Reach 1	48700	0p5_OW_yukon	801.30	435.90	439.95		440.15	0.001461	2.02	423.55	379.02	0.40
Klondike River	Reach 1	48700	0p5-CC-LC_OW_klo	1213.70	435.90	440.66		440.87	0.001244	2.14	733.31	488.75	0.38
Klondike River	Reach 1	48700	0p5-CC-LC_OW_yuk	1121.80	435.90	440.49		440.71	0.001347	2.16	651.51	486.28	0.39
Klondike River	Reach 1	48530	5_OW_klondike	632.40	435.46	439.12	438.59	439.46	0.002629	2.74	312.55	263.51	0.57
Klondike River	Reach 1	48530	5_OW_yukon	534.30	435.46	438.91	438.37	439.23	0.002711	2.62	261.03	237.68	0.57
Klondike River	Reach 1	48530	1_OW_klondike	795.70	435.46	439.47	438.89	439.81	0.002307	2.81	412.14	353.93	0.54
Klondike River	Reach 1	48530	1_OW_yukon	719.90	435.46	439.31	438.78	439.65	0.002459	2.79	362.64	299.29	0.55
Klondike River	Reach 1	48530	0p5_OW_klondike	866.90	435.46	439.63	438.99	439.96	0.002120	2.80	466.45	387.69	0.52
Klondike River	Reach 1	48530	0p5_OW_yukon	801.30	435.46	439.48	438.89	439.83	0.002292	2.81	416.19	359.50	0.54
Klondike River	Reach 1	48530	0p5-CC-LC_OW_klo	1213.70	435.46	440.41	439.45	440.64	0.001286	2.55	773.90	433.41	0.43
Klondike River	Reach 1	48530	0p5-CC-LC_OW_yuk	1121.80	435.46	440.21	439.39	440.46	0.001456	2.62	694.27	426.25	0.45
Klondike River	Reach 1	48400	5_OW_klondike	632.40	435.59	438.91		439.13	0.001868	2.30	397.74	339.07	0.48
Klondike River	Reach 1	48400	5_OW_yukon	534.30	435.59	438.65		438.89	0.002134	2.29	319.49	282.23	0.51
Klondike River	Reach 1	48400	1_OW_klondike	795.70	435.59	439.33		439.53	0.001437	2.24	542.52	362.08	0.43
Klondike River	Reach 1	48400	1_OW_yukon	719.90	435.59	439.13		439.35	0.001622	2.27	474.94	351.84	0.45
Klondike River	Reach 1	48400	0p5_OW_klondike	866.90	435.59	439.51		439.70	0.001291	2.21	605.20	365.22	0.41
Klondike River	Reach 1	48400	0p5_OW_yukon	801.30	435.59	439.34		439.54	0.001424	2.24	547.48	362.35	0.43
Klondike River	Reach 1	48400	0p5-CC-LC_OW_klo	1213.70	435.59	440.32		440.48	0.000872	2.13	901.25	395.35	0.35
Klondike River	Reach 1	48400	0p5-CC-LC_OW_yuk	1121.80	435.59	440.11		440.28	0.000951	2.14	822.69	387.02	0.36
Klondike River	Reach 1	48250	5_OW_klondike	632.40	435.03	438.64		438.87	0.001660	2.26	377.44	256.45	0.46
Klondike River	Reach 1	48250	5_OW_yukon	534.30	435.03	438.33		438.57	0.002016	2.29	303.97	249.00	0.49
Klondike River	Reach 1	48250	1_OW_klondike	795.70	435.03	439.10		439.32	0.001312	2.25	494.58	274.57	0.42
Klondike River	Reach 1	48250	1_OW_yukon	719.90	435.03	438.89		439.11	0.001457	2.26	440.39	269.16	0.44
Klondike River	Reach 1	48250	0p5_OW_klondike	866.90	435.03	439.30		439.50	0.001202	2.25	544.35	280.60	0.40
Klondike River	Reach 1	48250	0p5_OW_yukon	801.30	435.03	439.12		439.33	0.001302	2.25	498.55	274.74	0.42
Klondike River	Reach 1	48250	0p5-CC-LC_OW_klo	1213.70	435.03	440.15		440.34	0.000874	2.25	784.74	302.25	0.36
Klondike River	Reach 1	48250	0p5-CC-LC_OW_yuk	1121.80	435.03	439.93		440.13	0.000945	2.25	719.84	298.95	0.37
Klondike River	Reach 1	48100	5_OW_klondike	632.40	434.27	438.36		438.62	0.001546	2.27	278.90	111.42	0.45
Klondike River	Reach 1	48100	5_OW_yukon	534.30	434.27	438.07		438.31	0.001599	2.16	247.26	107.51	0.45
Klondike River	Reach 1	48100	1_OW_klondike	795.70	434.27	438.79		439.10	0.001492	2.45	329.10	119.23	0.45
Klondike River	Reach 1	48100	1_OW_yukon	719.90	434.27	438.60		438.88	0.001515	2.37	306.02	115.66	0.45
Klondike River	Reach 1	48100	0p5_OW_klondike	866.90	434.27	438.97		439.29	0.001471	2.52	350.60	122.30	0.45
Klondike River	Reach 1	48100	0p5_OW_yukon	801.30	434.27	438.81		439.11	0.001490	2.45	330.80	119.76	0.45
Klondike River	Reach 1	48100	0p5-CC-LC_OW_klo	1213.70	434.27	439.76		440.16	0.001388	2.79	452.55	144.97	0.44
Klondike River	Reach 1	48100	0p5-CC-LC_OW_yuk	1121.80	434.27	439.56		439.94	0.001404	2.72	425.46	134.22	0.44

HEC-RAS Plan: OW_AEP (Continued)

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Klondike River	Reach 1	48010	5_OW_klondike	632.40	433.89	438.08		438.45	0.002175	2.69	235.66	85.09	0.51
Klondike River	Reach 1	48010	5_OW_yukon	534.30	433.89	437.81		438.13	0.002142	2.51	213.13	83.40	0.50
Klondike River	Reach 1	48010	1_OW_klondike	795.70	433.89	438.48		438.92	0.002219	2.96	269.80	87.03	0.53
Klondike River	Reach 1	48010	1_OW_yukon	719.90	433.89	438.30		438.71	0.002197	2.84	254.39	86.21	0.52
Klondike River	Reach 1	48010	0p5_OW_klondike	866.90	433.89	438.64		439.12	0.002239	3.07	283.75	87.88	0.53
Klondike River	Reach 1	48010	0p5_OW_yukon	801.30	433.89	438.49		438.94	0.002220	2.97	270.92	87.09	0.53
Klondike River	Reach 1	48010	0p5-CC-LC_OW_klo	1213.70	433.89	439.33		439.97	0.002323	3.55	346.73	93.04	0.56
Klondike River	Reach 1	48010	0p5-CC-LC_OW_yuk	1121.80	433.89	439.16		439.76	0.002305	3.43	330.62	90.99	0.55
Klondike River	Reach 1	47901	5_OW_klondike	632.40	433.20	437.85		438.24	0.001703	2.75	232.44	74.19	0.48
Klondike River	Reach 1	47901	5_OW_yukon	534.30	433.20	437.61		437.93	0.001567	2.50	214.78	73.35	0.46
Klondike River	Reach 1	47901	1_OW_klondike	795.70	433.20	438.20		438.69	0.001923	3.12	258.31	75.41	0.52
Klondike River	Reach 1	47901	1_OW_yukon	719.90	433.20	438.04		438.49	0.001823	2.95	246.75	74.87	0.50
Klondike River	Reach 1	47901	0p5_OW_klondike	866.90	433.20	438.33		438.88	0.002016	3.27	268.59	75.89	0.54
Klondike River	Reach 1	47901	0p5_OW_yukon	801.30	433.20	438.21		438.71	0.001931	3.13	259.14	75.45	0.52
Klondike River	Reach 1	47901	0p5-CC-LC_OW_klo	1213.70	433.20	438.91		439.70	0.002440	3.95	312.66	77.92	0.61
Klondike River	Reach 1	47901	0p5-CC-LC_OW_yuk	1121.80	433.20	438.77		439.49	0.002331	3.78	301.81	77.42	0.59
Klondike River	Reach 1	47790	5_OW_klondike	632.40	433.56	437.74		438.02	0.001584	2.34	270.25	89.41	0.43
Klondike River	Reach 1	47790	5_OW_yukon	534.30	433.56	437.50		437.74	0.001479	2.15	248.98	88.23	0.41
Klondike River	Reach 1	47790	1_OW_klondike	795.70	433.56	438.09		438.45	0.001750	2.64	301.64	91.05	0.46
Klondike River	Reach 1	47790	1_OW_yukon	719.90	433.56	437.94		438.26	0.001674	2.51	287.58	90.29	0.44
Klondike River	Reach 1	47790	0p5_OW_klondike	866.90	433.56	438.23		438.62	0.001820	2.77	314.20	91.80	0.47
Klondike River	Reach 1	47790	0p5_OW_yukon	801.30	433.56	438.10		438.46	0.001756	2.65	302.64	91.11	0.46
Klondike River	Reach 1	47790	0p5-CC-LC_OW_klo	1213.70	433.56	438.82		439.38	0.002134	3.32	369.11	96.46	0.52
Klondike River	Reach 1	47790	0p5-CC-LC_OW_yuk	1121.80	433.56	438.67		439.19	0.002054	3.18	355.39	94.73	0.51
Klondike River	Reach 1	47700	5_OW_klondike	632.40	433.03	437.53	436.43	437.86	0.001843	2.56	247.18	91.75	0.50
Klondike River	Reach 1	47700	5_OW_yukon	534.30	433.03	437.31	436.20	437.59	0.001706	2.35	227.02	90.37	0.47
Klondike River	Reach 1	47700	1_OW_klondike	795.70	433.03	437.85	436.76	438.27	0.002048	2.88	276.80	93.72	0.53
Klondike River	Reach 1	47700	1_OW_yukon	719.90	433.03	437.71	436.62	438.09	0.001954	2.73	263.59	93.11	0.52
Klondike River	Reach 1	47700	0p5_OW_klondike	866.90	433.03	437.97	436.88	438.44	0.002135	3.01	288.55	94.98	0.54
Klondike River	Reach 1	47700	0p5_OW_yukon	801.30	433.03	437.86	436.77	438.28	0.002055	2.89	277.74	93.80	0.53
Klondike River	Reach 1	47700	0p5-CC-LC_OW_klo	1213.70	433.03	438.49	437.45	439.16	0.002554	3.61	338.27	96.81	0.60
Klondike River	Reach 1	47700	0p5-CC-LC_OW_yuk	1121.80	433.03	438.37	437.31	438.98	0.002443	3.45	326.20	96.22	0.59
Klondike River	Reach 1	47550	5_OW_klondike	632.40	433.60	437.20	436.42	437.55	0.002382	2.61	246.13	123.54	0.55
Klondike River	Reach 1	47550	5_OW_yukon	534.30	433.60	436.99	436.21	437.29	0.002315	2.43	221.09	114.55	0.54
Klondike River	Reach 1	47550	1_OW_klondike	795.70	433.60	437.51	436.71	437.93	0.002504	2.88	285.62	129.78	0.57
Klondike River	Reach 1	47550	1_OW_yukon	719.90	433.60	437.38	436.57	437.76	0.002448	2.76	267.89	129.07	0.56
Klondike River	Reach 1	47550	0p5_OW_klondike	866.90	433.60	437.63	436.82	438.08	0.002570	2.99	300.87	130.24	0.58
Klondike River	Reach 1	47550	0p5_OW_yukon	801.30	433.60	437.52	436.72	437.94	0.002509	2.89	286.86	129.82	0.57
Klondike River	Reach 1	47550	0p5-CC-LC_OW_klo	1213.70	433.60	438.11	437.34	438.73	0.002911	3.52	364.58	132.16	0.63
Klondike River	Reach 1	47550	0p5-CC-LC_OW_yuk	1121.80	433.60	438.00	437.17	438.57	0.002814	3.38	349.27	131.79	0.62
Klondike River	Reach 1	47390	5_OW_klondike	632.40	434.08	436.93		437.19	0.001799	2.26	290.84	167.90	0.46
Klondike River	Reach 1	47390	5_OW_yukon	534.30	434.08	436.73		436.95	0.001714	2.10	259.06	143.37	0.45
Klondike River	Reach 1	47390	1_OW_klondike	795.70	434.08	437.24		437.55	0.001913	2.50	346.88	194.81	0.48
Klondike River	Reach 1	47390	1_OW_yukon	719.90	434.08	437.10		437.39	0.001865	2.40	320.75	190.05	0.48
Klondike River	Reach 1	47390	0p5_OW_klondike	866.90	434.08	437.35		437.69	0.001962	2.60	369.45	195.94	0.49
Klondike River	Reach 1	47390	0p5_OW_yukon	801.30	434.08	437.25		437.56	0.001917	2.51	348.69	194.92	0.48
Klondike River	Reach 1	47390	0p5-CC-LC_OW_klo	1213.70	434.08	437.83		438.28	0.002194	3.03	464.85	201.98	0.53
Klondike River	Reach 1	47390	0p5-CC-LC_OW_yuk	1121.80	434.08	437.72		438.14	0.002128	2.92	441.84	198.41	0.52
Klondike River	Reach 1	47300	5_OW_klondike	632.40	433.73	436.71		436.97	0.003698	2.23	292.83	189.55	0.48
Klondike River	Reach 1	47300	5_OW_yukon	534.30	433.73	436.51		436.73	0.003649	2.08	259.07	148.39	0.47
Klondike River	Reach 1	47300	1_OW_klondike	795.70	433.73	437.02		437.31	0.003695	2.43	356.34	241.31	0.49
Klondike River	Reach 1	47300	1_OW_yukon	719.90	433.73	436.88		437.16	0.003718	2.35	325.91	222.43	0.48
Klondike River	Reach 1	47300	0p5_OW_klondike	866.90	433.73	437.14		437.45	0.003702	2.51	382.63	251.21	0.49
Klondike River	Reach 1	47300	0p5_OW_yukon	801.30	433.73	437.03		437.32	0.003696	2.44	358.43	242.32	0.49
Klondike River	Reach 1	47300	0p5-CC-LC_OW_klo	1213.70	433.73	437.63		438.01	0.003747	2.83	499.71	271.13	0.51
Klondike River	Reach 1	47300	0p5-CC-LC_OW_yuk	1121.80	433.73	437.51		437.87	0.003722	2.75	469.78	264.25	0.50
Klondike River	Reach 1	47150	5_OW_klondike	632.40	433.25	436.13		436.47	0.002810	2.76	292.80	182.37	0.59
Klondike River	Reach 1	47150	5_OW_yukon	534.30	433.25	435.93		436.24	0.002861	2.62	256.61	171.96	0.58
Klondike River	Reach 1	47150	1_OW_klondike	795.70	433.25	436.38		436.80	0.003000	3.06	345.40	241.35	0.62
Klondike River	Reach 1	47150	1_OW_yukon	719.90	433.25	436.29		436.67	0.002789	2.88	325.34	217.51	0.59
Klondike River	Reach 1	47150	0p5_OW_klondike	866.90	433.25	436.50		436.93	0.002984	3.15	374.02	266.39	0.62
Klondike River	Reach 1	47150	0p5_OW_yukon	801.30	433.25	436.39		436.81	0.002999	3.07	347.61	244.14	0.62
Klondike River	Reach 1	47150	0p5-CC-LC_OW_klo	1213.70	433.25	436.99		437.50	0.002920	3.49	508.95	332.38	0.63
Klondike River	Reach 1	47150	0p5-CC-LC_OW_yuk	1121.80	433.25	436.87		437.36	0.002946	3.41	474.93	319.35	0.63
Klondike River	Reach 1	47000	5_OW_klondike	632.40	432.80	435.76		436.05	0.002614	2.46	309.14	241.56	0.53
Klondike River	Reach 1	47000	5_OW_yukon	534.30	432.80	435.53		435.80	0.002828	2.37	262.31	207.87	0.54
Klondike River	Reach 1	47000	1_OW_klondike	795.70	432.80	435.99		436.34	0.002853	2.74	367.48	314.90	0.56
Klondike River	Reach 1	47000	1_OW_yukon	719.90	432.80	435.95		436.25	0.002513	2.54	354.57	302.03	0.52
Klondike River	Reach 1	47000	0p5_OW_klondike	866.90	432.80	436.12		436.48	0.002789	2.81	404.93	335.88	0.56
Klondike River	Reach 1	47000	0p5_OW_yukon	801.30	432.80	436.00		436.35	0.002844	2.75	370.60	316.92	0.56
Klondike River	Reach 1	47000	0p5-CC-LC_OW_klo	1213.70	432.80	436.67		437.06	0.002484	3.02	575.30	363.25	0.55
Klondike River	Reach 1	47000	0p5-CC-LC_OW_yuk	1121.80	432.80	436.53		436.92	0.002584	2.98	531.32	357.59	0.55
Klondike River	Reach 1	46850	5_OW_klondike	632.40	432.38	435.51		435.73	0.001581	2.10	334.25	220.21	0.43
Klondike River	Reach 1	46850	5_OW_yukon	534.30	432.38	435.26		435.46	0.001647	2.00	285.84	186.53	0.43
Klondike River	Reach 1	46850	1_OW_klondike	795.70	432.38	435.67		435.97	0.001999	2.45	375.34	303.19	0.49
Klondike River	Reach 1	46850	1_OW_yukon	719.90	432.38	435.70		435.93	0.001590	2.20	381.72	311.91	0.43
Klondike River	Reach 1	46850	0p5_OW_klondike	866.90	432.38	435.81		436.11	0.001973	2.51	416.97	335.84	0.49
Klondike River	Reach 1	46850	0p5_OW_yukon	801.30	432.38	435.68		435.98	0.002002	2.46	378.33	307.02	0.49
Klondike River	Reach 1	46850	0p5-CC-LC_OW_klo	1213.70	432.38	436.41		436.73	0.001723	2.66	633.76	457.46	0.47
Klondike River	Reach 1	46850	0p5-CC-LC_OW_yuk	1121.80	432.38	436.25		436.58	0.001815	2.65	573.89	430.33	0.48

HEC-RAS Plan: OW_AEP (Continued)

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Klondike River	Reach 1	46700	5_OW_klondike	632.40	431.90	435.02	434.36	435.41	0.002692	2.85	279.16	304.15	0.58
Klondike River	Reach 1	46700	5_OW_yukon	534.30	431.90	434.80	434.13	435.14	0.002654	2.66	237.27	254.28	0.57
Klondike River	Reach 1	46700	1_OW_klondike	795.70	431.90	435.45	434.66	435.68	0.001565	2.41	524.67	478.67	0.45
Klondike River	Reach 1	46700	1_OW_yukon	719.90	431.90	435.22	434.53	435.62	0.002591	2.93	324.38	389.11	0.58
Klondike River	Reach 1	46700	0p5_OW_klondike	866.90	431.90	435.61	434.77	435.83	0.001459	2.41	583.08	499.00	0.44
Klondike River	Reach 1	46700	0p5_OW_yukon	801.30	431.90	435.46	434.67	435.69	0.001556	2.41	529.24	481.06	0.45
Klondike River	Reach 1	46700	0p5-CC-LC_OW_klo	1213.70	431.90	436.30	435.34	436.48	0.001084	2.37	904.19	555.70	0.39
Klondike River	Reach 1	46700	0p5-CC-LC_OW_yuk	1121.80	431.90	436.13	435.34	436.32	0.001143	2.36	830.27	541.86	0.40
Klondike River	Reach 1	46513	5_OW_klondike	632.40	431.49	434.79	433.91	435.02	0.002100	2.20	346.32	302.97	0.47
Klondike River	Reach 1	46513	5_OW_yukon	534.30	431.49	434.52	433.72	434.75	0.002315	2.16	283.62	261.01	0.49
Klondike River	Reach 1	46513	1_OW_klondike	795.70	431.49	435.21	434.22	435.43	0.001724	2.21	476.56	537.97	0.43
Klondike River	Reach 1	46513	1_OW_yukon	719.90	431.49	435.02	434.08	435.25	0.001894	2.21	407.52	394.05	0.45
Klondike River	Reach 1	46513	0p5_OW_klondike	866.90	431.49	435.40	434.33	435.60	0.001510	2.15	554.46	577.82	0.41
Klondike River	Reach 1	46513	0p5_OW_yukon	801.30	431.49	435.23	434.23	435.45	0.001707	2.20	482.46	541.16	0.43
Klondike River	Reach 1	46513	0p5-CC-LC_OW_klo	1213.70	431.49	436.17	434.81	436.32	0.000909	1.94	889.36	721.92	0.33
Klondike River	Reach 1	46513	0p5-CC-LC_OW_yuk	1121.80	431.49	435.99	434.69	436.14	0.001003	1.97	809.14	715.98	0.34
Klondike River	Reach 1	46503		Bridge									
Klondike River	Reach 1	46441	5_OW_klondike	632.40	431.25	434.40		434.71	0.002342	2.54	295.30	301.10	0.54
Klondike River	Reach 1	46441	5_OW_yukon	534.30	431.25	434.17		434.47	0.002463	2.43	248.28	233.82	0.54
Klondike River	Reach 1	46441	1_OW_klondike	795.70	431.25	434.75		435.08	0.002134	2.66	378.06	386.15	0.52
Klondike River	Reach 1	46441	1_OW_yukon	719.90	431.25	434.59		434.92	0.002230	2.61	338.77	340.26	0.53
Klondike River	Reach 1	46441	0p5_OW_klondike	866.90	431.25	434.89		435.22	0.002051	2.70	417.06	421.48	0.52
Klondike River	Reach 1	46441	0p5_OW_yukon	801.30	431.25	434.76		435.09	0.002127	2.66	381.02	388.54	0.52
Klondike River	Reach 1	46441	0p5-CC-LC_OW_klo	1213.70	431.25	435.39		435.72	0.001806	2.83	616.14	611.88	0.50
Klondike River	Reach 1	46441	0p5-CC-LC_OW_yuk	1121.80	431.25	435.29		435.61	0.001819	2.78	573.42	589.90	0.50
Klondike River	Reach 1	46352	5_OW_klondike	632.40	430.67	434.07		434.33	0.002411	2.24	282.64	167.54	0.53
Klondike River	Reach 1	46352	5_OW_yukon	534.30	430.67	433.81		434.06	0.002694	2.22	240.98	154.78	0.57
Klondike River	Reach 1	46352	1_OW_klondike	795.70	430.67	434.45		434.73	0.002155	2.32	348.32	221.33	0.50
Klondike River	Reach 1	46352	1_OW_yukon	719.90	430.67	434.28		434.55	0.002254	2.28	317.88	185.93	0.51
Klondike River	Reach 1	46352	0p5_OW_klondike	866.90	430.67	434.60		434.88	0.002077	2.35	380.69	287.89	0.49
Klondike River	Reach 1	46352	0p5_OW_yukon	801.30	430.67	434.47		434.74	0.002149	2.32	350.64	225.20	0.50
Klondike River	Reach 1	46352	0p5-CC-LC_OW_klo	1213.70	430.67	435.15		435.43	0.001842	2.47	577.99	613.93	0.47
Klondike River	Reach 1	46352	0p5-CC-LC_OW_yuk	1121.80	430.67	435.04		435.33	0.001843	2.42	532.05	561.88	0.46
Klondike River	Reach 1	46300	5_OW_klondike	632.40	430.65	434.02		434.22	0.001334	1.96	328.09	157.41	0.42
Klondike River	Reach 1	46300	5_OW_yukon	534.30	430.65	433.76		433.94	0.001356	1.88	288.11	149.23	0.42
Klondike River	Reach 1	46300	1_OW_klondike	795.70	430.65	434.40		434.63	0.001327	2.11	392.13	182.96	0.41
Klondike River	Reach 1	46300	1_OW_yukon	719.90	430.65	434.23		434.44	0.001328	2.04	362.31	169.50	0.41
Klondike River	Reach 1	46300	0p5_OW_klondike	866.90	430.65	434.55		434.79	0.001329	2.17	420.44	211.97	0.41
Klondike River	Reach 1	46300	0p5_OW_yukon	801.30	430.65	434.41		434.64	0.001327	2.11	394.29	183.95	0.41
Klondike River	Reach 1	46300	0p5-CC-LC_OW_klo	1213.70	430.65	435.07		435.35	0.001401	2.43	597.61	568.25	0.43
Klondike River	Reach 1	46300	0p5-CC-LC_OW_yuk	1121.80	430.65	434.97		435.24	0.001354	2.35	557.80	499.81	0.42
Klondike River	Reach 1	46250	5_OW_klondike	632.40	430.61	433.90		434.14	0.001658	2.19	296.15	146.83	0.46
Klondike River	Reach 1	46250	5_OW_yukon	534.30	430.61	433.64		433.86	0.001654	2.08	260.10	132.09	0.46
Klondike River	Reach 1	46250	1_OW_klondike	795.70	430.61	434.27		434.55	0.001648	2.37	355.94	203.30	0.46
Klondike River	Reach 1	46250	1_OW_yukon	719.90	430.61	434.10		434.37	0.001650	2.29	327.50	161.42	0.46
Klondike River	Reach 1	46250	0p5_OW_klondike	866.90	430.61	434.41		434.71	0.001641	2.43	389.80	276.53	0.46
Klondike River	Reach 1	46250	0p5_OW_yukon	801.30	430.61	434.28		434.56	0.001648	2.37	358.27	207.96	0.46
Klondike River	Reach 1	46250	0p5-CC-LC_OW_klo	1213.70	430.61	434.99		435.28	0.001472	2.56	617.52	636.29	0.44
Klondike River	Reach 1	46250	0p5-CC-LC_OW_yuk	1121.80	430.61	434.88		435.17	0.001474	2.51	565.84	530.57	0.44
Klondike River	Reach 1	46200	5_OW_klondike	632.40	430.41	433.73		434.04	0.001973	2.48	263.94	135.10	0.51
Klondike River	Reach 1	46200	5_OW_yukon	534.30	430.41	433.49		433.77	0.001977	2.34	232.93	122.70	0.50
Klondike River	Reach 1	46200	1_OW_klondike	795.70	430.41	434.08		434.45	0.002007	2.72	311.98	165.87	0.52
Klondike River	Reach 1	46200	1_OW_yukon	719.90	430.41	433.93		434.27	0.001985	2.61	289.61	144.44	0.51
Klondike River	Reach 1	46200	0p5_OW_klondike	866.90	430.41	434.21		434.61	0.002027	2.81	334.79	205.05	0.52
Klondike River	Reach 1	46200	0p5_OW_yukon	801.30	430.41	434.09		434.46	0.002009	2.72	313.65	167.12	0.52
Klondike River	Reach 1	46200	0p5-CC-LC_OW_klo	1213.70	430.41	434.82		435.20	0.001738	2.92	564.07	544.79	0.50
Klondike River	Reach 1	46200	0p5-CC-LC_OW_yuk	1121.80	430.41	434.69		435.09	0.001821	2.92	503.31	480.35	0.51
Klondike River	Reach 1	46150	5_OW_klondike	632.40	430.24	433.64		433.95	0.001786	2.46	268.62	129.31	0.47
Klondike River	Reach 1	46150	5_OW_yukon	534.30	430.24	433.41		433.67	0.001716	2.27	239.23	113.27	0.45
Klondike River	Reach 1	46150	1_OW_klondike	795.70	430.24	433.98		434.35	0.001902	2.73	315.80	169.56	0.49
Klondike River	Reach 1	46150	1_OW_yukon	719.90	430.24	433.83		434.17	0.001846	2.61	293.68	139.71	0.48
Klondike River	Reach 1	46150	0p5_OW_klondike	866.90	430.24	434.11		434.51	0.001945	2.84	339.82	208.26	0.50
Klondike River	Reach 1	46150	0p5_OW_yukon	801.30	430.24	433.99		434.37	0.001906	2.74	317.51	171.21	0.49
Klondike River	Reach 1	46150	0p5-CC-LC_OW_klo	1213.70	430.24	434.74		435.12	0.001660	2.95	586.70	567.63	0.48
Klondike River	Reach 1	46150	0p5-CC-LC_OW_yuk	1121.80	430.24	434.59	433.33	435.00	0.001782	2.98	515.47	504.19	0.49
Klondike River	Reach 1	46100	5_OW_klondike	632.40	430.02	433.51		433.85	0.001891	2.63	272.19	168.81	0.50
Klondike River	Reach 1	46100	5_OW_yukon	534.30	430.02	433.27		433.58	0.001851	2.46	235.10	150.81	0.49
Klondike River	Reach 1	46100	1_OW_klondike	795.70	430.02	433.86		434.26	0.001916	2.86	342.41	251.36	0.51
Klondike River	Reach 1	46100	1_OW_yukon	719.90	430.02	433.70		434.08	0.001909	2.76	308.08	207.88	0.51
Klondike River	Reach 1	46100	0p5_OW_klondike	866.90	430.02	434.00		434.42	0.001909	2.94	381.85	343.37	0.51
Klondike River	Reach 1	46100	0p5_OW_yukon	801.30	430.02	433.87		434.27	0.001917	2.87	345.11	255.75	0.51
Klondike River	Reach 1	46100	0p5-CC-LC_OW_klo	1213.70	430.02	434.68		435.05	0.001531	2.98	673.75	613.86	0.47
Klondike River	Reach 1	46100	0p5-CC-LC_OW_yuk	1121.80	430.02	434.53		434.91	0.001602	2.97	601.91	533.37	0.48
Klondike River	Reach 1	46050	5_OW_klondike	632.40	429.81	433.21		433.71	0.003476	3.18	218.36	155.25	0.66
Klondike River	Reach 1	46050	5_OW_yukon	534.30	429.81	432.99		433.44	0.003473	2.99	187.26	126.91	0.66
Klondike River	Reach 1	46050	1_OW_klondike	795.70	429.81	433.55		434.12	0.003351	3.40	275.21	176.69	0.66
Klondike River	Reach 1	46050	1_OW_yukon	719.90	429.81	433.40		433.94	0.003414	3.31	249.02	164.80	0.66
Klondike River	Reach 1	46050	0p5_OW_klondike	866.90	429.81	433.69	433.17	434.28	0.003288	3.47	300.30	198.65	0.66
Klondike River	Reach 1	46050	0p5_OW_yukon	801.30	429.81	433.56		434.13	0.003349	3.41	277.04	177.70	0.66
Klondike River	Reach 1	46050	0p5-CC-LC_OW_klo	1213.70	429.81	434.34	433.80	434.94	0.002792	3.64	506.66	509.40	0.62

HEC-RAS Plan: OW_AEP (Continued)

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Klondike River	Reach 1	46050	0p5-CC-LC_OW_yuk	1121.80	429.81	434.13	433.64	434.78	0.003213	3.75	420.76	405.79	0.66
Klondike River	Reach 1	46000	5_OW_klondike	632.40	429.73	432.98		433.53	0.003743	3.31	206.43	131.91	0.68
Klondike River	Reach 1	46000	5_OW_yukon	534.30	429.73	432.78		433.26	0.003571	3.07	182.29	117.77	0.66
Klondike River	Reach 1	46000	1_OW_klondike	795.70	429.73	433.25	432.84	433.93	0.004023	3.69	244.94	152.13	0.72
Klondike River	Reach 1	46000	1_OW_yukon	719.90	429.73	433.13	432.67	433.75	0.003894	3.52	227.26	139.33	0.71
Klondike River	Reach 1	46000	0p5_OW_klondike	866.90	429.73	433.36	432.98	434.08	0.004150	3.84	261.24	160.73	0.74
Klondike River	Reach 1	46000	0p5_OW_yukon	801.30	429.73	433.26	432.85	433.94	0.004037	3.70	246.11	152.83	0.72
Klondike River	Reach 1	46000	0p5-CC-LC_OW_klo	1213.70	429.73	433.79	433.71	434.73	0.004620	4.46	355.31	306.78	0.80
Klondike River	Reach 1	46000	0p5-CC-LC_OW_yuk	1121.80	429.73	433.69	433.52	434.58	0.004513	4.31	326.89	261.28	0.78
Klondike River	Reach 1	45950	5_OW_klondike	632.40	429.64	432.88		433.32	0.003375	2.94	217.41	135.16	0.70
Klondike River	Reach 1	45950	5_OW_yukon	534.30	429.64	432.66		433.07	0.003369	2.84	188.91	123.25	0.72
Klondike River	Reach 1	45950	1_OW_klondike	795.70	429.64	433.19		433.69	0.003455	3.14	263.85	161.22	0.69
Klondike River	Reach 1	45950	1_OW_yukon	719.90	429.64	433.05		433.52	0.003415	3.05	242.47	152.04	0.70
Klondike River	Reach 1	45950	0p5_OW_klondike	866.90	429.64	433.31		433.83	0.003495	3.22	283.95	177.03	0.69
Klondike River	Reach 1	45950	0p5_OW_yukon	801.30	429.64	433.20		433.70	0.003459	3.14	265.41	161.97	0.69
Klondike River	Reach 1	45950	0p5-CC-LC_OW_klo	1213.70	429.64	433.82	433.33	434.43	0.003567	3.54	410.68	334.98	0.69
Klondike River	Reach 1	45950	0p5-CC-LC_OW_yuk	1121.80	429.64	433.69	433.21	434.29	0.003583	3.48	372.57	291.40	0.69
Klondike River	Reach 1	45850	5_OW_klondike	632.40	429.47	432.68		433.00	0.002361	2.52	264.45	150.10	0.54
Klondike River	Reach 1	45850	5_OW_yukon	534.30	429.47	432.46		432.75	0.002383	2.38	232.32	141.78	0.54
Klondike River	Reach 1	45850	1_OW_klondike	795.70	429.47	432.98		433.36	0.002428	2.76	315.22	183.43	0.56
Klondike River	Reach 1	45850	1_OW_yukon	719.90	429.47	432.85		433.20	0.002388	2.65	291.78	169.64	0.55
Klondike River	Reach 1	45850	0p5_OW_klondike	866.90	429.47	433.10		433.51	0.002457	2.86	337.00	190.74	0.57
Klondike River	Reach 1	45850	0p5_OW_yukon	801.30	429.47	432.99		433.38	0.002430	2.77	316.95	183.81	0.56
Klondike River	Reach 1	45850	0p5-CC-LC_OW_klo	1213.70	429.47	433.58		434.10	0.002613	3.28	455.98	309.85	0.60
Klondike River	Reach 1	45850	0p5-CC-LC_OW_yuk	1121.80	429.47	433.47		433.96	0.002561	3.17	422.67	280.00	0.59
Klondike River	Reach 1	45750	5_OW_klondike	632.40	429.31	432.44		432.75	0.002584	2.46	261.34	139.00	0.54
Klondike River	Reach 1	45750	5_OW_yukon	534.30	429.31	432.22		432.50	0.002556	2.33	231.98	127.63	0.54
Klondike River	Reach 1	45750	1_OW_klondike	795.70	429.31	432.74		433.11	0.002636	2.71	304.91	157.54	0.56
Klondike River	Reach 1	45750	1_OW_yukon	719.90	429.31	432.61		432.95	0.002605	2.59	285.31	148.20	0.55
Klondike River	Reach 1	45750	0p5_OW_klondike	866.90	429.31	432.85		433.25	0.002674	2.81	322.95	167.23	0.57
Klondike River	Reach 1	45750	0p5_OW_yukon	801.30	429.31	432.75		433.12	0.002639	2.71	306.33	158.28	0.56
Klondike River	Reach 1	45750	0p5-CC-LC_OW_klo	1213.70	429.31	433.30		433.83	0.002897	3.26	429.40	314.64	0.61
Klondike River	Reach 1	45750	0p5-CC-LC_OW_yuk	1121.80	429.31	433.19		433.69	0.002846	3.16	398.41	279.12	0.60
Klondike River	Reach 1	45600	5_OW_klondike	632.40	429.06	432.12		432.41	0.001991	2.39	271.03	158.73	0.50
Klondike River	Reach 1	45600	5_OW_yukon	534.30	429.06	431.91		432.16	0.001928	2.22	241.72	121.68	0.48
Klondike River	Reach 1	45600	1_OW_klondike	795.70	429.06	432.39		432.75	0.002146	2.67	320.77	205.90	0.53
Klondike River	Reach 1	45600	1_OW_yukon	719.90	429.06	432.28		432.60	0.002064	2.54	297.93	180.00	0.51
Klondike River	Reach 1	45600	0p5_OW_klondike	866.90	429.06	432.49		432.88	0.002220	2.78	342.77	228.35	0.54
Klondike River	Reach 1	45600	0p5_OW_yukon	801.30	429.06	432.40		432.76	0.002152	2.67	322.47	207.26	0.53
Klondike River	Reach 1	45600	0p5-CC-LC_OW_klo	1213.70	429.06	432.91	432.09	433.42	0.002515	3.25	456.08	331.94	0.59
Klondike River	Reach 1	45600	0p5-CC-LC_OW_yuk	1121.80	429.06	432.81		433.29	0.002444	3.14	425.13	304.99	0.58
Klondike River	Reach 1	45400	5_OW_klondike	632.40	428.84	431.75		432.02	0.001866	2.34	306.63	270.19	0.48
Klondike River	Reach 1	45400	5_OW_yukon	534.30	428.84	431.55		431.79	0.001783	2.18	262.62	179.26	0.47
Klondike River	Reach 1	45400	1_OW_klondike	795.70	428.84	432.01		432.33	0.001990	2.59	385.78	338.34	0.51
Klondike River	Reach 1	45400	1_OW_yukon	719.90	428.84	431.89		432.20	0.001941	2.48	349.21	307.75	0.50
Klondike River	Reach 1	45400	0p5_OW_klondike	866.90	428.84	432.11		432.45	0.002018	2.67	421.39	359.28	0.51
Klondike River	Reach 1	45400	0p5_OW_yukon	801.30	428.84	432.01		432.34	0.001993	2.59	388.53	339.62	0.51
Klondike River	Reach 1	45400	0p5-CC-LC_OW_klo	1213.70	428.84	432.53		432.93	0.002137	3.02	593.47	480.55	0.54
Klondike River	Reach 1	45400	0p5-CC-LC_OW_yuk	1121.80	428.84	432.43		432.82	0.002081	2.92	549.49	443.30	0.53
Klondike River	Reach 1	45200	5_OW_klondike	632.40	428.38	431.16	430.60	431.54	0.003083	2.78	282.74	293.46	0.61
Klondike River	Reach 1	45200	5_OW_yukon	534.30	428.38	430.97		431.31	0.003124	2.63	232.36	232.57	0.60
Klondike River	Reach 1	45200	1_OW_klondike	795.70	428.38	431.43		431.84	0.003007	2.97	365.55	321.25	0.61
Klondike River	Reach 1	45200	1_OW_yukon	719.90	428.38	431.31	430.79	431.71	0.003030	2.89	329.13	312.79	0.61
Klondike River	Reach 1	45200	0p5_OW_klondike	866.90	428.38	431.53	431.11	431.95	0.002991	3.05	399.46	345.44	0.62
Klondike River	Reach 1	45200	0p5_OW_yukon	801.30	428.38	431.44		431.85	0.003006	2.98	368.11	322.75	0.61
Klondike River	Reach 1	45200	0p5-CC-LC_OW_klo	1213.70	428.38	431.93	431.59	432.42	0.003059	3.40	566.43	466.83	0.64
Klondike River	Reach 1	45200	0p5-CC-LC_OW_yuk	1121.80	428.38	431.83	431.50	432.31	0.003050	3.32	522.90	441.63	0.63
Klondike River	Reach 1	44985	5_OW_klondike	632.40	426.86	430.74		431.01	0.001819	2.38	338.23	330.64	0.48
Klondike River	Reach 1	44985	5_OW_yukon	534.30	426.86	430.54		430.78	0.001810	2.24	280.35	257.22	0.47
Klondike River	Reach 1	44985	1_OW_klondike	795.70	426.86	431.02		431.31	0.001803	2.54	446.44	427.27	0.48
Klondike River	Reach 1	44985	1_OW_yukon	719.90	426.86	430.89		431.18	0.001823	2.48	394.92	386.32	0.48
Klondike River	Reach 1	44985	0p5_OW_klondike	866.90	426.86	431.13		431.43	0.001803	2.60	493.57	450.58	0.49
Klondike River	Reach 1	44985	0p5_OW_yukon	801.30	426.86	431.03		431.32	0.001803	2.54	449.96	429.32	0.49
Klondike River	Reach 1	44985	0p5-CC-LC_OW_klo	1213.70	426.86	431.53		431.87	0.001866	2.89	694.55	537.98	0.51
Klondike River	Reach 1	44985	0p5-CC-LC_OW_yuk	1121.80	426.86	431.44		431.77	0.001843	2.82	644.75	518.29	0.50
Klondike River	Reach 1	43733	5_OW_klondike	632.40	424.63	427.68		427.97	0.003306	2.55	295.54	290.08	0.61
Klondike River	Reach 1	43733	5_OW_yukon	534.30	424.63	427.54		427.80	0.003211	2.39	257.52	253.01	0.60
Klondike River	Reach 1	43733	1_OW_klondike	795.70	424.63	427.87		428.22	0.003486	2.80	356.44	333.01	0.64
Klondike River	Reach 1	43733	1_OW_yukon	719.90	424.63	427.79		428.11	0.003383	2.68	329.73	312.45	0.63
Klondike River	Reach 1	43733	0p5_OW_klondike	866.90	424.63	427.95		428.32	0.003533	2.89	383.61	354.70	0.65
Klondike River	Reach 1	43733	0p5_OW_yukon	801.30	424.63	427.88		428.23	0.003486	2.80	358.78	334.88	0.64
Klondike River	Reach 1	43733	0p5-CC-LC_OW_klo	1213.70	424.63	428.30	428.01	428.71	0.003464	3.16	529.32	483.78	0.65
Klondike River	Reach 1	43733	0p5-CC-LC_OW_yuk	1121.80	424.63	428.22	427.90	428.62	0.003489	3.10	490.32	457.75	0.65
Klondike River	Reach 1	42697	5_OW_klondike	632.40	421.83	425.52	425.12	425.64	0.001774	1.95	546.57	607.80	0.45
Klondike River	Reach 1	42697	5_OW_yukon	534.30	421.83	425.40	425.02	425.52	0.001723	1.85	480.37	575.83	0.44
Klondike River	Reach 1	42697	1_OW_klondike	795.70	421.83	425.68		425.82	0.001809	2.08	649.65	621.93	0.46
Klondike River	Reach 1	42697	1_OW_yukon	719.90	421.83	425.61	425.21	425.74	0.001808	2.03	602.27	617.26	0.46
Klondike River	Reach 1	42697	0p5_OW_klondike	866.90	421.83	425.75		425.89	0.001837	2.14	688.69	633.82	0.47
Klondike River	Reach 1	42697	0p5_OW_yukon	801.30	421.83	425.69		425.83	0.001814	2.09	652.36	622.11	0.46
Klondike River	Reach 1	42697	0p5-CC-LC_OW_klo	1213.70	421.83	426.00		426.18	0.002055	2.44	855.60	692.92	0.50

HEC-RAS Plan: OW_AEP (Continued)

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Klondike River	Reach 1	42697	0p5-CC-LC_OW_yuk	1121.80	421.83	425.94		426.11	0.002004	2.37	814.42	684.45	0.49
Klondike River	Reach 1	41323	5_OW_klondike	632.40	419.47	422.15		422.33	0.003471	1.96	374.06	486.82	0.59
Klondike River	Reach 1	41323	5_OW_yukon	534.30	419.47	421.98		422.18	0.003700	1.99	299.35	428.05	0.61
Klondike River	Reach 1	41323	1_OW_klondike	795.70	419.47	422.42		422.56	0.003284	1.77	529.76	712.40	0.57
Klondike River	Reach 1	41323	1_OW_yukon	719.90	419.47	422.29		422.46	0.003335	1.89	447.72	564.58	0.57
Klondike River	Reach 1	41323	0p5_OW_klondike	866.90	419.47	422.51		422.64	0.003183	1.71	598.98	800.39	0.57
Klondike River	Reach 1	41323	0p5_OW_yukon	801.30	419.47	422.43		422.57	0.003276	1.77	534.49	717.39	0.57
Klondike River	Reach 1	41323	0p5-CC-LC_OW_klo	1213.70	419.47	422.81		422.93	0.002745	1.59	890.52	1086.89	0.54
Klondike River	Reach 1	41323	0p5-CC-LC_OW_yuk	1121.80	419.47	422.74		422.86	0.002831	1.61	815.32	1035.82	0.56
Klondike River	Reach 1	40285	5_OW_klondike	632.40	416.85	420.05		420.12	0.001353	1.71	654.13	690.68	0.39
Klondike River	Reach 1	40285	5_OW_yukon	534.30	416.85	419.94		420.01	0.001269	1.60	582.27	669.33	0.38
Klondike River	Reach 1	40285	1_OW_klondike	795.70	416.85	420.21		420.29	0.001472	1.88	764.66	741.80	0.41
Klondike River	Reach 1	40285	1_OW_yukon	719.90	416.85	420.14		420.22	0.001420	1.81	715.55	714.35	0.40
Klondike River	Reach 1	40285	0p5_OW_klondike	866.90	416.85	420.26		420.35	0.001524	1.95	807.86	764.79	0.42
Klondike River	Reach 1	40285	0p5_OW_yukon	801.30	416.85	420.21		420.30	0.001475	1.88	768.28	743.68	0.41
Klondike River	Reach 1	40285	0p5-CC-LC_OW_klo	1213.70	416.85	420.51		420.62	0.001724	2.23	1011.67	864.96	0.46
Klondike River	Reach 1	40285	0p5-CC-LC_OW_yuk	1121.80	416.85	420.45		420.56	0.001679	2.16	959.65	840.66	0.45
Klondike River	Reach 1	39051	5_OW_klondike	632.40	414.48	417.85		417.91	0.003967	1.27	648.74	1040.73	0.39
Klondike River	Reach 1	39051	5_OW_yukon	534.30	414.48	417.75		417.81	0.004271	1.24	549.64	972.44	0.40
Klondike River	Reach 1	39051	1_OW_klondike	795.70	414.48	417.99		418.06	0.003648	1.32	797.98	1113.30	0.38
Klondike River	Reach 1	39051	1_OW_yukon	719.90	414.48	417.93		417.99	0.003776	1.30	731.54	1077.13	0.38
Klondike River	Reach 1	39051	0p5_OW_klondike	866.90	414.48	418.05		418.12	0.003512	1.34	858.66	1142.12	0.37
Klondike River	Reach 1	39051	0p5_OW_yukon	801.30	414.48	418.00		418.06	0.003641	1.32	802.52	1115.85	0.38
Klondike River	Reach 1	39051	0p5-CC-LC_OW_klo	1213.70	414.48	418.30		418.37	0.003093	1.41	1128.85	1233.44	0.36
Klondike River	Reach 1	39051	0p5-CC-LC_OW_yuk	1121.80	414.48	418.24		418.31	0.003182	1.39	1060.05	1202.97	0.37
Klondike River	Reach 1	38622	5_OW_klondike	632.40	413.89	417.24		417.27	0.000910	0.89	990.74	1431.55	0.25
Klondike River	Reach 1	38622	5_OW_yukon	534.30	413.89	417.13		417.16	0.000877	0.84	865.61	1355.48	0.25
Klondike River	Reach 1	38622	1_OW_klondike	795.70	413.89	417.40		417.44	0.000927	0.93	1194.70	1497.44	0.25
Klondike River	Reach 1	38622	1_OW_yukon	719.90	413.89	417.32		417.36	0.000931	0.92	1098.00	1470.56	0.25
Klondike River	Reach 1	38622	0p5_OW_klondike	866.90	413.89	417.46		417.50	0.000946	0.96	1270.62	1519.50	0.25
Klondike River	Reach 1	38622	0p5_OW_yukon	801.30	413.89	417.41		417.44	0.000929	0.94	1200.76	1499.17	0.25
Klondike River	Reach 1	38622	0p5-CC-LC_OW_klo	1213.70	413.89	417.72		417.76	0.001023	1.07	1611.66	1574.34	0.26
Klondike River	Reach 1	38622	0p5-CC-LC_OW_yuk	1121.80	413.89	417.66		417.70	0.001001	1.04	1526.74	1569.35	0.26
Klondike River	Reach 1	38155	5_OW_klondike	632.40	413.94	416.71		416.85	0.001779	2.15	708.68	1104.18	0.46
Klondike River	Reach 1	38155	5_OW_yukon	534.30	413.94	416.54		416.70	0.002084	2.21	560.97	905.48	0.49
Klondike River	Reach 1	38155	1_OW_klondike	795.70	413.94	416.94		417.06	0.001545	2.14	950.03	1342.75	0.44
Klondike River	Reach 1	38155	1_OW_yukon	719.90	413.94	416.83		416.96	0.001671	2.16	826.54	1264.88	0.45
Klondike River	Reach 1	38155	0p5_OW_klondike	866.90	413.94	417.01		417.12	0.001542	2.18	1024.03	1376.35	0.44
Klondike River	Reach 1	38155	0p5_OW_yukon	801.30	413.94	416.95		417.06	0.001540	2.14	957.28	1348.67	0.44
Klondike River	Reach 1	38155	0p5-CC-LC_OW_klo	1213.70	413.94	417.29		417.40	0.001501	2.31	1364.47	1456.26	0.44
Klondike River	Reach 1	38155	0p5-CC-LC_OW_yuk	1121.80	413.94	417.23		417.34	0.001486	2.26	1286.82	1445.31	0.44
Klondike River	Reach 1	37333	5_OW_klondike	632.40	411.14	414.52	414.18	414.99	0.003356	3.21	286.84	335.97	0.65
Klondike River	Reach 1	37333	5_OW_yukon	534.30	411.14	414.42	413.84	414.81	0.002840	2.88	257.41	284.91	0.59
Klondike River	Reach 1	37333	1_OW_klondike	795.70	411.14	414.70	414.54	415.27	0.003820	3.59	361.43	469.58	0.70
Klondike River	Reach 1	37333	1_OW_yukon	719.90	411.14	414.65	414.37	415.16	0.003420	3.36	340.15	440.83	0.66
Klondike River	Reach 1	37333	0p5_OW_klondike	866.90	411.14	414.81	414.81	415.37	0.003692	3.62	413.74	512.48	0.69
Klondike River	Reach 1	37333	0p5_OW_yukon	801.30	411.14	414.71	414.71	415.28	0.003831	3.60	364.20	471.68	0.70
Klondike River	Reach 1	37333	0p5-CC-LC_OW_klo	1213.70	411.14	415.19	415.19	415.74	0.003514	3.85	627.80	626.88	0.69
Klondike River	Reach 1	37333	0p5-CC-LC_OW_yuk	1121.80	411.14	415.09	415.09	415.65	0.003644	3.83	565.25	577.83	0.70
Klondike River	Reach 1	36316	5_OW_klondike	632.40	409.47	412.52		412.65	0.001908	2.14	674.16	988.82	0.47
Klondike River	Reach 1	36316	5_OW_yukon	534.30	409.47	412.39		412.53	0.002067	2.14	552.15	894.19	0.49
Klondike River	Reach 1	36316	1_OW_klondike	795.70	409.47	412.68	412.40	412.81	0.001932	2.26	829.70	1080.99	0.48
Klondike River	Reach 1	36316	1_OW_yukon	719.90	409.47	412.59	412.34	412.73	0.002051	2.27	736.07	1032.37	0.49
Klondike River	Reach 1	36316	0p5_OW_klondike	866.90	409.47	412.75	412.43	412.88	0.001878	2.28	907.46	1121.87	0.48
Klondike River	Reach 1	36316	0p5_OW_yukon	801.30	409.47	412.68	412.40	412.81	0.001924	2.26	836.44	1083.90	0.48
Klondike River	Reach 1	36316	0p5-CC-LC_OW_klo	1213.70	409.47	413.07	412.64	413.18	0.001606	2.30	1296.54	1300.16	0.45
Klondike River	Reach 1	36316	0p5-CC-LC_OW_yuk	1121.80	409.47	412.99	412.59	413.11	0.001648	2.28	1199.25	1267.50	0.46
Klondike River	Reach 1	34806	5_OW_klondike	632.40	406.69	409.32		409.56	0.002438	2.36	342.98	231.25	0.53
Klondike River	Reach 1	34806	5_OW_yukon	534.30	406.69	409.16		409.37	0.002323	2.20	307.55	217.39	0.51
Klondike River	Reach 1	34806	1_OW_klondike	795.70	406.69	409.74		409.99	0.002002	2.42	459.38	322.22	0.50
Klondike River	Reach 1	34806	1_OW_yukon	719.90	406.69	409.61		409.84	0.001977	2.32	419.77	286.42	0.49
Klondike River	Reach 1	34806	0p5_OW_klondike	866.90	406.69	409.86		410.13	0.001975	2.48	501.99	377.08	0.50
Klondike River	Reach 1	34806	0p5_OW_yukon	801.30	406.69	409.75		410.00	0.002002	2.43	462.30	325.45	0.50
Klondike River	Reach 1	34806	0p5-CC-LC_OW_klo	1213.70	406.69	410.32		410.64	0.002021	2.80	722.19	593.77	0.52
Klondike River	Reach 1	34806	0p5-CC-LC_OW_yuk	1121.80	406.69	410.22		410.53	0.002017	2.74	664.76	547.81	0.51
Klondike River	Reach 1	33067	5_OW_klondike	632.40	401.87	405.03	404.36	405.34	0.002471	2.48	300.43	517.54	0.54
Klondike River	Reach 1	33067	5_OW_yukon	534.30	401.87	404.81	404.20	405.10	0.002665	2.39	241.87	364.14	0.55
Klondike River	Reach 1	33067	1_OW_klondike	795.70	401.87	405.10	404.63	405.54	0.003452	2.99	321.74	570.07	0.65
Klondike River	Reach 1	33067	1_OW_yukon	719.90	401.87	404.99	404.49	405.40	0.003489	2.90	286.95	490.58	0.64
Klondike River	Reach 1	33067	0p5_OW_klondike	866.90	401.87	405.18	404.75	405.65	0.003551	3.11	348.00	621.79	0.66
Klondike River	Reach 1	33067	0p5_OW_yukon	801.30	401.87	405.11	404.64	405.55	0.003453	3.00	324.15	574.70	0.65
Klondike River	Reach 1	33067	0p5-CC-LC_OW_klo	1213.70	401.87	405.60	405.36	406.14	0.003489	3.45	525.65	898.17	0.67
Klondike River	Reach 1	33067	0p5-CC-LC_OW_yuk	1121.80	401.87	405.50	405.19	406.03	0.003489	3.37	478.68	828.72	0.67
Klondike River	Reach 1	32800	5_OW_klondike	632.40	401.32	404.36	403.56	404.70	0.002292	2.57	254.81	647.91	0.53
Klondike River	Reach 1	32800	5_OW_yukon	534.30	401.32	404.14	403.38	404.44	0.002276	2.41	225.10	539.89	0.52
Klondike River	Reach 1	32800	1_OW_klondike	795.70	401.32	404.63	403.81	404.84	0.001520	2.25	558.48	790.13	0.44
Klondike River	Reach 1	32800	1_OW_yukon	719.90	401.32	404.51	403.70	404.70	0.001517	2.18	504.62	729.67	0.44
Klondike River	Reach 1	32800	0p5_OW_klondike	866.90	401.32	404.62	403.93	404.87	0.001834	2.47	553.99	785.81	0.49
Klondike River	Reach 1	32800	0p5_OW_yukon	801.30	401.32	404.64	403.82	404.85	0.001523	2.26	561.69	793.17	0.44
Klondike River	Reach 1	32800	0p5-CC-LC_OW_klo	1213.70	401.32	404.93	404.48	405.27	0.002256	2.95	721.88	1064.50	0.55

HEC-RAS Plan: OW_AEP (Continued)

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Klondike River	Reach 1	32800	0p5-CC-LC_OW_yuk	1121.80	401.32	404.85	404.34	405.17	0.002197	2.86	666.63	955.93	0.54
Klondike River	Reach 1	32550	5_OW_klondike	632.40	400.66	403.11	403.02	403.77	0.006444	3.62	185.40	380.07	0.87
Klondike River	Reach 1	32550	5_OW_yukon	534.30	400.66	402.97	402.84	403.53	0.006095	3.35	165.77	294.33	0.84
Klondike River	Reach 1	32550	1_OW_klondike	795.70	400.66	403.37	403.37	404.10	0.006242	3.86	229.20	596.02	0.87
Klondike River	Reach 1	32550	1_OW_yukon	719.90	400.66	403.23	403.23	403.95	0.006670	3.82	203.74	464.54	0.89
Klondike River	Reach 1	32550	0p5_OW_klondike	866.90	400.66	403.72	403.72	404.21	0.003728	3.30	388.62	762.69	0.69
Klondike River	Reach 1	32550	0p5_OW_yukon	801.30	400.66	403.38	403.38	404.11	0.006166	3.86	232.01	606.81	0.86
Klondike River	Reach 1	32550	0p5-CC-LC_OW_klo	1213.70	400.66	404.04	404.04	404.53	0.003650	3.54	594.62	791.09	0.69
Klondike River	Reach 1	32550	0p5-CC-LC_OW_yuk	1121.80	400.66	403.97	403.97	404.46	0.003599	3.46	550.48	784.35	0.68
Klondike River	Reach 1	32400	5_OW_klondike	632.40	400.20	402.96	402.21	403.14	0.001846	2.23	361.98	248.58	0.47
Klondike River	Reach 1	32400	5_OW_yukon	534.30	400.20	402.79	402.09	402.95	0.001772	2.08	325.43	213.52	0.46
Klondike River	Reach 1	32400	1_OW_klondike	795.70	400.20	403.19	402.38	403.41	0.001996	2.47	421.29	309.95	0.50
Klondike River	Reach 1	32400	1_OW_yukon	719.90	400.20	403.09	402.31	403.29	0.001923	2.36	394.02	281.77	0.49
Klondike River	Reach 1	32400	0p5_OW_klondike	866.90	400.20	403.27	402.47	403.51	0.002059	2.57	447.89	358.92	0.51
Klondike River	Reach 1	32400	0p5_OW_yukon	801.30	400.20	403.19	402.41	403.42	0.002002	2.48	423.23	312.55	0.50
Klondike River	Reach 1	32400	0p5-CC-LC_OW_klo	1213.70	400.20	403.63	402.84	403.92	0.002301	2.96	611.62	621.63	0.55
Klondike River	Reach 1	32400	0p5-CC-LC_OW_yuk	1121.80	400.20	403.55	402.75	403.83	0.002256	2.87	565.92	574.06	0.54
Klondike River	Reach 1	32250	5_OW_klondike	632.40	399.61	402.47	402.06	402.77	0.003485	2.70	296.39	297.00	0.62
Klondike River	Reach 1	32250	5_OW_yukon	534.30	399.61	402.31	401.91	402.59	0.003482	2.56	255.11	246.26	0.61
Klondike River	Reach 1	32250	1_OW_klondike	795.70	399.61	402.69	402.31	403.02	0.003493	2.90	371.84	414.67	0.63
Klondike River	Reach 1	32250	1_OW_yukon	719.90	399.61	402.59	402.19	402.91	0.003496	2.81	334.76	365.82	0.63
Klondike River	Reach 1	32250	0p5_OW_klondike	866.90	399.61	402.78	402.41	403.11	0.003505	2.98	406.97	443.32	0.64
Klondike River	Reach 1	32250	0p5_OW_yukon	801.30	399.61	402.70	402.32	403.02	0.003504	2.91	373.97	416.17	0.63
Klondike River	Reach 1	32250	0p5-CC-LC_OW_klo	1213.70	399.61	403.12	402.83	403.50	0.003578	3.31	568.62	558.73	0.66
Klondike River	Reach 1	32250	0p5-CC-LC_OW_yuk	1121.80	399.61	403.04	402.72	403.41	0.003539	3.23	528.95	541.42	0.65
Klondike River	Reach 1	32150	5_OW_klondike	632.40	399.22	402.23	401.71	402.44	0.002372	2.28	358.98	365.41	0.52
Klondike River	Reach 1	32150	5_OW_yukon	534.30	399.22	402.06	401.58	402.26	0.002475	2.19	302.21	288.62	0.53
Klondike River	Reach 1	32150	1_OW_klondike	795.70	399.22	402.47	401.90	402.69	0.002289	2.42	459.58	488.06	0.52
Klondike River	Reach 1	32150	1_OW_yukon	719.90	399.22	402.36	401.81	402.58	0.002321	2.36	411.11	429.67	0.52
Klondike River	Reach 1	32150	0p5_OW_klondike	866.90	399.22	402.56	401.99	402.79	0.002274	2.48	504.14	521.02	0.53
Klondike River	Reach 1	32150	0p5_OW_yukon	801.30	399.22	402.47	401.90	402.70	0.002304	2.43	461.36	489.20	0.53
Klondike River	Reach 1	32150	0p5-CC-LC_OW_klo	1213.70	399.22	402.89	402.39	403.16	0.002391	2.78	688.72	593.78	0.55
Klondike River	Reach 1	32150	0p5-CC-LC_OW_yuk	1121.80	399.22	402.81	402.30	403.07	0.002346	2.70	645.28	582.82	0.54
Klondike River	Reach 1	32000	5_OW_klondike	632.40	398.64	401.84	401.27	402.10	0.002189	2.59	362.74	341.96	0.52
Klondike River	Reach 1	32000	5_OW_yukon	534.30	398.64	401.63	401.10	401.89	0.002367	2.55	297.78	292.33	0.54
Klondike River	Reach 1	32000	1_OW_klondike	795.70	398.64	402.09	401.51	402.36	0.002162	2.74	469.78	568.69	0.53
Klondike River	Reach 1	32000	1_OW_yukon	719.90	398.64	401.97	401.45	402.24	0.002194	2.69	413.87	445.18	0.53
Klondike River	Reach 1	32000	0p5_OW_klondike	866.90	398.64	402.16	401.75	402.45	0.002239	2.84	514.49	632.67	0.54
Klondike River	Reach 1	32000	0p5_OW_yukon	801.30	398.64	402.08	401.54	402.36	0.002232	2.78	464.25	559.00	0.54
Klondike River	Reach 1	32000	0p5-CC-LC_OW_klo	1213.70	398.64	402.53	402.14	402.82	0.002193	3.05	779.16	791.75	0.55
Klondike River	Reach 1	32000	0p5-CC-LC_OW_yuk	1121.80	398.64	402.45	402.05	402.74	0.002186	3.00	717.68	782.91	0.54
Klondike River	Reach 1	31850	5_OW_klondike	632.40	398.07	401.01	400.88	401.58	0.005482	3.62	236.32	257.30	0.80
Klondike River	Reach 1	31850	5_OW_yukon	534.30	398.07	400.88	400.73	401.37	0.005024	3.34	205.51	217.00	0.76
Klondike River	Reach 1	31850	1_OW_klondike	795.70	398.07	401.25	401.25	401.84	0.005319	3.80	308.91	330.08	0.80
Klondike River	Reach 1	31850	1_OW_yukon	719.90	398.07	401.16	401.16	401.73	0.005260	3.69	278.55	311.83	0.80
Klondike River	Reach 1	31850	0p5_OW_klondike	866.90	398.07	401.38	401.38	401.94	0.004888	3.77	354.56	396.65	0.78
Klondike River	Reach 1	31850	0p5_OW_yukon	801.30	398.07	401.30	401.30	401.85	0.004897	3.69	325.67	345.56	0.77
Klondike River	Reach 1	31850	0p5-CC-LC_OW_klo	1213.70	398.07	401.78	401.78	402.33	0.004413	3.97	562.57	649.17	0.76
Klondike River	Reach 1	31850	0p5-CC-LC_OW_yuk	1121.80	398.07	401.68	401.68	402.24	0.004583	3.95	501.23	587.05	0.77
Klondike River	Reach 1	31700	5_OW_klondike	632.40	397.52	400.85	400.19	401.00	0.001641	1.91	432.34	446.26	0.44
Klondike River	Reach 1	31700	5_OW_yukon	534.30	397.52	400.71	399.92	400.85	0.001544	1.77	382.55	396.80	0.42
Klondike River	Reach 1	31700	1_OW_klondike	795.70	397.52	401.02	400.33	401.21	0.001843	2.14	510.76	534.57	0.47
Klondike River	Reach 1	31700	1_OW_yukon	719.90	397.52	400.95	400.24	401.12	0.001734	2.03	474.90	499.14	0.46
Klondike River	Reach 1	31700	0p5_OW_klondike	866.90	397.52	401.09	400.41	401.29	0.001933	2.23	542.57	561.91	0.49
Klondike River	Reach 1	31700	0p5_OW_yukon	801.30	397.52	401.03	400.33	401.22	0.001849	2.15	513.27	536.61	0.47
Klondike River	Reach 1	31700	0p5-CC-LC_OW_klo	1213.70	397.52	401.36	400.77	401.63	0.002248	2.60	700.94	708.11	0.53
Klondike River	Reach 1	31700	0p5-CC-LC_OW_yuk	1121.80	397.52	401.30	400.69	401.54	0.002177	2.52	659.32	669.63	0.52
Klondike River	Reach 1	31597	5_OW_klondike	632.40	397.42	400.68	400.05	400.79	0.001899	1.64	497.27	483.81	0.44
Klondike River	Reach 1	31597	5_OW_yukon	534.30	397.42	400.54	399.95	400.64	0.001931	1.57	432.95	459.15	0.44
Klondike River	Reach 1	31597	1_OW_klondike	795.70	397.42	400.85	400.23	400.98	0.001927	1.78	583.53	510.95	0.45
Klondike River	Reach 1	31597	1_OW_yukon	719.90	397.42	400.78	400.17	400.89	0.001891	1.71	546.37	500.18	0.45
Klondike River	Reach 1	31597	0p5_OW_klondike	866.90	397.42	400.91	400.31	401.05	0.001983	1.85	613.85	517.90	0.46
Klondike River	Reach 1	31597	0p5_OW_yukon	801.30	397.42	400.86	400.24	400.98	0.001931	1.79	585.94	511.39	0.46
Klondike River	Reach 1	31597	0p5-CC-LC_OW_klo	1213.70	397.42	401.17	400.56	401.34	0.002229	2.16	753.35	611.24	0.50
Klondike River	Reach 1	31597	0p5-CC-LC_OW_yuk	1121.80	397.42	401.11	400.50	401.27	0.002156	2.08	718.50	575.65	0.49
Klondike River	Reach 1	31500	5_OW_klondike	632.40	397.14	400.53	399.87	400.62	0.002130	1.57	504.73	559.22	0.46
Klondike River	Reach 1	31500	5_OW_yukon	534.30	397.14	400.39	399.76	400.48	0.002010	1.55	431.10	486.72	0.45
Klondike River	Reach 1	31500	1_OW_klondike	795.70	397.14	400.70	400.05	400.81	0.002308	1.68	606.40	617.04	0.48
Klondike River	Reach 1	31500	1_OW_yukon	719.90	397.14	400.63	399.97	400.73	0.002242	1.62	562.18	599.46	0.47
Klondike River	Reach 1	31500	0p5_OW_klondike	866.90	397.14	400.76	400.13	400.87	0.002358	1.73	642.49	634.19	0.49
Klondike River	Reach 1	31500	0p5_OW_yukon	801.30	397.14	400.70	400.05	400.81	0.002312	1.68	609.22	618.00	0.48
Klondike River	Reach 1	31500	0p5-CC-LC_OW_klo	1213.70	397.14	401.00	400.48	401.14	0.002636	1.93	811.96	725.40	0.52
Klondike River	Reach 1	31500	0p5-CC-LC_OW_yuk	1121.80	397.14	400.94	400.38	401.08	0.002604	1.87	769.90	713.16	0.52
Klondike River	Reach 1	31400	5_OW_klondike	632.40	397.10	400.29	399.78	400.39	0.003231	1.64	501.52	673.43	0.53
Klondike River	Reach 1	31400	5_OW_yukon	534.30	397.10	400.14	399.67	400.26	0.003024	1.73	411.80	563.28	0.52
Klondike River	Reach 1	31400	1_OW_klondike	795.70	397.10	400.46	399.96	400.57	0.003154	1.68	622.54	735.93	0.53
Klondike River	Reach 1	31400	1_OW_yukon	719.90	397.10	400.39	399.87	400.49	0.003166	1.63	571.96	722.16	0.53
Klondike River	Reach 1	31400	0p5_OW_klondike	866.90	397.10	400.52	400.06	400.63	0.003147	1.72	663.67	745.19	0.53
Klondike River	Reach 1	31400	0p5_OW_yukon	801.30	397.10	400.47	399.96	400.57	0.003153	1.68	625.78	736.52	0.53
Klondike River	Reach 1	31400	0p5-CC-LC_OW_klo	1213.70	397.10	400.75	400.30	400.89	0.003196	1.93	841.37	804.41	0.55

HEC-RAS Plan: OW_AEP (Continued)

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Klondike River	Reach 1	31400	0p5-CC-LC_OW_yuk	1121.80	397.10	400.69	400.27	400.82	0.003180	1.87	797.08	791.22	0.55
Klondike River	Reach 1	31350	5_OW_klondike	632.40	397.08	400.17	399.59	400.27	0.002709	1.59	512.01	662.68	0.50
Klondike River	Reach 1	31350	5_OW_yukon	534.30	397.08	400.04	399.50	400.14	0.002622	1.61	429.01	586.71	0.50
Klondike River	Reach 1	31350	1_OW_klondike	795.70	397.08	400.35	399.72	400.44	0.002883	1.58	635.35	765.58	0.51
Klondike River	Reach 1	31350	1_OW_yukon	719.90	397.08	400.28	399.64	400.37	0.002817	1.56	582.90	727.55	0.51
Klondike River	Reach 1	31350	0p5_OW_klondike	866.90	397.08	400.40	399.87	400.50	0.002896	1.61	678.72	780.10	0.52
Klondike River	Reach 1	31350	0p5_OW_yukon	801.30	397.08	400.35	399.74	400.45	0.002882	1.58	638.80	766.60	0.51
Klondike River	Reach 1	31350	0p5-CC-LC_OW_klo	1213.70	397.08	400.64	400.18	400.76	0.002887	1.83	862.54	826.38	0.53
Klondike River	Reach 1	31350	0p5-CC-LC_OW_yuk	1121.80	397.08	400.58	400.09	400.70	0.002882	1.77	816.98	811.90	0.53
Klondike River	Reach 1	31300	5_OW_klondike	632.40	397.06	400.01	399.61	400.13	0.003774	1.75	467.42	653.91	0.58
Klondike River	Reach 1	31300	5_OW_yukon	534.30	397.06	399.87	399.50	400.00	0.003815	1.84	380.40	549.51	0.59
Klondike River	Reach 1	31300	1_OW_klondike	795.70	397.06	400.19	399.77	400.30	0.003662	1.73	588.02	725.04	0.57
Klondike River	Reach 1	31300	1_OW_yukon	719.90	397.06	400.12	399.70	400.23	0.003721	1.72	537.28	702.69	0.58
Klondike River	Reach 1	31300	0p5_OW_klondike	866.90	397.06	400.25	399.87	400.36	0.003681	1.74	630.70	749.33	0.58
Klondike River	Reach 1	31300	0p5_OW_yukon	801.30	397.06	400.19	399.83	400.31	0.003671	1.73	591.56	727.69	0.58
Klondike River	Reach 1	31300	0p5-CC-LC_OW_klo	1213.70	397.06	400.48	400.08	400.62	0.003536	1.94	808.41	790.06	0.58
Klondike River	Reach 1	31300	0p5-CC-LC_OW_yuk	1121.80	397.06	400.43	400.02	400.56	0.003582	1.89	764.75	780.21	0.58
Klondike River	Reach 1	31250	5_OW_klondike	632.40	397.02	399.91	399.39	399.99	0.002712	1.48	550.03	686.80	0.48
Klondike River	Reach 1	31250	5_OW_yukon	534.30	397.02	399.76	399.27	399.85	0.002773	1.53	454.30	619.20	0.49
Klondike River	Reach 1	31250	1_OW_klondike	795.70	397.02	400.09	399.61	400.17	0.002687	1.45	682.45	767.35	0.48
Klondike River	Reach 1	31250	1_OW_yukon	719.90	397.02	400.02	399.50	400.10	0.002727	1.44	626.02	743.61	0.48
Klondike River	Reach 1	31250	0p5_OW_klondike	866.90	397.02	400.15	399.65	400.23	0.002640	1.48	728.08	776.29	0.47
Klondike River	Reach 1	31250	0p5_OW_yukon	801.30	397.02	400.10	399.62	400.18	0.002683	1.45	686.13	768.05	0.48
Klondike River	Reach 1	31250	0p5-CC-LC_OW_klo	1213.70	397.02	400.39	399.86	400.50	0.002539	1.68	918.56	807.47	0.48
Klondike River	Reach 1	31250	0p5-CC-LC_OW_yuk	1121.80	397.02	400.33	399.85	400.43	0.002558	1.63	871.40	798.10	0.48
Klondike River	Reach 1	31200	5_OW_klondike	632.40	396.96	399.75	399.23	399.86	0.002603	1.66	514.50	678.59	0.50
Klondike River	Reach 1	31200	5_OW_yukon	534.30	396.96	399.60	399.04	399.72	0.002439	1.72	418.93	585.99	0.49
Klondike River	Reach 1	31200	1_OW_klondike	795.70	396.96	399.94	399.49	400.04	0.002667	1.60	651.11	761.86	0.50
Klondike River	Reach 1	31200	1_OW_yukon	719.90	396.96	399.86	399.34	399.96	0.002709	1.61	591.49	735.57	0.50
Klondike River	Reach 1	31200	0p5_OW_klondike	866.90	396.96	400.00	399.56	400.10	0.002604	1.63	699.16	774.52	0.50
Klondike River	Reach 1	31200	0p5_OW_yukon	801.30	396.96	399.95	399.49	400.04	0.002663	1.60	655.00	762.88	0.50
Klondike River	Reach 1	31200	0p5-CC-LC_OW_klo	1213.70	396.96	400.26	399.81	400.37	0.002482	1.79	899.90	827.95	0.50
Klondike River	Reach 1	31200	0p5-CC-LC_OW_yuk	1121.80	396.96	400.20	399.77	400.31	0.002510	1.74	850.80	816.86	0.50
Klondike River	Reach 1	31150	5_OW_klondike	632.40	396.91	399.62	399.08	399.72	0.002429	1.58	515.55	675.39	0.48
Klondike River	Reach 1	31150	5_OW_yukon	534.30	396.91	399.48	398.97	399.59	0.002330	1.60	427.21	619.47	0.48
Klondike River	Reach 1	31150	1_OW_klondike	795.70	396.91	399.79	399.28	399.89	0.002434	1.58	639.02	727.42	0.48
Klondike River	Reach 1	31150	1_OW_yukon	719.90	396.91	399.72	399.17	399.81	0.002425	1.58	583.10	702.78	0.48
Klondike River	Reach 1	31150	0p5_OW_klondike	866.90	396.91	399.86	399.36	399.96	0.002422	1.60	686.56	747.34	0.48
Klondike River	Reach 1	31150	0p5_OW_yukon	801.30	396.91	399.80	399.28	399.90	0.002433	1.59	642.78	728.82	0.48
Klondike River	Reach 1	31150	0p5-CC-LC_OW_klo	1213.70	396.91	400.12	399.62	400.23	0.002322	1.76	883.04	794.46	0.49
Klondike River	Reach 1	31150	0p5-CC-LC_OW_yuk	1121.80	396.91	400.06	399.59	400.17	0.002344	1.71	835.23	785.74	0.49
Klondike River	Reach 1	31100	5_OW_klondike	632.40	396.77	399.27	399.05	399.43	0.004589	2.07	414.41	618.64	0.65
Klondike River	Reach 1	31100	5_OW_yukon	534.30	396.77	399.14	398.97	399.31	0.004968	2.07	343.17	564.53	0.67
Klondike River	Reach 1	31100	1_OW_klondike	795.70	396.77	399.45	399.18	399.60	0.004262	2.04	529.47	705.68	0.63
Klondike River	Reach 1	31100	1_OW_yukon	719.90	396.77	399.37	399.12	399.52	0.004379	2.05	477.45	663.32	0.64
Klondike River	Reach 1	31100	0p5_OW_klondike	866.90	396.77	399.51	399.23	399.67	0.004143	2.05	576.37	733.79	0.63
Klondike River	Reach 1	31100	0p5_OW_yukon	801.30	396.77	399.45	399.18	399.60	0.004252	2.04	533.20	708.40	0.63
Klondike River	Reach 1	31100	0p5-CC-LC_OW_klo	1213.70	396.77	399.81	399.43	399.96	0.003646	2.04	805.48	870.58	0.60
Klondike River	Reach 1	31100	0p5-CC-LC_OW_yuk	1121.80	396.77	399.74	399.40	399.88	0.003774	2.04	745.35	842.21	0.61
Klondike River	Reach 1	31050	5_OW_klondike	632.40	396.72	399.16	398.78	399.26	0.003157	1.60	501.86	659.78	0.53
Klondike River	Reach 1	31050	5_OW_yukon	534.30	396.72	399.03	398.60	399.13	0.003366	1.65	417.72	601.95	0.56
Klondike River	Reach 1	31050	1_OW_klondike	795.70	396.72	399.35	398.93	399.44	0.002859	1.60	625.93	709.87	0.51
Klondike River	Reach 1	31050	1_OW_yukon	719.90	396.72	399.27	398.89	399.36	0.002997	1.58	571.39	693.59	0.52
Klondike River	Reach 1	31050	0p5_OW_klondike	866.90	396.72	399.42	398.97	399.52	0.002758	1.63	674.09	727.64	0.51
Klondike River	Reach 1	31050	0p5_OW_yukon	801.30	396.72	399.36	398.93	399.45	0.002847	1.60	629.85	710.94	0.51
Klondike River	Reach 1	31050	0p5-CC-LC_OW_klo	1213.70	396.72	399.71	399.15	399.82	0.002537	1.74	897.25	847.00	0.50
Klondike River	Reach 1	31050	0p5-CC-LC_OW_yuk	1121.80	396.72	399.64	399.11	399.75	0.002594	1.71	838.20	817.82	0.50
Klondike River	Reach 1	31011	5_OW_klondike	632.40	396.63	398.98	398.40	399.09	0.002880	1.56	427.34	507.55	0.50
Klondike River	Reach 1	31011	5_OW_yukon	534.30	396.63	398.85	398.28	398.96	0.002888	1.49	368.41	435.16	0.49
Klondike River	Reach 1	31011	1_OW_klondike	795.70	396.63	399.16	398.62	399.29	0.002779	1.67	523.74	599.56	0.50
Klondike River	Reach 1	31011	1_OW_yukon	719.90	396.63	399.08	398.54	399.20	0.002808	1.62	480.16	550.46	0.50
Klondike River	Reach 1	31011	0p5_OW_klondike	866.90	396.63	399.23	398.68	399.36	0.002737	1.71	565.49	631.26	0.50
Klondike River	Reach 1	31011	0p5_OW_yukon	801.30	396.63	399.16	398.63	399.29	0.002773	1.67	527.22	602.25	0.50
Klondike River	Reach 1	31011	0p5-CC-LC_OW_klo	1213.70	396.63	399.52	398.93	399.68	0.002498	1.89	750.49	730.29	0.49
Klondike River	Reach 1	31011	0p5-CC-LC_OW_yuk	1121.80	396.63	399.45	398.87	399.60	0.002545	1.85	702.42	687.96	0.49
Klondike River	Reach 1	30950	5_OW_klondike	632.40	396.21	398.85	398.19	398.96	0.001989	1.55	445.61	451.64	0.45
Klondike River	Reach 1	30950	5_OW_yukon	534.30	396.21	398.73	398.07	398.83	0.001960	1.46	393.93	409.22	0.44
Klondike River	Reach 1	30950	1_OW_klondike	795.70	396.21	399.03	398.37	399.16	0.002115	1.67	529.53	536.90	0.46
Klondike River	Reach 1	30950	1_OW_yukon	719.90	396.21	398.95	398.29	399.07	0.002065	1.61	491.74	489.59	0.46
Klondike River	Reach 1	30950	0p5_OW_klondike	866.90	396.21	399.09	398.46	399.23	0.002157	1.72	566.19	577.59	0.47
Klondike River	Reach 1	30950	0p5_OW_yukon	801.30	396.21	399.03	398.39	399.16	0.002120	1.68	532.27	539.97	0.47
Klondike River	Reach 1	30950	0p5-CC-LC_OW_klo	1213.70	396.21	399.39	398.73	399.56	0.002088	1.93	760.93	814.38	0.48
Klondike River	Reach 1	30950	0p5-CC-LC_OW_yuk	1121.80	396.21	399.32	398.67	399.48	0.002112	1.88	705.91	762.87	0.48
Klondike River	Reach 1	30850	5_OW_klondike	632.40	395.91	398.69	398.03	398.79	0.001783	1.41	478.99	483.40	0.42
Klondike River	Reach 1	30850	5_OW_yukon	534.30	395.91	398.57	397.90	398.65	0.001845	1.33	421.17	442.18	0.42
Klondike River	Reach 1	30850	1_OW_klondike	795.70	395.91	398.87	398.20	398.98	0.001760	1.53	565.85	540.92	0.42
Klondike River	Reach 1	30850	1_OW_yukon	719.90	395.91	398.79	398.12	398.89	0.001754	1.47	527.77	513.68	0.42
Klondike River	Reach 1	30850	0p5_OW_klondike	866.90	395.91	398.94	398.26	399.05	0.001763	1.58	602.12	569.29	0.43
Klondike River	Reach 1	30850	0p5_OW_yukon	801.30	395.91	398.87	398.20	398.98	0.001760	1.54	568.70	543.89	0.42
Klondike River	Reach 1	30850	0p5-CC-LC_OW_klo	1213.70	395.91	399.24	398.50	399.38	0.001721	1.78	790.30	727.75	0.44

HEC-RAS Plan: OW_AEP (Continued)

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Klondike River	Reach 1	30850	0p5-CC-LC_OW_yuk	1121.80	395.91	399.16	398.44	399.30	0.001735	1.74	738.81	688.61	0.43
Klondike River	Reach 1	30750	5_OW_klondike	632.40	395.77	398.40	398.00	398.57	0.003528	1.96	359.65	441.16	0.58
Klondike River	Reach 1	30750	5_OW_yukon	534.30	395.77	398.25	397.84	398.42	0.003869	1.89	298.86	382.14	0.60
Klondike River	Reach 1	30750	1_OW_klondike	795.70	395.77	398.59	398.23	398.77	0.003315	2.08	447.25	491.86	0.58
Klondike River	Reach 1	30750	1_OW_yukon	719.90	395.77	398.50	398.09	398.68	0.003446	2.03	408.07	474.27	0.58
Klondike River	Reach 1	30750	0p5_OW_klondike	866.90	395.77	398.66	398.28	398.85	0.003213	2.12	483.40	520.02	0.57
Klondike River	Reach 1	30750	0p5_OW_yukon	801.30	395.77	398.59	398.23	398.77	0.003306	2.08	450.10	493.83	0.58
Klondike River	Reach 1	30750	0p5-CC-LC_OW_klo	1213.70	395.77	398.99	398.53	399.20	0.002747	2.26	670.59	615.77	0.55
Klondike River	Reach 1	30750	0p5-CC-LC_OW_yuk	1121.80	395.77	398.91	398.42	399.11	0.002875	2.24	620.46	594.09	0.56
Klondike River	Reach 1	30650	5_OW_klondike	632.40	395.40	398.17	397.60	398.34	0.002155	2.03	423.17	509.43	0.49
Klondike River	Reach 1	30650	5_OW_yukon	534.30	395.40	398.01	397.44	398.17	0.002251	1.94	347.73	422.49	0.49
Klondike River	Reach 1	30650	1_OW_klondike	795.70	395.40	398.38	397.78	398.56	0.002016	2.12	536.35	555.98	0.48
Klondike River	Reach 1	30650	1_OW_yukon	719.90	395.40	398.29	397.71	398.46	0.002088	2.08	484.31	540.91	0.49
Klondike River	Reach 1	30650	0p5_OW_klondike	866.90	395.40	398.47	397.88	398.64	0.001943	2.14	583.91	563.54	0.48
Klondike River	Reach 1	30650	0p5_OW_yukon	801.30	395.40	398.39	397.79	398.56	0.002010	2.12	540.14	556.34	0.48
Klondike River	Reach 1	30650	0p5-CC-LC_OW_klo	1213.70	395.40	398.85	398.30	399.02	0.001649	2.21	818.62	688.31	0.45
Klondike River	Reach 1	30650	0p5-CC-LC_OW_yuk	1121.80	395.40	398.76	398.11	398.93	0.001723	2.20	754.00	657.78	0.46
Klondike River	Reach 1	30396	5_OW_klondike	632.40	394.21	397.59	397.14	397.83	0.002306	2.56	404.17	406.79	0.53
Klondike River	Reach 1	30396	5_OW_yukon	534.30	394.21	397.41	396.96	397.64	0.002343	2.47	335.14	372.08	0.53
Klondike River	Reach 1	30396	1_OW_klondike	795.70	394.21	397.85	397.41	398.08	0.002170	2.65	512.00	426.15	0.52
Klondike River	Reach 1	30396	1_OW_yukon	719.90	394.21	397.73	397.29	397.97	0.002253	2.62	461.22	422.42	0.53
Klondike River	Reach 1	30396	0p5_OW_klondike	866.90	394.21	397.94	397.50	398.18	0.002148	2.69	552.82	428.15	0.52
Klondike River	Reach 1	30396	0p5_OW_yukon	801.30	394.21	397.86	397.41	398.09	0.002168	2.65	515.29	426.31	0.52
Klondike River	Reach 1	30396	0p5-CC-LC_OW_klo	1213.70	394.21	398.36	397.83	398.61	0.002070	2.89	733.08	441.76	0.52
Klondike River	Reach 1	30396	0p5-CC-LC_OW_yuk	1121.80	394.21	398.26	397.76	398.51	0.002086	2.84	687.82	435.33	0.52
Klondike River	Reach 1	30150	5_OW_klondike	632.40	393.70	396.76	396.49	397.16	0.003569	3.08	280.92	252.47	0.66
Klondike River	Reach 1	30150	5_OW_yukon	534.30	393.70	396.59	396.23	396.97	0.003581	2.93	239.82	235.15	0.65
Klondike River	Reach 1	30150	1_OW_klondike	795.70	393.70	397.01	396.78	397.45	0.003529	3.29	350.20	303.83	0.67
Klondike River	Reach 1	30150	1_OW_yukon	719.90	393.70	396.89	396.67	397.32	0.003527	3.19	317.40	276.70	0.66
Klondike River	Reach 1	30150	0p5_OW_klondike	866.90	393.70	397.11	396.87	397.56	0.003468	3.35	381.72	310.48	0.67
Klondike River	Reach 1	30150	0p5_OW_yukon	801.30	393.70	397.02	396.79	397.46	0.003524	3.30	352.70	304.46	0.67
Klondike River	Reach 1	30150	0p5-CC-LC_OW_klo	1213.70	393.70	397.54	397.26	398.03	0.003280	3.62	522.28	390.25	0.66
Klondike River	Reach 1	30150	0p5-CC-LC_OW_yuk	1121.80	393.70	397.44	397.18	397.91	0.003310	3.55	485.64	346.74	0.66
Klondike River	Reach 1	29887	5_OW_klondike	632.40	393.58	396.09	395.46	396.29	0.002357	2.04	327.50	219.06	0.50
Klondike River	Reach 1	29887	5_OW_yukon	534.30	393.58	395.88	395.34	396.07	0.002550	1.97	283.65	205.05	0.51
Klondike River	Reach 1	29887	1_OW_klondike	795.70	393.58	396.33	395.64	396.57	0.002347	2.22	381.37	222.85	0.51
Klondike River	Reach 1	29887	1_OW_yukon	719.90	393.58	396.23	395.56	396.44	0.002327	2.13	358.22	219.68	0.50
Klondike River	Reach 1	29887	0p5_OW_klondike	866.90	393.58	396.41	395.71	396.67	0.002424	2.32	399.32	234.70	0.52
Klondike River	Reach 1	29887	0p5_OW_yukon	801.30	393.58	396.34	395.64	396.58	0.002353	2.23	382.80	223.36	0.51
Klondike River	Reach 1	29887	0p5-CC-LC_OW_klo	1213.70	393.58	396.76	396.05	397.11	0.002707	2.73	499.36	408.50	0.57
Klondike River	Reach 1	29887	0p5-CC-LC_OW_yuk	1121.80	393.58	396.67	395.96	397.00	0.002650	2.63	467.90	340.90	0.56
Klondike River	Reach 1	29585	5_OW_klondike	632.40	392.36	395.09	394.59	395.37	0.004104	2.35	273.03	210.88	0.65
Klondike River	Reach 1	29585	5_OW_yukon	534.30	392.36	394.87	394.46	395.14	0.003779	2.33	231.80	170.35	0.63
Klondike River	Reach 1	29585	1_OW_klondike	795.70	392.36	395.37	394.81	395.66	0.004081	2.38	341.82	268.92	0.65
Klondike River	Reach 1	29585	1_OW_yukon	719.90	392.36	395.25	394.71	395.53	0.004143	2.36	310.26	242.85	0.65
Klondike River	Reach 1	29585	0p5_OW_klondike	866.90	392.36	395.46	394.89	395.76	0.003911	2.43	366.37	279.03	0.64
Klondike River	Reach 1	29585	0p5_OW_yukon	801.30	392.36	395.38	394.82	395.67	0.004068	2.38	343.71	269.55	0.65
Klondike River	Reach 1	29585	0p5-CC-LC_OW_klo	1213.70	392.36	395.86	395.37	396.21	0.003370	2.64	499.33	444.09	0.62
Klondike River	Reach 1	29585	0p5-CC-LC_OW_yuk	1121.80	392.36	395.77	395.29	396.10	0.003459	2.59	460.12	387.52	0.62
Klondike River	Reach 1	29234	5_OW_klondike	632.40	391.76	394.08	393.42	394.33	0.002254	2.22	315.24	212.68	0.51
Klondike River	Reach 1	29234	5_OW_yukon	534.30	391.76	393.90	393.28	394.11	0.002295	2.10	276.60	202.45	0.51
Klondike River	Reach 1	29234	1_OW_klondike	795.70	391.76	394.36	393.64	394.64	0.002207	2.41	377.67	233.27	0.52
Klondike River	Reach 1	29234	1_OW_yukon	719.90	391.76	394.24	393.53	394.50	0.002227	2.32	349.03	225.61	0.51
Klondike River	Reach 1	29234	0p5_OW_klondike	866.90	391.76	394.48	393.71	394.77	0.002182	2.48	405.64	255.69	0.52
Klondike River	Reach 1	29234	0p5_OW_yukon	801.30	391.76	394.37	393.64	394.65	0.002206	2.41	379.79	234.12	0.52
Klondike River	Reach 1	29234	0p5-CC-LC_OW_klo	1213.70	391.76	394.95	394.12	395.31	0.002112	2.76	581.19	494.72	0.53
Klondike River	Reach 1	29234	0p5-CC-LC_OW_yuk	1121.80	391.76	394.84	394.03	395.18	0.002129	2.69	529.04	444.14	0.52
Klondike River	Reach 1	28752	5_OW_klondike	632.40	389.58	392.77	392.21	393.06	0.003050	2.46	309.35	217.16	0.55
Klondike River	Reach 1	28752	5_OW_yukon	534.30	389.58	392.61	392.03	392.86	0.002943	2.29	275.41	199.72	0.53
Klondike River	Reach 1	28752	1_OW_klondike	795.70	389.58	393.01	392.44	393.35	0.003224	2.72	365.68	270.46	0.57
Klondike River	Reach 1	28752	1_OW_yukon	719.90	389.58	392.91	392.34	393.22	0.003137	2.60	339.62	236.27	0.56
Klondike River	Reach 1	28752	0p5_OW_klondike	866.90	389.58	393.10	392.49	393.46	0.003353	2.84	389.47	288.05	0.59
Klondike River	Reach 1	28752	0p5_OW_yukon	801.30	389.58	393.02	392.45	393.36	0.003231	2.73	367.71	273.67	0.58
Klondike River	Reach 1	28752	0p5-CC-LC_OW_klo	1213.70	389.58	393.42	392.95	393.91	0.003908	3.34	497.79	400.25	0.65
Klondike River	Reach 1	28752	0p5-CC-LC_OW_yuk	1121.80	389.58	393.34	392.80	393.81	0.003783	3.22	468.07	362.97	0.64
Klondike River	Reach 1	27904	5_OW_klondike	632.40	387.11	390.29		390.53	0.002942	2.46	332.13	347.84	0.58
Klondike River	Reach 1	27904	5_OW_yukon	534.30	387.11	390.14		390.36	0.002994	2.35	283.02	291.58	0.57
Klondike River	Reach 1	27904	1_OW_klondike	795.70	387.11	390.51		390.77	0.002891	2.63	411.51	391.58	0.58
Klondike River	Reach 1	27904	1_OW_yukon	719.90	387.11	390.41		390.67	0.002921	2.56	375.15	373.24	0.58
Klondike River	Reach 1	27904	0p5_OW_klondike	866.90	387.11	390.60		390.87	0.002813	2.67	449.46	425.40	0.58
Klondike River	Reach 1	27904	0p5_OW_yukon	801.30	387.11	390.51		390.78	0.002888	2.63	414.22	393.50	0.58
Klondike River	Reach 1	27904	0p5-CC-LC_OW_klo	1213.70	387.11	391.00		391.28	0.002470	2.80	655.77	616.30	0.56
Klondike River	Reach 1	27904	0p5-CC-LC_OW_yuk	1121.80	387.11	390.91		391.18	0.002538	2.77	598.14	561.43	0.56
Klondike River	Reach 1	27650	5_OW_klondike	632.40	386.21	389.40	388.88	389.69	0.002999	2.59	314.37	311.69	0.59
Klondike River	Reach 1	27650	5_OW_yukon	534.30	386.21	389.18	388.74	389.47	0.003324	2.55	253.46	260.04	0.61
Klondike River	Reach 1	27650	1_OW_klondike	795.70	386.21	389.74	389.19	390.00	0.002437	2.57	428.96	368.84	0.54
Klondike River	Reach 1	27650	1_OW_yukon	719.90	386.21	389.58	389.05	389.86	0.002688	2.59	374.12	335.10	0.56
Klondike River	Reach 1	27650	0p5_OW_klondike	866.90	386.21	389.88	389.28	390.13	0.002244	2.56	482.06	401.68	0.52
Klondike River	Reach 1	27650	0p5_OW_yukon	801.30	386.21	389.75	389.21	390.01	0.002420	2.57	433.08	371.67	0.54
Klondike River	Reach 1	27650	0p5-CC-LC_OW_klo	1213.70	386.21	390.45	389.70	390.68	0.001659	2.53	770.98	637.12	0.46

HEC-RAS Plan: OW_AEP (Continued)

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Klondike River	Reach 1	27650	0p5-CC-LC_OW_yuk	1121.80	386.21	390.32	389.62	390.55	0.001775	2.54	691.11	573.07	0.48
Klondike River	Reach 1	27359	5_OW_klondike	632.40	385.38	388.46	387.80	388.85	0.002850	2.76	234.99	121.41	0.59
Klondike River	Reach 1	27359	5_OW_yukon	534.30	385.38	388.22	387.63	388.57	0.002979	2.62	206.77	115.30	0.59
Klondike River	Reach 1	27359	1_OW_klondike	795.70	385.38	388.82	388.05	389.26	0.002725	2.98	280.59	147.82	0.59
Klondike River	Reach 1	27359	1_OW_yukon	719.90	385.38	388.66	387.95	389.08	0.002771	2.88	259.40	126.32	0.59
Klondike River	Reach 1	27359	0p5_OW_klondike	866.90	385.38	388.96	388.19	389.43	0.002691	3.06	304.31	186.55	0.59
Klondike River	Reach 1	27359	0p5_OW_yukon	801.30	385.38	388.83	388.08	389.28	0.002720	2.98	282.35	152.23	0.59
Klondike River	Reach 1	27359	0p5-CC-LC_OW_klo	1213.70	385.38	389.50	388.70	390.08	0.002684	3.45	440.46	340.29	0.61
Klondike River	Reach 1	27359	0p5-CC-LC_OW_yuk	1121.80	385.38	389.38	388.57	389.93	0.002644	3.34	403.69	288.50	0.60
Klondike River	Reach 1	27150	5_OW_klondike	632.40	383.59	387.83	387.07	388.26	0.002679	2.94	222.32	106.91	0.58
Klondike River	Reach 1	27150	5_OW_yukon	534.30	383.59	387.62	386.85	387.99	0.002552	2.71	201.11	96.50	0.56
Klondike River	Reach 1	27150	1_OW_klondike	795.70	383.59	388.14	387.37	388.68	0.002826	3.26	263.43	148.65	0.61
Klondike River	Reach 1	27150	1_OW_yukon	719.90	383.59	388.00	387.23	388.49	0.002768	3.12	243.05	138.09	0.60
Klondike River	Reach 1	27150	0p5_OW_klondike	866.90	383.59	388.27	387.50	388.84	0.002863	3.38	283.25	162.26	0.62
Klondike River	Reach 1	27150	0p5_OW_yukon	801.30	383.59	388.15	387.39	388.69	0.002830	3.27	264.95	149.50	0.61
Klondike River	Reach 1	27150	0p5-CC-LC_OW_klo	1213.70	383.59	388.86	388.19	389.50	0.002722	3.71	441.80	464.48	0.62
Klondike River	Reach 1	27150	0p5-CC-LC_OW_yuk	1121.80	383.59	388.70	387.98	389.35	0.002840	3.67	381.00	332.34	0.63
Klondike River	Reach 1	26869	5_OW_klondike	632.40	383.32	386.81	386.43	387.31	0.004285	3.18	213.13	125.47	0.71
Klondike River	Reach 1	26869	5_OW_yukon	534.30	383.32	386.61	386.26	387.06	0.004408	3.01	188.38	115.78	0.71
Klondike River	Reach 1	26869	1_OW_klondike	795.70	383.32	387.10	386.70	387.69	0.004307	3.48	252.61	158.43	0.73
Klondike River	Reach 1	26869	1_OW_yukon	719.90	383.32	386.97	386.57	387.52	0.004270	3.34	234.17	138.95	0.72
Klondike River	Reach 1	26869	0p5_OW_klondike	866.90	383.32	387.20	386.82	387.84	0.004398	3.62	269.34	172.08	0.74
Klondike River	Reach 1	26869	0p5_OW_yukon	801.30	383.32	387.11	386.71	387.70	0.004314	3.49	253.93	159.87	0.73
Klondike River	Reach 1	26869	0p5-CC-LC_OW_klo	1213.70	383.32	387.57	387.37	388.45	0.005106	4.28	357.65	344.71	0.82
Klondike River	Reach 1	26869	0p5-CC-LC_OW_yuk	1121.80	383.32	387.49	387.24	388.30	0.004840	4.09	332.98	292.70	0.79
Klondike River	Reach 1	26650	5_OW_klondike	632.40	382.27	386.39	385.35	386.70	0.001724	2.51	289.75	197.46	0.48
Klondike River	Reach 1	26650	5_OW_yukon	534.30	382.27	386.21	385.15	386.47	0.001565	2.29	257.83	156.74	0.45
Klondike River	Reach 1	26650	1_OW_klondike	795.70	382.27	386.65	385.66	387.03	0.001978	2.85	349.82	293.63	0.52
Klondike River	Reach 1	26650	1_OW_yukon	719.90	382.27	386.54	385.52	386.89	0.001855	2.69	321.37	246.88	0.50
Klondike River	Reach 1	26650	0p5_OW_klondike	866.90	382.27	386.74	385.79	387.16	0.002067	2.97	378.90	341.62	0.53
Klondike River	Reach 1	26650	0p5_OW_yukon	801.30	382.27	386.65	385.67	387.04	0.001986	2.86	351.99	297.45	0.52
Klondike River	Reach 1	26650	0p5-CC-LC_OW_klo	1213.70	382.27	387.12	386.37	387.65	0.002390	3.45	530.80	481.34	0.58
Klondike River	Reach 1	26650	0p5-CC-LC_OW_yuk	1121.80	382.27	387.03	386.25	387.54	0.002329	3.34	490.74	455.64	0.57
Klondike River	Reach 1	26500	5_OW_klondike	632.40	382.41	386.14	385.17	386.44	0.001827	2.49	312.79	272.06	0.49
Klondike River	Reach 1	26500	5_OW_yukon	534.30	382.41	385.98	384.98	386.23	0.001617	2.25	277.39	200.91	0.45
Klondike River	Reach 1	26500	1_OW_klondike	795.70	382.41	386.35	385.46	386.73	0.002147	2.84	379.00	387.88	0.53
Klondike River	Reach 1	26500	1_OW_yukon	719.90	382.41	386.26	385.33	386.61	0.002023	2.70	347.56	341.52	0.51
Klondike River	Reach 1	26500	0p5_OW_klondike	866.90	382.41	386.43	385.58	386.84	0.002254	2.96	408.82	422.96	0.55
Klondike River	Reach 1	26500	0p5_OW_yukon	801.30	382.41	386.36	385.46	386.74	0.002156	2.85	381.33	390.22	0.53
Klondike River	Reach 1	26500	0p5-CC-LC_OW_klo	1213.70	382.41	386.78	386.10	387.29	0.002638	3.45	551.16	591.62	0.60
Klondike River	Reach 1	26500	0p5-CC-LC_OW_yuk	1121.80	382.41	386.70	386.08	387.19	0.002528	3.32	516.95	528.60	0.59
Klondike River	Reach 1	26363	5_OW_klondike	632.40	382.60	385.79		386.08	0.002803	2.56	368.85	425.24	0.57
Klondike River	Reach 1	26363	5_OW_yukon	534.30	382.60	385.64		385.91	0.002719	2.40	312.48	371.37	0.56
Klondike River	Reach 1	26363	1_OW_klondike	795.70	382.60	385.96	385.57	386.29	0.003052	2.82	450.11	524.71	0.61
Klondike River	Reach 1	26363	1_OW_yukon	719.90	382.60	385.88	385.48	386.20	0.002957	2.71	411.51	488.77	0.59
Klondike River	Reach 1	26363	0p5_OW_klondike	866.90	382.60	386.02	385.70	386.37	0.003138	2.91	486.14	560.29	0.62
Klondike River	Reach 1	26363	0p5_OW_yukon	801.30	382.60	385.96	385.61	386.30	0.003059	2.83	452.89	527.00	0.61
Klondike River	Reach 1	26363	0p5-CC-LC_OW_klo	1213.70	382.60	386.31	386.10	386.71	0.003398	3.28	664.05	697.66	0.65
Klondike River	Reach 1	26363	0p5-CC-LC_OW_yuk	1121.80	382.60	386.24	386.06	386.64	0.003385	3.21	616.22	648.50	0.65
Klondike River	Reach 1	26186	5_OW_klondike	632.40	382.60	385.20	384.88	385.36	0.004248	2.02	405.50	569.03	0.63
Klondike River	Reach 1	26186	5_OW_yukon	534.30	382.60	385.08	384.74	385.23	0.003976	1.98	340.67	509.20	0.63
Klondike River	Reach 1	26186	1_OW_klondike	795.70	382.60	385.35	385.07	385.53	0.004152	2.15	497.21	600.77	0.63
Klondike River	Reach 1	26186	1_OW_yukon	719.90	382.60	385.28	384.98	385.45	0.004173	2.09	456.12	591.63	0.63
Klondike River	Reach 1	26186	0p5_OW_klondike	866.90	382.60	385.41	385.13	385.60	0.004128	2.21	534.34	606.88	0.63
Klondike River	Reach 1	26186	0p5_OW_yukon	801.30	382.60	385.36	385.07	385.54	0.004150	2.16	500.14	601.21	0.63
Klondike River	Reach 1	26186	0p5-CC-LC_OW_klo	1213.70	382.60	385.68	385.32	385.90	0.004109	2.45	700.78	648.96	0.63
Klondike River	Reach 1	26186	0p5-CC-LC_OW_yuk	1121.80	382.60	385.61	385.27	385.82	0.004112	2.39	658.21	642.24	0.63
Klondike River	Reach 1	26100	5_OW_klondike	632.40	382.20	385.00	384.42	385.11	0.002024	1.55	494.07	587.58	0.44
Klondike River	Reach 1	26100	5_OW_yukon	534.30	382.20	384.90	384.22	384.99	0.001965	1.45	435.44	540.74	0.43
Klondike River	Reach 1	26100	1_OW_klondike	795.70	382.20	385.16	384.57	385.28	0.002072	1.70	588.88	636.23	0.46
Klondike River	Reach 1	26100	1_OW_yukon	719.90	382.20	385.09	384.51	385.20	0.002046	1.63	546.29	616.12	0.45
Klondike River	Reach 1	26100	0p5_OW_klondike	866.90	382.20	385.22	384.65	385.35	0.002104	1.76	627.25	647.97	0.47
Klondike River	Reach 1	26100	0p5_OW_yukon	801.30	382.20	385.16	384.58	385.29	0.002074	1.71	591.91	637.78	0.46
Klondike River	Reach 1	26100	0p5-CC-LC_OW_klo	1213.70	382.20	385.48	384.90	385.64	0.002199	2.01	804.45	713.93	0.49
Klondike River	Reach 1	26100	0p5-CC-LC_OW_yuk	1121.80	382.20	385.41	384.84	385.57	0.002183	1.95	757.86	700.00	0.48
Klondike River	Reach 1	25969	5_OW_klondike	632.40	381.43	384.67	384.24	384.78	0.002492	1.54	485.47	613.53	0.49
Klondike River	Reach 1	25969	5_OW_yukon	534.30	381.43	384.58	384.15	384.67	0.002453	1.44	429.34	558.60	0.47
Klondike River	Reach 1	25969	1_OW_klondike	795.70	381.43	384.81	384.37	384.94	0.002589	1.70	573.24	666.68	0.51
Klondike River	Reach 1	25969	1_OW_yukon	719.90	381.43	384.75	384.32	384.87	0.002555	1.63	533.39	644.35	0.50
Klondike River	Reach 1	25969	0p5_OW_klondike	866.90	381.43	384.86	384.41	385.00	0.002604	1.76	610.23	681.11	0.51
Klondike River	Reach 1	25969	0p5_OW_yukon	801.30	381.43	384.81	384.37	384.94	0.002590	1.70	576.13	668.15	0.51
Klondike River	Reach 1	25969	0p5-CC-LC_OW_klo	1213.70	381.43	385.12	384.62	385.29	0.002534	1.96	789.82	722.21	0.52
Klondike River	Reach 1	25969	0p5-CC-LC_OW_yuk	1121.80	381.43	385.05	384.57	385.21	0.002544	1.91	743.83	709.30	0.52
Klondike River	Reach 1	25849	5_OW_klondike	632.40	380.61	384.25	383.95	384.40	0.004289	1.82	396.42	566.19	0.62
Klondike River	Reach 1	25849	5_OW_yukon	534.30	380.61	384.14	383.70	384.28	0.004701	1.77	335.53	510.24	0.64
Klondike River	Reach 1	25849	1_OW_klondike	795.70	380.61	384.43	384.03	384.59	0.003553	1.87	509.40	674.88	0.58
Klondike River	Reach 1	25849	1_OW_yukon	719.90	380.61	384.35	384.03	384.51	0.003888	1.85	454.98	637.87	0.60
Klondike River	Reach 1	25849	0p5_OW_klondike	866.90	380.61	384.50	384.16	384.66	0.003321	1.89	558.63	690.12	0.57
Klondike River	Reach 1	25849	0p5_OW_yukon	801.30	380.61	384.43	384.11	384.60	0.003533	1.87	513.27	676.30	0.58
Klondike River	Reach 1	25849	0p5-CC-LC_OW_klo	1213.70	380.61	384.83	384.38	385.00	0.002519	1.96	800.99	786.64	0.52

HEC-RAS Plan: OW_AEP (Continued)

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Klondike River	Reach 1	25849	0p5-CC-LC_OW_yuk	1121.80	380.61	384.75	384.33	384.92	0.002675	1.94	738.03	747.67	0.53
Klondike River	Reach 1	25750	5_OW_klondike	632.40	379.67	384.05	383.31	384.12	0.001728	1.26	596.70	612.93	0.40
Klondike River	Reach 1	25750	5_OW_yukon	534.30	379.67	383.89	383.12	383.96	0.002077	1.25	501.84	580.70	0.43
Klondike River	Reach 1	25750	1_OW_klondike	795.70	379.67	384.27	383.52	384.34	0.001476	1.31	740.78	700.38	0.38
Klondike River	Reach 1	25750	1_OW_yukon	719.90	379.67	384.17	383.44	384.24	0.001587	1.29	673.20	657.81	0.39
Klondike River	Reach 1	25750	0p5_OW_klondike	866.90	379.67	384.36	383.67	384.43	0.001400	1.34	801.10	736.19	0.37
Klondike River	Reach 1	25750	0p5_OW_yukon	801.30	379.67	384.28	383.52	384.35	0.001470	1.32	745.56	704.26	0.38
Klondike River	Reach 1	25750	0p5-CC-LC_OW_klo	1213.70	379.67	384.72	383.84	384.81	0.001219	1.47	1099.24	895.88	0.36
Klondike River	Reach 1	25750	0p5-CC-LC_OW_yuk	1121.80	379.67	384.63	383.80	384.72	0.001258	1.44	1021.57	863.39	0.36
Klondike River	Reach 1	25700	5_OW_klondike	632.40	379.24	383.85	383.30	384.00	0.003079	1.75	378.71	382.42	0.54
Klondike River	Reach 1	25700	5_OW_yukon	534.30	379.24	383.66	383.15	383.82	0.003511	1.78	313.78	326.92	0.57
Klondike River	Reach 1	25700	1_OW_klondike	795.70	379.24	384.07	383.52	384.24	0.002635	1.82	479.11	513.89	0.51
Klondike River	Reach 1	25700	1_OW_yukon	719.90	379.24	383.98	383.43	384.13	0.002763	1.78	432.11	442.28	0.52
Klondike River	Reach 1	25700	0p5_OW_klondike	866.90	379.24	384.16	383.60	384.33	0.002472	1.85	526.75	555.37	0.50
Klondike River	Reach 1	25700	0p5_OW_yukon	801.30	379.24	384.08	383.53	384.25	0.002624	1.83	482.71	518.47	0.51
Klondike River	Reach 1	25700	0p5-CC-LC_OW_klo	1213.70	379.24	384.55	383.87	384.72	0.001931	1.92	805.34	886.81	0.46
Klondike River	Reach 1	25700	0p5-CC-LC_OW_yuk	1121.80	379.24	384.46	383.80	384.63	0.002038	1.90	725.75	800.63	0.47
Klondike River	Reach 1	25650	5_OW_klondike	632.40	379.37	383.79	383.03	383.89	0.001308	1.41	484.52	435.46	0.37
Klondike River	Reach 1	25650	5_OW_yukon	534.30	379.37	383.60	382.87	383.69	0.001507	1.38	407.96	371.35	0.39
Klondike River	Reach 1	25650	1_OW_klondike	795.70	379.37	384.03	383.20	384.14	0.001223	1.50	600.06	534.25	0.38
Klondike River	Reach 1	25650	1_OW_yukon	719.90	379.37	383.92	383.12	384.03	0.001251	1.46	546.58	489.82	0.37
Klondike River	Reach 1	25650	0p5_OW_klondike	866.90	379.37	384.12	383.26	384.23	0.001213	1.55	650.27	585.49	0.38
Klondike River	Reach 1	25650	0p5_OW_yukon	801.30	379.37	384.03	383.20	384.15	0.001222	1.51	603.95	536.95	0.38
Klondike River	Reach 1	25650	0p5-CC-LC_OW_klo	1213.70	379.37	384.51	383.50	384.64	0.001113	1.68	954.99	962.25	0.37
Klondike River	Reach 1	25650	0p5-CC-LC_OW_yuk	1121.80	379.37	384.42	383.43	384.55	0.001135	1.65	867.95	866.65	0.37
Klondike River	Reach 1	25600	5_OW_klondike	632.40	379.47	383.65	382.96	383.80	0.002240	1.79	409.12	462.12	0.47
Klondike River	Reach 1	25600	5_OW_yukon	534.30	379.47	383.44	382.78	383.59	0.002440	1.78	329.01	326.10	0.49
Klondike River	Reach 1	25600	1_OW_klondike	795.70	379.47	383.90	383.18	384.06	0.002236	1.82	549.47	622.31	0.48
Klondike River	Reach 1	25600	1_OW_yukon	719.90	379.47	383.79	383.08	383.95	0.002264	1.82	480.69	556.60	0.48
Klondike River	Reach 1	25600	0p5_OW_klondike	866.90	379.47	384.00	383.27	384.16	0.002090	1.83	613.15	653.16	0.46
Klondike River	Reach 1	25600	0p5_OW_yukon	801.30	379.47	383.91	383.18	384.07	0.002225	1.82	554.51	624.96	0.48
Klondike River	Reach 1	25600	0p5-CC-LC_OW_klo	1213.70	379.47	384.44	383.63	384.58	0.001539	1.84	959.94	940.61	0.41
Klondike River	Reach 1	25600	0p5-CC-LC_OW_yuk	1121.80	379.47	384.34	383.52	384.48	0.001644	1.84	864.84	874.33	0.42
Klondike River	Reach 1	25550	5_OW_klondike	632.40	379.57	383.65	382.67	383.71	0.001027	1.30	673.92	538.93	0.33
Klondike River	Reach 1	25550	5_OW_yukon	534.30	379.57	383.43	382.53	383.50	0.001019	1.31	566.46	462.53	0.33
Klondike River	Reach 1	25550	1_OW_klondike	795.70	379.57	383.90	382.83	383.97	0.000968	1.37	820.42	603.79	0.33
Klondike River	Reach 1	25550	1_OW_yukon	719.90	379.57	383.79	382.77	383.86	0.000997	1.33	754.18	578.03	0.33
Klondike River	Reach 1	25550	0p5_OW_klondike	866.90	379.57	384.00	382.89	384.08	0.000941	1.40	882.91	635.22	0.33
Klondike River	Reach 1	25550	0p5_OW_yukon	801.30	379.57	383.91	382.83	383.98	0.000965	1.37	825.33	607.50	0.33
Klondike River	Reach 1	25550	0p5-CC-LC_OW_klo	1213.70	379.57	384.44	383.15	384.52	0.000818	1.51	1220.65	926.93	0.32
Klondike River	Reach 1	25550	0p5-CC-LC_OW_yuk	1121.80	379.57	384.34	383.08	384.42	0.000838	1.48	1127.85	854.87	0.32
Klondike River	Reach 1	25500	5_OW_klondike	632.40	379.67	383.36	382.69	383.63	0.002020	2.50	305.31	220.21	0.50
Klondike River	Reach 1	25500	5_OW_yukon	534.30	379.67	383.17	382.49	383.42	0.002008	2.38	266.22	198.91	0.50
Klondike River	Reach 1	25500	1_OW_klondike	795.70	379.67	383.55	382.94	383.88	0.002313	2.80	351.78	253.05	0.55
Klondike River	Reach 1	25500	1_OW_yukon	719.90	379.67	383.46	382.84	383.77	0.002201	2.68	329.77	241.88	0.53
Klondike River	Reach 1	25500	0p5_OW_klondike	866.90	379.67	383.63	383.14	383.99	0.002410	2.91	372.29	267.58	0.56
Klondike River	Reach 1	25500	0p5_OW_yukon	801.30	379.67	383.56	382.94	383.89	0.002321	2.81	353.35	254.05	0.55
Klondike River	Reach 1	25500	0p5-CC-LC_OW_klo	1213.70	379.67	383.98	383.58	384.43	0.002927	3.31	485.87	412.82	0.62
Klondike River	Reach 1	25500	0p5-CC-LC_OW_yuk	1121.80	379.67	383.90	383.48	384.32	0.002889	3.22	453.27	348.25	0.61
Klondike River	Reach 1	25458	5_OW_klondike	632.40	379.86	383.25	382.79	383.50	0.003156	2.50	306.16	281.60	0.59
Klondike River	Reach 1	25458	5_OW_yukon	534.30	379.86	383.05	382.61	383.30	0.003239	2.43	254.85	240.26	0.59
Klondike River	Reach 1	25458	1_OW_klondike	795.70	379.86	383.44	382.98	383.74	0.003304	2.68	365.89	334.09	0.61
Klondike River	Reach 1	25458	1_OW_yukon	719.90	379.86	383.35	382.91	383.63	0.003238	2.59	337.78	303.74	0.60
Klondike River	Reach 1	25458	0p5_OW_klondike	866.90	379.86	383.53	383.13	383.83	0.003245	2.73	395.31	358.44	0.61
Klondike River	Reach 1	25458	0p5_OW_yukon	801.30	379.86	383.45	382.98	383.75	0.003300	2.68	368.12	335.44	0.61
Klondike River	Reach 1	25458	0p5-CC-LC_OW_klo	1213.70	379.86	383.90	383.50	384.25	0.002976	2.93	556.54	532.43	0.60
Klondike River	Reach 1	25458	0p5-CC-LC_OW_yuk	1121.80	379.86	383.81	383.41	384.15	0.003020	2.88	510.97	464.59	0.60
Klondike River	Reach 1	25400	5_OW_klondike	632.40	379.62	383.00	382.59	383.29	0.004258	2.57	288.28	298.25	0.67
Klondike River	Reach 1	25400	5_OW_yukon	534.30	379.62	382.85	382.33	383.10	0.003609	2.22	248.40	245.17	0.61
Klondike River	Reach 1	25400	1_OW_klondike	795.70	379.62	383.24	382.84	383.54	0.003590	2.61	365.68	335.04	0.63
Klondike River	Reach 1	25400	1_OW_yukon	719.90	379.62	383.13	382.73	383.42	0.003860	2.59	329.77	319.42	0.65
Klondike River	Reach 1	25400	0p5_OW_klondike	866.90	379.62	383.34	382.93	383.64	0.003387	2.63	399.49	353.37	0.62
Klondike River	Reach 1	25400	0p5_OW_yukon	801.30	379.62	383.25	382.85	383.54	0.003573	2.61	368.30	336.40	0.63
Klondike River	Reach 1	25400	0p5-CC-LC_OW_klo	1213.70	379.62	383.77	383.31	384.08	0.002758	2.72	581.92	559.88	0.58
Klondike River	Reach 1	25400	0p5-CC-LC_OW_yuk	1121.80	379.62	383.67	383.24	383.97	0.002873	2.70	529.37	472.60	0.58
Klondike River	Reach 1	25350	5_OW_klondike	632.40	379.52	382.85	382.19	383.05	0.002977	2.00	324.20	265.96	0.55
Klondike River	Reach 1	25350	5_OW_yukon	534.30	379.52	382.68	382.03	382.87	0.003150	1.93	282.00	246.22	0.56
Klondike River	Reach 1	25350	1_OW_klondike	795.70	379.52	383.11	382.53	383.33	0.002676	2.09	398.82	305.38	0.54
Klondike River	Reach 1	25350	1_OW_yukon	719.90	379.52	382.99	382.39	383.20	0.002849	2.05	363.70	285.85	0.55
Klondike River	Reach 1	25350	0p5_OW_klondike	866.90	379.52	383.21	382.61	383.44	0.002549	2.13	431.19	320.12	0.53
Klondike River	Reach 1	25350	0p5_OW_yukon	801.30	379.52	383.12	382.54	383.34	0.002665	2.09	401.37	306.29	0.54
Klondike River	Reach 1	25350	0p5-CC-LC_OW_klo	1213.70	379.52	383.65	382.91	383.91	0.002175	2.30	605.95	541.79	0.51
Klondike River	Reach 1	25350	0p5-CC-LC_OW_yuk	1121.80	379.52	383.55	382.84	383.80	0.002242	2.26	554.00	452.31	0.51
Klondike River	Reach 1	25300	5_OW_klondike	632.40	379.41	382.75	381.99	382.91	0.002229	1.80	362.03	264.39	0.48
Klondike River	Reach 1	25300	5_OW_yukon	534.30	379.41	382.57	381.82	382.72	0.002442	1.73	315.97	257.25	0.49
Klondike River	Reach 1	25300	1_OW_klondike	795.70	379.41	383.02	382.25	383.20	0.001983	1.90	437.81	291.30	0.46
Klondike River	Reach 1	25300	1_OW_yukon	719.90	379.41	382.90	382.16	383.07	0.002090	1.86	402.38	279.47	0.47
Klondike River	Reach 1	25300	0p5_OW_klondike	866.90	379.41	383.13	382.36	383.32	0.001919	1.94	470.14	309.48	0.46
Klondike River	Reach 1	25300	0p5_OW_yukon	801.30	379.41	383.03	382.27	383.21	0.001977	1.90	440.36	292.69	0.46
Klondike River	Reach 1	25300	0p5-CC-LC_OW_klo	1213.70	379.41	383.58	382.67	383.81	0.001726	2.13	681.38	730.90	0.45

HEC-RAS Plan: OW_AEP (Continued)

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Klondike River	Reach 1	25300	0p5-CC-LC_OW_yuk	1121.80	379.41	383.47	382.60	383.69	0.001765	2.09	610.52	598.99	0.45
Klondike River	Reach 1	25250	5_OW_klondike	632.40	379.31	382.67	381.85	382.82	0.001467	1.68	391.35	257.63	0.40
Klondike River	Reach 1	25250	5_OW_yukon	534.30	379.31	382.50	381.73	382.62	0.001494	1.58	348.50	244.07	0.40
Klondike River	Reach 1	25250	1_OW_klondike	795.70	379.31	382.95	382.03	383.12	0.001436	1.83	462.59	296.68	0.41
Klondike River	Reach 1	25250	1_OW_yukon	719.90	379.31	382.82	381.95	382.98	0.001452	1.77	428.93	278.18	0.40
Klondike River	Reach 1	25250	0p5_OW_klondike	866.90	379.31	383.06	382.09	383.23	0.001431	1.89	493.72	323.60	0.41
Klondike River	Reach 1	25250	0p5_OW_yukon	801.30	379.31	382.96	382.03	383.13	0.001435	1.83	465.03	298.00	0.41
Klondike River	Reach 1	25250	0p5-CC-LC_OW_klo	1213.70	379.31	383.51	382.41	383.73	0.001414	2.13	699.42	744.90	0.42
Klondike River	Reach 1	25250	0p5-CC-LC_OW_yuk	1121.80	379.31	383.40	382.33	383.61	0.001417	2.07	630.17	593.22	0.42
Klondike River	Reach 1	25169	5_OW_klondike	632.40	379.70	382.38	381.85	382.64	0.002998	2.29	296.33	232.29	0.57
Klondike River	Reach 1	25169	5_OW_yukon	534.30	379.70	382.21	381.71	382.44	0.003114	2.17	258.36	207.82	0.57
Klondike River	Reach 1	25169	1_OW_klondike	795.70	379.70	382.65	382.05	382.94	0.002834	2.45	362.17	265.11	0.56
Klondike River	Reach 1	25169	1_OW_yukon	719.90	379.70	382.53	381.96	382.81	0.002888	2.37	331.64	248.90	0.56
Klondike River	Reach 1	25169	0p5_OW_klondike	866.90	379.70	382.75	382.14	383.06	0.002771	2.52	391.32	282.47	0.56
Klondike River	Reach 1	25169	0p5_OW_yukon	801.30	379.70	382.65	382.06	382.95	0.002828	2.46	364.50	266.47	0.56
Klondike River	Reach 1	25169	0p5-CC-LC_OW_klo	1213.70	379.70	383.20	382.53	383.56	0.002601	2.78	580.08	683.78	0.56
Klondike River	Reach 1	25169	0p5-CC-LC_OW_yuk	1121.80	379.70	383.09	382.43	383.44	0.002611	2.71	518.35	530.62	0.56
Klondike River	Reach 1	25100	5_OW_klondike	632.40	378.81	382.15	381.58	382.44	0.002975	2.41	275.69	259.79	0.57
Klondike River	Reach 1	25100	5_OW_yukon	534.30	378.81	381.99	381.44	382.24	0.002866	2.23	250.04	240.01	0.55
Klondike River	Reach 1	25100	1_OW_klondike	795.70	378.81	382.39	381.78	382.74	0.003073	2.66	323.56	328.64	0.59
Klondike River	Reach 1	25100	1_OW_yukon	719.90	378.81	382.28	381.69	382.60	0.003036	2.55	300.06	293.33	0.58
Klondike River	Reach 1	25100	0p5_OW_klondike	866.90	378.81	382.49	381.87	382.86	0.003115	2.76	346.79	359.45	0.60
Klondike River	Reach 1	25100	0p5_OW_yukon	801.30	378.81	382.40	381.79	382.75	0.003077	2.67	325.35	330.88	0.59
Klondike River	Reach 1	25100	0p5-CC-LC_OW_klo	1213.70	378.81	382.88	382.28	383.36	0.003313	3.18	487.65	584.87	0.64
Klondike River	Reach 1	25100	0p5-CC-LC_OW_yuk	1121.80	378.81	382.79	382.17	383.24	0.003229	3.07	449.36	528.85	0.63
Klondike River	Reach 1	24950	5_OW_klondike	632.40	378.16	381.66	381.26	381.97	0.003549	2.53	292.87	253.87	0.62
Klondike River	Reach 1	24950	5_OW_yukon	534.30	378.16	381.46	381.12	381.75	0.003960	2.46	249.87	219.24	0.65
Klondike River	Reach 1	24950	1_OW_klondike	795.70	378.16	381.97	381.45	382.29	0.003071	2.63	371.76	330.44	0.60
Klondike River	Reach 1	24950	1_OW_yukon	719.90	378.16	381.83	381.35	382.15	0.003276	2.59	331.46	307.60	0.61
Klondike River	Reach 1	24950	0p5_OW_klondike	866.90	378.16	382.09	381.50	382.42	0.002922	2.67	412.59	356.26	0.59
Klondike River	Reach 1	24950	0p5_OW_yukon	801.30	378.16	381.98	381.46	382.30	0.003058	2.64	374.93	332.06	0.60
Klondike River	Reach 1	24950	0p5-CC-LC_OW_klo	1213.70	378.16	382.57	381.95	382.92	0.002525	2.85	648.35	659.71	0.57
Klondike River	Reach 1	24950	0p5-CC-LC_OW_yuk	1121.80	378.16	382.46	381.81	382.80	0.002617	2.81	579.37	570.33	0.57
Klondike River	Reach 1	24800	5_OW_klondike	632.40	377.37	381.36	380.44	381.60	0.001811	2.23	320.78	218.25	0.46
Klondike River	Reach 1	24800	5_OW_yukon	534.30	377.37	381.15	380.28	381.36	0.001801	2.09	278.86	182.36	0.45
Klondike River	Reach 1	24800	1_OW_klondike	795.70	377.37	381.68	380.69	381.96	0.001784	2.41	402.24	279.34	0.47
Klondike River	Reach 1	24800	1_OW_yukon	719.90	377.37	381.53	380.58	381.80	0.001813	2.34	362.41	254.96	0.47
Klondike River	Reach 1	24800	0p5_OW_klondike	866.90	377.37	381.80	380.79	382.10	0.001776	2.48	439.38	321.55	0.47
Klondike River	Reach 1	24800	0p5_OW_yukon	801.30	377.37	381.69	380.69	381.97	0.001784	2.42	405.01	281.83	0.47
Klondike River	Reach 1	24800	0p5-CC-LC_OW_klo	1213.70	377.37	382.29	381.31	382.64	0.001814	2.79	647.35	576.94	0.49
Klondike River	Reach 1	24800	0p5-CC-LC_OW_yuk	1121.80	377.37	382.19	381.15	382.52	0.001760	2.69	592.77	509.10	0.48
Klondike River	Reach 1	24693	5_OW_klondike	632.40	377.15	380.85	380.49	381.30	0.004274	3.01	235.29	192.57	0.70
Klondike River	Reach 1	24693	5_OW_yukon	534.30	377.15	380.53	380.33	381.02	0.005838	3.11	180.75	144.25	0.79
Klondike River	Reach 1	24693	1_OW_klondike	795.70	377.15	381.29	380.80	381.71	0.003170	2.97	329.27	241.61	0.62
Klondike River	Reach 1	24693	1_OW_yukon	719.90	377.15	381.10	380.65	381.53	0.003535	2.97	285.76	220.06	0.65
Klondike River	Reach 1	24693	0p5_OW_klondike	866.90	377.15	381.45	380.92	381.86	0.002909	2.97	369.23	270.51	0.60
Klondike River	Reach 1	24693	0p5_OW_yukon	801.30	377.15	381.30	380.81	381.72	0.003147	2.97	332.36	242.73	0.62
Klondike River	Reach 1	24693	0p5-CC-LC_OW_klo	1213.70	377.15	381.98	381.40	382.42	0.002585	3.19	572.46	493.18	0.58
Klondike River	Reach 1	24693	0p5-CC-LC_OW_yuk	1121.80	377.15	381.86	381.28	382.30	0.002634	3.13	517.18	445.15	0.59
Klondike River	Reach 1	24600	5_OW_klondike	632.40	376.10	380.84	379.01	381.08	0.000949	2.22	328.45	161.64	0.37
Klondike River	Reach 1	24600	5_OW_yukon	534.30	376.10	380.55	378.77	380.76	0.000925	2.08	284.55	146.16	0.36
Klondike River	Reach 1	24600	1_OW_klondike	795.70	376.10	381.24	379.38	381.52	0.000997	2.44	418.55	302.70	0.38
Klondike River	Reach 1	24600	1_OW_yukon	719.90	376.10	381.06	379.21	381.33	0.000979	2.35	371.58	231.22	0.38
Klondike River	Reach 1	24600	0p5_OW_klondike	866.90	376.10	381.39	379.53	381.68	0.001016	2.52	468.13	371.28	0.39
Klondike River	Reach 1	24600	0p5_OW_yukon	801.30	376.10	381.25	379.39	381.53	0.000999	2.44	422.20	308.08	0.38
Klondike River	Reach 1	24600	0p5-CC-LC_OW_klo	1213.70	376.10	381.90	380.32	382.26	0.001132	2.87	710.68	574.12	0.42
Klondike River	Reach 1	24600	0p5-CC-LC_OW_yuk	1121.80	376.10	381.79	380.04	382.13	0.001095	2.78	650.04	519.81	0.41
Klondike River	Reach 1	24500	5_OW_klondike	632.40	375.69	380.67	379.27	380.97	0.001315	2.47	303.83	220.87	0.43
Klondike River	Reach 1	24500	5_OW_yukon	534.30	375.69	380.39	379.00	380.65	0.001302	2.32	256.00	132.37	0.42
Klondike River	Reach 1	24500	1_OW_klondike	795.70	375.69	381.10	379.65	381.41	0.001265	2.62	435.14	403.24	0.43
Klondike River	Reach 1	24500	1_OW_yukon	719.90	375.69	380.91	379.47	381.22	0.001302	2.57	365.93	315.76	0.43
Klondike River	Reach 1	24500	0p5_OW_klondike	866.90	375.69	381.27	379.81	381.58	0.001215	2.64	508.88	454.85	0.42
Klondike River	Reach 1	24500	0p5_OW_yukon	801.30	375.69	381.11	379.66	381.43	0.001262	2.62	440.56	406.67	0.43
Klondike River	Reach 1	24500	0p5-CC-LC_OW_klo	1213.70	375.69	381.82	380.43	382.15	0.001216	2.88	804.53	666.06	0.43
Klondike River	Reach 1	24500	0p5-CC-LC_OW_yuk	1121.80	375.69	381.71	380.28	382.02	0.001179	2.79	733.19	609.33	0.42
Klondike River	Reach 1	24400	5_OW_klondike	632.40	375.71	380.15	379.40	380.75	0.003115	3.45	197.63	113.56	0.63
Klondike River	Reach 1	24400	5_OW_yukon	534.30	375.71	379.94	379.09	380.44	0.002879	3.16	176.99	82.57	0.60
Klondike River	Reach 1	24400	1_OW_klondike	795.70	375.71	380.43	379.84	381.18	0.003557	3.91	238.09	188.67	0.69
Klondike River	Reach 1	24400	1_OW_yukon	719.90	375.71	380.31	379.65	380.99	0.003341	3.70	218.34	149.27	0.66
Klondike River	Reach 1	24400	0p5_OW_klondike	866.90	375.71	380.54	380.03	381.34	0.003703	4.07	261.93	247.36	0.71
Klondike River	Reach 1	24400	0p5_OW_yukon	801.30	375.71	380.44	379.85	381.19	0.003572	3.92	239.64	191.63	0.69
Klondike River	Reach 1	24400	0p5-CC-LC_OW_klo	1213.70	375.71	381.14	381.14	381.94	0.003304	4.29	477.67	418.19	0.69
Klondike River	Reach 1	24400	0p5-CC-LC_OW_yuk	1121.80	375.71	381.03	381.03	381.81	0.003280	4.20	432.70	402.42	0.68
Klondike River	Reach 1	24350	5_OW_klondike	632.40	375.54	380.10	379.13	380.57	0.002744	3.08	232.87	153.65	0.56
Klondike River	Reach 1	24350	5_OW_yukon	534.30	375.54	379.88	378.85	380.29	0.002562	2.84	204.06	114.39	0.53
Klondike River	Reach 1	24350	1_OW_klondike	795.70	375.54	380.41	379.59	380.97	0.002990	3.43	295.56	260.21	0.59
Klondike River	Reach 1	24350	1_OW_yukon	719.90	375.54	380.27	379.38	380.80	0.002889	3.28	263.08	215.53	0.58
Klondike River	Reach 1	24350	0p5_OW_klondike	866.90	375.54	380.53	379.77	381.12	0.003081	3.56	328.34	297.68	0.60
Klondike River	Reach 1	24350	0p5_OW_yukon	801.30	375.54	380.42	379.59	380.98	0.002996	3.44	298.06	263.12	0.59
Klondike River	Reach 1	24350	0p5-CC-LC_OW_klo	1213.70	375.54	380.98	380.88	381.67	0.003347	4.02	497.62	457.21	0.64

HEC-RAS Plan: OW_AEP (Continued)

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Klondike River	Reach 1	24350	0p5-CC-LC_OW_yuk	1121.80	375.54	380.86	380.60	381.55	0.003362	3.95	445.98	409.88	0.64
Klondike River	Reach 1	24300	5_OW_klondike	632.40	375.93	380.01	378.99	380.44	0.002193	2.91	237.97	143.75	0.54
Klondike River	Reach 1	24300	5_OW_yukon	534.30	375.93	379.80	378.75	380.16	0.002044	2.67	211.78	110.14	0.51
Klondike River	Reach 1	24300	1_OW_klondike	795.70	375.93	380.31	379.38	380.83	0.002433	3.26	295.25	257.44	0.58
Klondike River	Reach 1	24300	1_OW_yukon	719.90	375.93	380.18	379.20	380.65	0.002333	3.11	265.82	201.22	0.56
Klondike River	Reach 1	24300	0p5_OW_klondike	866.90	375.93	380.42	379.53	380.98	0.002507	3.39	328.31	323.27	0.59
Klondike River	Reach 1	24300	0p5_OW_yukon	801.30	375.93	380.32	379.39	380.84	0.002440	3.27	297.60	261.61	0.58
Klondike River	Reach 1	24300	0p5-CC-LC_OW_klo	1213.70	375.93	380.86	380.65	381.53	0.002797	3.88	508.94	506.73	0.63
Klondike River	Reach 1	24300	0p5-CC-LC_OW_yuk	1121.80	375.93	380.75	380.17	381.39	0.002754	3.77	456.11	458.37	0.63
Klondike River	Reach 1	24250	5_OW_klondike	632.40	376.30	380.00	378.82	380.31	0.001590	2.55	287.63	206.29	0.46
Klondike River	Reach 1	24250	5_OW_yukon	534.30	376.30	379.77	378.59	380.05	0.001499	2.36	249.17	149.46	0.44
Klondike River	Reach 1	24250	1_OW_klondike	795.70	376.30	380.31	379.16	380.68	0.001688	2.80	372.05	329.95	0.48
Klondike River	Reach 1	24250	1_OW_yukon	719.90	376.30	380.17	379.00	380.52	0.001662	2.70	329.31	267.55	0.48
Klondike River	Reach 1	24250	0p5_OW_klondike	866.90	376.30	380.44	379.31	380.83	0.001701	2.88	419.35	410.44	0.49
Klondike River	Reach 1	24250	0p5_OW_yukon	801.30	376.30	380.32	379.18	380.70	0.001690	2.81	375.34	335.63	0.48
Klondike River	Reach 1	24250	0p5-CC-LC_OW_klo	1213.70	376.30	380.93	380.09	381.35	0.001752	3.19	673.04	584.43	0.51
Klondike River	Reach 1	24250	0p5-CC-LC_OW_yuk	1121.80	376.30	380.80	379.82	381.22	0.001768	3.14	602.21	564.48	0.51
Klondike River	Reach 1	24200	5_OW_klondike	632.40	376.73	379.91	378.92	380.23	0.001839	2.56	284.36	205.27	0.49
Klondike River	Reach 1	24200	5_OW_yukon	534.30	376.73	379.69	378.71	379.97	0.001756	2.37	244.32	153.12	0.47
Klondike River	Reach 1	24200	1_OW_klondike	795.70	376.73	380.23	379.20	380.60	0.001896	2.79	361.88	298.52	0.51
Klondike River	Reach 1	24200	1_OW_yukon	719.90	376.73	380.08	379.09	380.43	0.001883	2.70	323.32	242.97	0.50
Klondike River	Reach 1	24200	0p5_OW_klondike	866.90	376.73	380.36	379.35	380.74	0.001902	2.87	406.15	397.96	0.51
Klondike River	Reach 1	24200	0p5_OW_yukon	801.30	376.73	380.24	379.23	380.61	0.001898	2.80	364.88	306.16	0.51
Klondike River	Reach 1	24200	0p5-CC-LC_OW_klo	1213.70	376.73	380.81	380.07	381.26	0.002046	3.25	630.01	567.19	0.54
Klondike River	Reach 1	24200	0p5-CC-LC_OW_yuk	1121.80	376.73	380.71	379.72	381.14	0.001975	3.13	574.42	548.01	0.53
Klondike River	Reach 1	24150	5_OW_klondike	632.40	376.70	379.74	378.98	380.12	0.002482	2.78	249.27	160.66	0.56
Klondike River	Reach 1	24150	5_OW_yukon	534.30	376.70	379.53	378.79	379.86	0.002410	2.58	218.47	135.17	0.54
Klondike River	Reach 1	24150	1_OW_klondike	795.70	376.70	380.04	379.22	380.49	0.002538	3.03	314.73	291.51	0.58
Klondike River	Reach 1	24150	1_OW_yukon	719.90	376.70	379.90	379.14	380.32	0.002534	2.93	280.19	219.48	0.57
Klondike River	Reach 1	24150	0p5_OW_klondike	866.90	376.70	380.17	379.43	380.63	0.002512	3.10	355.40	354.39	0.58
Klondike River	Reach 1	24150	0p5_OW_yukon	801.30	376.70	380.05	379.30	380.50	0.002541	3.04	317.33	296.07	0.58
Klondike River	Reach 1	24150	0p5-CC-LC_OW_klo	1213.70	376.70	380.72	380.12	381.16	0.002157	3.23	626.26	604.21	0.55
Klondike River	Reach 1	24150	0p5-CC-LC_OW_yuk	1121.80	376.70	380.59	379.98	381.04	0.002258	3.22	548.39	575.81	0.56
Klondike River	Reach 1	24100	5_OW_klondike	632.40	376.59	379.56	378.88	379.99	0.002788	2.95	235.42	147.88	0.59
Klondike River	Reach 1	24100	5_OW_yukon	534.30	376.59	379.37	378.68	379.74	0.002601	2.71	209.48	126.03	0.57
Klondike River	Reach 1	24100	1_OW_klondike	795.70	376.59	379.84	379.19	380.35	0.002938	3.25	284.98	216.76	0.62
Klondike River	Reach 1	24100	1_OW_yukon	719.90	376.59	379.71	379.06	380.19	0.002899	3.13	259.63	176.10	0.61
Klondike River	Reach 1	24100	0p5_OW_klondike	866.90	376.59	379.96	379.34	380.49	0.002940	3.35	315.11	278.35	0.62
Klondike River	Reach 1	24100	0p5_OW_yukon	801.30	376.59	379.85	379.20	380.36	0.002940	3.26	287.00	220.51	0.62
Klondike River	Reach 1	24100	0p5-CC-LC_OW_klo	1213.70	376.59	380.63	380.20	381.07	0.002147	3.28	620.88	603.88	0.55
Klondike River	Reach 1	24100	0p5-CC-LC_OW_yuk	1121.80	376.59	380.44	379.90	380.93	0.002445	3.38	515.05	545.58	0.58
Klondike River	Reach 1	24050	5_OW_klondike	632.40	376.51	379.41	378.74	379.85	0.002780	2.96	232.44	212.19	0.59
Klondike River	Reach 1	24050	5_OW_yukon	534.30	376.51	379.24	378.53	379.61	0.002556	2.71	210.08	191.77	0.56
Klondike River	Reach 1	24050	1_OW_klondike	795.70	376.51	379.65	379.08	380.20	0.003162	3.35	269.55	252.87	0.64
Klondike River	Reach 1	24050	1_OW_yukon	719.90	376.51	379.55	378.93	380.04	0.002981	3.18	252.33	233.04	0.62
Klondike River	Reach 1	24050	0p5_OW_klondike	866.90	376.51	379.74	379.21	380.34	0.003306	3.51	288.06	297.90	0.66
Klondike River	Reach 1	24050	0p5_OW_yukon	801.30	376.51	379.66	379.09	380.21	0.003175	3.37	270.83	255.16	0.64
Klondike River	Reach 1	24050	0p5-CC-LC_OW_klo	1213.70	376.51	380.03	379.98	380.89	0.004368	4.30	373.36	449.62	0.77
Klondike River	Reach 1	24050	0p5-CC-LC_OW_yuk	1121.80	376.51	379.96	379.72	380.75	0.004153	4.12	346.14	407.68	0.75
Klondike River	Reach 1	24000	5_OW_klondike	632.40	376.41	379.25	378.61	379.70	0.003039	3.02	231.44	247.49	0.61
Klondike River	Reach 1	24000	5_OW_yukon	534.30	376.41	379.09	378.39	379.47	0.002778	2.76	204.30	187.70	0.58
Klondike River	Reach 1	24000	1_OW_klondike	795.70	376.41	379.49	378.95	380.04	0.003311	3.36	289.49	369.28	0.65
Klondike River	Reach 1	24000	1_OW_yukon	719.90	376.41	379.38	378.80	379.89	0.003211	3.22	260.60	300.91	0.64
Klondike River	Reach 1	24000	0p5_OW_klondike	866.90	376.41	379.60	379.16	380.16	0.003325	3.45	321.72	412.97	0.66
Klondike River	Reach 1	24000	0p5_OW_yukon	801.30	376.41	379.50	378.96	380.05	0.003320	3.37	291.59	372.22	0.65
Klondike River	Reach 1	24000	0p5-CC-LC_OW_klo	1213.70	376.41	379.88	379.88	380.65	0.004213	4.14	416.66	469.15	0.75
Klondike River	Reach 1	24000	0p5-CC-LC_OW_yuk	1121.80	376.41	379.80	379.76	380.53	0.004061	4.00	388.76	454.15	0.73
Klondike River	Reach 1	23950	5_OW_klondike	632.40	376.45	379.14	378.57	379.53	0.002949	2.87	259.97	278.20	0.60
Klondike River	Reach 1	23950	5_OW_yukon	534.30	376.45	378.98	378.38	379.32	0.002746	2.64	230.99	219.72	0.57
Klondike River	Reach 1	23950	1_OW_klondike	795.70	376.45	379.37	378.87	379.84	0.003189	3.18	316.22	393.18	0.63
Klondike River	Reach 1	23950	1_OW_yukon	719.90	376.45	379.27	378.72	379.70	0.003096	3.04	288.40	350.22	0.62
Klondike River	Reach 1	23950	0p5_OW_klondike	866.90	376.45	379.47	378.89	379.97	0.003239	3.28	345.60	431.16	0.64
Klondike River	Reach 1	23950	0p5_OW_yukon	801.30	376.45	379.38	378.88	379.85	0.003202	3.19	318.00	396.34	0.63
Klondike River	Reach 1	23950	0p5-CC-LC_OW_klo	1213.70	376.45	379.92	379.61	380.32	0.002526	3.22	641.76	495.76	0.58
Klondike River	Reach 1	23950	0p5-CC-LC_OW_yuk	1121.80	376.45	379.92	379.45	380.26	0.002180	2.98	638.75	494.84	0.54
Klondike River	Reach 1	23900	5_OW_klondike	632.40	376.38	379.02	378.41	379.37	0.002769	2.74	280.89	330.03	0.58
Klondike River	Reach 1	23900	5_OW_yukon	534.30	376.38	378.87	378.25	379.17	0.002581	2.53	247.82	272.60	0.56
Klondike River	Reach 1	23900	1_OW_klondike	795.70	376.38	379.24	378.74	379.67	0.003024	3.05	337.07	399.55	0.62
Klondike River	Reach 1	23900	1_OW_yukon	719.90	376.38	379.14	378.57	379.54	0.002935	2.92	309.91	372.67	0.60
Klondike River	Reach 1	23900	0p5_OW_klondike	866.90	376.38	379.34	378.89	379.79	0.003090	3.16	364.14	423.48	0.63
Klondike River	Reach 1	23900	0p5_OW_yukon	801.30	376.38	379.25	378.75	379.68	0.003039	3.06	338.61	400.93	0.62
Klondike River	Reach 1	23900	0p5-CC-LC_OW_klo	1213.70	376.38	379.86	379.32	380.18	0.002063	2.92	721.02	570.96	0.53
Klondike River	Reach 1	23900	0p5-CC-LC_OW_yuk	1121.80	376.38	379.87	379.26	380.13	0.001743	2.69	724.94	576.78	0.49
Klondike River	Reach 1	23850	5_OW_klondike	632.40	376.45	378.87	378.32	379.22	0.003071	2.71	267.23	308.72	0.60
Klondike River	Reach 1	23850	5_OW_yukon	534.30	376.45	378.73	378.16	379.03	0.002782	2.49	241.98	265.07	0.57
Klondike River	Reach 1	23850	1_OW_klondike	795.70	376.45	379.07	378.59	379.50	0.003441	3.05	313.43	395.85	0.65
Klondike River	Reach 1	23850	1_OW_yukon	719.90	376.45	378.98	378.45	379.37	0.003275	2.90	291.46	363.10	0.63
Klondike River	Reach 1	23850	0p5_OW_klondike	866.90	376.45	379.14	378.71	379.61	0.003661	3.21	332.12	410.00	0.68
Klondike River	Reach 1	23850	0p5_OW_yukon	801.30	376.45	379.07	378.50	379.50	0.003470	3.06	314.29	396.56	0.66
Klondike River	Reach 1	23850	0p5-CC-LC_OW_klo	1213.70	376.45	379.79	379.29	380.05	0.001862	2.68	761.76	706.43	0.50

HEC-RAS Plan: OW_AEP (Continued)

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Klondike River	Reach 1	23850	0p5-CC-LC_OW_yuk	1121.80	376.45	379.46	379.07	379.98	0.003588	3.45	425.74	481.84	0.68
Klondike River	Reach 1	23800	5_OW_klondike	632.40	376.34	378.70	378.26	379.04	0.003429	2.74	276.72	314.04	0.63
Klondike River	Reach 1	23800	5_OW_yukon	534.30	376.34	378.59	378.14	378.87	0.003085	2.50	253.03	284.38	0.59
Klondike River	Reach 1	23800	1_OW_klondike	795.70	376.34	378.85	378.53	379.30	0.004060	3.14	311.85	364.85	0.69
Klondike River	Reach 1	23800	1_OW_yukon	719.90	376.34	378.79	378.42	379.18	0.003786	2.96	295.55	341.45	0.66
Klondike River	Reach 1	23800	0p5_OW_klondike	866.90	376.34	378.91	378.63	379.40	0.004325	3.30	326.32	386.18	0.72
Klondike River	Reach 1	23800	0p5_OW_yukon	801.30	376.34	378.86	378.53	379.30	0.004080	3.15	313.05	366.25	0.69
Klondike River	Reach 1	23800	0p5-CC-LC_OW_klo	1213.70	376.34	379.13	379.09	379.84	0.005776	4.06	388.13	467.35	0.84
Klondike River	Reach 1	23800	0p5-CC-LC_OW_yuk	1121.80	376.34	379.09	378.97	379.73	0.005294	3.84	374.53	446.77	0.80
Klondike River	Reach 1	23750	5_OW_klondike	632.40	376.43	378.71	378.03	378.82	0.002064	1.52	440.62	427.14	0.42
Klondike River	Reach 1	23750	5_OW_yukon	534.30	376.43	378.57	377.92	378.67	0.002031	1.44	385.42	383.02	0.42
Klondike River	Reach 1	23750	1_OW_klondike	795.70	376.43	378.90	378.20	379.02	0.002126	1.63	527.60	470.15	0.43
Klondike River	Reach 1	23750	1_OW_yukon	719.90	376.43	378.81	378.13	378.93	0.002100	1.58	487.84	460.65	0.43
Klondike River	Reach 1	23750	0p5_OW_klondike	866.90	376.43	378.97	378.26	379.11	0.002137	1.68	564.39	484.67	0.43
Klondike River	Reach 1	23750	0p5_OW_yukon	801.30	376.43	378.90	378.20	379.03	0.002126	1.64	530.60	471.59	0.43
Klondike River	Reach 1	23750	0p5-CC-LC_OW_klo	1213.70	376.43	379.30	378.57	379.46	0.002185	1.86	752.48	682.72	0.43
Klondike River	Reach 1	23750	0p5-CC-LC_OW_yuk	1121.80	376.43	379.22	378.49	379.37	0.002185	1.82	699.26	632.40	0.43
Klondike River	Reach 1	23700	5_OW_klondike	632.40	376.16	378.58	377.87	378.65	0.002311	1.20	606.77	665.59	0.33
Klondike River	Reach 1	23700	5_OW_yukon	534.30	376.16	378.44	377.79	378.50	0.002534	1.18	515.11	628.41	0.34
Klondike River	Reach 1	23700	1_OW_klondike	795.70	376.16	378.78	378.02	378.85	0.002152	1.27	743.77	735.51	0.33
Klondike River	Reach 1	23700	1_OW_yukon	719.90	376.16	378.69	377.91	378.76	0.002187	1.23	681.22	704.82	0.33
Klondike River	Reach 1	23700	0p5_OW_klondike	866.90	376.16	378.86	378.08	378.93	0.002073	1.29	802.98	752.58	0.33
Klondike River	Reach 1	23700	0p5_OW_yukon	801.30	376.16	378.79	378.03	378.86	0.002142	1.27	748.69	736.56	0.33
Klondike River	Reach 1	23700	0p5-CC-LC_OW_klo	1213.70	376.16	379.19	378.35	379.27	0.001827	1.38	1064.29	803.89	0.32
Klondike River	Reach 1	23700	0p5-CC-LC_OW_yuk	1121.80	376.16	379.11	378.30	379.19	0.001874	1.35	998.81	797.62	0.32
Klondike River	Reach 1	23650	5_OW_klondike	632.40	375.97	378.43	377.74	378.49	0.002978	1.21	573.40	625.86	0.36
Klondike River	Reach 1	23650	5_OW_yukon	534.30	375.97	378.27	377.65	378.34	0.003216	1.20	479.47	572.25	0.37
Klondike River	Reach 1	23650	1_OW_klondike	795.70	375.97	378.64	377.87	378.71	0.002579	1.26	714.58	705.03	0.34
Klondike River	Reach 1	23650	1_OW_yukon	719.90	375.97	378.55	377.82	378.61	0.002749	1.24	650.30	673.92	0.35
Klondike River	Reach 1	23650	0p5_OW_klondike	866.90	375.97	378.72	377.93	378.79	0.002457	1.28	775.01	719.60	0.34
Klondike River	Reach 1	23650	0p5_OW_yukon	801.30	375.97	378.65	377.88	378.72	0.002562	1.26	719.78	706.95	0.34
Klondike River	Reach 1	23650	0p5-CC-LC_OW_klo	1213.70	375.97	379.07	378.19	379.15	0.002068	1.35	1038.75	797.01	0.32
Klondike River	Reach 1	23650	0p5-CC-LC_OW_yuk	1121.80	375.97	378.99	378.12	379.06	0.002135	1.33	972.25	774.45	0.32
Klondike River	Reach 1	23600	5_OW_klondike	632.40	375.59	378.32	377.45	378.38	0.001811	1.13	620.34	565.85	0.30
Klondike River	Reach 1	23600	5_OW_yukon	534.30	375.59	378.16	377.37	378.21	0.001917	1.09	533.29	508.71	0.30
Klondike River	Reach 1	23600	1_OW_klondike	795.70	375.59	378.54	377.60	378.60	0.001763	1.20	749.26	617.48	0.30
Klondike River	Reach 1	23600	1_OW_yukon	719.90	375.59	378.44	377.54	378.50	0.001787	1.16	691.31	593.65	0.30
Klondike River	Reach 1	23600	0p5_OW_klondike	866.90	375.59	378.62	377.64	378.69	0.001766	1.24	803.26	646.93	0.30
Klondike River	Reach 1	23600	0p5_OW_yukon	801.30	375.59	378.55	377.60	378.61	0.001769	1.20	753.70	619.61	0.30
Klondike River	Reach 1	23600	0p5-CC-LC_OW_klo	1213.70	375.59	378.98	377.89	379.06	0.001717	1.36	1045.83	719.57	0.31
Klondike River	Reach 1	23600	0p5-CC-LC_OW_yuk	1121.80	375.59	378.89	377.82	378.97	0.001715	1.32	986.24	702.49	0.30
Klondike River	Reach 1	23550	5_OW_klondike	632.40	375.41	378.22	377.39	378.29	0.002057	1.20	586.65	564.67	0.33
Klondike River	Reach 1	23550	5_OW_yukon	534.30	375.41	378.05	377.28	378.12	0.002155	1.15	498.81	497.05	0.33
Klondike River	Reach 1	23550	1_OW_klondike	795.70	375.41	378.44	377.53	378.51	0.001871	1.26	717.37	598.23	0.32
Klondike River	Reach 1	23550	1_OW_yukon	719.90	375.41	378.35	377.46	378.41	0.001931	1.23	659.27	586.54	0.32
Klondike River	Reach 1	23550	0p5_OW_klondike	866.90	375.41	378.53	377.59	378.60	0.001847	1.30	769.09	606.41	0.32
Klondike River	Reach 1	23550	0p5_OW_yukon	801.30	375.41	378.45	377.53	378.52	0.001864	1.26	721.87	598.75	0.32
Klondike River	Reach 1	23550	0p5-CC-LC_OW_klo	1213.70	375.41	378.89	377.83	378.97	0.001747	1.44	992.91	656.54	0.32
Klondike River	Reach 1	23550	0p5-CC-LC_OW_yuk	1121.80	375.41	378.80	377.77	378.89	0.001757	1.40	938.48	640.02	0.32
Klondike River	Reach 1	23500	5_OW_klondike	632.40	375.07	378.13	377.13	378.19	0.001638	1.16	571.90	504.53	0.30
Klondike River	Reach 1	23500	5_OW_yukon	534.30	375.07	377.96	377.00	378.02	0.001736	1.11	490.40	445.35	0.31
Klondike River	Reach 1	23500	1_OW_klondike	795.70	375.07	378.35	377.29	378.42	0.001604	1.25	689.57	526.50	0.31
Klondike River	Reach 1	23500	1_OW_yukon	719.90	375.07	378.25	377.23	378.32	0.001619	1.21	637.99	519.76	0.31
Klondike River	Reach 1	23500	0p5_OW_klondike	866.90	375.07	378.44	377.42	378.52	0.001594	1.29	735.79	543.74	0.31
Klondike River	Reach 1	23500	0p5_OW_yukon	801.30	375.07	378.36	377.33	378.43	0.001601	1.25	693.59	527.39	0.31
Klondike River	Reach 1	23500	0p5-CC-LC_OW_klo	1213.70	375.07	378.79	377.69	378.89	0.001619	1.46	948.65	656.28	0.32
Klondike River	Reach 1	23500	0p5-CC-LC_OW_yuk	1121.80	375.07	378.71	377.64	378.80	0.001592	1.41	895.36	639.65	0.32
Klondike River	Reach 1	23450	5_OW_klondike	632.40	375.14	378.05	376.90	378.13	0.001057	1.25	575.57	490.25	0.32
Klondike River	Reach 1	23450	5_OW_yukon	534.30	375.14	377.88	376.78	377.95	0.001051	1.20	495.91	443.70	0.32
Klondike River	Reach 1	23450	1_OW_klondike	795.70	375.14	378.28	377.12	378.36	0.001076	1.35	693.35	561.53	0.33
Klondike River	Reach 1	23450	1_OW_yukon	719.90	375.14	378.18	377.01	378.26	0.001064	1.31	640.23	528.18	0.32
Klondike River	Reach 1	23450	0p5_OW_klondike	866.90	375.14	378.36	377.21	378.45	0.001096	1.40	741.82	585.54	0.33
Klondike River	Reach 1	23450	0p5_OW_yukon	801.30	375.14	378.29	377.12	378.37	0.001085	1.36	696.99	564.14	0.33
Klondike River	Reach 1	23450	0p5-CC-LC_OW_klo	1213.70	375.14	378.71	377.56	378.82	0.001136	1.56	976.44	733.93	0.34
Klondike River	Reach 1	23450	0p5-CC-LC_OW_yuk	1121.80	375.14	378.63	377.48	378.73	0.001120	1.52	917.60	703.40	0.34
Klondike River	Reach 1	23400	5_OW_klondike	632.40	375.03	377.99	376.86	378.07	0.001170	1.34	522.01	417.00	0.34
Klondike River	Reach 1	23400	5_OW_yukon	534.30	375.03	377.83	376.73	377.90	0.001078	1.27	457.69	357.13	0.32
Klondike River	Reach 1	23400	1_OW_klondike	795.70	375.03	378.21	377.05	378.31	0.001233	1.46	624.85	517.93	0.35
Klondike River	Reach 1	23400	1_OW_yukon	719.90	375.03	378.12	376.96	378.21	0.001222	1.40	577.58	472.28	0.35
Klondike River	Reach 1	23400	0p5_OW_klondike	866.90	375.03	378.29	377.12	378.40	0.001244	1.51	670.16	566.36	0.35
Klondike River	Reach 1	23400	0p5_OW_yukon	801.30	375.03	378.22	377.05	378.31	0.001234	1.46	628.38	524.71	0.35
Klondike River	Reach 1	23400	0p5-CC-LC_OW_klo	1213.70	375.03	378.64	377.48	378.76	0.001299	1.71	893.32	711.16	0.37
Klondike River	Reach 1	23400	0p5-CC-LC_OW_yuk	1121.80	375.03	378.56	377.39	378.68	0.001286	1.66	837.01	682.08	0.37
Klondike River	Reach 1	23300	5_OW_klondike	632.40	374.20	377.83	376.87	377.95	0.001623	1.60	451.23	356.10	0.41
Klondike River	Reach 1	23300	5_OW_yukon	534.30	374.20	377.68	376.71	377.78	0.001603	1.51	396.87	338.80	0.41
Klondike River	Reach 1	23300	1_OW_klondike	795.70	374.20	378.04	377.22	378.18	0.001686	1.76	527.29	394.85	0.43
Klondike River	Reach 1	23300	1_OW_yukon	719.90	374.20	377.95	377.07	378.08	0.001652	1.68	493.18	373.05	0.42
Klondike River	Reach 1	23300	0p5_OW_klondike	866.90	374.20	378.11	377.29	378.26	0.001710	1.82	559.21	427.62	0.44
Klondike River	Reach 1	23300	0p5_OW_yukon	801.30	374.20	378.04	377.24	378.18	0.001688	1.77	529.81	396.60	0.43
Klondike River	Reach 1	23300	0p5-CC-LC_OW_klo	1213.70	374.20	378.43	377.59	378.63	0.001843	2.11	728.70	618.22	0.47

HEC-RAS Plan: OW_AEP (Continued)

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Klondike River	Reach 1	23300	0p5-CC-LC_OW_yuk	1121.80	374.20	378.36	377.50	378.54	0.001815	2.05	683.54	584.49	0.46
Klondike River	Reach 1	23200	5_OW_klondike	632.40	374.25	377.45	377.06	377.70	0.003893	2.26	303.19	319.11	0.63
Klondike River	Reach 1	23200	5_OW_yukon	534.30	374.25	377.31	376.84	377.53	0.003925	2.16	261.00	248.62	0.63
Klondike River	Reach 1	23200	1_OW_klondike	795.70	374.25	377.64	377.25	377.92	0.003825	2.43	371.05	393.29	0.64
Klondike River	Reach 1	23200	1_OW_yukon	719.90	374.25	377.56	377.18	377.82	0.003873	2.35	339.81	358.20	0.64
Klondike River	Reach 1	23200	0p5_OW_klondike	866.90	374.25	377.72	377.34	378.00	0.003786	2.49	401.72	442.09	0.64
Klondike River	Reach 1	23200	0p5_OW_yukon	801.30	374.25	377.65	377.25	377.93	0.003822	2.43	373.39	396.52	0.64
Klondike River	Reach 1	23200	0p5-CC-LC_OW_klo	1213.70	374.25	378.03	377.69	378.36	0.003617	2.75	567.46	606.38	0.64
Klondike River	Reach 1	23200	0p5-CC-LC_OW_yuk	1121.80	374.25	377.95	377.62	378.28	0.003668	2.70	522.29	585.80	0.64
Klondike River	Reach 1	23016	5_OW_klondike	632.40	373.81	376.98		377.13	0.002118	1.82	398.97	362.70	0.47
Klondike River	Reach 1	23016	5_OW_yukon	534.30	373.81	376.83		376.97	0.002111	1.75	351.46	342.84	0.47
Klondike River	Reach 1	23016	1_OW_klondike	795.70	373.81	377.15		377.33	0.002270	2.02	459.55	440.63	0.50
Klondike River	Reach 1	23016	1_OW_yukon	719.90	373.81	377.08		377.24	0.002197	1.93	431.33	408.13	0.49
Klondike River	Reach 1	23016	0p5_OW_klondike	866.90	373.81	377.22		377.41	0.002331	2.10	487.78	508.66	0.51
Klondike River	Reach 1	23016	0p5_OW_yukon	801.30	373.81	377.16		377.34	0.002275	2.03	461.66	445.08	0.50
Klondike River	Reach 1	23016	0p5-CC-LC_OW_klo	1213.70	373.81	377.50		377.74	0.002519	2.41	636.38	605.63	0.54
Klondike River	Reach 1	23016	0p5-CC-LC_OW_yuk	1121.80	373.81	377.43		377.66	0.002482	2.34	598.06	599.13	0.54
Klondike River	Reach 1	22900	5_OW_klondike	632.40	373.42	376.52		376.76	0.004557	2.33	315.00	394.13	0.67
Klondike River	Reach 1	22900	5_OW_yukon	534.30	373.42	376.36		376.61	0.004261	2.37	260.77	324.96	0.66
Klondike River	Reach 1	22900	1_OW_klondike	795.70	373.42	376.71		376.96	0.004309	2.40	384.01	441.17	0.66
Klondike River	Reach 1	22900	1_OW_yukon	719.90	373.42	376.63		376.87	0.004417	2.34	355.21	414.09	0.66
Klondike River	Reach 1	22900	0p5_OW_klondike	866.90	373.42	376.77		377.03	0.004263	2.46	409.20	449.92	0.66
Klondike River	Reach 1	22900	0p5_OW_yukon	801.30	373.42	376.71		376.96	0.004306	2.40	385.98	442.07	0.66
Klondike River	Reach 1	22900	0p5-CC-LC_OW_klo	1213.70	373.42	377.03		377.35	0.004157	2.72	519.92	503.59	0.67
Klondike River	Reach 1	22900	0p5-CC-LC_OW_yuk	1121.80	373.42	376.97		377.27	0.004176	2.66	492.03	480.30	0.67
Klondike River	Reach 1	22750	5_OW_klondike	632.40	372.99	376.07		376.24	0.002746	1.88	340.18	319.12	0.53
Klondike River	Reach 1	22750	5_OW_yukon	534.30	372.99	375.90		376.07	0.002953	1.83	293.85	282.76	0.54
Klondike River	Reach 1	22750	1_OW_klondike	795.70	372.99	376.28		376.48	0.002657	1.98	410.97	382.57	0.53
Klondike River	Reach 1	22750	1_OW_yukon	719.90	372.99	376.19		376.38	0.002695	1.93	379.53	352.48	0.53
Klondike River	Reach 1	22750	0p5_OW_klondike	866.90	372.99	376.36		376.56	0.002606	2.03	439.20	395.76	0.53
Klondike River	Reach 1	22750	0p5_OW_yukon	801.30	372.99	376.29		376.48	0.002655	1.99	413.16	384.47	0.53
Klondike River	Reach 1	22750	0p5-CC-LC_OW_klo	1213.70	372.99	376.65		376.90	0.002569	2.27	561.93	478.85	0.54
Klondike River	Reach 1	22750	0p5-CC-LC_OW_yuk	1121.80	372.99	376.58		376.82	0.002560	2.21	530.96	469.39	0.53
Klondike River	Reach 1	22584	5_OW_klondike	632.40	372.69	375.63		375.87	0.001946	2.22	332.72	329.75	0.48
Klondike River	Reach 1	22584	5_OW_yukon	534.30	372.69	375.46		375.67	0.001967	2.11	283.01	279.36	0.48
Klondike River	Reach 1	22584	1_OW_klondike	795.70	372.69	375.84		376.10	0.002019	2.40	402.85	384.74	0.50
Klondike River	Reach 1	22584	1_OW_yukon	719.90	372.69	375.75		376.00	0.001972	2.32	372.23	367.23	0.49
Klondike River	Reach 1	22584	0p5_OW_klondike	866.90	372.69	375.91		376.19	0.002052	2.47	431.15	400.03	0.51
Klondike River	Reach 1	22584	0p5_OW_yukon	801.30	372.69	375.84		376.11	0.002021	2.41	405.15	385.57	0.50
Klondike River	Reach 1	22584	0p5-CC-LC_OW_klo	1213.70	372.69	376.23		376.55	0.002117	2.73	563.45	484.10	0.52
Klondike River	Reach 1	22584	0p5-CC-LC_OW_yuk	1121.80	372.69	376.16		376.46	0.002097	2.67	530.36	468.64	0.52
Klondike River	Reach 1	22500	5_OW_klondike	632.40	372.35	375.40		375.68	0.002302	2.43	299.38	302.75	0.53
Klondike River	Reach 1	22500	5_OW_yukon	534.30	372.35	375.25		375.50	0.002162	2.25	262.98	226.17	0.51
Klondike River	Reach 1	22500	1_OW_klondike	795.70	372.35	375.54		375.90	0.002747	2.76	342.77	355.87	0.58
Klondike River	Reach 1	22500	1_OW_yukon	719.90	372.35	375.50		375.81	0.002480	2.59	327.54	339.12	0.55
Klondike River	Reach 1	22500	0p5_OW_klondike	866.90	372.35	375.60		375.98	0.002893	2.88	361.60	369.58	0.60
Klondike River	Reach 1	22500	0p5_OW_yukon	801.30	372.35	375.55		375.90	0.002756	2.77	344.40	357.44	0.58
Klondike River	Reach 1	22500	0p5-CC-LC_OW_klo	1213.70	372.35	375.85	375.78	376.31	0.003336	3.29	456.72	451.10	0.65
Klondike River	Reach 1	22500	0p5-CC-LC_OW_yuk	1121.80	372.35	375.79	375.69	376.23	0.003254	3.20	431.65	438.09	0.64
Klondike River	Reach 1	22400	5_OW_klondike	632.40	372.16	375.19	374.50	375.46	0.002058	2.41	310.14	419.09	0.51
Klondike River	Reach 1	22400	5_OW_yukon	534.30	372.16	375.00		375.27	0.002240	2.38	241.63	306.37	0.52
Klondike River	Reach 1	22400	1_OW_klondike	795.70	372.16	375.29	375.01	375.62	0.002517	2.74	351.00	434.19	0.57
Klondike River	Reach 1	22400	1_OW_yukon	719.90	372.16	375.31	374.66	375.57	0.001958	2.43	359.04	437.50	0.50
Klondike River	Reach 1	22400	0p5_OW_klondike	866.90	372.16	375.32	375.26	375.69	0.002758	2.90	363.67	440.78	0.59
Klondike River	Reach 1	22400	0p5_OW_yukon	801.30	372.16	375.30	375.05	375.63	0.002515	2.75	353.41	435.33	0.57
Klondike River	Reach 1	22400	0p5-CC-LC_OW_klo	1213.70	372.16	375.54	375.52	375.98	0.003124	3.26	462.21	513.18	0.64
Klondike River	Reach 1	22400	0p5-CC-LC_OW_yuk	1121.80	372.16	375.49	375.44	375.91	0.003025	3.17	437.32	495.54	0.63
Klondike River	Reach 1	22300	5_OW_klondike	632.40	371.96	374.58	374.55	375.12	0.005259	3.37	214.43	233.24	0.80
Klondike River	Reach 1	22300	5_OW_yukon	534.30	371.96	374.49	374.35	374.94	0.004676	3.07	193.70	209.34	0.75
Klondike River	Reach 1	22300	1_OW_klondike	795.70	371.96	374.96	374.96	375.34	0.003226	2.99	355.58	511.36	0.64
Klondike River	Reach 1	22300	1_OW_yukon	719.90	371.96	374.75	374.75	375.26	0.004650	3.35	261.37	351.54	0.76
Klondike River	Reach 1	22300	0p5_OW_klondike	866.90	371.96	375.05	375.05	375.40	0.002997	2.95	397.54	528.62	0.62
Klondike River	Reach 1	22300	0p5_OW_yukon	801.30	371.96	374.97	374.97	375.34	0.003245	3.00	356.95	512.21	0.65
Klondike River	Reach 1	22300	0p5-CC-LC_OW_klo	1213.70	371.96	375.24	375.24	375.65	0.003320	3.28	499.83	567.76	0.67
Klondike River	Reach 1	22300	0p5-CC-LC_OW_yuk	1121.80	371.96	375.19	375.19	375.59	0.003268	3.21	473.58	558.78	0.66
Klondike River	Reach 1	22200	5_OW_klondike	632.40	371.77	374.49		374.69	0.002038	2.09	332.79	363.44	0.49
Klondike River	Reach 1	22200	5_OW_yukon	534.30	371.77	374.36		374.55	0.002071	2.02	289.47	319.17	0.49
Klondike River	Reach 1	22200	1_OW_klondike	795.70	371.77	374.67	374.31	374.89	0.002068	2.24	400.00	441.52	0.50
Klondike River	Reach 1	22200	1_OW_yukon	719.90	371.77	374.59	374.17	374.80	0.002029	2.16	369.84	392.62	0.49
Klondike River	Reach 1	22200	0p5_OW_klondike	866.90	371.77	374.74	374.39	374.96	0.002108	2.30	428.72	454.37	0.50
Klondike River	Reach 1	22200	0p5_OW_yukon	801.30	371.77	374.68	374.32	374.89	0.002061	2.24	402.76	443.44	0.50
Klondike River	Reach 1	22200	0p5-CC-LC_OW_klo	1213.70	371.77	375.00	374.68	375.27	0.002134	2.50	553.00	512.18	0.51
Klondike River	Reach 1	22200	0p5-CC-LC_OW_yuk	1121.80	371.77	374.94	374.57	375.19	0.002134	2.46	521.11	505.01	0.51
Klondike River	Reach 1	22094	5_OW_klondike	675.00	371.63	374.19		374.38	0.003012	2.02	346.94	409.31	0.56
Klondike River	Reach 1	22094	5_OW_yukon	570.30	371.63	374.06		374.25	0.003061	1.99	298.21	347.71	0.56
Klondike River	Reach 1	22094	1_OW_klondike	853.40	371.63	374.37		374.58	0.002835	2.07	422.94	482.96	0.55
Klondike River	Reach 1	22094	1_OW_yukon	772.20	371.63	374.29		374.49	0.002931	2.04	388.50	441.60	0.55
Klondike River	Reach 1	22094	0p5_OW_klondike	931.80	371.63	374.43		374.65	0.002789	2.11	454.28	511.14	0.55
Klondike River	Reach 1	22094	0p5_OW_yukon	861.20	371.63	374.37		374.58	0.002828	2.07	426.05	486.25	0.55
Klondike River	Reach 1	22094	0p5-CC-LC_OW_klo	1304.50	371.63	374.70		374.95	0.002541	2.25	591.86	553.60	0.54

HEC-RAS Plan: OW_AEP (Continued)

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Klondike River	Reach 1	22094	0p5-CC-LC_OW_yuk	1205.70	371.63	374.63		374.87	0.002566	2.20	557.24	548.61	0.53
Klondike River	Reach 1	22050	5_OW_klondike	675.00	371.32	373.97		374.21	0.004865	2.28	356.67	435.40	0.69
Klondike River	Reach 1	22050	5_OW_yukon	570.30	371.32	373.86		374.08	0.004577	2.18	310.76	377.83	0.66
Klondike River	Reach 1	22050	1_OW_klondike	853.40	371.32	374.12		374.40	0.005083	2.49	425.50	503.06	0.71
Klondike River	Reach 1	22050	1_OW_yukon	772.20	371.32	374.06		374.32	0.005010	2.39	395.29	473.88	0.70
Klondike River	Reach 1	22050	0p5_OW_klondike	931.80	371.32	374.18		374.48	0.005175	2.58	453.34	539.24	0.72
Klondike River	Reach 1	22050	0p5_OW_yukon	861.20	371.32	374.13		374.41	0.005102	2.50	427.90	505.31	0.71
Klondike River	Reach 1	22050	0p5-CC-LC_OW_klo	1304.50	371.32	374.40	374.27	374.78	0.005559	2.94	578.16	613.83	0.77
Klondike River	Reach 1	22050	0p5-CC-LC_OW_yuk	1205.70	371.32	374.35	374.20	374.70	0.005446	2.85	547.99	601.11	0.76
Klondike River	Reach 1	21950	5_OW_klondike	675.00	370.75	373.49		373.69	0.004428	2.04	343.51	502.92	0.64
Klondike River	Reach 1	21950	5_OW_yukon	570.30	370.75	373.37		373.56	0.004737	1.99	292.97	426.40	0.66
Klondike River	Reach 1	21950	1_OW_klondike	853.40	370.75	373.68		373.88	0.003992	2.08	442.19	681.70	0.62
Klondike River	Reach 1	21950	1_OW_yukon	772.20	370.75	373.60		373.79	0.004184	2.06	394.57	600.16	0.63
Klondike River	Reach 1	21950	0p5_OW_klondike	931.80	370.75	373.76		373.95	0.003707	2.05	493.40	742.16	0.60
Klondike River	Reach 1	21950	0p5_OW_yukon	861.20	370.75	373.69		373.89	0.003967	2.08	446.68	687.80	0.62
Klondike River	Reach 1	21950	0p5-CC-LC_OW_klo	1304.50	370.75	374.07		374.26	0.002986	2.08	711.76	880.04	0.56
Klondike River	Reach 1	21950	0p5-CC-LC_OW_yuk	1205.70	370.75	373.99		374.18	0.003215	2.09	651.12	840.88	0.57
Klondike River	Reach 1	21825	5_OW_klondike	675.00	370.87	373.35		373.42	0.001182	1.21	594.80	869.03	0.34
Klondike River	Reach 1	21825	5_OW_yukon	570.30	370.87	373.19		373.26	0.001351	1.20	479.38	716.88	0.36
Klondike River	Reach 1	21825	1_OW_klondike	853.40	370.87	373.57		373.64	0.000994	1.23	784.67	1014.93	0.32
Klondike River	Reach 1	21825	1_OW_yukon	772.20	370.87	373.48		373.54	0.001061	1.22	700.05	967.44	0.33
Klondike River	Reach 1	21825	0p5_OW_klondike	931.80	370.87	373.66		373.73	0.000964	1.26	861.48	1029.09	0.32
Klondike River	Reach 1	21825	0p5_OW_yukon	861.20	370.87	373.58		373.65	0.000988	1.24	792.37	1016.79	0.32
Klondike River	Reach 1	21825	0p5-CC-LC_OW_klo	1304.50	370.87	373.99		374.06	0.000859	1.36	1191.76	1048.22	0.31
Klondike River	Reach 1	21825	0p5-CC-LC_OW_yuk	1205.70	370.87	373.91		373.98	0.000858	1.32	1107.04	1046.22	0.31
Klondike River	Reach 1	21700	5_OW_klondike	675.00	369.78	372.99		373.21	0.002630	2.19	410.25	612.00	0.54
Klondike River	Reach 1	21700	5_OW_yukon	570.30	369.78	372.83		373.04	0.002712	2.09	342.26	482.86	0.54
Klondike River	Reach 1	21700	1_OW_klondike	853.40	369.78	373.21		373.45	0.002570	2.35	535.21	802.40	0.54
Klondike River	Reach 1	21700	1_OW_yukon	772.20	369.78	373.11		373.34	0.002579	2.28	477.57	703.27	0.54
Klondike River	Reach 1	21700	0p5_OW_klondike	931.80	369.78	373.30		373.54	0.002517	2.40	596.43	883.71	0.54
Klondike River	Reach 1	21700	0p5_OW_yukon	861.20	369.78	373.22		373.46	0.002557	2.35	541.92	812.82	0.54
Klondike River	Reach 1	21700	0p5-CC-LC_OW_klo	1304.50	369.78	373.65	373.16	373.90	0.002288	2.55	926.23	1059.20	0.53
Klondike River	Reach 1	21700	0p5-CC-LC_OW_yuk	1205.70	369.78	373.56		373.81	0.002366	2.53	832.58	1048.19	0.54
Klondike River	Reach 1	21600	5_OW_klondike	675.00	369.52	372.62		372.90	0.003333	2.46	357.44	521.47	0.61
Klondike River	Reach 1	21600	5_OW_yukon	570.30	369.52	372.47		372.72	0.003338	2.33	305.77	408.61	0.60
Klondike River	Reach 1	21600	1_OW_klondike	853.40	369.52	372.81	372.45	373.13	0.003477	2.70	449.25	764.40	0.63
Klondike River	Reach 1	21600	1_OW_yukon	772.20	369.52	372.74	372.36	373.03	0.003336	2.57	410.28	669.97	0.61
Klondike River	Reach 1	21600	0p5_OW_klondike	931.80	369.52	372.88	372.54	373.22	0.003600	2.81	489.98	850.63	0.65
Klondike River	Reach 1	21600	0p5_OW_yukon	861.20	369.52	372.82	372.47	373.14	0.003475	2.70	454.56	778.25	0.63
Klondike River	Reach 1	21600	0p5-CC-LC_OW_klo	1304.50	369.52	373.10	372.94	373.55	0.004362	3.32	670.20	1052.08	0.72
Klondike River	Reach 1	21600	0p5-CC-LC_OW_yuk	1205.70	369.52	373.05	372.85	373.47	0.004141	3.19	618.59	1017.99	0.70
Klondike River	Reach 1	21530	5_OW_klondike	675.00	369.79	372.43		372.66	0.002705	2.31	436.35	768.12	0.55
Klondike River	Reach 1	21530	5_OW_yukon	570.30	369.79	372.28		372.49	0.002667	2.16	362.93	527.41	0.54
Klondike River	Reach 1	21530	1_OW_klondike	853.40	369.79	372.63	372.12	372.87	0.002725	2.48	602.10	1021.64	0.56
Klondike River	Reach 1	21530	1_OW_yukon	772.20	369.79	372.54	372.06	372.79	0.002770	2.43	520.90	948.19	0.56
Klondike River	Reach 1	21530	0p5_OW_klondike	931.80	369.79	372.71	372.25	372.95	0.002650	2.52	687.38	1092.83	0.56
Klondike River	Reach 1	21530	0p5_OW_yukon	861.20	369.79	372.64	372.12	372.89	0.002650	2.46	619.85	1041.05	0.56
Klondike River	Reach 1	21530	0p5-CC-LC_OW_klo	1304.50	369.79	372.98		373.23	0.002552	2.68	998.78	1164.91	0.56
Klondike River	Reach 1	21530	0p5-CC-LC_OW_yuk	1205.70	369.79	372.91		373.16	0.002595	2.65	920.45	1158.75	0.56
Klondike River	Reach 1	21450	5_OW_klondike	675.00	368.92	372.30		372.48	0.001732	2.19	559.70	885.42	0.46
Klondike River	Reach 1	21450	5_OW_yukon	570.30	368.92	372.12		372.31	0.001933	2.19	427.37	688.44	0.48
Klondike River	Reach 1	21450	1_OW_klondike	853.40	368.92	372.53		372.70	0.001593	2.23	788.50	1115.40	0.44
Klondike River	Reach 1	21450	1_OW_yukon	772.20	368.92	372.44		372.61	0.001642	2.21	690.29	1027.07	0.45
Klondike River	Reach 1	21450	0p5_OW_klondike	931.80	368.92	372.62		372.78	0.001545	2.25	889.13	1178.17	0.44
Klondike River	Reach 1	21450	0p5_OW_yukon	861.20	368.92	372.54		372.71	0.001579	2.23	806.65	1133.99	0.44
Klondike River	Reach 1	21450	0p5-CC-LC_OW_klo	1304.50	368.92	372.88		373.06	0.001621	2.45	1213.33	1225.19	0.46
Klondike River	Reach 1	21450	0p5-CC-LC_OW_yuk	1205.70	368.92	372.81		372.99	0.001626	2.42	1129.50	1219.84	0.46
Klondike River	Reach 1	21319	5_OW_klondike	675.00	368.49	371.74	371.57	372.15	0.004178	3.13	310.91	450.17	0.70
Klondike River	Reach 1	21319	5_OW_yukon	570.30	368.49	371.63	371.30	371.98	0.003770	2.86	271.55	398.67	0.66
Klondike River	Reach 1	21319	1_OW_klondike	853.40	368.49	371.97	371.86	372.40	0.003997	3.28	409.38	618.70	0.69
Klondike River	Reach 1	21319	1_OW_yukon	772.20	368.49	371.85	371.63	372.29	0.004273	3.28	354.51	499.95	0.71
Klondike River	Reach 1	21319	0p5_OW_klondike	931.80	368.49	372.04	371.97	372.48	0.004100	3.39	453.15	714.54	0.71
Klondike River	Reach 1	21319	0p5_OW_yukon	861.20	368.49	371.97	371.88	372.41	0.004067	3.31	411.77	624.66	0.70
Klondike River	Reach 1	21319	0p5-CC-LC_OW_klo	1304.50	368.49	372.35	372.35	372.78	0.003784	3.54	760.39	1180.09	0.69
Klondike River	Reach 1	21319	0p5-CC-LC_OW_yuk	1205.70	368.49	372.31	372.26	372.72	0.003596	3.41	711.44	1152.63	0.67
Klondike River	Reach 1	21250	5_OW_klondike	675.00	368.22	371.33	371.32	371.81	0.005739	3.41	269.46	358.35	0.81
Klondike River	Reach 1	21250	5_OW_yukon	570.30	368.22	371.21	371.16	371.66	0.005690	3.24	235.09	328.30	0.79
Klondike River	Reach 1	21250	1_OW_klondike	853.40	368.22	371.51	371.50	372.06	0.005949	3.70	325.46	430.60	0.83
Klondike River	Reach 1	21250	1_OW_yukon	772.20	368.22	371.43	371.42	371.95	0.005848	3.57	299.37	394.43	0.82
Klondike River	Reach 1	21250	0p5_OW_klondike	931.80	368.22	371.61	371.61	372.15	0.005625	3.71	364.63	517.38	0.82
Klondike River	Reach 1	21250	0p5_OW_yukon	861.20	368.22	371.51	371.51	372.07	0.006014	3.72	326.57	433.43	0.84
Klondike River	Reach 1	21250	0p5-CC-LC_OW_klo	1304.50	368.22	372.01	372.01	372.50	0.004419	3.70	656.20	1106.28	0.75
Klondike River	Reach 1	21250	0p5-CC-LC_OW_yuk	1205.70	368.22	371.92	371.92	372.43	0.004675	3.71	562.68	984.75	0.76
Klondike River	Reach 1	21200	5_OW_klondike	675.00	368.17	371.35		371.58	0.002747	2.44	395.41	470.15	0.56
Klondike River	Reach 1	21200	5_OW_yukon	570.30	368.17	371.21		371.42	0.002766	2.34	342.65	424.92	0.56
Klondike River	Reach 1	21200	1_OW_klondike	853.40	368.17	371.56		371.81	0.002758	2.61	481.30	553.36	0.57
Klondike River	Reach 1	21200	1_OW_yukon	772.20	368.17	371.46		371.71	0.002789	2.55	440.68	500.57	0.57
Klondike River	Reach 1	21200	0p5_OW_klondike	931.80	368.17	371.64	371.26	371.91	0.002761	2.68	522.49	653.99	0.57
Klondike River	Reach 1	21200	0p5_OW_yukon	861.20	368.17	371.56		371.82	0.002757	2.62	485.26	560.94	0.57
Klondike River	Reach 1	21200	0p5-CC-LC_OW_klo	1304.50	368.17	371.95	371.56	372.26	0.002897	2.98	786.07	1140.88	0.60

HEC-RAS Plan: OW_AEP (Continued)

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Klondike River	Reach 1	21200	0p5-CC-LC_OW_yuk	1205.70	368.17	371.88	371.51	372.18	0.002869	2.91	707.89	1068.69	0.59
Klondike River	Reach 1	21150	5_OW_klondike	675.00	368.09	371.22		371.45	0.003017	2.38	385.34	451.82	0.58
Klondike River	Reach 1	21150	5_OW_yukon	570.30	368.09	371.08		371.29	0.003067	2.27	334.68	413.99	0.58
Klondike River	Reach 1	21150	1_OW_klondike	853.40	368.09	371.43		371.68	0.002915	2.53	472.97	570.30	0.58
Klondike River	Reach 1	21150	1_OW_yukon	772.20	368.09	371.34		371.58	0.002985	2.47	430.43	485.26	0.58
Klondike River	Reach 1	21150	0p5_OW_klondike	931.80	368.09	371.52		371.77	0.002889	2.59	518.63	679.69	0.58
Klondike River	Reach 1	21150	0p5_OW_yukon	861.20	368.09	371.44		371.69	0.002910	2.53	477.32	581.36	0.58
Klondike River	Reach 1	21150	0p5-CC-LC_OW_klo	1304.50	368.09	371.85	371.43	372.12	0.002765	2.80	815.23	1174.17	0.58
Klondike River	Reach 1	21150	0p5-CC-LC_OW_yuk	1205.70	368.09	371.77	371.36	372.04	0.002852	2.78	724.24	1096.37	0.59
Klondike River	Reach 1	21100	5_OW_klondike	675.00	368.03	371.12	370.58	371.31	0.002151	2.35	438.11	509.52	0.51
Klondike River	Reach 1	21100	5_OW_yukon	570.30	368.03	370.97	370.45	371.15	0.002177	2.25	377.64	450.57	0.51
Klondike River	Reach 1	21100	1_OW_klondike	853.40	368.03	371.34	370.78	371.55	0.002176	2.51	544.34	648.76	0.52
Klondike River	Reach 1	21100	1_OW_yukon	772.20	368.03	371.24	370.69	371.44	0.002151	2.43	493.94	565.27	0.51
Klondike River	Reach 1	21100	0p5_OW_klondike	931.80	368.03	371.42	370.79	371.64	0.002214	2.60	595.82	780.21	0.53
Klondike River	Reach 1	21100	0p5_OW_yukon	861.20	368.03	371.35	370.78	371.56	0.002175	2.52	549.45	656.95	0.52
Klondike River	Reach 1	21100	0p5-CC-LC_OW_klo	1304.50	368.03	371.81	371.26	371.99	0.001766	2.55	1038.24	1140.69	0.48
Klondike River	Reach 1	21100	0p5-CC-LC_OW_yuk	1205.70	368.03	371.73	371.19	371.91	0.001780	2.51	949.40	1103.39	0.48
Klondike River	Reach 1	21050	5_OW_klondike	675.00	367.97	370.86		371.15	0.003280	2.78	364.50	458.55	0.62
Klondike River	Reach 1	21050	5_OW_yukon	570.30	367.97	370.72		371.00	0.003238	2.64	312.05	415.31	0.61
Klondike River	Reach 1	21050	1_OW_klondike	853.40	367.97	371.04		371.38	0.003478	3.04	442.48	530.01	0.65
Klondike River	Reach 1	21050	1_OW_yukon	772.20	367.97	370.96		371.28	0.003356	2.91	407.90	498.74	0.63
Klondike River	Reach 1	21050	0p5_OW_klondike	931.80	367.97	371.12		371.47	0.003482	3.11	480.16	589.77	0.65
Klondike River	Reach 1	21050	0p5_OW_yukon	861.20	367.97	371.05		371.39	0.003478	3.04	446.27	534.04	0.65
Klondike River	Reach 1	21050	0p5-CC-LC_OW_klo	1304.50	367.97	371.41	371.23	371.82	0.003757	3.49	664.15	888.91	0.69
Klondike River	Reach 1	21050	0p5-CC-LC_OW_yuk	1205.70	367.97	371.33	371.14	371.74	0.003779	3.44	599.95	800.91	0.69
Klondike River	Reach 1	21000	5_OW_klondike	675.00	367.91	370.77		370.95	0.002355	2.16	458.85	567.81	0.52
Klondike River	Reach 1	21000	5_OW_yukon	570.30	367.91	370.64		370.80	0.002252	2.02	397.55	520.38	0.50
Klondike River	Reach 1	21000	1_OW_klondike	853.40	367.91	370.93		371.16	0.002686	2.44	545.48	664.26	0.56
Klondike River	Reach 1	21000	1_OW_yukon	772.20	367.91	370.86		371.07	0.002521	2.31	507.12	606.42	0.54
Klondike River	Reach 1	21000	0p5_OW_klondike	931.80	367.91	370.99		371.25	0.002871	2.57	584.60	716.28	0.58
Klondike River	Reach 1	21000	0p5_OW_yukon	861.20	367.91	370.94		371.17	0.002710	2.46	549.15	672.09	0.56
Klondike River	Reach 1	21000	0p5-CC-LC_OW_klo	1304.50	367.91	371.24	370.84	371.56	0.003381	3.01	775.67	960.15	0.64
Klondike River	Reach 1	21000	0p5-CC-LC_OW_yuk	1205.70	367.91	371.18		371.49	0.003197	2.88	725.58	906.93	0.62
Klondike River	Reach 1	20950	5_OW_klondike	675.00	367.85	370.74		370.84	0.001514	1.78	612.43	761.03	0.42
Klondike River	Reach 1	20950	5_OW_yukon	570.30	367.85	370.60		370.70	0.001469	1.67	524.09	615.70	0.41
Klondike River	Reach 1	20950	1_OW_klondike	853.40	367.85	370.91		371.03	0.001654	1.98	745.97	897.29	0.44
Klondike River	Reach 1	20950	1_OW_yukon	772.20	367.85	370.83		370.95	0.001595	1.89	686.16	837.93	0.43
Klondike River	Reach 1	20950	0p5_OW_klondike	931.80	367.85	370.97		371.10	0.001716	2.06	802.65	954.10	0.45
Klondike River	Reach 1	20950	0p5_OW_yukon	861.20	367.85	370.91		371.04	0.001658	1.98	751.96	901.96	0.44
Klondike River	Reach 1	20950	0p5-CC-LC_OW_klo	1304.50	367.85	371.23		371.39	0.002026	2.41	1072.00	1196.89	0.50
Klondike River	Reach 1	20950	0p5-CC-LC_OW_yuk	1205.70	367.85	371.16		371.33	0.002000	2.35	999.56	1133.42	0.50
Klondike River	Reach 1	20892	5_OW_klondike	675.00	367.84	370.58		370.74	0.002449	2.16	549.62	770.64	0.52
Klondike River	Reach 1	20892	5_OW_yukon	570.30	367.84	370.46		370.60	0.002347	2.02	463.68	653.50	0.51
Klondike River	Reach 1	20892	1_OW_klondike	853.40	367.84	370.76		370.92	0.002466	2.31	685.85	882.00	0.53
Klondike River	Reach 1	20892	1_OW_yukon	772.20	367.84	370.68		370.84	0.002461	2.25	624.64	827.57	0.53
Klondike River	Reach 1	20892	0p5_OW_klondike	931.80	367.84	370.83		371.00	0.002495	2.38	742.70	938.16	0.54
Klondike River	Reach 1	20892	0p5_OW_yukon	861.20	367.84	370.77		370.93	0.002461	2.31	692.33	888.04	0.53
Klondike River	Reach 1	20892	0p5-CC-LC_OW_klo	1304.50	367.84	371.09		371.28	0.002583	2.63	1013.14	1197.23	0.56
Klondike River	Reach 1	20892	0p5-CC-LC_OW_yuk	1205.70	367.84	371.02		371.21	0.002591	2.58	938.15	1132.29	0.56
Klondike River	Reach 1	20850	5_OW_klondike	675.00	367.74	370.53		370.65	0.002240	1.99	596.28	766.78	0.50
Klondike River	Reach 1	20850	5_OW_yukon	570.30	367.74	370.39		370.51	0.002307	1.91	506.32	665.27	0.50
Klondike River	Reach 1	20850	1_OW_klondike	853.40	367.74	370.70		370.83	0.002291	2.15	734.83	932.47	0.51
Klondike River	Reach 1	20850	1_OW_yukon	772.20	367.74	370.62		370.75	0.002281	2.09	670.92	850.70	0.51
Klondike River	Reach 1	20850	0p5_OW_klondike	931.80	367.74	370.76		370.90	0.002343	2.23	794.60	1017.68	0.52
Klondike River	Reach 1	20850	0p5_OW_yukon	861.20	367.74	370.71		370.84	0.002286	2.16	741.89	943.80	0.51
Klondike River	Reach 1	20850	0p5-CC-LC_OW_klo	1304.50	367.74	371.03		371.18	0.002400	2.46	1089.95	1263.33	0.54
Klondike River	Reach 1	20850	0p5-CC-LC_OW_yuk	1205.70	367.74	370.96		371.12	0.002411	2.42	1009.00	1220.84	0.54
Klondike River	Reach 1	20800	5_OW_klondike	675.00	367.71	370.32		370.53	0.003407	2.55	459.98	659.93	0.62
Klondike River	Reach 1	20800	5_OW_yukon	570.30	367.71	370.19		370.39	0.003383	2.42	383.51	577.23	0.61
Klondike River	Reach 1	20800	1_OW_klondike	853.40	367.71	370.50		370.72	0.003353	2.70	586.02	826.29	0.62
Klondike River	Reach 1	20800	1_OW_yukon	772.20	367.71	370.42		370.64	0.003379	2.64	527.44	741.72	0.62
Klondike River	Reach 1	20800	0p5_OW_klondike	931.80	367.71	370.57		370.80	0.003311	2.75	644.56	909.50	0.62
Klondike River	Reach 1	20800	0p5_OW_yukon	861.20	367.71	370.50		370.73	0.003366	2.71	591.26	833.35	0.62
Klondike River	Reach 1	20800	0p5-CC-LC_OW_klo	1304.50	367.71	370.85		371.08	0.003168	2.94	925.29	1178.70	0.62
Klondike River	Reach 1	20800	0p5-CC-LC_OW_yuk	1205.70	367.71	370.78		371.02	0.003200	2.89	847.47	1111.83	0.62
Klondike River	Reach 1	20750	5_OW_klondike	675.00	367.67	370.27		370.39	0.002532	2.11	593.51	723.90	0.53
Klondike River	Reach 1	20750	5_OW_yukon	570.30	367.67	370.13		370.25	0.002611	2.02	505.04	615.39	0.53
Klondike River	Reach 1	20750	1_OW_klondike	853.40	367.67	370.45		370.59	0.002465	2.23	738.81	887.26	0.53
Klondike River	Reach 1	20750	1_OW_yukon	772.20	367.67	370.37		370.50	0.002505	2.18	671.79	818.05	0.53
Klondike River	Reach 1	20750	0p5_OW_klondike	931.80	367.67	370.53		370.66	0.002451	2.28	801.09	938.18	0.53
Klondike River	Reach 1	20750	0p5_OW_yukon	861.20	367.67	370.46		370.59	0.002461	2.24	745.02	894.01	0.53
Klondike River	Reach 1	20750	0p5-CC-LC_OW_klo	1304.50	367.67	370.81		370.96	0.002483	2.52	1081.01	1180.23	0.55
Klondike River	Reach 1	20750	0p5-CC-LC_OW_yuk	1205.70	367.67	370.74		370.89	0.002496	2.47	1002.04	1139.05	0.55
Klondike River	Reach 1	20700	5_OW_klondike	675.00	367.63	370.15		370.31	0.002866	2.29	538.53	650.16	0.56
Klondike River	Reach 1	20700	5_OW_yukon	570.30	367.63	370.01		370.16	0.003099	2.24	451.54	560.30	0.58
Klondike River	Reach 1	20700	1_OW_klondike	853.40	367.63	370.34		370.50	0.002822	2.44	672.96	820.69	0.57
Klondike River	Reach 1	20700	1_OW_yukon	772.20	367.63	370.26		370.42	0.002790	2.36	612.85	753.85	0.56
Klondike River	Reach 1	20700	0p5_OW_klondike	931.80	367.63	370.41		370.58	0.002826	2.50	731.69	877.27	0.57
Klondike River	Reach 1	20700	0p5_OW_yukon	861.20	367.63	370.35		370.51	0.002814	2.44	679.24	826.72	0.57
Klondike River	Reach 1	20700	0p5-CC-LC_OW_klo	1304.50	367.63	370.70		370.88	0.002779	2.72	1001.95	1173.06	0.58

HEC-RAS Plan: OW_AEP (Continued)

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Klondike River	Reach 1	20700	0p5-CC-LC_OW_yuk	1205.70	367.63	370.63		370.81	0.002768	2.66	931.67	1107.14	0.58
Klondike River	Reach 1	20650	5_OW_klondike	675.00	367.50	370.06		370.22	0.002748	2.27	482.51	577.58	0.55
Klondike River	Reach 1	20650	5_OW_yukon	570.30	367.50	369.92		370.06	0.002791	2.16	409.32	473.41	0.55
Klondike River	Reach 1	20650	1_OW_klondike	853.40	367.50	370.24		370.42	0.002827	2.46	601.73	773.27	0.57
Klondike River	Reach 1	20650	1_OW_yukon	772.20	367.50	370.17		370.33	0.002781	2.37	547.11	685.30	0.56
Klondike River	Reach 1	20650	0p5_OW_klondike	931.80	367.50	370.31		370.50	0.002899	2.55	653.70	858.07	0.58
Klondike River	Reach 1	20650	0p5_OW_yukon	861.20	367.50	370.25		370.43	0.002834	2.47	606.96	780.78	0.57
Klondike River	Reach 1	20650	0p5-CC-LC_OW_klo	1304.50	367.50	370.59		370.80	0.003023	2.84	917.36	1171.48	0.61
Klondike River	Reach 1	20650	0p5-CC-LC_OW_yuk	1205.70	367.50	370.52		370.72	0.003011	2.78	845.43	1093.07	0.60
Klondike River	Reach 1	20600	5_OW_klondike	675.00	367.38	369.98		370.11	0.002322	1.91	488.55	604.02	0.48
Klondike River	Reach 1	20600	5_OW_yukon	570.30	367.38	369.83		369.96	0.002414	1.85	410.71	491.90	0.48
Klondike River	Reach 1	20600	1_OW_klondike	853.40	367.38	370.16		370.31	0.002409	2.09	606.63	796.32	0.50
Klondike River	Reach 1	20600	1_OW_yukon	772.20	367.38	370.09		370.23	0.002357	2.01	552.75	706.78	0.49
Klondike River	Reach 1	20600	0p5_OW_klondike	931.80	367.38	370.23		370.39	0.002481	2.17	658.23	900.38	0.51
Klondike River	Reach 1	20600	0p5_OW_yukon	861.20	367.38	370.17		370.32	0.002415	2.10	611.78	805.94	0.50
Klondike River	Reach 1	20600	0p5-CC-LC_OW_klo	1304.50	367.38	370.49		370.68	0.002815	2.52	916.70	1208.67	0.55
Klondike River	Reach 1	20600	0p5-CC-LC_OW_yuk	1205.70	367.38	370.42		370.61	0.002781	2.45	844.18	1139.16	0.54
Klondike River	Reach 1	20550	5_OW_klondike	675.00	367.25	369.77		369.98	0.002998	2.36	490.36	704.29	0.58
Klondike River	Reach 1	20550	5_OW_yukon	570.30	367.25	369.64		369.82	0.002896	2.20	407.37	570.38	0.56
Klondike River	Reach 1	20550	1_OW_klondike	853.40	367.25	369.96	369.54	370.18	0.002910	2.49	628.42	858.13	0.58
Klondike River	Reach 1	20550	1_OW_yukon	772.20	367.25	369.89	369.44	370.10	0.002918	2.43	568.58	786.52	0.58
Klondike River	Reach 1	20550	0p5_OW_klondike	931.80	367.25	370.03	369.64	370.25	0.002928	2.56	683.37	950.64	0.58
Klondike River	Reach 1	20550	0p5_OW_yukon	861.20	367.25	369.97	369.60	370.19	0.002906	2.50	634.42	865.41	0.58
Klondike River	Reach 1	20550	0p5-CC-LC_OW_klo	1304.50	367.25	370.29	370.00	370.54	0.003061	2.84	951.88	1229.63	0.61
Klondike River	Reach 1	20550	0p5-CC-LC_OW_yuk	1205.70	367.25	370.22	369.73	370.47	0.003029	2.77	879.70	1161.99	0.60
Klondike River	Reach 1	20400	5_OW_klondike	675.00	366.84	369.04	368.72	369.37	0.006534	3.03	321.52	473.69	0.82
Klondike River	Reach 1	20400	5_OW_yukon	570.30	366.84	368.93	368.72	369.23	0.006420	2.85	275.29	392.91	0.81
Klondike River	Reach 1	20400	1_OW_klondike	853.40	366.84	369.19	369.12	369.56	0.006872	3.33	401.15	611.28	0.86
Klondike River	Reach 1	20400	1_OW_yukon	772.20	366.84	369.12	369.00	369.48	0.006803	3.22	363.67	553.95	0.85
Klondike River	Reach 1	20400	0p5_OW_klondike	931.80	366.84	369.25	369.22	369.64	0.006785	3.40	443.80	694.38	0.86
Klondike River	Reach 1	20400	0p5_OW_yukon	861.20	366.84	369.19	369.13	369.57	0.006881	3.34	404.86	620.78	0.86
Klondike River	Reach 1	20400	0p5-CC-LC_OW_klo	1304.50	366.84	369.51	369.49	369.92	0.006583	3.70	648.90	925.64	0.87
Klondike River	Reach 1	20400	0p5-CC-LC_OW_yuk	1205.70	366.84	369.45	369.40	369.85	0.006586	3.62	596.18	876.79	0.86
Klondike River	Reach 1	20221	5_OW_klondike	675.00	365.65	368.55		368.61	0.002026	1.37	666.97	882.75	0.38
Klondike River	Reach 1	20221	5_OW_yukon	570.30	365.65	368.42		368.49	0.002027	1.31	568.14	764.54	0.38
Klondike River	Reach 1	20221	1_OW_klondike	853.40	365.65	368.71		368.78	0.002029	1.47	818.81	1031.50	0.39
Klondike River	Reach 1	20221	1_OW_yukon	772.20	365.65	368.64		368.71	0.002019	1.42	750.47	965.66	0.38
Klondike River	Reach 1	20221	0p5_OW_klondike	931.80	365.65	368.77		368.85	0.002062	1.52	883.60	1064.86	0.39
Klondike River	Reach 1	20221	0p5_OW_yukon	861.20	365.65	368.71		368.79	0.002032	1.47	824.63	1035.28	0.39
Klondike River	Reach 1	20221	0p5-CC-LC_OW_klo	1304.50	365.65	369.02		369.10	0.002163	1.64	1152.99	1190.54	0.40
Klondike River	Reach 1	20221	0p5-CC-LC_OW_yuk	1205.70	365.65	368.96		369.04	0.002142	1.60	1088.02	1157.90	0.40
Klondike River	Reach 1	19763	5_OW_klondike	675.00	364.71	367.49		367.54	0.003142	1.09	695.30	918.29	0.34
Klondike River	Reach 1	19763	5_OW_yukon	570.30	364.71	367.36		367.41	0.003117	1.11	585.88	802.25	0.35
Klondike River	Reach 1	19763	1_OW_klondike	853.40	364.71	367.65		367.70	0.003175	1.12	858.60	1121.31	0.34
Klondike River	Reach 1	19763	1_OW_yukon	772.20	364.71	367.58		367.63	0.003171	1.10	785.26	1029.99	0.34
Klondike River	Reach 1	19763	0p5_OW_klondike	931.80	364.71	367.70		367.76	0.003207	1.15	919.85	1170.93	0.34
Klondike River	Reach 1	19763	0p5_OW_yukon	861.20	364.71	367.65		367.71	0.003179	1.12	864.71	1125.92	0.34
Klondike River	Reach 1	19763	0p5-CC-LC_OW_klo	1304.50	364.71	367.92		367.99	0.003265	1.29	1178.54	1229.28	0.36
Klondike River	Reach 1	19763	0p5-CC-LC_OW_yuk	1205.70	364.71	367.87		367.93	0.003249	1.25	1116.23	1221.61	0.35
Klondike River	Reach 1	19335	5_OW_klondike	675.00	363.23	366.21	365.52	366.33	0.003458	1.67	564.28	819.12	0.44
Klondike River	Reach 1	19335	5_OW_yukon	570.30	363.23	366.09	365.34	366.20	0.003246	1.64	469.65	681.28	0.44
Klondike River	Reach 1	19335	1_OW_klondike	853.40	363.23	366.38	365.87	366.50	0.003618	1.72	717.65	977.01	0.44
Klondike River	Reach 1	19335	1_OW_yukon	772.20	363.23	366.30	365.70	366.42	0.003533	1.72	644.27	910.38	0.45
Klondike River	Reach 1	19335	0p5_OW_klondike	931.80	363.23	366.44	366.04	366.56	0.003614	1.77	775.70	1012.55	0.45
Klondike River	Reach 1	19335	0p5_OW_yukon	861.20	363.23	366.39	365.88	366.50	0.003615	1.73	723.88	981.33	0.44
Klondike River	Reach 1	19335	0p5-CC-LC_OW_klo	1304.50	363.23	366.68	366.29	366.81	0.003620	1.94	1030.36	1070.80	0.46
Klondike River	Reach 1	19335	0p5-CC-LC_OW_yuk	1205.70	363.23	366.62	366.21	366.75	0.003624	1.90	967.10	1068.53	0.46
Klondike River	Reach 1	19009	5_OW_klondike	675.00	362.65	365.37	364.89	365.45	0.002215	1.22	600.04	912.10	0.42
Klondike River	Reach 1	19009	5_OW_yukon	570.30	362.65	365.27	364.79	365.34	0.002194	1.17	516.02	785.85	0.42
Klondike River	Reach 1	19009	1_OW_klondike	853.40	362.65	365.52	365.02	365.60	0.002268	1.29	742.92	1083.08	0.42
Klondike River	Reach 1	19009	1_OW_yukon	772.20	362.65	365.45	364.97	365.53	0.002244	1.26	678.27	1018.48	0.42
Klondike River	Reach 1	19009	0p5_OW_klondike	931.80	362.65	365.57	365.09	365.65	0.002297	1.32	802.17	1121.52	0.42
Klondike River	Reach 1	19009	0p5_OW_yukon	861.20	362.65	365.52	365.03	365.60	0.002272	1.29	748.65	1087.29	0.42
Klondike River	Reach 1	19009	0p5-CC-LC_OW_klo	1304.50	362.65	365.79	365.28	365.89	0.002418	1.46	1061.28	1218.45	0.43
Klondike River	Reach 1	19009	0p5-CC-LC_OW_yuk	1205.70	362.65	365.74	365.23	365.83	0.002394	1.42	995.77	1192.59	0.42
Klondike River	Reach 1	18575	5_OW_klondike	675.00	361.28	364.12	363.61	364.18	0.003996	1.12	656.47	991.80	0.38
Klondike River	Reach 1	18575	5_OW_yukon	570.30	361.28	364.03	363.51	364.08	0.004000	1.07	570.34	897.79	0.38
Klondike River	Reach 1	18575	1_OW_klondike	853.40	361.28	364.26	363.74	364.32	0.003906	1.20	799.67	1133.06	0.39
Klondike River	Reach 1	18575	1_OW_yukon	772.20	361.28	364.20	363.69	364.26	0.003960	1.16	734.32	1076.13	0.39
Klondike River	Reach 1	18575	0p5_OW_klondike	931.80	361.28	364.31	363.79	364.38	0.003856	1.23	858.38	1174.35	0.39
Klondike River	Reach 1	18575	0p5_OW_yukon	861.20	361.28	364.26	363.75	364.33	0.003900	1.20	805.58	1137.56	0.39
Klondike River	Reach 1	18575	0p5-CC-LC_OW_klo	1304.50	361.28	364.53	363.99	364.62	0.003593	1.35	1133.60	1292.98	0.39
Klondike River	Reach 1	18575	0p5-CC-LC_OW_yuk	1205.70	361.28	364.48	363.94	364.56	0.003630	1.32	1066.12	1278.95	0.38
Klondike River	Reach 1	18123	5_OW_klondike	675.00	359.94	362.90	362.25	362.96	0.002048	1.09	645.47	847.82	0.39
Klondike River	Reach 1	18123	5_OW_yukon	570.30	359.94	362.77	362.15	362.83	0.002109	1.09	543.64	786.18	0.40
Klondike River	Reach 1	18123	1_OW_klondike	853.40	359.94	363.06	362.45	363.13	0.002018	1.13	793.01	923.01	0.37
Klondike River	Reach 1	18123	1_OW_yukon	772.20	359.94	362.99	362.34	363.05	0.002029	1.11	726.54	880.81	0.38
Klondike River	Reach 1	18123	0p5_OW_klondike	931.80	359.94	363.13	362.51	363.19	0.002011	1.15	854.63	966.05	0.37
Klondike River	Reach 1	18123	0p5_OW_yukon	861.20	359.94	363.07	362.45	363.13	0.002018	1.14	799.11	926.87	0.37
Klondike River	Reach 1	18123	0p5-CC-LC_OW_klo	1304.50	359.94	363.39	362.73	363.47	0.002046	1.25	1139.96	1199.02	0.37

HEC-RAS Plan: OW_AEP (Continued)

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Klondike River	Reach 1	18123	0p5-CC-LC_OW_yuk	1205.70	359.94	363.33	362.68	363.40	0.002041	1.23	1067.08	1149.92	0.37
Klondike River	Reach 1	18000	5_OW_klondike	675.00	359.48	362.68	361.90	362.73	0.001664	0.91	768.50	882.58	0.29
Klondike River	Reach 1	18000	5_OW_yukon	570.30	359.48	362.56	361.82	362.60	0.001682	0.88	662.21	780.45	0.30
Klondike River	Reach 1	18000	1_OW_klondike	853.40	359.48	362.85	362.01	362.90	0.001689	0.97	923.94	995.50	0.30
Klondike River	Reach 1	18000	1_OW_yukon	772.20	359.48	362.78	361.96	362.82	0.001674	0.94	853.91	936.56	0.29
Klondike River	Reach 1	18000	0p5_OW_klondike	931.80	359.48	362.92	362.06	362.96	0.001708	0.99	988.93	1042.79	0.30
Klondike River	Reach 1	18000	0p5_OW_yukon	861.20	359.48	362.86	362.02	362.90	0.001691	0.97	930.39	1000.35	0.30
Klondike River	Reach 1	18000	0p5-CC-LC_OW_klo	1304.50	359.48	363.18	362.27	363.24	0.001739	1.10	1285.16	1246.78	0.31
Klondike River	Reach 1	18000	0p5-CC-LC_OW_yuk	1205.70	359.48	363.12	362.22	363.17	0.001713	1.07	1212.28	1205.42	0.31
Klondike River	Reach 1	17900	5_OW_klondike	675.00	359.13	362.40	361.73	362.46	0.004937	1.07	636.18	800.30	0.38
Klondike River	Reach 1	17900	5_OW_yukon	570.30	359.13	362.28	361.63	362.33	0.004758	1.06	542.20	682.93	0.38
Klondike River	Reach 1	17900	1_OW_klondike	853.40	359.13	362.57	361.89	362.63	0.004876	1.11	782.49	939.18	0.38
Klondike River	Reach 1	17900	1_OW_yukon	772.20	359.13	362.50	361.82	362.56	0.004950	1.09	715.33	882.46	0.38
Klondike River	Reach 1	17900	0p5_OW_klondike	931.80	359.13	362.64	361.94	362.70	0.004721	1.13	846.74	980.02	0.37
Klondike River	Reach 1	17900	0p5_OW_yukon	861.20	359.13	362.58	361.89	362.64	0.004855	1.12	788.97	943.01	0.37
Klondike River	Reach 1	17900	0p5-CC-LC_OW_klo	1304.50	359.13	362.90	362.17	362.97	0.004653	1.21	1130.06	1182.57	0.37
Klondike River	Reach 1	17900	0p5-CC-LC_OW_yuk	1205.70	359.13	362.84	362.11	362.91	0.004672	1.19	1062.72	1148.02	0.37
Klondike River	Reach 1	17850	5_OW_klondike	675.00	359.03	362.24	361.55	362.31	0.002120	1.15	619.80	823.07	0.41
Klondike River	Reach 1	17850	5_OW_yukon	570.30	359.03	362.12	361.45	362.18	0.002042	1.14	527.44	672.41	0.40
Klondike River	Reach 1	17850	1_OW_klondike	853.40	359.03	362.40	361.72	362.47	0.002246	1.20	759.95	926.07	0.41
Klondike River	Reach 1	17850	1_OW_yukon	772.20	359.03	362.33	361.65	362.40	0.002189	1.18	696.10	876.04	0.41
Klondike River	Reach 1	17850	0p5_OW_klondike	931.80	359.03	362.47	361.79	362.54	0.002339	1.21	821.88	994.43	0.40
Klondike River	Reach 1	17850	0p5_OW_yukon	861.20	359.03	362.41	361.73	362.48	0.002254	1.20	766.21	930.92	0.41
Klondike River	Reach 1	17850	0p5-CC-LC_OW_klo	1304.50	359.03	362.72	362.04	362.81	0.002492	1.30	1092.66	1163.91	0.40
Klondike River	Reach 1	17850	0p5-CC-LC_OW_yuk	1205.70	359.03	362.67	361.98	362.74	0.002460	1.27	1027.77	1136.85	0.40
Klondike River	Reach 1	17800	5_OW_klondike	675.00	358.89	362.11	361.39	362.16	0.004046	0.96	698.51	866.31	0.33
Klondike River	Reach 1	17800	5_OW_yukon	570.30	358.89	362.00	361.30	362.04	0.003995	0.93	604.19	752.69	0.33
Klondike River	Reach 1	17800	1_OW_klondike	853.40	358.89	362.27	361.55	362.32	0.003910	1.02	844.27	962.56	0.33
Klondike River	Reach 1	17800	1_OW_yukon	772.20	358.89	362.20	361.49	362.25	0.003993	0.99	777.36	922.18	0.34
Klondike River	Reach 1	17800	0p5_OW_klondike	931.80	358.89	362.33	361.61	362.39	0.003864	1.04	904.85	995.32	0.33
Klondike River	Reach 1	17800	0p5_OW_yukon	861.20	358.89	362.28	361.56	362.33	0.003902	1.02	850.57	965.69	0.33
Klondike River	Reach 1	17800	0p5-CC-LC_OW_klo	1304.50	358.89	362.58	361.81	362.64	0.004283	1.17	1161.47	1146.58	0.35
Klondike River	Reach 1	17800	0p5-CC-LC_OW_yuk	1205.70	358.89	362.52	361.76	362.58	0.004203	1.15	1099.74	1111.63	0.35
Klondike River	Reach 1	17750	5_OW_klondike	675.00	358.73	361.76	361.33	361.86	0.009684	1.38	483.24	666.69	0.51
Klondike River	Reach 1	17750	5_OW_yukon	570.30	358.73	361.64	361.22	361.74	0.009742	1.38	410.92	570.95	0.51
Klondike River	Reach 1	17750	1_OW_klondike	853.40	358.73	361.93	361.49	362.03	0.009296	1.39	610.79	800.28	0.50
Klondike River	Reach 1	17750	1_OW_yukon	772.20	358.73	361.85	361.45	361.95	0.009471	1.40	550.02	735.21	0.50
Klondike River	Reach 1	17750	0p5_OW_klondike	931.80	358.73	362.00	361.54	362.10	0.009179	1.39	666.93	857.81	0.49
Klondike River	Reach 1	17750	0p5_OW_yukon	861.20	358.73	361.94	361.50	362.04	0.009280	1.39	616.71	807.03	0.50
Klondike River	Reach 1	17750	0p5-CC-LC_OW_klo	1304.50	358.73	362.24	361.76	362.35	0.008286	1.46	892.27	1004.62	0.48
Klondike River	Reach 1	17750	0p5-CC-LC_OW_yuk	1205.70	358.73	362.18	361.71	362.29	0.008510	1.44	837.80	981.27	0.48
Klondike River	Reach 1	17700	5_OW_klondike	675.00	358.58	361.44	361.10	361.56	0.003947	1.58	435.67	613.34	0.59
Klondike River	Reach 1	17700	5_OW_yukon	570.30	358.58	361.31	360.99	361.44	0.003977	1.59	366.44	539.99	0.61
Klondike River	Reach 1	17700	1_OW_klondike	853.40	358.58	361.62	361.27	361.74	0.003973	1.55	562.41	778.90	0.57
Klondike River	Reach 1	17700	1_OW_yukon	772.20	358.58	361.54	361.21	361.66	0.003907	1.57	502.67	696.50	0.58
Klondike River	Reach 1	17700	0p5_OW_klondike	931.80	358.58	361.69	361.32	361.81	0.003945	1.54	621.56	855.31	0.56
Klondike River	Reach 1	17700	0p5_OW_yukon	861.20	358.58	361.63	361.27	361.75	0.003968	1.55	568.92	788.97	0.57
Klondike River	Reach 1	17700	0p5-CC-LC_OW_klo	1304.50	358.58	361.98	361.54	362.09	0.003630	1.50	895.92	1062.57	0.49
Klondike River	Reach 1	17700	0p5-CC-LC_OW_yuk	1205.70	358.58	361.91	361.48	362.02	0.003723	1.50	827.74	1031.91	0.51
Klondike River	Reach 1	17650	5_OW_klondike	675.00	358.18	361.34	360.70	361.41	0.001715	1.17	629.49	744.15	0.38
Klondike River	Reach 1	17650	5_OW_yukon	570.30	358.18	361.23	360.58	361.29	0.001632	1.13	549.76	684.05	0.37
Klondike River	Reach 1	17650	1_OW_klondike	853.40	358.18	361.51	360.86	361.59	0.001794	1.23	763.87	850.23	0.38
Klondike River	Reach 1	17650	1_OW_yukon	772.20	358.18	361.44	360.78	361.51	0.001755	1.20	703.60	796.27	0.38
Klondike River	Reach 1	17650	0p5_OW_klondike	931.80	358.18	361.58	360.92	361.66	0.001843	1.26	822.21	894.85	0.39
Klondike River	Reach 1	17650	0p5_OW_yukon	861.20	358.18	361.52	360.86	361.59	0.001794	1.23	770.60	856.86	0.38
Klondike River	Reach 1	17650	0p5-CC-LC_OW_klo	1304.50	358.18	361.85	361.15	361.94	0.001903	1.34	1089.92	1062.63	0.38
Klondike River	Reach 1	17650	0p5-CC-LC_OW_yuk	1205.70	358.18	361.79	361.09	361.87	0.001894	1.32	1022.01	1026.88	0.38
Klondike River	Reach 1	17600	5_OW_klondike	675.00	358.04	361.26	360.65	361.32	0.001761	1.19	644.43	759.25	0.38
Klondike River	Reach 1	17600	5_OW_yukon	570.30	358.04	361.15	360.48	361.21	0.001688	1.15	565.23	716.11	0.38
Klondike River	Reach 1	17600	1_OW_klondike	853.40	358.04	361.42	360.81	361.49	0.001863	1.26	775.15	836.07	0.38
Klondike River	Reach 1	17600	1_OW_yukon	772.20	358.04	361.35	360.74	361.42	0.001817	1.23	717.51	806.47	0.38
Klondike River	Reach 1	17600	0p5_OW_klondike	931.80	358.04	361.48	360.86	361.56	0.001910	1.29	829.39	862.07	0.39
Klondike River	Reach 1	17600	0p5_OW_yukon	861.20	358.04	361.43	360.81	361.50	0.001872	1.27	781.10	838.90	0.38
Klondike River	Reach 1	17600	0p5-CC-LC_OW_klo	1304.50	358.04	361.75	361.10	361.84	0.001994	1.39	1082.44	1043.06	0.38
Klondike River	Reach 1	17600	0p5-CC-LC_OW_yuk	1205.70	358.04	361.68	361.05	361.77	0.001984	1.37	1016.67	1010.66	0.38
Klondike River	Reach 1	17574	5_OW_klondike	675.00	357.94	361.21	360.59	361.27	0.001717	1.16	665.09	755.10	0.36
Klondike River	Reach 1	17574	5_OW_yukon	570.30	357.94	361.11	360.48	361.16	0.001630	1.10	589.46	690.64	0.36
Klondike River	Reach 1	17574	1_OW_klondike	853.40	357.94	361.37	360.73	361.44	0.001827	1.24	791.10	823.50	0.37
Klondike River	Reach 1	17574	1_OW_yukon	772.20	357.94	361.30	360.66	361.37	0.001773	1.20	735.92	790.42	0.36
Klondike River	Reach 1	17574	0p5_OW_klondike	931.80	357.94	361.43	360.78	361.51	0.001885	1.27	843.51	863.89	0.37
Klondike River	Reach 1	17574	0p5_OW_yukon	861.20	357.94	361.38	360.73	361.45	0.001829	1.24	796.96	827.45	0.37
Klondike River	Reach 1	17574	0p5-CC-LC_OW_klo	1304.50	357.94	361.69	360.98	361.78	0.002037	1.40	1088.45	993.06	0.38
Klondike River	Reach 1	17574	0p5-CC-LC_OW_yuk	1205.70	357.94	361.63	360.94	361.72	0.002017	1.37	1026.73	975.21	0.38
Klondike River	Reach 1	17500	5_OW_klondike	675.00	358.06	361.15	360.35	361.18	0.000813	0.87	905.76	977.09	0.26
Klondike River	Reach 1	17500	5_OW_yukon	570.30	358.06	361.05	360.25	361.08	0.000775	0.82	808.44	939.49	0.25
Klondike River	Reach 1	17500	1_OW_klondike	853.40	358.06	361.30	360.49	361.34	0.000863	0.95	1060.81	1009.33	0.26
Klondike River	Reach 1	17500	1_OW_yukon	772.20	358.06	361.24	360.42	361.27	0.000833	0.91	994.50	998.95	0.26
Klondike River	Reach 1	17500	0p5_OW_klondike	931.80	358.06	361.36	360.54	361.41	0.000877	0.98	1122.44	1017.77	0.26
Klondike River	Reach 1	17500	0p5_OW_yukon	861.20	358.06	361.31	360.50	361.35	0.000862	0.96	1068.05	1009.49	0.26
Klondike River	Reach 1	17500	0p5-CC-LC_OW_klo	1304.50	358.06	361.62	360.72	361.67	0.000954	1.12	1385.18	1073.64	0.28

HEC-RAS Plan: OW_AEP (Continued)

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Klondike River	Reach 1	17500	0p5-CC-LC_OW_yuk	1205.70	358.06	361.56	360.68	361.61	0.000933	1.08	1320.38	1051.23	0.27
Klondike River	Reach 1	17450	5_OW_klondike	675.00	357.96	361.10	360.30	361.14	0.000835	0.95	908.08	963.45	0.27
Klondike River	Reach 1	17450	5_OW_yukon	570.30	357.96	361.00	360.18	361.04	0.000789	0.89	813.18	941.53	0.26
Klondike River	Reach 1	17450	1_OW_klondike	853.40	357.96	361.26	360.45	361.30	0.000897	1.04	1057.81	1000.49	0.27
Klondike River	Reach 1	17450	1_OW_yukon	772.20	357.96	361.19	360.39	361.23	0.000863	1.00	994.19	978.91	0.27
Klondike River	Reach 1	17450	0p5_OW_klondike	931.80	357.96	361.32	360.50	361.36	0.000922	1.08	1117.94	1014.03	0.28
Klondike River	Reach 1	17450	0p5_OW_yukon	861.20	357.96	361.26	360.44	361.31	0.000897	1.04	1065.00	1002.21	0.27
Klondike River	Reach 1	17450	0p5-CC-LC_OW_klo	1304.50	357.96	361.56	360.71	361.63	0.001022	1.23	1380.96	1094.14	0.29
Klondike River	Reach 1	17450	0p5-CC-LC_OW_yuk	1205.70	357.96	361.50	360.65	361.56	0.000998	1.19	1315.76	1075.93	0.29
Klondike River	Reach 1	17350	5_OW_klondike	675.00	357.59	360.97	360.42	361.03	0.002280	1.14	780.56	977.28	0.33
Klondike River	Reach 1	17350	5_OW_yukon	570.30	357.59	360.88	360.31	360.92	0.002303	1.08	686.66	943.93	0.32
Klondike River	Reach 1	17350	1_OW_klondike	853.40	357.59	361.13	360.55	361.18	0.002225	1.22	932.90	1025.65	0.33
Klondike River	Reach 1	17350	1_OW_yukon	772.20	357.59	361.06	360.49	361.12	0.002229	1.18	868.84	1005.37	0.33
Klondike River	Reach 1	17350	0p5_OW_klondike	931.80	357.59	361.19	360.57	361.25	0.002209	1.25	994.53	1044.99	0.33
Klondike River	Reach 1	17350	0p5_OW_yukon	861.20	357.59	361.13	360.55	361.19	0.002216	1.22	940.59	1029.04	0.33
Klondike River	Reach 1	17350	0p5-CC-LC_OW_klo	1304.50	357.59	361.44	360.74	361.51	0.002150	1.37	1261.14	1080.49	0.34
Klondike River	Reach 1	17350	0p5-CC-LC_OW_yuk	1205.70	357.59	361.38	360.72	361.44	0.002161	1.34	1196.17	1077.28	0.33
Klondike River	Reach 1	17200	5_OW_klondike	675.00	357.35	360.52	360.17	360.65	0.004597	1.82	522.68	780.51	0.48
Klondike River	Reach 1	17200	5_OW_yukon	570.30	357.35	360.35	359.79	360.50	0.005610	1.86	405.83	620.42	0.52
Klondike River	Reach 1	17200	1_OW_klondike	853.40	357.35	360.75	360.33	360.87	0.003747	1.81	716.50	936.19	0.44
Klondike River	Reach 1	17200	1_OW_yukon	772.20	357.35	360.65	360.30	360.78	0.004085	1.82	631.00	874.17	0.46
Klondike River	Reach 1	17200	0p5_OW_klondike	931.80	357.35	360.83	360.38	360.95	0.003477	1.80	798.54	980.25	0.43
Klondike River	Reach 1	17200	0p5_OW_yukon	861.20	357.35	360.76	360.33	360.88	0.003692	1.81	727.84	944.08	0.44
Klondike River	Reach 1	17200	0p5-CC-LC_OW_klo	1304.50	357.35	361.15	360.65	361.26	0.002877	1.83	1121.85	1046.21	0.40
Klondike River	Reach 1	17200	0p5-CC-LC_OW_yuk	1205.70	357.35	361.08	360.52	361.19	0.002977	1.82	1045.78	1029.60	0.41
Klondike River	Reach 1	17050	5_OW_klondike	675.00	356.29	360.06	359.15	360.30	0.001602	2.34	500.92	710.50	0.45
Klondike River	Reach 1	17050	5_OW_yukon	570.30	356.29	359.89	358.89	360.12	0.001587	2.23	393.34	539.91	0.44
Klondike River	Reach 1	17050	1_OW_klondike	853.40	356.29	360.31	359.69	360.55	0.001580	2.46	702.08	883.27	0.45
Klondike River	Reach 1	17050	1_OW_yukon	772.20	356.29	360.21	359.44	360.44	0.001598	2.42	610.58	817.49	0.45
Klondike River	Reach 1	17050	0p5_OW_klondike	931.80	356.29	360.41	359.93	360.65	0.001570	2.50	789.02	937.72	0.45
Klondike River	Reach 1	17050	0p5_OW_yukon	861.20	356.29	360.32	359.76	360.56	0.001588	2.47	710.75	888.93	0.45
Klondike River	Reach 1	17050	0p5-CC-LC_OW_klo	1304.50	356.29	360.78	360.39	361.00	0.001504	2.64	1148.77	1005.77	0.45
Klondike River	Reach 1	17050	0p5-CC-LC_OW_yuk	1205.70	356.29	360.69	360.28	360.92	0.001514	2.60	1065.45	997.19	0.45
Klondike River	Reach 1	16812	5_OW_klondike	675.00	354.74	359.48	359.06	359.80	0.003234	2.66	333.47	358.45	0.61
Klondike River	Reach 1	16812	5_OW_yukon	570.30	354.74	359.31	358.91	359.61	0.003289	2.54	280.35	283.96	0.61
Klondike River	Reach 1	16812	1_OW_klondike	853.40	354.74	359.72	359.33	360.07	0.003182	2.84	435.59	485.52	0.61
Klondike River	Reach 1	16812	1_OW_yukon	772.20	354.74	359.61	359.26	359.96	0.003207	2.76	387.66	424.79	0.61
Klondike River	Reach 1	16812	0p5_OW_klondike	931.80	354.74	359.81	359.47	360.18	0.003180	2.91	482.78	561.38	0.62
Klondike River	Reach 1	16812	0p5_OW_yukon	861.20	354.74	359.73	359.38	360.08	0.003184	2.85	440.00	490.23	0.61
Klondike River	Reach 1	16812	0p5-CC-LC_OW_klo	1304.50	354.74	360.18	359.96	360.57	0.003074	3.15	727.39	721.77	0.62
Klondike River	Reach 1	16812	0p5-CC-LC_OW_yuk	1205.70	354.74	360.09	359.78	360.48	0.003138	3.11	661.99	683.34	0.62
Klondike River	Reach 1	16285	5_OW_klondike	675.00	354.72	358.06	357.45	358.29	0.002232	2.27	387.55	435.62	0.51
Klondike River	Reach 1	16285	5_OW_yukon	570.30	354.72	357.88	357.28	358.10	0.002253	2.15	321.22	334.62	0.50
Klondike River	Reach 1	16285	1_OW_klondike	853.40	354.72	358.32	357.70	358.57	0.002129	2.41	517.89	541.89	0.51
Klondike River	Reach 1	16285	1_OW_yukon	772.20	354.72	358.20	357.57	358.45	0.002180	2.35	455.94	499.15	0.51
Klondike River	Reach 1	16285	0p5_OW_klondike	931.80	354.72	358.43	357.81	358.68	0.002057	2.44	579.28	563.57	0.50
Klondike River	Reach 1	16285	0p5_OW_yukon	861.20	354.72	358.33	357.69	358.58	0.002121	2.41	523.93	545.74	0.51
Klondike River	Reach 1	16285	0p5-CC-LC_OW_klo	1304.50	354.72	358.88	358.31	359.13	0.001812	2.57	846.41	637.07	0.49
Klondike River	Reach 1	16285	0p5-CC-LC_OW_yuk	1205.70	354.72	358.77	358.19	359.02	0.001859	2.54	777.46	623.76	0.49
Klondike River	Reach 1	15937	5_OW_klondike	675.00	353.96	357.49	356.52	357.62	0.001380	1.60	466.37	420.74	0.39
Klondike River	Reach 1	15937	5_OW_yukon	570.30	353.96	357.28	356.39	357.40	0.001532	1.55	390.56	312.85	0.40
Klondike River	Reach 1	15937	1_OW_klondike	853.40	353.96	357.81	356.73	357.94	0.001188	1.66	596.61	462.04	0.37
Klondike River	Reach 1	15937	1_OW_yukon	772.20	353.96	357.67	356.64	357.80	0.001260	1.63	538.44	445.27	0.38
Klondike River	Reach 1	15937	0p5_OW_klondike	931.80	353.96	357.93	356.80	358.07	0.001142	1.69	650.37	476.51	0.37
Klondike River	Reach 1	15937	0p5_OW_yukon	861.20	353.96	357.82	356.73	357.96	0.001182	1.66	602.09	464.26	0.37
Klondike River	Reach 1	15937	0p5-CC-LC_OW_klo	1304.50	353.96	358.37	357.22	358.54	0.001125	1.90	858.28	552.03	0.38
Klondike River	Reach 1	15937	0p5-CC-LC_OW_yuk	1205.70	353.96	358.26	357.14	358.42	0.001118	1.84	807.84	533.08	0.37
Klondike River	Reach 1	15657	5_OW_klondike	675.00	352.57	356.53	355.94	357.02	0.003314	3.13	248.98	237.94	0.64
Klondike River	Reach 1	15657	5_OW_yukon	570.30	352.57	356.40	355.74	356.80	0.002864	2.81	222.57	187.11	0.59
Klondike River	Reach 1	15657	1_OW_klondike	853.40	352.57	356.72	356.33	357.35	0.003923	3.59	302.42	319.15	0.71
Klondike River	Reach 1	15657	1_OW_yukon	772.20	352.57	356.63	356.15	357.20	0.003692	3.40	275.98	276.80	0.68
Klondike River	Reach 1	15657	0p5_OW_klondike	931.80	352.57	356.81	356.56	357.48	0.004063	3.73	333.02	361.95	0.72
Klondike River	Reach 1	15657	0p5_OW_yukon	861.20	352.57	356.73	356.34	357.36	0.003943	3.60	305.11	323.85	0.71
Klondike River	Reach 1	15657	0p5-CC-LC_OW_klo	1304.50	352.57	357.31	357.31	357.99	0.003625	3.95	561.51	509.22	0.70
Klondike River	Reach 1	15657	0p5-CC-LC_OW_yuk	1205.70	352.57	357.21	357.21	357.88	0.003617	3.86	512.28	496.82	0.70
Klondike River	Reach 1	15073	5_OW_klondike	675.00	351.49	355.16	354.42	355.38	0.002207	2.03	333.42	193.93	0.49
Klondike River	Reach 1	15073	5_OW_yukon	570.30	351.49	354.88	354.25	355.10	0.002792	2.05	279.18	191.11	0.54
Klondike River	Reach 1	15073	1_OW_klondike	853.40	351.49	355.62	354.65	355.83	0.001620	2.03	423.29	204.88	0.44
Klondike River	Reach 1	15073	1_OW_yukon	772.20	351.49	355.42	354.54	355.63	0.001836	2.03	382.74	197.79	0.46
Klondike River	Reach 1	15073	0p5_OW_klondike	931.80	351.49	355.80	354.74	356.01	0.001474	2.05	465.49	265.30	0.42
Klondike River	Reach 1	15073	0p5_OW_yukon	861.20	351.49	355.64	354.66	355.85	0.001602	2.03	427.33	207.32	0.44
Klondike River	Reach 1	15073	0p5-CC-LC_OW_klo	1304.50	351.49	356.51	355.11	356.72	0.001057	2.06	796.44	602.36	0.38
Klondike River	Reach 1	15073	0p5-CC-LC_OW_yuk	1205.70	351.49	356.35	355.03	356.56	0.001138	2.07	701.30	580.97	0.39
Klondike River	Reach 1	14797	5_OW_klondike	675.00	350.08	354.51	353.25	354.83	0.001676	2.52	268.04	89.35	0.46
Klondike River	Reach 1	14797	5_OW_yukon	570.30	350.08	354.22	353.05	354.50	0.001673	2.35	242.25	88.61	0.45
Klondike River	Reach 1	14797	1_OW_klondike	853.40	350.08	354.97	353.57	355.36	0.001672	2.76	316.63	162.10	0.47
Klondike River	Reach 1	14797	1_OW_yukon	772.20	350.08	354.77	353.43	355.13	0.001674	2.66	291.03	91.28	0.47
Klondike River	Reach 1	14797	0p5_OW_klondike	931.80	350.08	355.15	353.71	355.56	0.001660	2.85	350.70	201.93	0.47
Klondike River	Reach 1	14797	0p5_OW_yukon	861.20	350.08	354.99	353.59	355.38	0.001668	2.77	320.04	170.36	0.47
Klondike River	Reach 1	14797	0p5-CC-LC_OW_klo	1304.50	350.08	355.94	354.30	356.37	0.001437	3.02	632.14	495.36	0.46

HEC-RAS Plan: OW_AEP (Continued)

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Klondike River	Reach 1	14797	0p5-CC-LC_OW_yuk	1205.70	350.08	355.75	354.15	356.18	0.001521	3.01	539.12	444.26	0.47
Klondike River	Reach 1	14088	5_OW_klondike	696.00	349.51	352.76	352.08	353.25	0.003053	3.09	226.53	262.58	0.62
Klondike River	Reach 1	14088	5_OW_yukon	588.00	349.51	352.58	351.88	352.99	0.002773	2.81	210.36	188.46	0.58
Klondike River	Reach 1	14088	1_OW_klondike	882.00	349.51	353.01	352.40	353.65	0.003569	3.56	249.76	411.64	0.68
Klondike River	Reach 1	14088	1_OW_yukon	798.00	349.51	352.90	352.26	353.47	0.003336	3.35	239.76	364.73	0.65
Klondike River	Reach 1	14088	0p5_OW_klondike	964.00	349.51	353.12	352.54	353.83	0.003738	3.74	260.07	442.75	0.70
Klondike River	Reach 1	14088	0p5_OW_yukon	891.00	349.51	353.02	352.42	353.67	0.003594	3.58	250.78	414.48	0.68
Klondike River	Reach 1	14088	0p5-CC-LC_OW_klo	1349.60	349.51	353.50	353.12	354.57	0.004814	4.61	295.98	546.67	0.81
Klondike River	Reach 1	14088	0p5-CC-LC_OW_yuk	1247.40	349.51	353.41	352.97	354.38	0.004512	4.38	287.64	525.12	0.78
Klondike River	Reach 1	14004	5_OW_klondike	696.00	349.38	352.40	352.08	352.82	0.004006	3.01	251.53	537.42	0.68
Klondike River	Reach 1	14004	5_OW_yukon	588.00	349.38	352.22	351.93	352.60	0.004047	2.85	224.38	490.29	0.68
Klondike River	Reach 1	14004	1_OW_klondike	882.00	349.38	352.63	352.31	353.15	0.004203	3.33	289.36	601.62	0.71
Klondike River	Reach 1	14004	1_OW_yukon	798.00	349.38	352.53	352.21	353.00	0.004112	3.19	272.88	562.99	0.70
Klondike River	Reach 1	14004	0p5_OW_klondike	964.00	349.38	352.77	352.41	353.30	0.004006	3.38	311.71	691.69	0.70
Klondike River	Reach 1	14004	0p5_OW_yukon	891.00	349.38	352.64	352.33	353.16	0.004216	3.34	291.01	607.08	0.72
Klondike River	Reach 1	14004	0p5-CC-LC_OW_klo	1349.60	349.38	353.19	352.82	353.88	0.004268	3.89	379.93	810.76	0.75
Klondike River	Reach 1	14004	0p5-CC-LC_OW_yuk	1247.40	349.38	353.09	352.72	353.74	0.004168	3.75	363.86	797.09	0.73
Klondike River	Reach 1	13755	5_OW_klondike	696.00	347.42	351.47	350.96	351.70	0.003041	2.33	336.17	693.90	0.58
Klondike River	Reach 1	13755	5_OW_yukon	588.00	347.42	351.32	350.83	351.53	0.002850	2.12	292.46	624.25	0.55
Klondike River	Reach 1	13755	1_OW_klondike	882.00	347.42	351.66	351.19	351.93	0.003289	2.60	401.16	786.61	0.61
Klondike River	Reach 1	13755	1_OW_yukon	798.00	347.42	351.57	351.08	351.83	0.003192	2.49	370.94	750.98	0.60
Klondike River	Reach 1	13755	0p5_OW_klondike	964.00	347.42	351.75	351.28	352.06	0.003679	2.84	435.00	811.42	0.65
Klondike River	Reach 1	13755	0p5_OW_yukon	891.00	347.42	351.67	351.25	351.94	0.003296	2.61	404.30	789.66	0.61
Klondike River	Reach 1	13755	0p5-CC-LC_OW_klo	1349.60	347.42	351.91	351.60	352.37	0.004988	3.49	501.01	843.36	0.77
Klondike River	Reach 1	13755	0p5-CC-LC_OW_yuk	1247.40	347.42	351.86	351.58	352.29	0.004737	3.35	481.68	836.08	0.74
Klondike River	Reach 1	13404	5_OW_klondike	696.00	346.33	350.00	350.00	350.52	0.004547	3.55	257.06	423.04	0.74
Klondike River	Reach 1	13404	5_OW_yukon	588.00	346.33	349.80	349.80	350.33	0.004950	3.49	210.03	331.15	0.76
Klondike River	Reach 1	13404	1_OW_klondike	882.00	346.33	350.27	350.27	350.78	0.004112	3.64	336.92	548.47	0.72
Klondike River	Reach 1	13404	1_OW_yukon	798.00	346.33	350.17	350.17	350.68	0.004200	3.58	305.29	493.35	0.72
Klondike River	Reach 1	13404	0p5_OW_klondike	964.00	346.33	350.39	350.35	350.88	0.003852	3.63	378.79	593.82	0.70
Klondike River	Reach 1	13404	0p5_OW_yukon	891.00	346.33	350.28	350.28	350.79	0.004108	3.64	340.18	551.39	0.72
Klondike River	Reach 1	13404	0p5-CC-LC_OW_klo	1349.60	346.33	350.97	350.71	351.33	0.002473	3.30	608.39	757.22	0.58
Klondike River	Reach 1	13404	0p5-CC-LC_OW_yuk	1247.40	346.33	350.82	350.62	351.21	0.002775	3.39	547.35	733.68	0.61
Klondike River	Reach 1	13209	5_OW_klondike	696.00	345.37	349.51	348.93	349.79	0.002254	2.52	307.74	346.93	0.52
Klondike River	Reach 1	13209	5_OW_yukon	588.00	345.37	349.32	348.70	349.57	0.002254	2.39	276.22	327.97	0.52
Klondike River	Reach 1	13209	1_OW_klondike	882.00	345.37	349.79	349.15	350.13	0.002341	2.76	354.14	397.24	0.54
Klondike River	Reach 1	13209	1_OW_yukon	798.00	345.37	349.67	349.04	349.98	0.002297	2.65	334.03	372.83	0.53
Klondike River	Reach 1	13209	0p5_OW_klondike	964.00	345.37	349.91	349.24	350.27	0.002366	2.85	373.81	404.39	0.55
Klondike River	Reach 1	13209	0p5_OW_yukon	891.00	345.37	349.80	349.15	350.14	0.002348	2.77	356.18	398.09	0.54
Klondike River	Reach 1	13209	0p5-CC-LC_OW_klo	1349.60	345.37	350.34	349.62	350.83	0.002614	3.30	468.43	538.90	0.59
Klondike River	Reach 1	13209	0p5-CC-LC_OW_yuk	1247.40	345.37	350.25	349.52	350.69	0.002523	3.18	443.07	497.65	0.58
Klondike River	Reach 1	13100	5_OW_klondike	696.00	345.58	349.25	348.70	349.54	0.002205	2.50	317.92	752.88	0.52
Klondike River	Reach 1	13100	5_OW_yukon	588.00	345.58	349.05	348.51	349.32	0.002220	2.37	279.20	722.73	0.52
Klondike River	Reach 1	13100	1_OW_klondike	882.00	345.58	349.54	348.94	349.86	0.002204	2.70	378.21	803.23	0.53
Klondike River	Reach 1	13100	1_OW_yukon	798.00	345.58	349.42	348.83	349.72	0.002191	2.61	352.28	774.11	0.53
Klondike River	Reach 1	13100	0p5_OW_klondike	964.00	345.58	349.65	349.03	350.00	0.002227	2.79	403.89	827.17	0.54
Klondike River	Reach 1	13100	0p5_OW_yukon	891.00	345.58	349.55	348.95	349.88	0.002208	2.71	380.83	806.21	0.53
Klondike River	Reach 1	13100	0p5-CC-LC_OW_klo	1349.60	345.58	350.13	349.45	350.52	0.002165	3.07	558.01	1098.19	0.55
Klondike River	Reach 1	13100	0p5-CC-LC_OW_yuk	1247.40	345.58	350.02	349.35	350.40	0.002164	3.00	512.17	1059.08	0.54
Klondike River	Reach 1	13000	5_OW_klondike	696.00	345.10	348.49	348.49	349.18	0.005623	3.86	207.75	501.18	0.83
Klondike River	Reach 1	13000	5_OW_yukon	588.00	345.10	348.32	348.32	348.96	0.005616	3.66	181.75	443.39	0.81
Klondike River	Reach 1	13000	1_OW_klondike	882.00	345.10	348.79	348.79	349.52	0.005195	4.05	258.50	604.73	0.81
Klondike River	Reach 1	13000	1_OW_yukon	798.00	345.10	348.65	348.65	349.37	0.005446	3.99	234.24	553.48	0.82
Klondike River	Reach 1	13000	0p5_OW_klondike	964.00	345.10	348.93	348.93	349.66	0.004968	4.10	283.92	648.05	0.80
Klondike River	Reach 1	13000	0p5_OW_yukon	891.00	345.10	348.81	348.81	349.54	0.005169	4.05	261.10	609.79	0.81
Klondike River	Reach 1	13000	0p5-CC-LC_OW_klo	1349.60	345.10	349.43	349.43	350.21	0.004509	4.38	398.70	738.02	0.78
Klondike River	Reach 1	13000	0p5-CC-LC_OW_yuk	1247.40	345.10	349.33	349.33	350.09	0.004526	4.29	373.99	731.91	0.78
Klondike River	Reach 1	12950	5_OW_klondike	696.00	344.85	348.24	347.04	348.41	0.001152	1.88	404.13	686.03	0.38
Klondike River	Reach 1	12950	5_OW_yukon	588.00	344.85	348.09	346.88	348.23	0.001033	1.71	367.20	647.24	0.36
Klondike River	Reach 1	12950	1_OW_klondike	882.00	344.85	348.47	347.30	348.69	0.001286	2.11	464.64	764.99	0.41
Klondike River	Reach 1	12950	1_OW_yukon	798.00	344.85	348.37	347.18	348.57	0.001226	2.01	438.53	720.83	0.40
Klondike River	Reach 1	12950	0p5_OW_klondike	964.00	344.85	348.56	347.42	348.79	0.001353	2.21	487.63	795.90	0.42
Klondike River	Reach 1	12950	0p5_OW_yukon	891.00	344.85	348.48	347.31	348.70	0.001294	2.12	467.24	772.13	0.41
Klondike River	Reach 1	12950	0p5-CC-LC_OW_klo	1349.60	344.85	348.90	347.96	349.22	0.001675	2.65	587.10	878.47	0.48
Klondike River	Reach 1	12950	0p5-CC-LC_OW_yuk	1247.40	344.85	348.81	347.83	349.11	0.001618	2.56	557.74	859.46	0.47
Klondike River	Reach 1	12887	5_OW_klondike	696.00	344.53	347.98	347.57	348.29	0.003182	2.57	307.94	448.53	0.60
Klondike River	Reach 1	12887	5_OW_yukon	588.00	344.53	347.84	347.44	348.12	0.003076	2.40	273.52	432.28	0.58
Klondike River	Reach 1	12887	1_OW_klondike	882.00	344.53	348.19	347.88	348.55	0.003346	2.83	365.31	506.50	0.63
Klondike River	Reach 1	12887	1_OW_yukon	798.00	344.53	348.11	347.76	348.44	0.003181	2.69	342.54	472.90	0.61
Klondike River	Reach 1	12887	0p5_OW_klondike	964.00	344.53	348.28	347.97	348.66	0.003325	2.90	392.05	552.30	0.63
Klondike River	Reach 1	12887	0p5_OW_yukon	891.00	344.53	348.20	347.88	348.57	0.003334	2.84	368.59	511.73	0.63
Klondike River	Reach 1	12887	0p5-CC-LC_OW_klo	1349.60	344.53	348.58	348.36	349.07	0.003690	3.34	487.07	649.11	0.68
Klondike River	Reach 1	12887	0p5-CC-LC_OW_yuk	1247.40	344.53	348.51	348.28	348.96	0.003551	3.21	463.02	618.55	0.66
Klondike River	Reach 1	12850	5_OW_klondike	696.00	344.40	347.80	347.61	348.15	0.004331	2.78	291.75	512.21	0.69
Klondike River	Reach 1	12850	5_OW_yukon	588.00	344.40	347.59	347.47	347.96	0.005299	2.83	236.54	466.50	0.75
Klondike River	Reach 1	12850	1_OW_klondike	882.00	344.40	348.07	347.82	348.42	0.003825	2.88	372.59	601.22	0.66
Klondike River	Reach 1	12850	1_OW_yukon	798.00	344.40	347.98	347.73	348.31	0.003793	2.78	344.13	576.33	0.66
Klondike River	Reach 1	12850	0p5_OW_klondike	964.00	344.40	348.18	347.85	348.52	0.003519	2.87	410.02	642.62	0.64
Klondike River	Reach 1	12850	0p5_OW_yukon	891.00	344.40	348.08	347.82	348.43	0.003768	2.88	377.46	605.04	0.66
Klondike River	Reach 1	12850	0p5-CC-LC_OW_klo	1349.60	344.40	348.52	348.25	348.90	0.003386	3.12	539.19	772.01	0.65

HEC-RAS Plan: OW_AEP (Continued)

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Klondike River	Reach 1	12850	0p5-CC-LC_OW_yuk	1247.40	344.40	348.43	348.19	348.81	0.003425	3.06	504.67	749.58	0.65
Klondike River	Reach 1	12800	5_OW_klondike	696.00	343.70	347.86	347.10	347.99	0.001069	1.87	493.99	717.40	0.37
Klondike River	Reach 1	12800	5_OW_yukon	588.00	343.70	347.65	346.87	347.79	0.001169	1.85	414.50	657.73	0.38
Klondike River	Reach 1	12800	1_OW_klondike	882.00	343.70	348.13	347.32	348.27	0.001021	1.95	606.06	809.26	0.37
Klondike River	Reach 1	12800	1_OW_yukon	798.00	343.70	348.03	347.24	348.17	0.000998	1.89	565.90	782.80	0.36
Klondike River	Reach 1	12800	0p5_OW_klondike	964.00	343.70	348.23	347.33	348.38	0.001064	2.04	649.51	880.10	0.38
Klondike River	Reach 1	12800	0p5_OW_yukon	891.00	343.70	348.14	347.33	348.28	0.001016	1.95	611.96	815.42	0.37
Klondike River	Reach 1	12800	0p5-CC-LC_OW_klo	1349.60	343.70	348.58	347.79	348.76	0.001129	2.26	816.69	1063.62	0.40
Klondike River	Reach 1	12800	0p5-CC-LC_OW_yuk	1247.40	343.70	348.49	347.72	348.66	0.001114	2.20	774.39	1038.19	0.39
Klondike River	Reach 1	12735	5_OW_klondike	696.00	340.98	347.89	345.10	347.94	0.000240	1.03	783.34	653.37	0.18
Klondike River	Reach 1	12735	5_OW_yukon	588.00	340.98	347.69	344.82	347.73	0.000223	0.95	706.38	573.46	0.17
Klondike River	Reach 1	12735	1_OW_klondike	882.00	340.98	348.16	345.63	348.22	0.000280	1.17	901.69	849.55	0.20
Klondike River	Reach 1	12735	1_OW_yukon	798.00	340.98	348.06	345.44	348.12	0.000256	1.10	857.13	773.74	0.19
Klondike River	Reach 1	12735	0p5_OW_klondike	964.00	340.98	348.25	345.75	348.32	0.000304	1.24	949.96	916.14	0.21
Klondike River	Reach 1	12735	0p5_OW_yukon	891.00	340.98	348.17	345.64	348.23	0.000281	1.18	908.26	859.82	0.20
Klondike River	Reach 1	12735	0p5-CC-LC_OW_klo	1349.60	340.98	348.60	346.24	348.70	0.000395	1.51	1133.43	1001.92	0.24
Klondike River	Reach 1	12735	0p5-CC-LC_OW_yuk	1247.40	340.98	348.51	346.13	348.60	0.000372	1.44	1087.82	995.19	0.23
Klondike River	Reach 1	12700	5_OW_klondike	696.00	342.78	347.86	346.09	347.92	0.000378	1.30	685.43	772.73	0.23
Klondike River	Reach 1	12700	5_OW_yukon	588.00	342.78	347.66	345.73	347.72	0.000350	1.20	606.17	639.14	0.22
Klondike River	Reach 1	12700	1_OW_klondike	882.00	342.78	348.12	346.35	348.20	0.000425	1.45	808.14	947.10	0.25
Klondike River	Reach 1	12700	1_OW_yukon	798.00	342.78	348.03	346.25	348.10	0.000395	1.37	763.16	883.34	0.24
Klondike River	Reach 1	12700	0p5_OW_klondike	964.00	342.78	348.21	346.42	348.30	0.000441	1.50	857.82	1016.32	0.25
Klondike River	Reach 1	12700	0p5_OW_yukon	891.00	342.78	348.13	346.37	348.21	0.000425	1.45	814.89	957.23	0.25
Klondike River	Reach 1	12700	0p5-CC-LC_OW_klo	1349.60	342.78	348.55	347.01	348.67	0.000570	1.81	1040.71	1135.71	0.29
Klondike River	Reach 1	12700	0p5-CC-LC_OW_yuk	1247.40	342.78	348.46	346.86	348.58	0.000544	1.74	993.00	1118.32	0.28
Klondike River	Reach 1	12650	5_OW_klondike	696.00	342.92	347.77	346.34	347.89	0.000646	1.74	533.07	755.35	0.30
Klondike River	Reach 1	12650	5_OW_yukon	588.00	342.92	347.58	346.10	347.69	0.000609	1.62	464.87	608.15	0.29
Klondike River	Reach 1	12650	1_OW_klondike	882.00	342.92	348.01	346.61	348.16	0.000769	1.98	635.74	953.55	0.33
Klondike River	Reach 1	12650	1_OW_yukon	798.00	342.92	347.93	346.49	348.07	0.000687	1.85	600.40	887.81	0.31
Klondike River	Reach 1	12650	0p5_OW_klondike	964.00	342.92	348.10	346.72	348.26	0.000809	2.07	681.01	1012.86	0.34
Klondike River	Reach 1	12650	0p5_OW_yukon	891.00	342.92	348.02	346.62	348.17	0.000769	1.99	642.31	963.30	0.33
Klondike River	Reach 1	12650	0p5-CC-LC_OW_klo	1349.60	342.92	348.41	347.27	348.62	0.001025	2.45	853.41	1180.16	0.39
Klondike River	Reach 1	12650	0p5-CC-LC_OW_yuk	1247.40	342.92	348.33	347.03	348.53	0.000962	2.35	808.47	1136.76	0.38
Klondike River	Reach 1	12600	5_OW_klondike	696.00	342.87	347.67	346.39	347.84	0.001030	2.18	460.92	818.57	0.38
Klondike River	Reach 1	12600	5_OW_yukon	588.00	342.87	347.49	346.20	347.64	0.000949	2.01	391.52	638.94	0.36
Klondike River	Reach 1	12600	1_OW_klondike	882.00	342.87	347.87	346.69	348.09	0.001320	2.56	561.16	983.44	0.43
Klondike River	Reach 1	12600	1_OW_yukon	798.00	342.87	347.79	346.57	348.00	0.001269	2.47	518.18	923.76	0.42
Klondike River	Reach 1	12600	0p5_OW_klondike	964.00	342.87	347.97	346.82	348.19	0.001330	2.61	613.76	1028.50	0.43
Klondike River	Reach 1	12600	0p5_OW_yukon	891.00	342.87	347.88	346.70	348.11	0.001345	2.59	565.44	987.50	0.43
Klondike River	Reach 1	12600	0p5-CC-LC_OW_klo	1349.60	342.87	348.30	347.42	348.54	0.001409	2.85	822.53	1241.84	0.45
Klondike River	Reach 1	12600	0p5-CC-LC_OW_yuk	1247.40	342.87	348.22	347.36	348.45	0.001380	2.78	768.68	1206.31	0.45
Klondike River	Reach 1	12550	5_OW_klondike	696.00	343.00	347.71	346.26	347.78	0.000430	1.41	711.68	1018.55	0.25
Klondike River	Reach 1	12550	5_OW_yukon	588.00	343.00	347.52	346.09	347.58	0.000413	1.33	616.78	849.20	0.24
Klondike River	Reach 1	12550	1_OW_klondike	882.00	343.00	347.93	346.53	348.01	0.000495	1.58	852.55	1216.36	0.27
Klondike River	Reach 1	12550	1_OW_yukon	798.00	343.00	347.85	346.41	347.93	0.000465	1.51	798.30	1169.07	0.26
Klondike River	Reach 1	12550	0p5_OW_klondike	964.00	343.00	348.03	346.67	348.11	0.000507	1.63	919.22	1263.59	0.27
Klondike River	Reach 1	12550	0p5_OW_yukon	891.00	343.00	347.94	346.54	348.03	0.000497	1.59	859.69	1222.31	0.27
Klondike River	Reach 1	12550	0p5-CC-LC_OW_klo	1349.60	343.00	348.35	347.08	348.46	0.000593	1.86	1155.20	1367.81	0.30
Klondike River	Reach 1	12550	0p5-CC-LC_OW_yuk	1247.40	343.00	348.27	347.02	348.37	0.000576	1.81	1097.13	1339.97	0.29
Klondike River	Reach 1	12500	5_OW_klondike	696.00	343.14	347.64	346.32	347.74	0.000712	1.52	692.34	1079.94	0.30
Klondike River	Reach 1	12500	5_OW_yukon	588.00	343.14	347.45	346.18	347.55	0.000715	1.45	567.02	917.79	0.30
Klondike River	Reach 1	12500	1_OW_klondike	882.00	343.14	347.85	346.56	347.97	0.000789	1.68	841.94	1217.85	0.32
Klondike River	Reach 1	12500	1_OW_yukon	798.00	343.14	347.78	346.46	347.89	0.000732	1.59	789.88	1173.84	0.31
Klondike River	Reach 1	12500	0p5_OW_klondike	964.00	343.14	347.94	346.65	348.07	0.000808	1.74	906.98	1279.81	0.33
Klondike River	Reach 1	12500	0p5_OW_yukon	891.00	343.14	347.86	346.57	347.98	0.000792	1.69	849.08	1221.79	0.32
Klondike River	Reach 1	12500	0p5-CC-LC_OW_klo	1349.60	343.14	348.23	347.16	348.40	0.000991	2.06	1116.83	1338.96	0.37
Klondike River	Reach 1	12500	0p5-CC-LC_OW_yuk	1247.40	343.14	348.16	347.02	348.32	0.000944	1.98	1066.11	1329.60	0.36
Klondike River	Reach 1	12436	5_OW_klondike	696.00	343.08	347.13	347.13	347.63	0.002752	3.44	356.69	811.91	0.61
Klondike River	Reach 1	12436	5_OW_yukon	588.00	343.08	346.55	346.55	347.38	0.005270	4.16	169.02	327.43	0.82
Klondike River	Reach 1	12436	1_OW_klondike	882.00	343.08	347.40	347.40	347.86	0.002592	3.52	520.92	974.87	0.60
Klondike River	Reach 1	12436	1_OW_yukon	798.00	343.08	347.24	347.24	347.77	0.002934	3.63	420.15	883.11	0.63
Klondike River	Reach 1	12436	0p5_OW_klondike	964.00	343.08	347.46	347.46	347.95	0.002804	3.70	557.08	1028.17	0.63
Klondike River	Reach 1	12436	0p5_OW_yukon	891.00	343.08	347.40	347.40	347.87	0.002638	3.55	521.78	975.95	0.61
Klondike River	Reach 1	12436	0p5-CC-LC_OW_klo	1349.60	343.08	347.78	347.78	348.27	0.002899	3.98	780.87	1283.17	0.65
Klondike River	Reach 1	12436	0p5-CC-LC_OW_yuk	1247.40	343.08	347.71	347.71	348.20	0.002823	3.89	734.09	1243.45	0.63
Klondike River	Reach 1	12300	5_OW_klondike	696.00	342.78	346.11	345.49	346.45	0.002412	2.76	329.54	546.18	0.55
Klondike River	Reach 1	12300	5_OW_yukon	588.00	342.78	345.94	345.30	346.24	0.002247	2.54	291.83	503.50	0.53
Klondike River	Reach 1	12300	1_OW_klondike	882.00	342.78	346.30	345.82	346.74	0.002864	3.16	383.92	661.11	0.61
Klondike River	Reach 1	12300	1_OW_yukon	798.00	342.78	346.22	345.67	346.62	0.002657	2.98	358.73	602.03	0.58
Klondike River	Reach 1	12300	0p5_OW_klondike	964.00	342.78	346.37	345.93	346.86	0.003083	3.33	409.40	726.03	0.63
Klondike River	Reach 1	12300	0p5_OW_yukon	891.00	342.78	346.31	345.83	346.76	0.002887	3.18	386.60	669.12	0.61
Klondike River	Reach 1	12300	0p5-CC-LC_OW_klo	1349.60	342.78	346.65	346.55	347.33	0.004023	4.05	533.57	896.19	0.74
Klondike River	Reach 1	12300	0p5-CC-LC_OW_yuk	1247.40	342.78	346.58	346.32	347.22	0.003810	3.88	499.88	858.22	0.71
Klondike River	Reach 1	11788	5_OW_klondike	696.00	342.07	345.09	344.42	345.29	0.001915	2.20	427.97	876.22	0.48
Klondike River	Reach 1	11788	5_OW_yukon	588.00	342.07	344.89	344.17	345.09	0.002079	2.15	339.41	710.62	0.49
Klondike River	Reach 1	11788	1_OW_klondike	882.00	342.07	345.40	344.62	345.58	0.001590	2.19	614.89	1104.82	0.44
Klondike River	Reach 1	11788	1_OW_yukon	798.00	342.07	345.26	344.56	345.46	0.001720	2.19	526.19	1005.33	0.46
Klondike River	Reach 1	11788	0p5_OW_klondike	964.00	342.07	345.51	344.62	345.69	0.001487	2.18	702.73	1180.36	0.43
Klondike River	Reach 1	11788	0p5_OW_yukon	891.00	342.07	345.41	344.62	345.59	0.001579	2.19	624.16	1112.39	0.44
Klondike River	Reach 1	11788	0p5-CC-LC_OW_klo	1349.60	342.07	345.95	345.26	346.12	0.001243	2.22	1080.20	1336.22	0.41

HEC-RAS Plan: OW_AEP (Continued)

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Klondike River	Reach 1	11788	0p5-CC-LC_OW_yuk	1247.40	342.07	345.85	345.20	346.01	0.001281	2.20	989.33	1320.14	0.41
Klondike River	Reach 1	11514	5_OW_klondike	696.00	340.85	343.98	343.66	344.49	0.004787	3.20	236.43	467.53	0.74
Klondike River	Reach 1	11514	5_OW_yukon	588.00	340.85	343.82	343.48	344.27	0.004603	2.97	208.45	424.67	0.72
Klondike River	Reach 1	11514	1_OW_klondike	882.00	340.85	344.22	343.97	344.85	0.005020	3.55	291.60	566.03	0.77
Klondike River	Reach 1	11514	1_OW_yukon	798.00	340.85	344.12	343.82	344.69	0.004934	3.40	264.93	510.90	0.76
Klondike River	Reach 1	11514	0p5_OW_klondike	964.00	340.85	344.33	344.08	344.99	0.005047	3.67	320.43	603.14	0.78
Klondike River	Reach 1	11514	0p5_OW_yukon	891.00	340.85	344.24	343.99	344.86	0.005021	3.56	294.71	572.63	0.77
Klondike River	Reach 1	11514	0p5-CC-LC_OW_klo	1349.60	340.85	344.79	344.67	345.51	0.004615	3.98	491.34	831.47	0.77
Klondike River	Reach 1	11514	0p5-CC-LC_OW_yuk	1247.40	340.85	344.67	344.58	345.39	0.004786	3.93	439.09	790.04	0.78
Klondike River	Reach 1	11034	5_OW_klondike	696.00	338.63	343.14		343.32	0.001346	1.98	397.84	537.58	0.41
Klondike River	Reach 1	11034	5_OW_yukon	588.00	338.63	342.94		343.11	0.001356	1.88	352.14	508.44	0.40
Klondike River	Reach 1	11034	1_OW_klondike	882.00	338.63	343.43		343.64	0.001345	2.14	467.88	573.91	0.42
Klondike River	Reach 1	11034	1_OW_yukon	798.00	338.63	343.30		343.50	0.001346	2.07	437.11	556.13	0.41
Klondike River	Reach 1	11034	0p5_OW_klondike	964.00	338.63	343.55		343.77	0.001346	2.20	496.63	595.54	0.42
Klondike River	Reach 1	11034	0p5_OW_yukon	891.00	338.63	343.45		343.65	0.001345	2.15	471.09	575.72	0.42
Klondike River	Reach 1	11034	0p5-CC-LC_OW_klo	1349.60	338.63	344.07		344.33	0.001342	2.46	621.86	727.46	0.43
Klondike River	Reach 1	11034	0p5-CC-LC_OW_yuk	1247.40	338.63	343.94		344.19	0.001345	2.40	589.83	699.57	0.43
Klondike River	Reach 1	10544	5_OW_klondike	696.00	337.82	341.88	341.47	342.30	0.003205	3.03	317.71	581.53	0.63
Klondike River	Reach 1	10544	5_OW_yukon	588.00	337.82	341.67	341.21	342.08	0.003345	2.92	261.95	496.97	0.63
Klondike River	Reach 1	10544	1_OW_klondike	882.00	337.82	342.19		342.64	0.003050	3.21	402.64	642.23	0.63
Klondike River	Reach 1	10544	1_OW_yukon	798.00	337.82	342.05		342.49	0.003099	3.13	366.25	621.75	0.63
Klondike River	Reach 1	10544	0p5_OW_klondike	964.00	337.82	342.31		342.77	0.003003	3.28	436.92	657.59	0.63
Klondike River	Reach 1	10544	0p5_OW_yukon	891.00	337.82	342.20		342.65	0.003045	3.22	406.46	643.83	0.63
Klondike River	Reach 1	10544	0p5-CC-LC_OW_klo	1349.60	337.82	342.81		343.34	0.002942	3.62	576.86	711.14	0.64
Klondike River	Reach 1	10544	0p5-CC-LC_OW_yuk	1247.40	337.82	342.68		343.20	0.002942	3.53	542.00	701.33	0.63
Klondike River	Reach 1	9771	5_OW_klondike	696.00	336.80	339.70		340.00	0.002709	2.49	311.31	763.62	0.56
Klondike River	Reach 1	9771	5_OW_yukon	588.00	336.80	339.57		339.82	0.002475	2.27	284.00	733.92	0.53
Klondike River	Reach 1	9771	1_OW_klondike	882.00	336.80	339.91		340.28	0.003017	2.80	355.17	798.45	0.60
Klondike River	Reach 1	9771	1_OW_yukon	798.00	336.80	339.81		340.15	0.002901	2.67	335.35	780.09	0.59
Klondike River	Reach 1	9771	0p5_OW_klondike	964.00	336.80	339.99		340.39	0.003135	2.93	373.08	808.96	0.62
Klondike River	Reach 1	9771	0p5_OW_yukon	891.00	336.80	339.92		340.29	0.003030	2.82	357.20	799.64	0.61
Klondike River	Reach 1	9771	0p5-CC-LC_OW_klo	1349.60	336.80	340.39		340.92	0.003372	3.38	459.42	860.32	0.66
Klondike River	Reach 1	9771	0p5-CC-LC_OW_yuk	1247.40	336.80	340.29		340.78	0.003337	3.28	436.75	848.86	0.65
Klondike River	Reach 1	8903	5_OW_klondike	696.00	333.65	337.60		337.92	0.002757	2.86	317.12	568.69	0.58
Klondike River	Reach 1	8903	5_OW_yukon	588.00	333.65	337.42		337.74	0.002904	2.79	274.30	534.48	0.59
Klondike River	Reach 1	8903	1_OW_klondike	882.00	333.65	337.86		338.20	0.002594	2.97	383.30	631.90	0.58
Klondike River	Reach 1	8903	1_OW_yukon	798.00	333.65	337.75		338.08	0.002649	2.92	354.76	598.35	0.58
Klondike River	Reach 1	8903	0p5_OW_klondike	964.00	333.65	337.98		338.32	0.002526	3.01	411.16	667.03	0.57
Klondike River	Reach 1	8903	0p5_OW_yukon	891.00	333.65	337.88		338.21	0.002587	2.97	386.35	634.27	0.57
Klondike River	Reach 1	8903	0p5-CC-LC_OW_klo	1349.60	333.65	338.38		338.79	0.002599	3.33	510.11	758.89	0.59
Klondike River	Reach 1	8903	0p5-CC-LC_OW_yuk	1247.40	333.65	338.28		338.68	0.002548	3.24	487.46	743.88	0.58
Klondike River	Reach 1	8300	5_OW_klondike	696.00	332.67	336.16		336.46	0.002237	2.55	387.85	670.89	0.53
Klondike River	Reach 1	8300	5_OW_yukon	588.00	332.67	335.99		336.25	0.002162	2.39	326.31	582.35	0.51
Klondike River	Reach 1	8300	1_OW_klondike	882.00	332.67	336.38		336.73	0.002459	2.83	482.23	776.12	0.56
Klondike River	Reach 1	8300	1_OW_yukon	798.00	332.67	336.28		336.61	0.002371	2.71	439.98	744.04	0.55
Klondike River	Reach 1	8300	0p5_OW_klondike	964.00	332.67	336.46	335.97	336.84	0.002555	2.95	523.15	805.99	0.57
Klondike River	Reach 1	8300	0p5_OW_yukon	891.00	332.67	336.39	335.71	336.74	0.002468	2.84	486.66	779.24	0.56
Klondike River	Reach 1	8300	0p5-CC-LC_OW_klo	1349.60	332.67	336.86		337.28	0.002604	3.26	727.75	882.06	0.59
Klondike River	Reach 1	8300	0p5-CC-LC_OW_yuk	1247.40	332.67	336.75		337.17	0.002640	3.21	671.13	867.98	0.59
Klondike River	Reach 1	7514	5_OW_klondike	696.00	330.29	333.81	333.38	334.25	0.003580	3.09	303.12	526.05	0.66
Klondike River	Reach 1	7514	5_OW_yukon	588.00	330.29	333.57	333.17	334.00	0.003908	3.01	243.39	497.60	0.68
Klondike River	Reach 1	7514	1_OW_klondike	882.00	330.29	334.21		334.63	0.002929	3.10	404.20	588.80	0.61
Klondike River	Reach 1	7514	1_OW_yukon	798.00	330.29	334.03		334.46	0.003207	3.10	358.61	559.74	0.63
Klondike River	Reach 1	7514	0p5_OW_klondike	964.00	330.29	334.39		334.79	0.002680	3.09	449.15	659.07	0.59
Klondike River	Reach 1	7514	0p5_OW_yukon	891.00	330.29	334.23		334.65	0.002901	3.10	409.10	592.76	0.61
Klondike River	Reach 1	7514	0p5-CC-LC_OW_klo	1349.60	330.29	335.21		335.58	0.001854	3.03	659.70	850.66	0.51
Klondike River	Reach 1	7514	0p5-CC-LC_OW_yuk	1247.40	330.29	334.99		335.36	0.002037	3.05	603.02	799.83	0.53
Klondike River	Reach 1	6800	5_OW_klondike	696.00	327.67	331.92		332.35	0.002034	2.93	243.69	335.46	0.52
Klondike River	Reach 1	6800	5_OW_yukon	588.00	327.67	331.60		331.98	0.002104	2.77	215.59	286.79	0.52
Klondike River	Reach 1	6800	1_OW_klondike	882.00	327.67	332.47		332.96	0.001865	3.12	293.69	418.74	0.52
Klondike River	Reach 1	6800	1_OW_yukon	798.00	327.67	332.22		332.69	0.001944	3.04	270.97	382.03	0.52
Klondike River	Reach 1	6800	0p5_OW_klondike	964.00	327.67	332.71		333.22	0.001793	3.19	316.12	457.45	0.51
Klondike River	Reach 1	6800	0p5_OW_yukon	891.00	327.67	332.50		332.99	0.001857	3.13	296.14	422.08	0.52
Klondike River	Reach 1	6800	0p5-CC-LC_OW_klo	1349.60	327.67	333.80		334.36	0.001473	3.40	424.72	815.13	0.48
Klondike River	Reach 1	6800	0p5-CC-LC_OW_yuk	1247.40	327.67	333.52		334.07	0.001545	3.35	395.80	774.92	0.49
Klondike River	Reach 1	6650	5_OW_klondike	696.00	327.66	331.83		332.05	0.001314	2.24	344.41	475.26	0.42
Klondike River	Reach 1	6650	5_OW_yukon	588.00	327.66	331.44		331.67	0.001588	2.24	290.19	399.37	0.45
Klondike River	Reach 1	6650	1_OW_klondike	882.00	327.66	332.46		332.68	0.001024	2.25	435.49	674.76	0.38
Klondike River	Reach 1	6650	1_OW_yukon	798.00	327.66	332.18		332.40	0.001135	2.24	394.88	526.05	0.39
Klondike River	Reach 1	6650	0p5_OW_klondike	964.00	327.66	332.72		332.95	0.000939	2.26	474.43	772.34	0.37
Klondike River	Reach 1	6650	0p5_OW_yukon	891.00	327.66	332.49		332.71	0.001014	2.25	439.80	693.61	0.38
Klondike River	Reach 1	6650	0p5-CC-LC_OW_klo	1349.60	327.66	333.88		334.12	0.000701	2.33	649.49	957.34	0.33
Klondike River	Reach 1	6650	0p5-CC-LC_OW_yuk	1247.40	327.66	333.59		333.82	0.000747	2.31	604.29	913.63	0.34
Klondike River	Reach 1	6563	5_OW_klondike	696.00	327.63	331.76		331.95	0.001025	1.95	388.81	371.65	0.37
Klondike River	Reach 1	6563	5_OW_yukon	588.00	327.63	331.36		331.54	0.001211	1.91	331.83	275.80	0.39
Klondike River	Reach 1	6563	1_OW_klondike	882.00	327.63	332.40		332.60	0.000837	2.01	482.82	598.37	0.34
Klondike River	Reach 1	6563	1_OW_yukon	798.00	327.63	332.12		332.31	0.000908	1.98	440.75	500.97	0.35
Klondike River	Reach 1	6563	0p5_OW_klondike	964.00	327.63	332.67		332.87	0.000782	2.04	523.65	706.80	0.34
Klondike River	Reach 1	6563	0p5_OW_yukon	891.00	327.63	332.43		332.63	0.000830	2.01	487.31	606.17	0.34
Klondike River	Reach 1	6563	0p5-CC-LC_OW_klo	1349.60	327.63	333.84		334.06	0.000610	2.16	706.16	923.50	0.31

HEC-RAS Plan: OW_AEP (Continued)

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Klondike River	Reach 1	6563	0p5-CC-LC_OW_yuk	1247.40	327.63	333.54		333.76	0.000643	2.13	659.36	875.49	0.31
Klondike River	Reach 1	6400	5_OW_klondike	696.00	325.72	331.41		331.72	0.001810	2.46	283.68	462.49	0.41
Klondike River	Reach 1	6400	5_OW_yukon	588.00	325.72	331.02		331.29	0.001868	2.32	253.33	262.92	0.41
Klondike River	Reach 1	6400	1_OW_klondike	882.00	325.72	332.03		332.39	0.001732	2.66	332.21	585.44	0.41
Klondike River	Reach 1	6400	1_OW_yukon	798.00	325.72	331.76		332.10	0.001763	2.57	310.75	556.50	0.41
Klondike River	Reach 1	6400	0p5_OW_klondike	964.00	325.72	332.29		332.67	0.001705	2.75	352.61	615.53	0.41
Klondike River	Reach 1	6400	0p5_OW_yukon	891.00	325.72	332.06		332.43	0.001729	2.67	334.47	591.26	0.41
Klondike River	Reach 1	6400	0p5-CC-LC_OW_klo	1349.60	325.72	333.40		333.88	0.001617	3.09	443.12	698.60	0.41
Klondike River	Reach 1	6400	0p5-CC-LC_OW_yuk	1247.40	325.72	333.12		333.58	0.001636	3.01	419.89	681.35	0.41
Klondike River	Reach 1	6300	5_OW_klondike	696.00	325.66	331.11		331.54	0.001544	2.92	246.53	339.11	0.47
Klondike River	Reach 1	6300	5_OW_yukon	588.00	325.66	330.73		331.11	0.001574	2.75	218.00	159.50	0.47
Klondike River	Reach 1	6300	1_OW_klondike	882.00	325.66	331.72		332.22	0.001487	3.16	296.04	462.49	0.48
Klondike River	Reach 1	6300	1_OW_yukon	798.00	325.66	331.45		331.92	0.001513	3.05	273.69	415.18	0.47
Klondike River	Reach 1	6300	0p5_OW_klondike	964.00	325.66	331.98		332.50	0.001461	3.25	317.75	497.19	0.48
Klondike River	Reach 1	6300	0p5_OW_yukon	891.00	325.66	331.75		332.25	0.001484	3.17	298.43	467.57	0.48
Klondike River	Reach 1	6300	0p5-CC-LC_OW_klo	1349.60	325.66	333.09		333.72	0.001348	3.59	418.75	694.01	0.47
Klondike River	Reach 1	6300	0p5-CC-LC_OW_yuk	1247.40	325.66	332.81		333.41	0.001377	3.51	392.45	645.60	0.47
Klondike River	Reach 1	6200	5_OW_klondike	696.00	325.60	331.02		331.37	0.001403	2.63	281.14	368.16	0.43
Klondike River	Reach 1	6200	5_OW_yukon	588.00	325.60	330.62		330.94	0.001461	2.50	241.94	242.68	0.43
Klondike River	Reach 1	6200	1_OW_klondike	882.00	325.60	331.66		332.05	0.001298	2.80	349.65	472.99	0.42
Klondike River	Reach 1	6200	1_OW_yukon	798.00	325.60	331.37		331.75	0.001343	2.73	318.95	412.01	0.42
Klondike River	Reach 1	6200	0p5_OW_klondike	964.00	325.60	331.93		332.33	0.001255	2.86	379.12	530.45	0.42
Klondike River	Reach 1	6200	0p5_OW_yukon	891.00	325.60	331.69		332.08	0.001293	2.81	352.93	479.72	0.42
Klondike River	Reach 1	6200	0p5-CC-LC_OW_klo	1349.60	325.60	333.09		333.55	0.001103	3.10	509.28	625.47	0.41
Klondike River	Reach 1	6200	0p5-CC-LC_OW_yuk	1247.40	325.60	332.79		333.24	0.001137	3.05	475.89	617.62	0.41
Klondike River	Reach 1	6150	5_OW_klondike	696.00	325.56	330.81		331.28	0.001648	3.05	230.91	167.59	0.49
Klondike River	Reach 1	6150	5_OW_yukon	588.00	325.56	330.44		330.85	0.001631	2.84	208.16	123.94	0.48
Klondike River	Reach 1	6150	1_OW_klondike	882.00	325.56	331.38		331.95	0.001671	3.36	267.51	383.58	0.50
Klondike River	Reach 1	6150	1_OW_yukon	798.00	325.56	331.13		331.66	0.001662	3.22	251.30	306.84	0.50
Klondike River	Reach 1	6150	0p5_OW_klondike	964.00	325.56	331.62		332.23	0.001678	3.48	282.95	439.05	0.51
Klondike River	Reach 1	6150	0p5_OW_yukon	891.00	325.56	331.41		331.98	0.001672	3.37	269.22	393.89	0.50
Klondike River	Reach 1	6150	0p5-CC-LC_OW_klo	1349.60	325.56	332.65		333.44	0.001687	3.97	355.57	503.90	0.53
Klondike River	Reach 1	6150	0p5-CC-LC_OW_yuk	1247.40	325.56	332.39		333.14	0.001689	3.86	335.85	473.94	0.52
Klondike River	Reach 1	6100	5_OW_klondike	696.00	325.53	330.68		331.19	0.001832	3.15	222.83	193.93	0.51
Klondike River	Reach 1	6100	5_OW_yukon	588.00	325.53	330.32		330.76	0.001819	2.94	200.95	169.50	0.50
Klondike River	Reach 1	6100	1_OW_klondike	882.00	325.53	331.25		331.86	0.001847	3.46	258.24	397.19	0.53
Klondike River	Reach 1	6100	1_OW_yukon	798.00	325.53	331.00		331.57	0.001841	3.33	242.52	300.44	0.52
Klondike River	Reach 1	6100	0p5_OW_klondike	964.00	325.53	331.49		332.14	0.001850	3.59	273.85	442.73	0.53
Klondike River	Reach 1	6100	0p5_OW_yukon	891.00	325.53	331.28		331.89	0.001848	3.48	259.92	403.38	0.53
Klondike River	Reach 1	6100	0p5-CC-LC_OW_klo	1349.60	325.53	332.51		333.35	0.001842	4.09	342.82	542.48	0.55
Klondike River	Reach 1	6100	0p5-CC-LC_OW_yuk	1247.40	325.53	332.25		333.05	0.001846	3.97	325.24	508.00	0.54
Klondike River	Reach 1	6050	5_OW_klondike	696.00	325.50	330.62		331.09	0.001644	3.04	232.48	175.99	0.49
Klondike River	Reach 1	6050	5_OW_yukon	588.00	325.50	330.26		330.67	0.001622	2.83	209.74	151.84	0.48
Klondike River	Reach 1	6050	1_OW_klondike	882.00	325.50	331.19		331.76	0.001670	3.35	269.40	304.61	0.50
Klondike River	Reach 1	6050	1_OW_yukon	798.00	325.50	330.94		331.47	0.001660	3.22	253.00	230.59	0.50
Klondike River	Reach 1	6050	0p5_OW_klondike	964.00	325.50	331.43		332.04	0.001677	3.48	285.09	380.04	0.51
Klondike River	Reach 1	6050	0p5_OW_yukon	891.00	325.50	331.22		331.79	0.001671	3.37	271.13	315.95	0.50
Klondike River	Reach 1	6050	0p5-CC-LC_OW_klo	1349.60	325.50	332.46		333.25	0.001687	3.97	357.01	543.75	0.53
Klondike River	Reach 1	6050	0p5-CC-LC_OW_yuk	1247.40	325.50	332.20		332.94	0.001688	3.85	337.48	519.30	0.52
Klondike River	Reach 1	6000	5_OW_klondike	696.00	325.48	330.49		331.00	0.002065	3.16	222.99	166.85	0.52
Klondike River	Reach 1	6000	5_OW_yukon	588.00	325.48	330.13		330.57	0.002058	2.95	200.11	144.12	0.51
Klondike River	Reach 1	6000	1_OW_klondike	882.00	325.48	331.06		331.67	0.002066	3.47	261.03	234.04	0.53
Klondike River	Reach 1	6000	1_OW_yukon	798.00	325.48	330.81		331.37	0.002067	3.33	244.14	193.39	0.52
Klondike River	Reach 1	6000	0p5_OW_klondike	964.00	325.48	331.30		331.94	0.002062	3.59	277.16	289.35	0.53
Klondike River	Reach 1	6000	0p5_OW_yukon	891.00	325.48	331.08		331.70	0.002066	3.48	262.81	237.13	0.53
Klondike River	Reach 1	6000	0p5-CC-LC_OW_klo	1349.60	325.48	332.33		333.15	0.002011	4.05	355.89	493.04	0.54
Klondike River	Reach 1	6000	0p5-CC-LC_OW_yuk	1247.40	325.48	332.07		332.85	0.002029	3.94	335.12	485.18	0.54
Klondike River	Reach 1	5950	5_OW_klondike	696.00	325.47	330.30		330.88	0.002331	3.37	208.54	110.19	0.56
Klondike River	Reach 1	5950	5_OW_yukon	588.00	325.47	329.95		330.46	0.002320	3.15	187.74	101.95	0.55
Klondike River	Reach 1	5950	1_OW_klondike	882.00	325.47	330.85		331.55	0.002336	3.70	242.52	152.37	0.57
Klondike River	Reach 1	5950	1_OW_yukon	798.00	325.47	330.61		331.25	0.002335	3.56	227.44	128.91	0.57
Klondike River	Reach 1	5950	0p5_OW_klondike	964.00	325.47	331.08		331.83	0.002334	3.83	256.95	216.02	0.58
Klondike River	Reach 1	5950	0p5_OW_yukon	891.00	325.47	330.88		331.58	0.002336	3.72	244.11	159.53	0.57
Klondike River	Reach 1	5950	0p5-CC-LC_OW_klo	1349.60	325.47	332.08		333.03	0.002305	4.35	323.23	437.58	0.59
Klondike River	Reach 1	5950	0p5-CC-LC_OW_yuk	1247.40	325.47	331.83		332.73	0.002313	4.22	305.21	405.57	0.59
Klondike River	Reach 1	5900	5_OW_klondike	696.00	325.42	330.20		330.76	0.002131	3.32	212.06	128.87	0.55
Klondike River	Reach 1	5900	5_OW_yukon	588.00	325.42	329.85		330.34	0.002125	3.10	190.87	122.28	0.54
Klondike River	Reach 1	5900	1_OW_klondike	882.00	325.42	330.76		331.43	0.002132	3.64	248.19	180.34	0.56
Klondike River	Reach 1	5900	1_OW_yukon	798.00	325.42	330.51		331.14	0.002133	3.50	232.03	149.30	0.56
Klondike River	Reach 1	5900	0p5_OW_klondike	964.00	325.42	330.99		331.71	0.002127	3.77	263.56	294.80	0.57
Klondike River	Reach 1	5900	0p5_OW_yukon	891.00	325.42	330.79		331.46	0.002132	3.66	249.89	183.90	0.56
Klondike River	Reach 1	5900	0p5-CC-LC_OW_klo	1349.60	325.42	332.00		332.91	0.002088	4.27	331.19	388.39	0.58
Klondike River	Reach 1	5900	0p5-CC-LC_OW_yuk	1247.40	325.42	331.74		332.61	0.002098	4.15	313.96	378.11	0.58
Klondike River	Reach 1	5850	5_OW_klondike	696.00	325.40	329.71		330.59	0.003842	4.15	168.80	115.92	0.72
Klondike River	Reach 1	5850	5_OW_yukon	588.00	325.40	329.43		330.18	0.003712	3.84	153.56	108.64	0.70
Klondike River	Reach 1	5850	1_OW_klondike	882.00	325.40	330.16		331.25	0.004044	4.63	192.87	126.64	0.76
Klondike River	Reach 1	5850	1_OW_yukon	798.00	325.40	329.97		330.96	0.003953	4.42	182.33	121.55	0.74
Klondike River	Reach 1	5850	0p5_OW_klondike	964.00	325.40	330.34		331.52	0.004117	4.82	202.96	132.32	0.77
Klondike River	Reach 1	5850	0p5_OW_yukon	891.00	325.40	330.18		331.28	0.004053	4.65	193.98	127.21	0.76
Klondike River	Reach 1	5850	0p5-CC-LC_OW_klo	1349.60	325.40	331.14	330.60	332.70	0.004322	5.58	249.38	341.02	0.82

HEC-RAS Plan: OW_AEP (Continued)

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Klondike River	Reach 1	5850	0p5-CC-LC_OW_yuk	1247.40	325.40	330.93	330.38	332.40	0.004288	5.40	237.24	239.96	0.81
Klondike River	Reach 1	5800	5_OW_klondike	696.00	325.36	329.63		330.37	0.003278	3.82	183.28	173.71	0.67
Klondike River	Reach 1	5800	5_OW_yukon	588.00	325.36	329.33		329.97	0.003210	3.55	166.18	147.13	0.65
Klondike River	Reach 1	5800	1_OW_klondike	882.00	325.36	330.09		331.01	0.003400	4.24	210.13	199.21	0.70
Klondike River	Reach 1	5800	1_OW_yukon	798.00	325.36	329.89		330.73	0.003343	4.06	198.39	187.54	0.68
Klondike River	Reach 1	5800	0p5_OW_klondike	964.00	325.36	330.28		331.27	0.003443	4.41	221.35	208.88	0.71
Klondike River	Reach 1	5800	0p5_OW_yukon	891.00	325.36	330.11		331.04	0.003405	4.26	211.36	200.24	0.70
Klondike River	Reach 1	5800	0p5-CC-LC_OW_klo	1349.60	325.36	331.12		332.43	0.003542	5.08	271.43	401.51	0.74
Klondike River	Reach 1	5800	0p5-CC-LC_OW_yuk	1247.40	325.36	330.91		332.14	0.003527	4.92	258.54	380.08	0.73
Klondike River	Reach 1	5750	5_OW_klondike	696.00	325.34	329.44		330.20	0.003437	3.87	181.29	209.63	0.68
Klondike River	Reach 1	5750	5_OW_yukon	588.00	325.34	329.14		329.81	0.003392	3.61	163.77	191.49	0.67
Klondike River	Reach 1	5750	1_OW_klondike	882.00	325.34	329.91		330.84	0.003489	4.27	209.72	235.41	0.71
Klondike River	Reach 1	5750	1_OW_yukon	798.00	325.34	329.71		330.56	0.003471	4.10	197.10	220.14	0.70
Klondike River	Reach 1	5750	0p5_OW_klondike	964.00	325.34	330.11		331.10	0.003498	4.42	221.79	251.68	0.71
Klondike River	Reach 1	5750	0p5_OW_yukon	891.00	325.34	329.94		330.87	0.003491	4.28	211.05	237.71	0.71
Klondike River	Reach 1	5750	0p5-CC-LC_OW_klo	1349.60	325.34	330.99		332.24	0.003428	5.00	276.86	489.65	0.73
Klondike River	Reach 1	5750	0p5-CC-LC_OW_yuk	1247.40	325.34	330.76		331.95	0.003459	4.87	262.45	445.87	0.73
Klondike River	Reach 1	5724	5_OW_klondike	696.00	325.30	329.43		330.09	0.002860	3.59	195.02	182.77	0.63
Klondike River	Reach 1	5724	5_OW_yukon	588.00	325.30	329.13		329.70	0.002816	3.35	176.46	170.46	0.61
Klondike River	Reach 1	5724	1_OW_klondike	882.00	325.30	329.92		330.72	0.002918	3.97	224.72	205.75	0.65
Klondike River	Reach 1	5724	1_OW_yukon	798.00	325.30	329.70		330.44	0.002895	3.81	211.58	194.10	0.64
Klondike River	Reach 1	5724	0p5_OW_klondike	964.00	325.30	330.12		330.98	0.002931	4.12	237.27	253.99	0.65
Klondike River	Reach 1	5724	0p5_OW_yukon	891.00	325.30	329.94		330.75	0.002920	3.99	226.11	208.34	0.65
Klondike River	Reach 1	5724	0p5-CC-LC_OW_klo	1349.60	325.30	331.00		332.11	0.002928	4.70	293.75	477.03	0.68
Klondike River	Reach 1	5724	0p5-CC-LC_OW_yuk	1247.40	325.30	330.78		331.82	0.002939	4.56	279.01	452.77	0.67
Klondike River	Reach 1	5650	5_OW_klondike	696.00	325.13	329.11		329.86	0.003409	3.82	183.44	221.19	0.68
Klondike River	Reach 1	5650	5_OW_yukon	588.00	325.13	328.83		329.47	0.003326	3.54	166.48	129.80	0.66
Klondike River	Reach 1	5650	1_OW_klondike	882.00	325.13	329.57		330.47	0.003506	4.23	211.11	280.11	0.71
Klondike River	Reach 1	5650	1_OW_yukon	798.00	325.13	329.37		330.20	0.003475	4.05	198.69	270.69	0.70
Klondike River	Reach 1	5650	0p5_OW_klondike	964.00	325.13	329.76		330.73	0.003522	4.38	223.14	295.53	0.71
Klondike River	Reach 1	5650	0p5_OW_yukon	891.00	325.13	329.59		330.50	0.003508	4.25	212.44	281.02	0.71
Klondike River	Reach 1	5650	0p5-CC-LC_OW_klo	1349.60	325.13	330.63		331.87	0.003430	4.96	280.39	412.91	0.73
Klondike River	Reach 1	5650	0p5-CC-LC_OW_yuk	1247.40	325.13	330.40		331.58	0.003481	4.83	264.95	390.15	0.73
Klondike River	Reach 1	5550	5_OW_klondike	696.00	324.87	328.61		329.46	0.004332	4.08	171.17	127.86	0.76
Klondike River	Reach 1	5550	5_OW_yukon	588.00	324.87	328.37		329.09	0.004092	3.75	157.09	109.15	0.73
Klondike River	Reach 1	5550	1_OW_klondike	882.00	324.87	328.96		330.04	0.004763	4.61	192.31	146.76	0.81
Klondike River	Reach 1	5550	1_OW_yukon	798.00	324.87	328.81		329.79	0.004568	4.38	183.16	139.32	0.79
Klondike River	Reach 1	5550	0p5_OW_klondike	964.00	324.87	329.10		330.29	0.004958	4.84	200.66	173.86	0.83
Klondike River	Reach 1	5550	0p5_OW_yukon	891.00	324.87	328.98		330.07	0.004784	4.64	193.25	147.51	0.81
Klondike River	Reach 1	5550	0p5-CC-LC_OW_klo	1349.60	324.87	329.64	329.49	331.37	0.005946	5.84	233.76	239.25	0.93
Klondike River	Reach 1	5550	0p5-CC-LC_OW_yuk	1247.40	324.87	329.51	329.28	331.09	0.005669	5.58	225.89	231.44	0.91
Klondike River	Reach 1	5400	5_OW_klondike	696.00	324.48	328.32		328.85	0.002769	3.23	216.33	141.47	0.61
Klondike River	Reach 1	5400	5_OW_yukon	588.00	324.48	328.06		328.51	0.002700	2.99	196.69	132.54	0.59
Klondike River	Reach 1	5400	1_OW_klondike	882.00	324.48	328.71		329.37	0.002909	3.60	246.50	227.90	0.63
Klondike River	Reach 1	5400	1_OW_yukon	798.00	324.48	328.54		329.14	0.002847	3.44	233.29	181.78	0.62
Klondike River	Reach 1	5400	0p5_OW_klondike	964.00	324.48	328.86		329.58	0.002969	3.75	258.82	240.44	0.65
Klondike River	Reach 1	5400	0p5_OW_yukon	891.00	324.48	328.72		329.39	0.002916	3.62	247.88	229.24	0.63
Klondike River	Reach 1	5400	0p5-CC-LC_OW_klo	1349.60	324.48	329.53		330.50	0.003212	4.39	311.58	299.80	0.69
Klondike River	Reach 1	5400	0p5-CC-LC_OW_yuk	1247.40	324.48	329.36		330.27	0.003153	4.23	298.28	278.08	0.68
Klondike River	Reach 1	5200	5_OW_klondike	696.00	323.95	328.00		328.36	0.001745	2.66	262.17	191.81	0.48
Klondike River	Reach 1	5200	5_OW_yukon	588.00	323.95	327.75		328.05	0.001654	2.45	240.33	178.60	0.47
Klondike River	Reach 1	5200	1_OW_klondike	882.00	323.95	328.38		328.84	0.001891	2.99	295.75	220.49	0.51
Klondike River	Reach 1	5200	1_OW_yukon	798.00	323.95	328.22		328.63	0.001828	2.85	280.97	200.36	0.50
Klondike River	Reach 1	5200	0p5_OW_klondike	964.00	323.95	328.54		329.04	0.001948	3.13	309.91	247.97	0.53
Klondike River	Reach 1	5200	0p5_OW_yukon	891.00	323.95	328.40		328.86	0.001898	3.01	297.31	224.93	0.52
Klondike River	Reach 1	5200	0p5-CC-LC_OW_klo	1349.60	323.95	329.21		329.89	0.002144	3.68	372.38	414.05	0.57
Klondike River	Reach 1	5200	0p5-CC-LC_OW_yuk	1247.40	323.95	329.04		329.68	0.002101	3.54	356.34	359.32	0.56
Klondike River	Reach 1	4950	5_OW_klondike	696.00	323.31	327.50		327.85	0.002360	2.69	307.43	384.13	0.54
Klondike River	Reach 1	4950	5_OW_yukon	588.00	323.31	327.24		327.56	0.002376	2.55	263.92	330.28	0.54
Klondike River	Reach 1	4950	1_OW_klondike	882.00	323.31	327.91		328.31	0.002209	2.88	382.80	452.78	0.54
Klondike River	Reach 1	4950	1_OW_yukon	798.00	323.31	327.72		328.11	0.002280	2.80	348.71	415.99	0.54
Klondike River	Reach 1	4950	0p5_OW_klondike	964.00	323.31	328.08		328.50	0.002145	2.95	415.57	476.89	0.53
Klondike River	Reach 1	4950	0p5_OW_yukon	891.00	323.31	327.93		328.33	0.002202	2.89	386.43	455.28	0.54
Klondike River	Reach 1	4950	0p5-CC-LC_OW_klo	1349.60	323.31	328.85		329.32	0.001890	3.21	563.84	590.78	0.52
Klondike River	Reach 1	4950	0p5-CC-LC_OW_yuk	1247.40	323.31	328.65		329.11	0.001948	3.14	525.66	563.53	0.52
Klondike River	Reach 1	4694	5_OW_klondike	696.00	322.84	327.13		327.36	0.001393	2.18	349.52	461.73	0.42
Klondike River	Reach 1	4694	5_OW_yukon	588.00	322.84	326.85		327.06	0.001445	2.07	307.97	429.90	0.42
Klondike River	Reach 1	4694	1_OW_klondike	882.00	322.84	327.57		327.84	0.001330	2.36	419.41	506.13	0.42
Klondike River	Reach 1	4694	1_OW_yukon	798.00	322.84	327.37		327.63	0.001358	2.28	387.85	486.85	0.42
Klondike River	Reach 1	4694	0p5_OW_klondike	964.00	322.84	327.75		328.04	0.001306	2.43	449.94	518.61	0.42
Klondike River	Reach 1	4694	0p5_OW_yukon	891.00	322.84	327.59		327.87	0.001327	2.37	422.77	508.13	0.42
Klondike River	Reach 1	4694	0p5-CC-LC_OW_klo	1349.60	322.84	328.56		328.91	0.001204	2.69	589.46	599.75	0.42
Klondike River	Reach 1	4694	0p5-CC-LC_OW_yuk	1247.40	322.84	328.35		328.69	0.001228	2.63	553.48	585.64	0.42
Klondike River	Reach 1	4150	5_OW_klondike	696.00	322.29	325.82		326.28	0.002912	3.00	232.33	259.21	0.58
Klondike River	Reach 1	4150	5_OW_yukon	588.00	322.29	325.62	324.75	326.00	0.002668	2.74	215.05	250.09	0.55
Klondike River	Reach 1	4150	1_OW_klondike	882.00	322.29	326.15		326.74	0.003200	3.39	260.97	273.45	0.62
Klondike River	Reach 1	4150	1_OW_yukon	798.00	322.29	326.00		326.53	0.003109	3.23	247.60	266.50	0.60
Klondike River	Reach 1	4150	0p5_OW_klondike	964.00	322.29	326.30		326.93	0.003273	3.54	273.73	319.23	0.63
Klondike River	Reach 1	4150	0p5_OW_yukon	891.00	322.29	326.17		326.76	0.003211	3.41	262.33	275.11	0.62
Klondike River	Reach 1	4150	0p5-CC-LC_OW_klo	1349.60	322.29	326.96		327.82	0.003441	4.10	332.17	414.12	0.66

HEC-RAS Plan: OW_AEP (Continued)

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Klondike River	Reach 1	4150	0p5-CC-LC_OW_yuk	1247.40	322.29	326.79		327.59	0.003407	3.97	317.14	391.94	0.66
Klondike River	Reach 1	3843	5_OW_klondike	696.00	322.07	324.66		325.18	0.004409	3.20	218.14	195.62	0.72
Klondike River	Reach 1	3843	5_OW_yukon	588.00	322.07	324.36		324.87	0.005182	3.16	186.28	189.48	0.76
Klondike River	Reach 1	3843	1_OW_klondike	882.00	322.07	325.14		325.68	0.003572	3.26	272.30	216.06	0.66
Klondike River	Reach 1	3843	1_OW_yukon	798.00	322.07	324.93		325.46	0.003899	3.24	247.96	206.09	0.69
Klondike River	Reach 1	3843	0p5_OW_klondike	964.00	322.07	325.35		325.89	0.003316	3.29	295.71	226.23	0.65
Klondike River	Reach 1	3843	0p5_OW_yukon	891.00	322.07	325.16		325.71	0.003542	3.27	274.84	217.54	0.66
Klondike River	Reach 1	3843	0p5-CC-LC_OW_klo	1349.60	322.07	326.22		326.81	0.002633	3.41	402.82	327.83	0.60
Klondike River	Reach 1	3843	0p5-CC-LC_OW_yuk	1247.40	322.07	325.99		326.58	0.002808	3.39	373.69	297.50	0.61
Klondike River	Reach 1	3700	5_OW_klondike	696.00	320.95	324.75		324.86	0.000668	1.49	467.71	296.74	0.29
Klondike River	Reach 1	3700	5_OW_yukon	588.00	320.95	324.42		324.53	0.000733	1.44	410.38	286.31	0.30
Klondike River	Reach 1	3700	1_OW_klondike	882.00	320.95	325.26		325.39	0.000594	1.58	560.25	320.54	0.28
Klondike River	Reach 1	3700	1_OW_yukon	798.00	320.95	325.03		325.15	0.000623	1.54	519.31	312.13	0.29
Klondike River	Reach 1	3700	0p5_OW_klondike	964.00	320.95	325.47		325.61	0.000571	1.62	598.73	327.89	0.28
Klondike River	Reach 1	3700	0p5_OW_yukon	891.00	320.95	325.28		325.41	0.000591	1.59	564.49	321.36	0.28
Klondike River	Reach 1	3700	0p5-CC-LC_OW_klo	1349.60	320.95	326.38		326.54	0.000504	1.79	766.11	444.49	0.28
Klondike River	Reach 1	3700	0p5-CC-LC_OW_yuk	1247.40	320.95	326.15		326.30	0.000521	1.75	722.47	393.57	0.28
Klondike River	Reach 1	3600	5_OW_klondike	696.00	320.47	324.25		324.71	0.002729	3.05	260.20	208.85	0.58
Klondike River	Reach 1	3600	5_OW_yukon	588.00	320.47	323.96		324.37	0.002869	2.90	228.52	197.52	0.59
Klondike River	Reach 1	3600	1_OW_klondike	882.00	320.47	324.72		325.24	0.002568	3.28	311.76	231.48	0.58
Klondike River	Reach 1	3600	1_OW_yukon	798.00	320.47	324.51		325.01	0.002635	3.18	288.81	223.66	0.58
Klondike River	Reach 1	3600	0p5_OW_klondike	964.00	320.47	324.91		325.46	0.002516	3.37	333.39	237.96	0.58
Klondike River	Reach 1	3600	0p5_OW_yukon	891.00	320.47	324.74		325.27	0.002564	3.29	314.11	232.17	0.58
Klondike River	Reach 1	3600	0p5-CC-LC_OW_klo	1349.60	320.47	325.72		326.40	0.002358	3.76	428.36	292.88	0.58
Klondike River	Reach 1	3600	0p5-CC-LC_OW_yuk	1247.40	320.47	325.51		326.16	0.002410	3.67	402.85	272.20	0.58
Klondike River	Reach 1	3500	5_OW_klondike	696.00	320.12	324.04		324.46	0.002148	2.90	273.87	238.91	0.52
Klondike River	Reach 1	3500	5_OW_yukon	588.00	320.12	323.73		324.11	0.002192	2.74	230.97	210.31	0.51
Klondike River	Reach 1	3500	1_OW_klondike	882.00	320.12	324.54		325.00	0.001996	3.08	350.52	264.98	0.51
Klondike River	Reach 1	3500	1_OW_yukon	798.00	320.12	324.32		324.76	0.002066	3.01	316.01	252.56	0.51
Klondike River	Reach 1	3500	0p5_OW_klondike	964.00	320.12	324.75		325.22	0.001938	3.15	383.13	276.80	0.51
Klondike River	Reach 1	3500	0p5_OW_yukon	891.00	320.12	324.56		325.02	0.001991	3.09	354.03	266.24	0.51
Klondike River	Reach 1	3500	0p5-CC-LC_OW_klo	1349.60	320.12	325.62		326.16	0.001776	3.45	532.49	339.36	0.50
Klondike River	Reach 1	3500	0p5-CC-LC_OW_yuk	1247.40	320.12	325.38		325.92	0.001837	3.39	489.87	323.67	0.51
Klondike River	Reach 1	3450	5_OW_klondike	696.00	319.97	323.87		324.33	0.002747	3.13	275.33	310.25	0.57
Klondike River	Reach 1	3450	5_OW_yukon	588.00	319.97	323.55		323.98	0.002936	3.01	233.75	248.20	0.57
Klondike River	Reach 1	3450	1_OW_klondike	882.00	319.97	324.39		324.88	0.002518	3.32	351.87	354.45	0.55
Klondike River	Reach 1	3450	1_OW_yukon	798.00	319.97	324.17		324.64	0.002579	3.22	318.31	336.70	0.56
Klondike River	Reach 1	3450	0p5_OW_klondike	964.00	319.97	324.58		325.11	0.002494	3.42	382.55	361.46	0.56
Klondike River	Reach 1	3450	0p5_OW_yukon	891.00	319.97	324.41		324.91	0.002506	3.33	355.57	355.55	0.55
Klondike River	Reach 1	3450	0p5-CC-LC_OW_klo	1349.60	319.97	325.52		326.06	0.002036	3.58	533.33	392.70	0.52
Klondike River	Reach 1	3450	0p5-CC-LC_OW_yuk	1247.40	319.97	325.28		325.82	0.002142	3.54	493.91	382.42	0.53
Klondike River	Reach 1	3400	5_OW_klondike	696.00	319.80	323.45		324.15	0.003992	3.72	198.46	117.38	0.70
Klondike River	Reach 1	3400	5_OW_yukon	588.00	319.80	323.18		323.79	0.003988	3.49	174.20	98.30	0.69
Klondike River	Reach 1	3400	1_OW_klondike	882.00	319.80	323.91	323.27	324.70	0.003800	4.01	249.77	144.81	0.70
Klondike River	Reach 1	3400	1_OW_yukon	798.00	319.80	323.70	323.08	324.46	0.003916	3.90	225.07	133.85	0.70
Klondike River	Reach 1	3400	0p5_OW_klondike	964.00	319.80	324.11	323.45	324.93	0.003655	4.09	275.59	156.13	0.69
Klondike River	Reach 1	3400	0p5_OW_yukon	891.00	319.80	323.93	323.30	324.73	0.003780	4.02	252.65	146.20	0.70
Klondike River	Reach 1	3400	0p5-CC-LC_OW_klo	1349.60	319.80	325.12		325.92	0.002719	4.17	419.01	253.84	0.62
Klondike River	Reach 1	3400	0p5-CC-LC_OW_yuk	1247.40	319.80	324.85		325.67	0.002946	4.17	380.31	233.69	0.64
Klondike River	Reach 1	3350	5_OW_klondike	696.00	319.64	323.34		323.93	0.003421	3.43	213.23	110.49	0.64
Klondike River	Reach 1	3350	5_OW_yukon	588.00	319.64	323.06		323.58	0.003418	3.21	190.02	103.74	0.63
Klondike River	Reach 1	3350	1_OW_klondike	882.00	319.64	323.81		324.50	0.003278	3.71	254.15	115.37	0.64
Klondike River	Reach 1	3350	1_OW_yukon	798.00	319.64	323.60		324.24	0.003352	3.59	235.66	113.62	0.64
Klondike River	Reach 1	3350	0p5_OW_klondike	964.00	319.64	324.01		324.73	0.003218	3.81	271.60	116.82	0.64
Klondike River	Reach 1	3350	0p5_OW_yukon	891.00	319.64	323.83		324.52	0.003270	3.72	256.12	115.55	0.64
Klondike River	Reach 1	3350	0p5-CC-LC_OW_klo	1349.60	319.64	324.92		325.78	0.002864	4.19	361.50	194.94	0.63
Klondike River	Reach 1	3350	0p5-CC-LC_OW_yuk	1247.40	319.64	324.69		325.52	0.002950	4.10	337.04	150.40	0.63
Klondike River	Reach 1	3300	5_OW_klondike	696.00	319.48	323.11		323.75	0.003649	3.61	229.39	126.60	0.69
Klondike River	Reach 1	3300	5_OW_yukon	588.00	319.48	322.80		323.39	0.003908	3.46	198.36	120.49	0.70
Klondike River	Reach 1	3300	1_OW_klondike	882.00	319.48	323.60		324.32	0.003363	3.86	282.41	150.29	0.68
Klondike River	Reach 1	3300	1_OW_yukon	798.00	319.48	323.38		324.07	0.003505	3.76	257.58	139.45	0.69
Klondike River	Reach 1	3300	0p5_OW_klondike	964.00	319.48	323.83		324.57	0.003182	3.93	307.77	160.92	0.67
Klondike River	Reach 1	3300	0p5_OW_yukon	891.00	319.48	323.63		324.35	0.003341	3.87	285.23	151.20	0.68
Klondike River	Reach 1	3300	0p5-CC-LC_OW_klo	1349.60	319.48	324.82		325.63	0.002578	4.17	422.18	233.99	0.63
Klondike River	Reach 1	3300	0p5-CC-LC_OW_yuk	1247.40	319.48	324.58		325.37	0.002677	4.10	394.33	217.57	0.63
Klondike River	Reach 1	3275	5_OW_klondike	696.00	319.45	322.81		323.62	0.006063	3.99	174.66	173.10	0.81
Klondike River	Reach 1	3275	5_OW_yukon	588.00	319.45	322.51		323.25	0.006530	3.83	153.46	166.62	0.82
Klondike River	Reach 1	3275	1_OW_klondike	882.00	319.45	323.29		324.20	0.005372	4.23	209.52	196.28	0.78
Klondike River	Reach 1	3275	1_OW_yukon	798.00	319.45	323.08		323.94	0.005662	4.13	193.86	183.35	0.79
Klondike River	Reach 1	3275	0p5_OW_klondike	964.00	319.45	323.50		324.45	0.005122	4.32	224.64	201.45	0.77
Klondike River	Reach 1	3275	0p5_OW_yukon	891.00	319.45	323.32		324.23	0.005342	4.24	211.20	196.57	0.78
Klondike River	Reach 1	3275	0p5-CC-LC_OW_klo	1349.60	319.45	324.39		325.52	0.004402	4.71	290.38	222.75	0.75
Klondike River	Reach 1	3275	0p5-CC-LC_OW_yuk	1247.40	319.45	324.19		325.26	0.004471	4.59	275.09	212.35	0.74
Klondike River	Reach 1	3250	5_OW_klondike	696.00	319.30	322.68		323.52	0.002329	4.07	171.05	154.51	0.81
Klondike River	Reach 1	3250	5_OW_yukon	588.00	319.30	322.39		323.15	0.002456	3.88	151.70	150.27	0.82
Klondike River	Reach 1	3250	1_OW_klondike	882.00	319.30	323.15		324.12	0.002123	4.35	203.22	162.86	0.80
Klondike River	Reach 1	3250	1_OW_yukon	798.00	319.30	322.94		323.85	0.002214	4.23	188.71	157.67	0.80
Klondike River	Reach 1	3250	0p5_OW_klondike	964.00	319.30	323.36		324.37	0.002040	4.45	217.46	175.04	0.79
Klondike River	Reach 1	3250	0p5_OW_yukon	891.00	319.30	323.17		324.14	0.002116	4.37	204.69	163.46	0.80
Klondike River	Reach 1	3250	0p5-CC-LC_OW_klo	1349.60	319.30	324.27		325.45	0.001720	4.83	290.80	208.92	0.76

HEC-RAS Plan: OW_AEP (Continued)

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Klondike River	Reach 1	3250	0p5-CC-LC_OW_yuk	1247.40	319.30	324.06		325.19	0.001751	4.71	273.03	203.72	0.76
Klondike River	Reach 1	3150	5_OW_klondike	696.00	318.88	322.75		323.27	0.001108	3.18	219.70	136.44	0.58
Klondike River	Reach 1	3150	5_OW_yukon	588.00	318.88	322.44		322.90	0.001126	2.99	197.04	116.68	0.57
Klondike River	Reach 1	3150	1_OW_klondike	882.00	318.88	323.25		323.86	0.001068	3.46	257.56	161.27	0.58
Klondike River	Reach 1	3150	1_OW_yukon	798.00	318.88	323.03		323.60	0.001089	3.34	240.54	155.20	0.58
Klondike River	Reach 1	3150	0p5_OW_klondike	964.00	318.88	323.47		324.11	0.001047	3.56	274.03	174.04	0.58
Klondike River	Reach 1	3150	0p5_OW_yukon	891.00	318.88	323.28		323.89	0.001067	3.47	259.29	161.83	0.58
Klondike River	Reach 1	3150	0p5-CC-LC_OW_klo	1349.60	318.88	324.42		325.21	0.000960	3.95	347.91	212.45	0.58
Klondike River	Reach 1	3150	0p5-CC-LC_OW_yuk	1247.40	318.88	324.20		324.94	0.000962	3.84	330.84	201.16	0.58
Klondike River	Reach 1	3037	5_OW_klondike	696.00	318.40	322.58		323.14	0.001178	3.33	218.65	109.62	0.57
Klondike River	Reach 1	3037	5_OW_yukon	588.00	318.40	322.29		322.77	0.001119	3.08	198.40	103.42	0.55
Klondike River	Reach 1	3037	1_OW_klondike	882.00	318.40	323.05		323.73	0.001231	3.69	254.28	145.05	0.59
Klondike River	Reach 1	3037	1_OW_yukon	798.00	318.40	322.84		323.46	0.001216	3.54	237.50	123.74	0.58
Klondike River	Reach 1	3037	0p5_OW_klondike	964.00	318.40	323.24		323.97	0.001253	3.83	271.32	164.44	0.60
Klondike River	Reach 1	3037	0p5_OW_yukon	891.00	318.40	323.07		323.75	0.001234	3.70	256.13	147.47	0.59
Klondike River	Reach 1	3037	0p5-CC-LC_OW_klo	1349.60	318.40	324.18		325.07	0.001200	4.27	358.04	228.19	0.60
Klondike River	Reach 1	3037	0p5-CC-LC_OW_yuk	1247.40	318.40	323.97		324.81	0.001190	4.14	338.40	221.99	0.60
Klondike River	Reach 1	2965	5_OW_klondike	696.00	318.25	322.41	321.44	323.04	0.001311	3.51	198.88	66.13	0.61
Klondike River	Reach 1	2965	5_OW_yukon	588.00	318.25	322.16	321.17	322.68	0.001209	3.20	183.81	60.03	0.58
Klondike River	Reach 1	2965	1_OW_klondike	882.00	318.25	322.82	321.87	323.62	0.001440	3.97	224.51	104.99	0.65
Klondike River	Reach 1	2965	1_OW_yukon	798.00	318.25	322.63	321.68	323.36	0.001391	3.77	212.88	73.79	0.63
Klondike River	Reach 1	2965	0p5_OW_klondike	964.00	318.25	322.99	322.05	323.86	0.001483	4.15	235.62	118.62	0.67
Klondike River	Reach 1	2965	0p5_OW_yukon	891.00	318.25	322.83	321.89	323.64	0.001447	3.99	225.65	106.10	0.65
Klondike River	Reach 1	2965	0p5-CC-LC_OW_klo	1349.60	318.25	323.76	322.83	324.94	0.001590	4.84	287.67	205.71	0.71
Klondike River	Reach 1	2965	0p5-CC-LC_OW_yuk	1247.40	318.25	323.61	322.63	324.69	0.001511	4.62	277.15	196.48	0.69
Klondike River	Reach 1	2946		Bridge									
Klondike River	Reach 1	2919	5_OW_klondike	696.00	317.23	322.48		322.84	0.000413	2.66	265.27	65.87	0.41
Klondike River	Reach 1	2919	5_OW_yukon	588.00	317.23	322.22		322.51	0.000362	2.39	248.33	64.90	0.38
Klondike River	Reach 1	2919	1_OW_klondike	882.00	317.23	322.90		323.37	0.000486	3.07	293.53	69.07	0.45
Klondike River	Reach 1	2919	1_OW_yukon	798.00	317.23	322.71		323.13	0.000456	2.89	280.74	68.47	0.43
Klondike River	Reach 1	2919	0p5_OW_klondike	964.00	317.23	323.07		323.60	0.000513	3.23	305.51	69.57	0.46
Klondike River	Reach 1	2919	0p5_OW_yukon	891.00	317.23	322.91		323.40	0.000489	3.08	294.77	69.12	0.45
Klondike River	Reach 1	2919	0p5-CC-LC_OW_klo	1349.60	317.23	323.83		324.58	0.000611	3.87	362.70	85.50	0.52
Klondike River	Reach 1	2919	0p5-CC-LC_OW_yuk	1247.40	317.23	323.69		324.37	0.000569	3.68	351.93	80.39	0.50
Klondike River	Reach 1	2850	5_OW_klondike	696.00	318.15	322.24		322.75	0.000963	3.18	220.19	77.86	0.55
Klondike River	Reach 1	2850	5_OW_yukon	588.00	318.15	322.02		322.44	0.000857	2.87	205.68	66.84	0.51
Klondike River	Reach 1	2850	1_OW_klondike	882.00	318.15	322.58		323.26	0.001120	3.65	243.46	88.30	0.60
Klondike River	Reach 1	2850	1_OW_yukon	798.00	318.15	322.43		323.03	0.001054	3.45	233.09	83.24	0.58
Klondike River	Reach 1	2850	0p5_OW_klondike	964.00	318.15	322.72		323.48	0.001184	3.85	253.05	91.22	0.62
Klondike River	Reach 1	2850	0p5_OW_yukon	891.00	318.15	322.60		323.28	0.001129	3.68	244.40	88.51	0.60
Klondike River	Reach 1	2850	0p5-CC-LC_OW_klo	1349.60	318.15	323.33		324.42	0.001420	4.64	296.32	119.71	0.70
Klondike River	Reach 1	2850	0p5-CC-LC_OW_yuk	1247.40	318.15	323.29		324.23	0.001256	4.33	293.03	117.71	0.65
Klondike River	Reach 1	2800	5_OW_klondike	696.00	317.92	322.27		322.67	0.000885	2.86	302.89	143.89	0.52
Klondike River	Reach 1	2800	5_OW_yukon	588.00	317.92	322.03		322.37	0.000844	2.65	270.05	136.46	0.51
Klondike River	Reach 1	2800	1_OW_klondike	882.00	317.92	322.68		323.15	0.000900	3.12	362.43	163.10	0.54
Klondike River	Reach 1	2800	1_OW_yukon	798.00	317.92	322.50		322.93	0.000901	3.02	335.30	153.39	0.53
Klondike River	Reach 1	2800	0p5_OW_klondike	964.00	317.92	322.86		323.34	0.000898	3.22	388.04	171.61	0.54
Klondike River	Reach 1	2800	0p5_OW_yukon	891.00	317.92	322.70		323.17	0.000902	3.14	364.96	163.56	0.54
Klondike River	Reach 1	2800	0p5-CC-LC_OW_klo	1349.60	317.92	323.63		324.21	0.000857	3.57	506.03	206.17	0.54
Klondike River	Reach 1	2800	0p5-CC-LC_OW_yuk	1247.40	317.92	323.53		324.06	0.000798	3.39	489.60	195.98	0.52
Klondike River	Reach 1	2770	5_OW_klondike	696.00	317.84	322.17		322.63	0.001136	3.04	257.82	120.80	0.58
Klondike River	Reach 1	2770	5_OW_yukon	588.00	317.84	321.94		322.34	0.001090	2.81	231.79	114.55	0.56
Klondike River	Reach 1	2770	1_OW_klondike	882.00	317.84	322.55		323.11	0.001188	3.37	302.07	137.07	0.60
Klondike River	Reach 1	2770	1_OW_yukon	798.00	317.84	322.38		322.90	0.001170	3.23	281.90	129.18	0.59
Klondike River	Reach 1	2770	0p5_OW_klondike	964.00	317.84	322.71		323.30	0.001188	3.48	322.31	145.05	0.61
Klondike River	Reach 1	2770	0p5_OW_yukon	891.00	317.84	322.56		323.13	0.001192	3.39	304.00	137.25	0.60
Klondike River	Reach 1	2770	0p5-CC-LC_OW_klo	1349.60	317.84	323.42		324.16	0.001182	3.94	412.63	174.96	0.63
Klondike River	Reach 1	2770	0p5-CC-LC_OW_yuk	1247.40	317.84	323.35		324.02	0.001067	3.71	404.22	167.09	0.59
Klondike River	Reach 1	2750	5_OW_klondike	696.00	318.03	322.07		322.60	0.001393	3.22	216.61	89.10	0.63
Klondike River	Reach 1	2750	5_OW_yukon	588.00	318.03	321.86		322.31	0.001304	2.95	199.29	84.27	0.60
Klondike River	Reach 1	2750	1_OW_klondike	882.00	318.03	322.40		323.07	0.001506	3.62	245.39	103.56	0.67
Klondike River	Reach 1	2750	1_OW_yukon	798.00	318.03	322.25		322.86	0.001464	3.45	232.29	98.79	0.66
Klondike River	Reach 1	2750	0p5_OW_klondike	964.00	318.03	322.54		323.26	0.001546	3.78	257.67	115.54	0.68
Klondike River	Reach 1	2750	0p5_OW_yukon	891.00	318.03	322.41		323.09	0.001516	3.64	246.49	103.70	0.67
Klondike River	Reach 1	2750	0p5-CC-LC_OW_klo	1349.60	318.03	323.14		324.11	0.001653	4.40	313.00	137.55	0.73
Klondike River	Reach 1	2750	0p5-CC-LC_OW_yuk	1247.40	318.03	323.15		323.98	0.001401	4.05	313.82	137.86	0.67
Klondike River	Reach 1	2700	5_OW_klondike	696.00	318.39	322.05		322.51	0.001321	3.03	230.43	102.66	0.61
Klondike River	Reach 1	2700	5_OW_yukon	588.00	318.39	321.83		322.23	0.001275	2.80	210.26	98.47	0.59
Klondike River	Reach 1	2700	1_OW_klondike	882.00	318.39	322.39		322.97	0.001373	3.36	263.19	122.05	0.64
Klondike River	Reach 1	2700	1_OW_yukon	798.00	318.39	322.24		322.77	0.001356	3.22	248.49	111.99	0.63
Klondike River	Reach 1	2700	0p5_OW_klondike	964.00	318.39	322.54		323.16	0.001391	3.50	276.86	132.60	0.65
Klondike River	Reach 1	2700	0p5_OW_yukon	891.00	318.39	322.41		322.99	0.001380	3.38	264.42	122.94	0.64
Klondike River	Reach 1	2700	0p5-CC-LC_OW_klo	1349.60	318.39	323.17		323.99	0.001427	4.03	338.02	160.85	0.68
Klondike River	Reach 1	2700	0p5-CC-LC_OW_yuk	1247.40	318.39	323.17		323.87	0.001216	3.72	338.27	161.12	0.62
Klondike River	Reach 1	2666	5_OW_klondike	696.00	318.64	321.89		322.45	0.001804	3.32	209.98	95.29	0.70
Klondike River	Reach 1	2666	5_OW_yukon	588.00	318.64	321.69		322.17	0.001750	3.07	191.34	92.79	0.68
Klondike River	Reach 1	2666	1_OW_klondike	882.00	318.64	322.21		322.90	0.001857	3.68	240.40	115.43	0.73
Klondike River	Reach 1	2666	1_OW_yukon	798.00	318.64	322.07		322.70	0.001845	3.53	226.65	109.58	0.72
Klondike River	Reach 1	2666	0p5_OW_klondike	964.00	318.64	322.35		323.09	0.001876	3.82	253.00	118.80	0.74

HEC-RAS Plan: OW_AEP (Continued)

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Klondike River	Reach 1	2666	0p5_OW_yukon	891.00	318.64	322.22		322.92	0.001871	3.70	241.34	115.66	0.73
Klondike River	Reach 1	2666	0p5-CC-LC_OW_klo	1349.60	318.64	322.95		323.92	0.001895	4.38	309.96	148.13	0.77
Klondike River	Reach 1	2666	0p5-CC-LC_OW_yuk	1247.40	318.64	323.02		323.82	0.001500	3.96	317.30	154.61	0.68
Klondike River	Reach 1	2650	5_OW_klondike	696.00	318.67	321.77		322.41	0.002123	3.56	197.39	111.27	0.76
Klondike River	Reach 1	2650	5_OW_yukon	588.00	318.67	321.59		322.13	0.001999	3.27	181.26	103.85	0.73
Klondike River	Reach 1	2650	1_OW_klondike	882.00	318.67	322.05		322.86	0.002272	3.99	223.71	128.39	0.80
Klondike River	Reach 1	2650	1_OW_yukon	798.00	318.67	321.92		322.66	0.002217	3.81	211.91	123.53	0.79
Klondike River	Reach 1	2650	0p5_OW_klondike	964.00	318.67	322.16		323.04	0.002345	4.17	234.03	131.67	0.82
Klondike River	Reach 1	2650	0p5_OW_yukon	891.00	318.67	322.06		322.88	0.002305	4.03	224.09	128.54	0.81
Klondike River	Reach 1	2650	0p5-CC-LC_OW_klo	1349.60	318.67	322.61	322.43	323.86	0.002700	4.97	275.84	147.88	0.91
Klondike River	Reach 1	2650	0p5-CC-LC_OW_yuk	1247.40	318.67	322.90		323.78	0.001710	4.20	303.17	163.76	0.73
Klondike River	Reach 1	2600	5_OW_klondike	696.00	318.85	321.73		322.28	0.001914	3.30	211.98	160.20	0.72
Klondike River	Reach 1	2600	5_OW_yukon	588.00	318.85	321.54		322.02	0.001849	3.05	193.30	153.78	0.70
Klondike River	Reach 1	2600	1_OW_klondike	882.00	318.85	322.04		322.71	0.001958	3.65	243.34	171.63	0.74
Klondike River	Reach 1	2600	1_OW_yukon	798.00	318.85	321.90		322.52	0.001950	3.50	229.15	166.05	0.74
Klondike River	Reach 1	2600	0p5_OW_klondike	964.00	318.85	322.16		322.89	0.001986	3.80	255.85	174.23	0.76
Klondike River	Reach 1	2600	0p5_OW_yukon	891.00	318.85	322.04		322.73	0.001987	3.68	243.76	171.84	0.75
Klondike River	Reach 1	2600	0p5-CC-LC_OW_klo	1349.60	318.85	322.67		323.66	0.002116	4.42	308.69	245.85	0.80
Klondike River	Reach 1	2600	0p5-CC-LC_OW_yuk	1247.40	318.85	322.94		323.65	0.001360	3.75	337.05	272.34	0.65
Klondike River	Reach 1	2563	5_OW_klondike	696.00	319.01	321.62		322.20	0.002245	3.39	205.44	142.07	0.77
Klondike River	Reach 1	2563	5_OW_yukon	588.00	319.01	321.43		321.94	0.002225	3.16	186.09	136.98	0.75
Klondike River	Reach 1	2563	1_OW_klondike	882.00	319.01	321.94		322.64	0.002168	3.69	239.57	152.52	0.77
Klondike River	Reach 1	2563	1_OW_yukon	798.00	319.01	321.79		322.44	0.002228	3.57	223.65	147.40	0.77
Klondike River	Reach 1	2563	0p5_OW_klondike	964.00	319.01	322.07		322.81	0.002169	3.82	252.82	165.32	0.78
Klondike River	Reach 1	2563	0p5_OW_yukon	891.00	319.01	321.94		322.65	0.002212	3.72	239.59	152.53	0.78
Klondike River	Reach 1	2563	0p5-CC-LC_OW_klo	1349.60	319.01	322.59		323.58	0.002217	4.40	308.49	251.98	0.81
Klondike River	Reach 1	2563	0p5-CC-LC_OW_yuk	1247.40	319.01	322.91		323.59	0.001348	3.67	342.64	266.26	0.65
Klondike River	Reach 1	2550	5_OW_klondike	696.00	318.95	321.56		322.17	0.002295	3.45	202.34	169.81	0.78
Klondike River	Reach 1	2550	5_OW_yukon	588.00	318.95	321.38		321.91	0.002234	3.20	184.08	162.48	0.76
Klondike River	Reach 1	2550	1_OW_klondike	882.00	318.95	321.88		322.60	0.002233	3.76	235.78	182.11	0.79
Klondike River	Reach 1	2550	1_OW_yukon	798.00	318.95	321.73		322.41	0.002294	3.65	219.96	177.74	0.79
Klondike River	Reach 1	2550	0p5_OW_klondike	964.00	318.95	322.01		322.78	0.002242	3.90	248.64	189.31	0.80
Klondike River	Reach 1	2550	0p5_OW_yukon	891.00	318.95	321.88		322.62	0.002287	3.81	235.50	182.05	0.80
Klondike River	Reach 1	2550	0p5-CC-LC_OW_klo	1349.60	318.95	322.51	322.20	323.55	0.002333	4.51	302.01	288.67	0.84
Klondike River	Reach 1	2550	0p5-CC-LC_OW_yuk	1247.40	318.95	322.88		323.58	0.001339	3.70	341.50	302.31	0.65
Klondike River	Reach 1	2500	5_OW_klondike	696.00	318.86	321.46		322.05	0.002250	3.43	205.87	154.85	0.77
Klondike River	Reach 1	2500	5_OW_yukon	588.00	318.86	321.28		321.79	0.002196	3.19	186.96	130.49	0.75
Klondike River	Reach 1	2500	1_OW_klondike	882.00	318.86	321.80	321.45	322.49	0.002132	3.70	242.28	177.85	0.77
Klondike River	Reach 1	2500	1_OW_yukon	798.00	318.86	321.63		322.29	0.002227	3.61	224.66	168.55	0.78
Klondike River	Reach 1	2500	0p5_OW_klondike	964.00	318.86	321.92	321.57	322.66	0.002138	3.84	256.14	188.80	0.78
Klondike River	Reach 1	2500	0p5_OW_yukon	891.00	318.86	321.79		322.50	0.002201	3.75	241.43	177.29	0.78
Klondike River	Reach 1	2500	0p5-CC-LC_OW_klo	1349.60	318.86	322.45	322.10	323.41	0.002152	4.39	316.22	250.58	0.81
Klondike River	Reach 1	2500	0p5-CC-LC_OW_yuk	1247.40	318.86	322.87		323.49	0.001174	3.53	364.81	258.65	0.61
Klondike River	Reach 1	2464	5_OW_klondike	713.40	318.82	321.22	321.11	321.94	0.003230	3.76	190.07	127.02	0.90
Klondike River	Reach 1	2464	5_OW_yukon	602.70	318.82	321.10	320.92	321.69	0.002938	3.42	176.39	122.29	0.85
Klondike River	Reach 1	2464	1_OW_klondike	905.70	318.82	321.38	321.38	322.36	0.003881	4.37	207.87	139.95	1.01
Klondike River	Reach 1	2464	1_OW_yukon	819.40	318.82	321.35	321.26	322.17	0.003389	4.03	203.79	135.50	0.94
Klondike River	Reach 1	2464	0p5_OW_klondike	990.70	318.82	321.51	321.51	322.53	0.003742	4.48	222.19	153.05	1.00
Klondike River	Reach 1	2464	0p5_OW_yukon	915.70	318.82	321.53	321.40	322.39	0.003115	4.11	224.00	154.65	0.91
Klondike River	Reach 1	2464	0p5-CC-LC_OW_klo	1387.00	318.82	322.04	322.04	323.29	0.003390	4.96	284.48	232.06	0.99
Klondike River	Reach 1	2464	0p5-CC-LC_OW_yuk	1281.90	318.82	322.86		323.44	0.001118	3.42	400.76	323.68	0.59
Klondike River	Reach 1	2450	5_OW_klondike	713.40	318.85	321.22	321.09	321.87	0.003572	3.59	210.83	167.74	0.87
Klondike River	Reach 1	2450	5_OW_yukon	602.70	318.85	321.08	320.92	321.64	0.003424	3.33	189.81	158.39	0.84
Klondike River	Reach 1	2450	1_OW_klondike	905.70	318.85	321.20	321.37	322.28	0.006011	4.62	207.62	166.89	1.13
Klondike River	Reach 1	2450	1_OW_yukon	819.40	318.85	321.38	321.25	322.09	0.003556	3.78	232.94	182.81	0.88
Klondike River	Reach 1	2450	0p5_OW_klondike	990.70	318.85	321.28	321.49	322.45	0.006239	4.84	218.35	170.65	1.15
Klondike River	Reach 1	2450	0p5_OW_yukon	915.70	318.85	321.59	321.38	322.30	0.003093	3.77	267.44	228.82	0.83
Klondike River	Reach 1	2450	0p5-CC-LC_OW_klo	1387.00	318.85	321.62	322.05	323.19	0.006708	5.61	273.68	233.64	1.22
Klondike River	Reach 1	2450	0p5-CC-LC_OW_yuk	1281.90	318.85	323.00		323.36	0.000894	2.82	666.78	385.83	0.48
Klondike River	Reach 1	2400	5_OW_klondike	713.40	318.95	321.10	320.92	321.69	0.003136	3.40	214.88	158.96	0.84
Klondike River	Reach 1	2400	5_OW_yukon	602.70	318.95	320.96		321.46	0.002989	3.15	193.51	140.68	0.81
Klondike River	Reach 1	2400	1_OW_klondike	905.70	318.95	321.28	321.19	322.04	0.003606	3.88	245.84	191.03	0.91
Klondike River	Reach 1	2400	1_OW_yukon	819.40	318.95	321.27	321.08	321.90	0.003005	3.53	243.91	188.88	0.83
Klondike River	Reach 1	2400	0p5_OW_klondike	990.70	318.95	321.34	321.33	322.19	0.003918	4.11	256.17	197.78	0.95
Klondike River	Reach 1	2400	0p5_OW_yukon	915.70	318.95	321.55	321.20	322.12	0.002324	3.38	302.31	257.33	0.74
Klondike River	Reach 1	2400	0p5-CC-LC_OW_klo	1387.00	318.95	321.92	321.90	322.78	0.002987	4.22	412.13	368.29	0.85
Klondike River	Reach 1	2400	0p5-CC-LC_OW_yuk	1281.90	318.95	323.05		323.28	0.000575	2.34	815.90	425.59	0.39
Klondike River	Reach 1	2369	5_OW_klondike	713.40	318.74	321.06	320.87	321.57	0.003221	3.17	235.45	173.43	0.81
Klondike River	Reach 1	2369	5_OW_yukon	602.70	318.74	320.89	320.72	321.35	0.003360	3.02	206.65	166.01	0.82
Klondike River	Reach 1	2369	1_OW_klondike	905.70	318.74	321.27	321.10	321.89	0.003380	3.52	275.85	216.77	0.84
Klondike River	Reach 1	2369	1_OW_yukon	819.40	318.74	321.26	321.00	321.78	0.002805	3.20	274.30	214.70	0.77
Klondike River	Reach 1	2369	0p5_OW_klondike	990.70	318.74	321.33	321.21	322.03	0.003629	3.72	289.01	233.08	0.88
Klondike River	Reach 1	2369	0p5_OW_yukon	915.70	318.74	321.57	321.12	322.02	0.002009	3.00	354.30	313.78	0.66
Klondike River	Reach 1	2369	0p5-CC-LC_OW_klo	1387.00	318.74	322.01	321.72	322.62	0.002257	3.59	501.11	391.78	0.72
Klondike River	Reach 1	2369	0p5-CC-LC_OW_yuk	1281.90	318.74	323.07		323.25	0.000479	2.07	902.55	461.06	0.35
Klondike River	Reach 1	2350	5_OW_klondike	713.40	318.43	321.13		321.47	0.001951	2.62	293.86	219.64	0.65
Klondike River	Reach 1	2350	5_OW_yukon	602.70	318.43	320.94		321.26	0.002040	2.50	256.16	194.56	0.65
Klondike River	Reach 1	2350	1_OW_klondike	905.70	318.43	321.37		321.78	0.001976	2.87	357.48	296.87	0.66
Klondike River	Reach 1	2350	1_OW_yukon	819.40	318.43	321.34		321.69	0.001720	2.65	347.63	287.49	0.62
Klondike River	Reach 1	2350	0p5_OW_klondike	990.70	318.43	321.46	321.02	321.90	0.002041	3.00	382.67	317.87	0.68

HEC-RAS Plan: OW_AEP (Continued)

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Klondike River	Reach 1	2350	0p5_OW_yukon	915.70	318.43	321.64		321.95	0.001265	2.50	445.15	376.70	0.54
Klondike River	Reach 1	2350	0p5-CC-LC_OW_klo	1387.00	318.43	322.12		322.53	0.001382	2.95	617.89	409.79	0.58
Klondike River	Reach 1	2350	0p5-CC-LC_OW_yuk	1281.90	318.43	323.09		323.23	0.000354	1.82	995.53	477.61	0.31
Klondike River	Reach 1	2300	5_OW_klondike	713.40	317.71	321.11		321.36	0.001357	2.25	344.02	258.13	0.53
Klondike River	Reach 1	2300	5_OW_yukon	602.70	317.71	320.92		321.14	0.001419	2.13	300.07	211.48	0.53
Klondike River	Reach 1	2300	1_OW_klondike	905.70	317.71	321.36		321.67	0.001379	2.48	417.36	335.88	0.55
Klondike River	Reach 1	2300	1_OW_yukon	819.40	317.71	321.33		321.59	0.001195	2.28	407.05	321.88	0.51
Klondike River	Reach 1	2300	0p5_OW_klondike	990.70	317.71	321.45		321.78	0.001422	2.59	446.34	365.89	0.56
Klondike River	Reach 1	2300	0p5_OW_yukon	915.70	317.71	321.64		321.87	0.000888	2.17	515.53	394.08	0.45
Klondike River	Reach 1	2300	0p5-CC-LC_OW_klo	1387.00	317.71	322.13		322.44	0.000984	2.60	697.48	424.27	0.49
Klondike River	Reach 1	2300	0p5-CC-LC_OW_yuk	1281.90	317.71	323.09		323.21	0.000264	1.64	1096.95	505.71	0.27
Klondike River	Reach 1	2254	5_OW_klondike	713.40	317.67	320.83	320.57	321.25	0.003564	2.91	271.38	292.91	0.78
Klondike River	Reach 1	2254	5_OW_yukon	602.70	317.67	320.57	320.40	321.02	0.004407	3.02	215.08	225.01	0.84
Klondike River	Reach 1	2254	1_OW_klondike	905.70	317.67	321.09	320.83	321.56	0.003178	3.10	346.72	387.34	0.76
Klondike River	Reach 1	2254	1_OW_yukon	819.40	317.67	321.16		321.51	0.002226	2.67	370.28	402.69	0.64
Klondike River	Reach 1	2254	0p5_OW_klondike	990.70	317.67	321.16	320.93	321.67	0.003274	3.23	369.32	401.89	0.78
Klondike River	Reach 1	2254	0p5_OW_yukon	915.70	317.67	321.57		321.82	0.001250	2.32	517.79	440.78	0.50
Klondike River	Reach 1	2254	0p5-CC-LC_OW_klo	1387.00	317.67	322.06		322.39	0.001275	2.70	705.16	458.79	0.53
Klondike River	Reach 1	2254	0p5-CC-LC_OW_yuk	1281.90	317.67	323.08		323.20	0.000307	1.66	1118.89	556.73	0.28
Klondike River	Reach 1	2200	5_OW_klondike	713.40	317.45	320.26	320.26	321.00	0.004245	3.82	190.94	170.91	0.99
Klondike River	Reach 1	2200	5_OW_yukon	602.70	317.45	320.09	320.05	320.76	0.004087	3.63	168.14	140.09	0.97
Klondike River	Reach 1	2200	1_OW_klondike	905.70	317.45	320.72	320.72	321.35	0.004083	3.53	286.19	337.26	0.95
Klondike River	Reach 1	2200	1_OW_yukon	819.40	317.45	321.11		321.39	0.001443	2.40	421.39	434.05	0.58
Klondike River	Reach 1	2200	0p5_OW_klondike	990.70	317.45	320.84	320.84	321.46	0.003937	3.54	323.28	373.51	0.94
Klondike River	Reach 1	2200	0p5_OW_yukon	915.70	317.45	321.55		321.75	0.000780	2.06	593.53	479.07	0.45
Klondike River	Reach 1	2200	0p5-CC-LC_OW_klo	1387.00	317.45	322.05		322.32	0.000830	2.44	804.10	496.95	0.48
Klondike River	Reach 1	2200	0p5-CC-LC_OW_yuk	1281.90	317.45	323.08		323.18	0.000207	1.51	1274.73	653.66	0.25
Klondike River	Reach 1	2168	5_OW_klondike	713.40	317.62	319.74	320.02	320.79	0.007915	4.54	159.45	155.68	1.33
Klondike River	Reach 1	2168	5_OW_yukon	602.70	317.62	320.21		320.58	0.002006	2.70	236.35	219.67	0.70
Klondike River	Reach 1	2168	1_OW_klondike	905.70	317.62	320.75	320.42	321.10	0.002207	2.68	391.38	407.14	0.72
Klondike River	Reach 1	2168	1_OW_yukon	819.40	317.62	321.16		321.32	0.000730	1.82	561.58	479.83	0.43
Klondike River	Reach 1	2168	0p5_OW_klondike	990.70	317.62	320.96	320.54	321.26	0.001631	2.52	474.69	450.40	0.63
Klondike River	Reach 1	2168	0p5_OW_yukon	915.70	317.62	321.59		321.71	0.000425	1.60	746.33	493.11	0.34
Klondike River	Reach 1	2168	0p5-CC-LC_OW_klo	1387.00	317.62	322.10		322.26	0.000465	1.91	968.56	498.13	0.37
Klondike River	Reach 1	2168	0p5-CC-LC_OW_yuk	1281.90	317.62	323.09		323.16	0.000131	1.25	1418.69	598.35	0.21
Klondike River	Reach 1	2054	5_OW_klondike	713.40	317.47	320.34	319.45	320.48	0.000651	1.75	441.45	315.86	0.41
Klondike River	Reach 1	2054	5_OW_yukon	602.70	317.47	320.29		320.40	0.000498	1.52	428.59	309.08	0.36
Klondike River	Reach 1	2054	1_OW_klondike	905.70	317.47	320.81		320.93	0.000499	1.61	613.52	389.47	0.36
Klondike River	Reach 1	2054	1_OW_yukon	819.40	317.47	321.19		321.25	0.000215	1.19	763.34	408.68	0.25
Klondike River	Reach 1	2054	0p5_OW_klondike	990.70	317.47	321.01		321.12	0.000421	1.58	691.83	392.49	0.34
Klondike River	Reach 1	2054	0p5_OW_yukon	915.70	317.47	321.61		321.66	0.000149	1.10	929.64	428.90	0.21
Klondike River	Reach 1	2054	0p5-CC-LC_OW_klo	1387.00	317.47	322.12		322.21	0.000184	1.37	1136.86	439.54	0.24
Klondike River	Reach 1	2054	0p5-CC-LC_OW_yuk	1281.90	317.47	323.11		323.14	0.000062	0.94	1560.67	560.79	0.14
Klondike River	Reach 1	1884	5_OW_klondike	713.40	315.75	320.01		320.34	0.000977	2.72	324.41	240.35	0.53
Klondike River	Reach 1	1884	5_OW_yukon	602.70	315.75	320.10		320.31	0.000604	2.19	347.18	263.80	0.42
Klondike River	Reach 1	1884	1_OW_klondike	905.70	315.75	320.60		320.83	0.000609	2.45	501.56	343.59	0.43
Klondike River	Reach 1	1884	1_OW_yukon	819.40	315.75	321.12		321.22	0.000227	1.66	682.49	360.95	0.27
Klondike River	Reach 1	1884	0p5_OW_klondike	990.70	315.75	320.84		321.05	0.000494	2.32	586.54	347.93	0.40
Klondike River	Reach 1	1884	0p5_OW_yukon	915.70	315.75	321.56		321.64	0.000162	1.50	837.11	384.63	0.23
Klondike River	Reach 1	1884	0p5-CC-LC_OW_klo	1387.00	315.75	322.06		322.18	0.000214	1.86	1013.84	392.24	0.27
Klondike River	Reach 1	1884	0p5-CC-LC_OW_yuk	1281.90	315.75	323.08		323.13	0.000072	1.23	1410.69	521.03	0.16
Klondike River	Reach 1	1760	5_OW_klondike	713.40	315.68	319.91		320.23	0.000851	2.80	336.90	239.01	0.50
Klondike River	Reach 1	1760	5_OW_yukon	602.70	315.68	320.05		320.24	0.000483	2.17	371.08	246.80	0.38
Klondike River	Reach 1	1760	1_OW_klondike	905.70	315.68	320.54		320.77	0.000531	2.50	493.48	252.30	0.41
Klondike River	Reach 1	1760	1_OW_yukon	819.40	315.68	321.09		321.20	0.000221	1.77	633.79	269.05	0.27
Klondike River	Reach 1	1760	0p5_OW_klondike	990.70	315.68	320.78		321.00	0.000464	2.44	554.53	253.14	0.39
Klondike River	Reach 1	1760	0p5_OW_yukon	915.70	315.68	321.53		321.62	0.000171	1.66	754.17	295.64	0.24
Klondike River	Reach 1	1760	0p5-CC-LC_OW_klo	1387.00	315.68	322.00		322.15	0.000249	2.13	887.62	324.55	0.30
Klondike River	Reach 1	1760	0p5-CC-LC_OW_yuk	1281.90	315.68	323.06		323.13	0.000086	1.42	1290.57	487.72	0.18
Klondike River	Reach 1	1639	5_OW_klondike	713.40	314.98	319.75	318.69	320.13	0.000850	2.76	283.16	154.39	0.50
Klondike River	Reach 1	1639	5_OW_yukon	602.70	314.98	319.95	318.46	320.18	0.000484	2.17	310.43	166.34	0.38
Klondike River	Reach 1	1639	1_OW_klondike	905.70	314.98	320.28	319.08	320.69	0.000767	2.91	357.31	170.15	0.49
Klondike River	Reach 1	1639	1_OW_yukon	819.40	314.98	320.94	318.90	321.16	0.000332	2.14	453.30	215.91	0.33
Klondike River	Reach 1	1639	0p5_OW_klondike	990.70	314.98	320.50	319.24	320.92	0.000735	2.96	388.80	179.82	0.48
Klondike River	Reach 1	1639	0p5_OW_yukon	915.70	314.98	321.38	319.10	321.59	0.000286	2.12	518.03	225.52	0.31
Klondike River	Reach 1	1639	0p5-CC-LC_OW_klo	1387.00	314.98	321.69	319.85	322.09	0.000517	2.98	565.33	236.69	0.43
Klondike River	Reach 1	1639	0p5-CC-LC_OW_yuk	1281.90	314.98	322.92	319.72	323.10	0.000186	2.07	875.80	433.29	0.26
Klondike River	Reach 1	1548	5_OW_klondike	713.40	314.79	319.48	318.44	320.02	0.001129	3.26	218.57	95.36	0.58
Klondike River	Reach 1	1548	5_OW_yukon	602.70	314.79	319.81	318.18	320.12	0.000589	2.50	241.11	104.50	0.43
Klondike River	Reach 1	1548	1_OW_klondike	905.70	314.79	319.88	318.87	320.57	0.001240	3.68	246.36	105.67	0.62
Klondike River	Reach 1	1548	1_OW_yukon	819.40	314.79	320.74	318.69	321.11	0.000492	2.68	309.88	169.07	0.41
Klondike River	Reach 1	1548	0p5_OW_klondike	990.70	314.79	320.04	319.04	320.80	0.001285	3.86	257.60	109.70	0.64
Klondike River	Reach 1	1548	0p5_OW_yukon	915.70	314.79	321.16	318.89	321.54	0.000451	2.72	343.05	176.02	0.39
Klondike River	Reach 1	1548	0p5-CC-LC_OW_klo	1387.00	314.79	321.09	319.77	321.98	0.001090	4.19	337.24	175.29	0.61
Klondike River	Reach 1	1548	0p5-CC-LC_OW_yuk	1281.90	314.79	322.75	319.59	323.07	0.000289	2.63	603.24	387.58	0.33
Klondike River	Reach 1	1460	5_OW_klondike	713.40	316.31	319.53	318.65	319.87	0.000937	2.68	311.92	243.50	0.52
Klondike River	Reach 1	1460	5_OW_yukon	602.70	316.31	319.85	318.45	320.04	0.000438	1.98	364.02	263.43	0.36
Klondike River	Reach 1	1460	1_OW_klondike	905.70	316.31	320.02	318.98	320.38	0.000810	2.79	391.24	270.54	0.50
Klondike River	Reach 1	1460	1_OW_yukon	819.40	316.31	320.85	318.83	321.01	0.000275	1.89	535.56	304.40	0.30
Klondike River	Reach 1	1460	0p5_OW_klondike	990.70	316.31	320.22	319.10	320.59	0.000770	2.83	424.89	276.31	0.49

HEC-RAS Plan: OW_AEP (Continued)

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Klondike River	Reach 1	1460	0p5_OW_yukon	915.70	316.31	321.29	319.00	321.44	0.000231	1.86	615.96	317.55	0.28
Klondike River	Reach 1	1460	0p5-CC-LC_OW_klo	1387.00	316.31	321.42	319.71	321.75	0.000474	2.71	640.46	320.82	0.40
Klondike River	Reach 1	1460	0p5-CC-LC_OW_yuk	1281.90	316.31	322.86	319.55	322.99	0.000141	1.78	924.07	388.35	0.23
Klondike River	Reach 1	1371	5_OW_klondike	713.40	315.74	319.51	318.51	319.73	0.001494	2.18	389.39	219.01	0.44
Klondike River	Reach 1	1371	5_OW_yukon	602.70	315.74	319.86	318.35	319.97	0.000646	1.56	467.02	224.74	0.29
Klondike River	Reach 1	1371	1_OW_klondike	905.70	315.74	320.04	318.78	320.25	0.001150	2.16	507.64	241.43	0.39
Klondike River	Reach 1	1371	1_OW_yukon	819.40	315.74	320.87	318.67	320.96	0.000362	1.41	709.08	286.91	0.23
Klondike River	Reach 1	1371	0p5_OW_klondike	990.70	315.74	320.25	318.91	320.45	0.001054	2.15	556.51	257.33	0.38
Klondike River	Reach 1	1371	0p5_OW_yukon	915.70	315.74	321.31	318.81	321.40	0.000292	1.35	823.34	377.33	0.21
Klondike River	Reach 1	1371	0p5-CC-LC_OW_klo	1387.00	315.74	321.48	319.41	321.65	0.000580	1.95	866.64	396.10	0.29
Klondike River	Reach 1	1371	0p5-CC-LC_OW_yuk	1281.90	315.74	322.89	319.27	322.95	0.000160	1.22	1288.40	484.35	0.16
Klondike River	Reach 1	1226	5_OW_klondike	713.40	315.18	319.02	318.30	319.43	0.002632	2.90	281.69	181.97	0.58
Klondike River	Reach 1	1226	5_OW_yukon	602.70	315.18	319.70	318.10	319.86	0.000784	1.83	427.14	227.38	0.32
Klondike River	Reach 1	1226	1_OW_klondike	905.70	315.18	319.65	318.61	320.02	0.001890	2.82	414.77	226.62	0.50
Klondike River	Reach 1	1226	1_OW_yukon	819.40	315.18	320.78	318.48	320.90	0.000459	1.68	680.39	288.68	0.26
Klondike River	Reach 1	1226	0p5_OW_klondike	990.70	315.18	319.90	318.73	320.25	0.001685	2.79	471.13	229.31	0.48
Klondike River	Reach 1	1226	0p5_OW_yukon	915.70	315.18	321.24	318.61	321.34	0.000380	1.63	797.30	332.40	0.24
Klondike River	Reach 1	1226	0p5-CC-LC_OW_klo	1387.00	315.18	321.30	319.45	321.54	0.000825	2.42	813.60	335.12	0.35
Klondike River	Reach 1	1226	0p5-CC-LC_OW_yuk	1281.90	315.18	322.87	319.10	322.93	0.000147	1.22	1498.43	437.38	0.15
Klondike River	Reach 1	1171	5_OW_klondike	713.40	314.92	319.00	318.04	319.27	0.001684	2.46	376.32	213.82	0.47
Klondike River	Reach 1	1171	5_OW_yukon	602.70	314.92	319.70	317.85	319.81	0.000510	1.56	557.30	275.17	0.27
Klondike River	Reach 1	1171	1_OW_klondike	905.70	314.92	319.65	318.40	319.90	0.001232	2.39	541.91	274.66	0.41
Klondike River	Reach 1	1171	1_OW_yukon	819.40	314.92	320.78	318.22	320.86	0.000301	1.42	885.59	361.72	0.21
Klondike River	Reach 1	1171	0p5_OW_klondike	990.70	314.92	319.90	318.51	320.14	0.001095	2.36	612.10	283.24	0.39
Klondike River	Reach 1	1171	0p5_OW_yukon	915.70	314.92	321.24	318.36	321.32	0.000247	1.37	1038.77	371.40	0.19
Klondike River	Reach 1	1171	0p5-CC-LC_OW_klo	1387.00	314.92	321.32	319.04	321.48	0.000531	2.02	1064.52	372.30	0.29
Klondike River	Reach 1	1171	0p5-CC-LC_OW_yuk	1281.90	314.92	322.87	318.79	322.92	0.000123	1.15	1704.78	402.94	0.14
Klondike River	Reach 1	1060	5_OW_klondike	713.40	314.65	318.86	317.53	319.10	0.001192	2.26	405.30	215.75	0.40
Klondike River	Reach 1	1060	5_OW_yukon	602.70	314.65	319.67	317.31	319.76	0.000343	1.41	635.54	339.73	0.22
Klondike River	Reach 1	1060	1_OW_klondike	905.70	314.65	319.56	317.95	319.77	0.000878	2.21	596.73	336.81	0.36
Klondike River	Reach 1	1060	1_OW_yukon	819.40	314.65	320.76	317.78	320.83	0.000217	1.32	1010.42	346.12	0.19
Klondike River	Reach 1	1060	0p5_OW_klondike	990.70	314.65	319.82	318.10	320.02	0.000790	2.19	686.37	341.09	0.34
Klondike River	Reach 1	1060	0p5_OW_yukon	915.70	314.65	321.23	317.97	321.29	0.000185	1.29	1170.94	347.66	0.17
Klondike River	Reach 1	1060	0p5-CC-LC_OW_klo	1387.00	314.65	321.28	318.71	321.42	0.000408	1.92	1189.32	347.83	0.26
Klondike River	Reach 1	1060	0p5-CC-LC_OW_yuk	1281.90	314.65	322.85	318.57	322.90	0.000120	1.23	1757.50	372.68	0.15
Klondike River	Reach 1	964	5_OW_klondike	713.40	314.83	318.84	317.30	318.98	0.000770	1.74	520.71	300.83	0.32
Klondike River	Reach 1	964	5_OW_yukon	602.70	314.83	319.67	317.12	319.72	0.000209	1.06	779.82	320.17	0.17
Klondike River	Reach 1	964	1_OW_klondike	905.70	314.83	319.56	317.59	319.68	0.000532	1.66	743.47	317.72	0.27
Klondike River	Reach 1	964	1_OW_yukon	819.40	314.83	320.76	317.46	320.81	0.000142	1.04	1142.09	356.37	0.15
Klondike River	Reach 1	964	0p5_OW_klondike	990.70	314.83	319.82	317.72	319.94	0.000484	1.66	828.56	325.49	0.26
Klondike River	Reach 1	964	0p5_OW_yukon	915.70	314.83	321.23	317.60	321.27	0.000125	1.03	1301.59	377.62	0.14
Klondike River	Reach 1	964	0p5-CC-LC_OW_klo	1387.00	314.83	321.28	318.25	321.37	0.000276	1.54	1319.86	378.47	0.21
Klondike River	Reach 1	964	0p5-CC-LC_OW_yuk	1281.90	314.83	322.85	318.11	322.89	0.000082	1.00	1963.74	409.99	0.12
Klondike River	Reach 1	856	5_OW_klondike	713.40	314.15	318.80	317.04	318.90	0.000584	1.49	637.03	329.23	0.28
Klondike River	Reach 1	856	5_OW_yukon	602.70	314.15	319.66	316.87	319.70	0.000154	0.91	929.94	390.58	0.15
Klondike River	Reach 1	856	1_OW_klondike	905.70	314.15	319.54	317.33	319.62	0.000398	1.42	885.62	388.63	0.24
Klondike River	Reach 1	856	1_OW_yukon	819.40	314.15	320.76	317.21	320.79	0.000106	0.89	1312.62	427.57	0.13
Klondike River	Reach 1	856	0p5_OW_klondike	990.70	314.15	319.80	317.42	319.89	0.000360	1.42	978.56	392.41	0.23
Klondike River	Reach 1	856	0p5_OW_yukon	915.70	314.15	321.22	317.34	321.25	0.000093	0.89	1480.20	441.07	0.12
Klondike River	Reach 1	856	0p5-CC-LC_OW_klo	1387.00	314.15	321.27	317.86	321.34	0.000207	1.33	1498.25	442.72	0.18
Klondike River	Reach 1	856	0p5-CC-LC_OW_yuk	1281.90	314.15	322.85	317.78	322.88	0.000056	0.82	2347.19	482.47	0.10
Klondike River	Reach 1	746	5_OW_klondike	713.40	313.89	318.79	316.65	318.85	0.000295	1.15	811.13	439.38	0.20
Klondike River	Reach 1	746	5_OW_yukon	602.70	313.89	319.66	316.52	319.68	0.000081	0.70	1203.61	594.87	0.11
Klondike River	Reach 1	746	1_OW_klondike	905.70	313.89	319.53	316.87	319.58	0.000208	1.11	1143.00	577.50	0.17
Klondike River	Reach 1	746	1_OW_yukon	819.40	313.89	320.76	316.78	320.78	0.000058	0.70	1718.32	642.97	0.10
Klondike River	Reach 1	746	0p5_OW_klondike	990.70	313.89	319.80	316.97	319.85	0.000192	1.11	1267.35	599.81	0.17
Klondike River	Reach 1	746	0p5_OW_yukon	915.70	313.89	321.22	316.88	321.24	0.000052	0.70	1940.96	665.56	0.09
Klondike River	Reach 1	746	0p5-CC-LC_OW_klo	1387.00	313.89	321.28	317.37	321.32	0.000115	1.04	1965.41	666.29	0.14
Klondike River	Reach 1	746	0p5-CC-LC_OW_yuk	1281.90	313.89	322.86	317.27	322.87	0.000028	0.60	3364.63	702.65	0.07
Klondike River	Reach 1	638	5_OW_klondike	713.40	313.68	318.77	316.49	318.82	0.000222	1.01	871.91	540.65	0.18
Klondike River	Reach 1	638	5_OW_yukon	602.70	313.68	319.66	316.37	319.67	0.000062	0.62	1345.90	729.22	0.10
Klondike River	Reach 1	638	1_OW_klondike	905.70	313.68	319.52	316.69	319.56	0.000160	0.98	1269.42	709.01	0.15
Klondike River	Reach 1	638	1_OW_yukon	819.40	313.68	320.76	316.60	320.77	0.000044	0.61	1970.32	858.30	0.08
Klondike River	Reach 1	638	0p5_OW_klondike	990.70	313.68	319.79	316.77	319.83	0.000148	0.98	1420.04	750.04	0.15
Klondike River	Reach 1	638	0p5_OW_yukon	915.70	313.68	321.22	316.69	321.24	0.000039	0.61	2237.72	878.29	0.08
Klondike River	Reach 1	638	0p5-CC-LC_OW_klo	1387.00	313.68	321.27	317.11	321.31	0.000087	0.91	2266.39	882.47	0.12
Klondike River	Reach 1	638	0p5-CC-LC_OW_yuk	1281.90	313.68	322.86	317.03	322.87	0.000018	0.49	4241.89	938.27	0.06

HEC-RAS Plan: YR_AOI_Design_Jam_AEP Locations: User Defined

River	Reach	River Sta	Profile	Ice Btm Chan (m)	Ice Thick Chan (m)	Ice Top Chan (m)	Hydr Depth C (m)	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl	Q Perc Chan
Yukon River	Reach Upper	33084	5_AOI				9.07	2012.00	309.51	321.17	312.47	321.18	0.000011	0.55	4144.72	772.62	0.06	83.90
Yukon River	Reach Upper	33084	1_AOI				10.45	2956.00	309.51	322.54	313.07	322.56	0.000013	0.67	5256.36	812.99	0.07	79.38
Yukon River	Reach Upper	33084	0p5_AOI				11.07	3440.00	309.51	323.16	313.35	323.18	0.000014	0.71	5760.14	814.38	0.07	77.51
Yukon River	Reach Upper	33084	0p5-CC-LC_AOI				12.25	4428.00	309.51	324.34	313.89	324.37	0.000015	0.80	6726.72	817.38	0.07	74.42
Yukon River	Reach Upper	32363	5_AOI	320.01	1.25	321.26	4.91	2012.00	312.15	321.15		321.16	0.000122	0.44	4533.97	927.90	0.06	100.00
Yukon River	Reach Upper	32363	1_AOI	321.38	1.25	322.63	6.26	2956.00	312.15	322.52		322.54	0.000115	0.51	5999.23	1154.39	0.06	99.36
Yukon River	Reach Upper	32363	0p5_AOI	322.00	1.25	323.25	6.88	3440.00	312.15	323.14		323.16	0.000113	0.53	6721.89	1189.66	0.06	98.66
Yukon River	Reach Upper	32363	0p5-CC-LC_AOI	323.18	1.25	324.43	8.07	4428.00	312.15	324.33		324.34	0.000108	0.58	8159.31	1226.26	0.06	97.12
Yukon River	Reach Upper	31862	5_AOI	319.19	2.04	321.23	4.27	2012.00	312.11	321.06		321.07	0.000275	0.60	3524.04	905.33	0.09	84.04
Yukon River	Reach Upper	31862	1_AOI	320.50	2.11	322.61	5.59	2956.00	312.11	322.44		322.46	0.000226	0.65	4809.05	1029.83	0.09	81.06
Yukon River	Reach Upper	31862	0p5_AOI	321.10	2.14	323.24	6.18	3440.00	312.11	323.06		323.08	0.000211	0.67	5441.93	1052.98	0.09	79.66
Yukon River	Reach Upper	31862	0p5-CC-LC_AOI	322.24	2.19	324.43	7.32	4428.00	312.11	324.25		324.27	0.000187	0.71	6668.47	1059.79	0.08	77.39
Yukon River	Reach Upper	31034	5_AOI	318.28	2.78	321.05	4.94	2012.00	309.49	320.82		320.84	0.000305	0.69	3220.29	857.22	0.10	73.06
Yukon River	Reach Upper	31034	1_AOI	319.64	2.84	322.48	6.23	2956.00	309.49	322.24		322.27	0.000257	0.74	4614.36	1039.63	0.10	68.10
Yukon River	Reach Upper	31034	0p5_AOI	320.25	2.87	323.12	6.83	3440.00	309.49	322.88		322.90	0.000240	0.76	5264.70	1043.43	0.09	65.96
Yukon River	Reach Upper	31034	0p5-CC-LC_AOI	321.43	2.91	324.34	8.02	4428.00	309.49	324.09		324.12	0.000211	0.80	6517.99	1046.23	0.09	62.75
Yukon River	Reach Upper	29827	5_AOI	317.82	2.91	320.73	5.49	2012.00	308.06	320.48		320.51	0.000276	0.71	3156.80	695.12	0.10	63.25
Yukon River	Reach Upper	29827	1_AOI	319.24	2.95	322.20	6.69	2956.00	308.06	321.95		321.98	0.000248	0.77	4176.73	714.19	0.09	58.85
Yukon River	Reach Upper	29827	0p5_AOI	319.85	2.99	322.85	7.17	3440.00	308.06	322.60		322.63	0.000244	0.80	4630.39	724.32	0.09	57.37
Yukon River	Reach Upper	29827	0p5-CC-LC_AOI	321.08	3.00	324.09	8.40	4428.00	308.06	323.83		323.87	0.000227	0.85	5527.15	729.95	0.09	55.95
Yukon River	Reach Upper	28324	5_AOI	317.43	2.79	320.22	3.77	2012.00	310.53	319.98		320.01	0.000419	0.68	2704.79	637.91	0.11	51.30
Yukon River	Reach Upper	28324	1_AOI	318.96	2.81	321.77	5.15	2956.00	310.53	321.53		321.56	0.000328	0.74	3796.85	751.00	0.10	53.86
Yukon River	Reach Upper	28324	0p5_AOI	319.59	2.84	322.43	5.78	3440.00	310.53	322.19		322.23	0.000306	0.77	4375.78	987.50	0.10	54.25
Yukon River	Reach Upper	28324	0p5-CC-LC_AOI	320.91	2.81	323.72	7.09	4428.00	310.53	323.48		323.52	0.000255	0.81	5806.48	1188.21	0.10	54.21
Yukon River	Reach Upper	27970	5_AOI	317.54	2.57	320.11	4.96	2012.00	309.72	319.90		319.91	0.000200	0.57	3875.62	998.96	0.08	38.21
Yukon River	Reach Upper	27970	1_AOI	319.12	2.56	321.68	6.54	2956.00	309.72	321.47		321.48	0.000150	0.59	5650.84	1247.49	0.07	35.69
Yukon River	Reach Upper	27970	0p5_AOI	319.77	2.58	322.35	7.19	3440.00	309.72	322.14		322.15	0.000140	0.61	6494.12	1273.04	0.07	34.68
Yukon River	Reach Upper	27970	0p5-CC-LC_AOI	321.11	2.54	323.65	8.53	4428.00	309.72	323.44		323.45	0.000119	0.62	8166.05	1284.06	0.07	32.98
Yukon River	Reach Upper	27183	5_AOI	318.00	1.94	319.94	6.97	2012.00	309.00	319.78		319.79	0.000116	0.54	4514.30	1041.08	0.07	62.12
Yukon River	Reach Upper	27183	1_AOI	319.65	1.88	321.53	8.62	2956.00	309.00	321.37		321.39	0.000097	0.57	6797.50	1774.01	0.06	55.14
Yukon River	Reach Upper	27183	0p5_AOI	320.35	1.86	322.21	9.31	3440.00	309.00	322.05		322.07	0.000090	0.58	8021.19	1805.22	0.06	51.86
Yukon River	Reach Upper	27183	0p5-CC-LC_AOI	321.71	1.81	323.52	10.68	4428.00	309.00	323.37		323.38	0.000076	0.58	10428.83	1834.80	0.06	46.71
Yukon River	Reach Upper	26163	5_AOI	317.86	1.99	319.85	5.91	2012.00	310.39	319.68		319.69	0.000100	0.46	4887.95	1207.94	0.06	74.05
Yukon River	Reach Upper	26163	1_AOI	319.51	1.96	321.47	7.56	2956.00	310.39	321.30		321.31	0.000079	0.49	7438.51	1784.52	0.06	67.53
Yukon River	Reach Upper	26163	0p5_AOI	320.21	1.94	322.15	8.26	3440.00	310.39	321.99		322.00	0.000072	0.49	8675.40	1789.47	0.05	64.43
Yukon River	Reach Upper	26163	0p5-CC-LC_AOI	321.58	1.89	323.47	9.63	4428.00	310.39	323.32		323.33	0.000061	0.50	11081.54	1799.51	0.05	59.60
Yukon River	Reach Upper	25513	5_AOI	317.60	2.18	319.78	7.01	2012.00	305.57	319.60		319.62	0.000181	0.69	3458.30	863.26	0.08	77.08
Yukon River	Reach Upper	25513	1_AOI	319.24	2.18	321.41	8.63	2956.00	305.57	321.23		321.25	0.000158	0.75	5243.90	1247.65	0.08	69.53
Yukon River	Reach Upper	25513	0p5_AOI	319.95	2.16	322.11	9.33	3440.00	305.57	321.92		321.95	0.000147	0.76	6113.37	1249.26	0.08	65.67
Yukon River	Reach Upper	25513	0p5-CC-LC_AOI	321.31	2.12	323.44	10.70	4428.00	305.57	323.26		323.28	0.000128	0.77	7800.11	1265.39	0.08	59.77
Yukon River	Reach Upper	25116	5_AOI	317.41	2.28	319.68	6.37	2012.00	308.87	319.49		319.51	0.000222	0.73	3386.55	917.44	0.09	68.99
Yukon River	Reach Upper	25116	1_AOI	319.06	2.27	321.33	8.02	2956.00	308.87	321.14		321.16	0.000177	0.76	5106.55	1088.22	0.09	61.49
Yukon River	Reach Upper	25116	0p5_AOI	319.77	2.26	322.03	8.73	3440.00	308.87	321.84		321.86	0.000164	0.77	5869.94	1091.01	0.08	58.53
Yukon River	Reach Upper	25116	0p5-CC-LC_AOI	321.14	2.23	323.37	10.11	4428.00	308.87	323.18		323.20	0.000143	0.79	7349.38	1097.18	0.08	54.13
Yukon River	Reach Upper	24839	5_AOI	317.28	2.36	319.64	5.49	2012.00	308.47	319.44		319.46	0.000182	0.60	3696.89	909.36	0.08	78.74
Yukon River	Reach Upper	24839	1_AOI	318.95	2.35	321.30	7.16	2956.00	308.47	321.10		321.12	0.000144	0.63	5254.46	1017.00	0.08	74.18
Yukon River	Reach Upper	24839	0p5_AOI	319.65	2.34	322.00	7.86	3440.00	308.47	321.80		321.82	0.000137	0.66	5973.69	1027.00	0.07	72.54
Yukon River	Reach Upper	24839	0p5-CC-LC_AOI	321.02	2.32	323.34	9.23	4428.00	308.47	323.15		323.17	0.000123	0.69	7373.52	1034.84	0.07	69.85
Yukon River	Reach Upper	24691	5_AOI	317.24	2.38	319.62	5.95	2012.00	308.44	319.42		319.43	0.000138	0.55	4118.09	871.67	0.07	74.93
Yukon River	Reach Upper	24691	1_AOI	318.91	2.37	321.28	7.62	2956.00	308.44	321.08		321.10	0.000116	0.59	5607.28	942.61	0.07	70.60
Yukon River	Reach Upper	24691	0p5_AOI	319.62	2.36	321.98	8.32	3440.00	308.44	321.78		321.80	0.000111	0.61	6269.81	944.76	0.07	68.94
Yukon River	Reach Upper	24691	0p5-CC-LC_AOI	320.98	2.35	323.33	9.69	4428.00	308.44	323.13		323.15	0.000103	0.66	7556.92	952.96	0.07	66.46
Yukon River	Reach Upper	24532	5_AOI	317.22	2.39	319.61	5.42	2012.00	307.75	319.41		319.42	0.000035	0.52	3955.03	836.43	0.07	99.58
Yukon River	Reach Upper	24532	1_AOI	318.89	2.38	321.27	7.07	2956.00	307.75	321.07		321.09	0.000031	0.58	5373.12	864.20	0.07	98.83
Yukon River	Reach Upper	24532	0p5_AOI	319.60	2.38	321.97	7.78	3440.00	307.75	321.77		321.79	0.000030	0.61	5986.49	871.06	0.07	98.50
Yukon River	Reach Upper	24532	0p5-CC-LC_AOI	320.95	2.37	323.32	9.13	4428.00	307.75	323.12		323.14	0.000029	0.67	7167.45	877.32	0.07	97.87
Yukon River	Reach Upper	24416	5_AOI	317.10	2.51	319.61	4.99	2012.00	306.29	319.40		319.42	0.000049	0.58	3504.47	777.86	0.08	99.85
Yukon River	Reach Upper	24416	1_AOI	318.76	2.51	321.27	6.62	2956.00	306.29	321.06		321.08	0.000040	0.64	4920.91	896.78	0.08	99.07
Yukon River	Reach Upper	24416	0p5_AOI	319.47	2.50	321.97	7.33	3440.00	306.29	321.76		321.79	0.000030	0.67	5553.90	898.47	0.08	98.57
Yukon River	Reach Upper	24416	0p5-CC-LC_AOI	320.82	2.50	323.32	8.68	4428.00	306.29	323.11		323.14	0.000036	0.72	6766.37	900.42	0.08	97.69
Yukon River	Reach Upper	24313	5_AOI	316.94	2.67	319.61	4.77	2012.00	305.31	319.39		319.41	0.000256	0.64	3178.71	746.38	0.09	99.37
Yukon River	Reach Upper	24313	1_AOI	318.62	2.66	321.28	6.44	2956.00	305.31	321.05		321.08	0.000191	0.68	4693.87	951.17	0.09	96.68
Yukon River	Reach Upper	24313	0p5_AOI	319.33	2.65	321.98	7.15	3440.00	305.31	321.75		321.78	0.000177	0.70	5369.02	955.37	0.08	95.19
Yukon River	Reach Upper	24313	0p5-CC-LC_AOI	320.69	2.64	323.33	8.51	4428.00	305.31	323.10		323.13	0.000156	0.74	6667.33	961.08	0.08	92.64
Yukon River	Reach Upper	24212	5_AOI	316.70	2.89	319.60	4.38	2012.00	304.88	319.35		319.38	0.000349	0.71	2925.74	817.49	0.11	98.98
Yukon River	Reach Upper	24212	1_AOI	318.43	2.84	321.27	6.07	2956.00	304.88	321.03		321.06	0.000230	0.72	4574.21	1007.91	0.09	95.02
Yukon River	Reach Upper	24212	0p5_AOI	319.15	2.82	321.97	6.79	3440.00	304.88	321.73		321.76	0.000206	0.73	5296.01	1011.92	0.09	93.09
Yukon River	Reach Upper	24212	0p5-CC-LC_AOI	320.54	2.78	323.32	8.18	4428.00	304.88	323.09		323.12	0.000172	0.75	6690.73	1015.64	0.08	89.96
Yukon River	Reach Lower	23731	5_AOI	316.41	2.95	319.37	4.71	2340.00	303.17	319.12	311.19	319.17	0.000712	0.97	2414.81	512.58	0.14	100.00
Yukon River	Reach Lower	23731	1_AOI	318.22	2.88	321.10	6.44	3370.00	303.17	320.86	312.16	320.91	0.000507	1.01	3361.44	774.40	0.13	99.85
Yukon River	Reach Lower	23731	0p5_AOI	318.95	2.86	321.81	7.17	3885.00	303.17	321.57	312.64	321.63	0.000468	1.04	3755.66	836.20	0.12	99.73
Yukon River	Reach Lower	23731	0p5-CC-LC_AOI	320.41	2.78	323.19	8.62	5051.00	303.17	322.95	313.49	323.01	0.000373	1.05	5329.46	899.95	0.11	93.17
Yukon River	Reach Lower	23624	5_AOI	316.10	3.20	319.30	5.09	2340.00	303.04	319.03	311.52	319.09	0.000737	1.04	2260.57	449.33	0.15	99.97
Yukon River	Reach Lower	23624	1_AOI	317.94	3.11	321.05	6.88	3370.00	303.04	320.79	312.45	320.85	0.000548	1.09	3096.87	768.73	0.13	99.74
Yukon River	Reach Lower	23624	0p5_AOI	318.68	3.10	321.78	7.62	3885.00	303.04	321.52	312.97	321.58	0.000488	1.10	3821.36	801.85	0.13	96.72
Yukon River	Reach Lower	23624	0p5-CC-LC_AOI	320.15	3.00	323.16	9.10	5051.00	303.04	322.90	313.73	322.97	0.000413	1.14	5003.89	851.76	0.12	91.88
Yukon River	Reach Lower	23530	5_AOI	315.86	3.40	319.26	5.95	2340.00	302.73	318.97	311.13	319.02	0.000570	1.01	2312.28	389.66	0.13	100.00
Yukon River	Reach Lower	23530	1_AOI	317.69	3.33	321.02	7.61	3370.00	302.73	320.74	312.11	320.80	0.000494	1.11	3043.31	748.28	0.13	99.94
Yukon River	Reach Lower	23530	0p5_AOI	318.43	3.32	321.75	8.34	3885.00	302.73	321.47	312.52	321.53	0.000441	1.11	3854.93	771.96	0.12	95.60
Yukon River	Reach Lower	23530	0p5-CC-LC_AOI	319.93	3.20	323.14	9.84	5051.00	302.73	322.87	313.30	322.93	0.000385	1.16	5024.45	838.62	0.12	90.48
Yukon River	Reach Lower	23462	5_AOI	315.77	3.46	319.23	6.16	2340.00	302.74	318.94	310.99	318.99	0.000458	1.02	2303.63	380.07	0.13	99.97
Yukon River	Reach Lower	23462	1_AOI	317.57	3.42	320.99	7.84	3370.00	302.74	320.71	311.93	320.77	0.000409	1.13	3001.87	759.47	0.13	99.76
Yukon River	Reach Lower	23462	0p5_AOI	318.32	3.41	321.73	8.59	3885.00	302.74	321.44	312.38	321.51	0.000362	1.13	3898.05	786.69	0.12	94.84
Yukon River	Reach Lower	23462	0p5-CC-LC_AOI	319.82	3.29	323.12	10.09	5051.00	302.74	322.84	313.21	322.91	0.000319	1.18	5083.95	839.20	0.12	89.49
Yukon River	Reach Lower	23387	5_AOI	315.69	3.51	319.19	6.20	2340.00	302.37	318.90	310.92	318.95	0.000481	1.05	2238.23	392.58	0.13	99.99
Yukon River	Reach Lower	23387	1_AOI	317.45	3.51	320.96	7.83	3370.00	302.37	320.67	311.90	320.74	0.000441	1.17	2891.65	679.25	0.13	99.86
Yukon River	Reach Lower	23387	0p5_AOI	318.21	3.50	321.70	8.59	3885.00	302.37	321.41	312.33	321.48	0.000389	1.17	3721.64	720.31	0.13	94.97
Yukon River	Reach Lower	23387	0p5-CC-LC_AOI	319.69	3.40	323.10	10.07	5051.00	302.37	322.81	313.18	322.88	0.000350	1.23	4851.11	825.17	0.12	90.35
Yukon River	Reach Lower	23323	5_AOI	315.65	3.51	319.16	6.42	2340.00	302.29	318.87	310.91	318.92	0.000466	1.05	2222.41	349.54	0.13	100.00
Yukon River	Reach Lower	23323	1_AOI	317.36	3.58	320.94	8.01	3370.00	302.29	320.64	311.88	320.71	0.000448	1.19	2828.68	663.87	0.13	99.88
Yukon River	Reach Lower	23323	0p5_AOI	318.11	3.57	321.68	8.74	3885.00	302.29	321.38	312.28	321.45	0.000412	1.21	3561.19	730.44	0.13	96.30
Yukon River	Reach Lower	23323	0p5-CC-LC_AOI	319.58	3.50	323.07	10.21	5051.00	302.29	322.78	313.04	322.86	0.000370	1.28	4675.03	800.14	0.13	90.98
Yukon River	Reach Lower	23245	5_AOI	315.64	3.49	319.13	6.76	2340.00	302.93	318.83	310.98	318.89	0.000436	1.05	2221.28	336.23	0.13	99.98
Yukon River	Reach Lower	23245	1_AOI	317.27	3.64	320.91	8.24	3370.00	302.93	320.60	311.97	320.68	0.000448	1.22	2780.79	635.15	0.14	99.72
Yukon River	Reach Lower	23245	0p5_AOI	317.99	3.66	321.65	8.94	3885.00	302.93	321.34	312.37	321.42	0.000426	1.25	3427.42	738.53	0.13	96.89
Yukon River	Reach Lower	23245	0p5-CC-LC_AOI	319.44	3.61	323.05	10.40	5051.00	302.93	322.75	313.17	322.83	0.000387	1.32	4516.37	781.76	0.13	91.36
Yukon River	Reach Lower	23162	5_AOI	315.64	3.44	319.08	7.06	2340.00	302.95	318.79	310.99	318.85	0.000424	1.07	2191.12	319.49	0.13	99.96
Yukon River	Reach Lower	23162	1_AOI	317.18	3.69	320.87	8.52	3370.00	302.95	320.56	312.05	320.64	0.000460	1.26	2691.11	557.98	0.14	99.63
Yukon River	Reach Lower	23162	0p5_AOI	317.87	3.74	321.61	9.20	3885.00	302.95	321.30	312.47	321.38	0.000445	1.30	3323.14	735.59	0.14	96.73
Yukon River	Reach Lower	23162	0p5-CC-LC_AOI	319.30	3.72	323.02	10.63	5051.00	302.95	322.71	313.22	322.79	0.000408	1.38	4420.17	794.61	0.13	90.63
Yukon River	Reach Lower	23063	5_AOI	315.70	3.34	319.04	7.87	2340.00	303.28	318.76	310.78	318.81	0.000348	1.04	2251.12	295.31	0.12	99.95
Yukon River	Reach Lower	23063	1_AOI	317.12	3.70	320.82	9.17	3370.00	303.28	320.51	311.92	320.59	0.000419	1.26	2683.64	650.73	0.13	99.61
Yukon River	Reach Lower	23063	0p5_AOI	317.78	3.79	321.57	9.78	3885.00	303.28	321.25	312.35	321.34	0.000415	1.31	3359.59	744.84	0.13	96.21
Yukon River	Reach Lower	23063	0p5-CC-LC_AOI	319.17	3.81	322.98	11.17	5051.00	303.28	322.66	313.13	322.75	0.000390	1.39	4471.05	811.45	0.13	89.54
Yukon River	Reach Lower	22966	5_AOI	315.80	3.20	319.00	8.54	2340.00	304.10	318.73	310.45	318.78	0.000280	0.99	2367.39	278.15	0.11	100.00
Yukon River	Reach Lower	22966	1_AOI	317.13	3.65	320.78	9.70	3370.00	304.10	320.48	311.62	320.55	0.000366	1.23	2748.33	421.33	0.13	99.94
Yukon River	Reach Lower	22966	0p5_AOI	317.74	3.79	321.53	10.27	3885.00	304.10	321.21	312.09	321.30	0.000388	1.31	3196.53	675.97	0.13	98.50
Yukon River	Reach Lower	22966	0p5-CC-LC_AOI	319.07	3.88	322.94	11.59	5051.00	304.10	322.62	312.88	322.72	0.000391	1.43	4240.26	798.28	0.13	93.11
Yukon River	Reach Lower	22869	5_AOI	315.91	3.05	318.97	8.78	2340.00	304.06	318.71	310.60	318.76	0.000249	0.95	2465.61	281.71	0.10	100.00

HEC-RAS Plan: YR_AOI_Design_Jam_AEP Locations: User Defined (Continued)

River	Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
				(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Yukon River	Reach Lower	22869	1_AOI	317.17	3.58	320.75	9.84	3370.00	304.06	320.45	311.78	320.52	0.000339	1.19	2833.26	450.90	0.12	99.91
Yukon River	Reach Lower	22869	0p5_AOI	317.74	3.76	321.50	10.39	3885.00	304.06	321.18	312.25	321.26	0.000365	1.28	3272.69	739.27	0.13	98.61
Yukon River	Reach Lower	22869	0p5-CC-LC_AOI	319.00	3.91	322.91	11.66	5051.00	304.06	322.58	313.02	322.68	0.000373	1.40	4313.10	781.55	0.13	92.93
Yukon River	Reach Lower	22783	5_AOI	316.01	2.92	318.94	8.95	2340.00	303.94	318.69	310.56	318.73	0.000220	0.90	2592.05	291.49	0.10	99.99
Yukon River	Reach Lower	22783	1_AOI	317.22	3.50	320.72	10.03	3370.00	303.94	320.42	311.73	320.49	0.000303	1.14	2957.29	364.59	0.12	99.86
Yukon River	Reach Lower	22783	0p5_AOI	317.75	3.71	321.46	10.54	3885.00	303.94	321.15	312.22	321.23	0.000335	1.24	3328.18	745.85	0.12	99.03
Yukon River	Reach Lower	22783	0p5-CC-LC_AOI	318.98	3.91	322.88	11.76	5051.00	303.94	322.55	313.01	322.64	0.000352	1.37	4360.96	792.40	0.13	93.84
Yukon River	Reach Lower	22679	5_AOI	316.10	2.81	318.91	8.63	2340.00	304.84	318.67	310.94	318.71	0.000215	0.87	2681.38	314.11	0.09	100.00
Yukon River	Reach Lower	22679	1_AOI	317.26	3.42	320.68	9.64	3370.00	304.84	320.39	312.12	320.46	0.000298	1.11	3056.87	430.07	0.11	99.89
Yukon River	Reach Lower	22679	0p5_AOI	317.76	3.67	321.43	10.15	3885.00	304.84	321.12	312.61	321.19	0.000329	1.20	3428.89	695.55	0.12	99.00
Yukon River	Reach Lower	22679	0p5-CC-LC_AOI	318.94	3.91	322.85	11.33	5051.00	304.84	322.52	313.41	322.61	0.000353	1.34	4380.49	786.70	0.13	94.71
Yukon River	Reach Lower	22594	5_AOI	316.16	2.73	318.88	8.33	2340.00	305.38	318.66	311.23	318.69	0.000210	0.84	2780.43	334.01	0.09	100.00
Yukon River	Reach Lower	22594	1_AOI	317.29	3.37	320.66	9.36	3370.00	305.38	320.37	312.40	320.43	0.000289	1.07	3169.36	393.76	0.11	99.93
Yukon River	Reach Lower	22594	0p5_AOI	317.77	3.63	321.40	9.80	3885.00	305.38	321.10	312.92	321.17	0.000325	1.16	3446.70	628.74	0.12	99.52
Yukon River	Reach Lower	22594	0p5-CC-LC_AOI	318.91	3.91	322.82	10.92	5051.00	305.38	322.49	313.71	322.58	0.000354	1.31	4354.00	742.57	0.13	95.95
Yukon River	Reach Lower	22499	5_AOI	316.21	2.65	318.86	8.16	2340.00	305.90	318.64	311.25	318.67	0.000192	0.79	2955.02	367.74	0.09	99.79
Yukon River	Reach Lower	22499	1_AOI	317.31	3.32	320.63	9.00	3370.00	305.90	320.35	312.43	320.40	0.000269	1.00	3379.81	477.57	0.11	99.52
Yukon River	Reach Lower	22499	0p5_AOI	317.78	3.60	321.38	9.41	3885.00	305.90	321.07	312.93	321.13	0.000300	1.09	3713.40	633.30	0.11	98.80
Yukon River	Reach Lower	22499	0p5-CC-LC_AOI	318.88	3.91	322.80	10.52	5051.00	305.90	322.47	313.72	322.54	0.000329	1.23	4550.85	709.61	0.12	95.68
Yukon River	Reach Lower	22376	5_AOI	316.24	2.60	318.83	8.04	2340.00	306.45	318.62	311.62	318.65	0.000193	0.79	2973.01	377.02	0.09	99.82
Yukon River	Reach Lower	22376	1_AOI	317.31	3.28	320.59	8.92	3370.00	306.45	320.32	312.78	320.37	0.000269	1.00	3408.61	443.68	0.11	99.49
Yukon River	Reach Lower	22376	0p5_AOI	317.76	3.57	321.34	9.36	3885.00	306.45	321.04	313.28	321.10	0.000301	1.09	3673.04	590.42	0.11	98.99
Yukon River	Reach Lower	22376	0p5-CC-LC_AOI	318.82	3.93	322.75	10.42	5051.00	306.45	322.42	314.10	322.50	0.000337	1.24	4471.47	709.94	0.12	96.31
Yukon River	Reach Lower	22268	5_AOI	316.25	2.57	318.81	7.45	2340.00	306.94	318.60	312.00	318.63	0.000183	0.73	3204.57	431.76	0.09	100.00
Yukon River	Reach Lower	22268	1_AOI	317.31	3.26	320.57	8.40	3370.00	306.94	320.30	313.10	320.34	0.000247	0.92	3671.66	475.23	0.10	99.94
Yukon River	Reach Lower	22268	0p5_AOI	317.75	3.56	321.31	8.84	3885.00	306.94	321.01	313.58	321.06	0.000275	1.00	3933.24	553.97	0.11	99.69
Yukon River	Reach Lower	22268	0p5-CC-LC_AOI	318.77	3.95	322.73	9.86	5051.00	306.94	322.39	314.40	322.46	0.000314	1.15	4578.50	599.12	0.12	98.32
Yukon River	Reach Lower	22140	5_AOI	316.22	2.57	318.79	6.86	2340.00	307.43	318.57		318.60	0.000203	0.73	3217.01	477.10	0.09	100.00
Yukon River	Reach Lower	22140	1_AOI	317.26	3.27	320.54	7.70	3370.00	307.43	320.26		320.31	0.000269	0.90	3776.66	534.91	0.10	99.61
Yukon River	Reach Lower	22140	0p5_AOI	317.71	3.57	321.28	8.14	3885.00	307.43	320.98		321.03	0.000295	0.98	4030.45	544.18	0.11	99.26
Yukon River	Reach Lower	22140	0p5-CC-LC_AOI	318.69	4.00	322.69	9.12	5051.00	307.43	322.35		322.42	0.000335	1.13	4597.12	557.22	0.12	98.40
Yukon River	Reach Lower	22031	5_AOI	316.16	2.61	318.77	6.58	2340.00	307.80	318.55		318.58	0.000221	0.74	3163.04	481.61	0.09	100.00
Yukon River	Reach Lower	22031	1_AOI	317.19	3.32	320.51	7.53	3370.00	307.80	320.23		320.27	0.000285	0.92	3678.37	502.82	0.11	99.91
Yukon River	Reach Lower	22031	0p5_AOI	317.63	3.62	321.25	7.97	3885.00	307.80	320.94		320.99	0.000314	1.00	3904.26	513.42	0.11	99.81
Yukon River	Reach Lower	22031	0p5-CC-LC_AOI	318.57	4.08	322.65	8.91	5051.00	307.80	322.31		322.38	0.000363	1.16	4421.39	548.35	0.12	99.47
Yukon River	Reach Lower	21855	5_AOI	315.98	2.76	318.74	5.94	2340.00	307.56	318.50		318.53	0.000302	0.74	3233.93	575.76	0.10	97.15
Yukon River	Reach Lower	21855	1_AOI	317.01	3.45	320.47	6.97	3370.00	307.56	320.18		320.22	0.000354	0.89	3876.61	590.32	0.11	95.45
Yukon River	Reach Lower	21855	0p5_AOI	317.44	3.76	321.20	7.40	3885.00	307.56	320.88		320.93	0.000381	0.96	4155.75	608.76	0.11	94.84
Yukon River	Reach Lower	21855	0p5-CC-LC_AOI	318.35	4.25	322.61	8.31	5051.00	307.56	322.25		322.31	0.000423	1.09	4768.93	637.37	0.12	93.21
Yukon River	Reach Lower	21704	5_AOI	315.73	2.96	318.69	5.10	2340.00	306.31	318.44		318.48	0.000434	0.80	2932.58	577.47	0.11	100.00
Yukon River	Reach Lower	21704	1_AOI	316.76	3.65	320.42	6.10	3370.00	306.31	320.11		320.15	0.000489	0.95	3543.86	597.31	0.12	99.83
Yukon River	Reach Lower	21704	0p5_AOI	317.18	3.96	321.14	6.52	3885.00	306.31	320.81		320.86	0.000519	1.03	3804.61	605.30	0.13	99.67
Yukon River	Reach Lower	21704	0p5-CC-LC_AOI	318.07	4.47	322.54	7.41	5051.00	306.31	322.16		322.23	0.000568	1.17	4366.67	624.32	0.14	99.12
Yukon River	Reach Lower	21589	5_AOI	315.40	3.26	318.65	4.66	2340.00	305.41	318.38		318.42	0.000597	0.88	2654.90	589.93	0.13	100.00
Yukon River	Reach Lower	21589	1_AOI	316.45	3.91	320.37	5.69	3370.00	305.41	320.04		320.09	0.000630	1.03	3265.29	585.48	0.14	99.94
Yukon River	Reach Lower	21589	0p5_AOI	316.88	4.21	321.09	6.11	3885.00	305.41	320.73		320.79	0.000658	1.11	3523.02	597.87	0.14	99.80
Yukon River	Reach Lower	21589	0p5-CC-LC_AOI	317.73	4.75	322.48	6.96	5051.00	305.41	322.08		322.16	0.000714	1.26	4048.98	604.43	0.15	99.39
Yukon River	Reach Lower	21455	5_AOI	314.85	3.73	318.58	4.36	2340.00	304.50	318.27		318.32	0.000849	1.01	2330.50	535.55	0.15	99.92
Yukon River	Reach Lower	21455	1_AOI	315.89	4.40	320.29	5.35	3370.00	304.50	319.92		319.99	0.000872	1.17	2897.55	551.30	0.16	99.83
Yukon River	Reach Lower	21455	0p5_AOI	316.32	4.69	321.00	5.77	3885.00	304.50	320.61		320.69	0.000896	1.24	3144.18	573.40	0.17	99.70
Yukon River	Reach Lower	21455	0p5-CC-LC_AOI	317.17	5.22	322.39	6.60	5051.00	304.50	321.95		322.05	0.000950	1.40	3669.43	601.66	0.17	99.07
Yukon River	Reach Lower	21317	5_AOI	314.06	4.41	318.47	4.18	2340.00	303.08	318.10		318.18	0.001333	1.22	1913.81	457.53	0.19	100.00
Yukon River	Reach Lower	21317	1_AOI	315.04	5.12	320.17	4.97	3370.00	303.08	319.73		319.84	0.001427	1.42	2393.99	516.95	0.20	99.83
Yukon River	Reach Lower	21317	0p5_AOI	315.47	5.41	320.87	5.34	3885.00	303.08	320.42		320.53	0.001450	1.50	2631.11	544.97	0.21	99.49
Yukon River	Reach Lower	21317	0p5-CC-LC_AOI	316.33	5.91	322.24	6.17	5051.00	303.08	321.75		321.89	0.001457	1.66	3148.37	567.66	0.21	98.21
Yukon River	Reach Lower	21152	5_AOI	312.95	5.29	318.24	4.07	2340.00	303.41	317.80		317.91	0.002008	1.47	1587.74	390.03	0.23	100.00
Yukon River	Reach Lower	21152	1_AOI	313.78	6.11	319.89	4.60	3370.00	303.41	319.38		319.53	0.002406	1.75	1946.87	460.46	0.26	99.71
Yukon River	Reach Lower	21152	0p5_AOI	314.21	6.38	320.59	4.96	3885.00	303.41	320.06		320.23	0.002394	1.84	2172.21	518.18	0.26	99.21
Yukon River	Reach Lower	21152	0p5-CC-LC_AOI	315.18	6.79	321.97	5.58	5051.00	303.41	321.40		321.58	0.002266	1.93	2736.90	559.02	0.26	96.84
Yukon River	Reach Lower	21048	5_AOI	312.34	5.83	318.17	3.96	2340.00	303.45	317.68		317.81	0.000510	1.61	1450.20	365.97	0.26	100.00
Yukon River	Reach Lower	21048	1_AOI	313.10	6.69	319.79	4.67	3370.00	303.45	319.22		319.42	0.000596	1.95	1733.90	376.88	0.29	99.98
Yukon River	Reach Lower	21048	0p5_AOI	313.53	6.95	320.48	4.98	3885.00	303.45	319.90		320.11	0.000607	2.05	1924.22	452.02	0.29	99.87
Yukon River	Reach Lower	21048	0p5-CC-LC_AOI	314.52	7.32	321.84	5.39	5051.00	303.45	321.23		321.47	0.000617	2.18	2460.62	542.69	0.30	98.88
Yukon River	Reach Lower	20921	5_AOI	311.94	6.13	318.07	4.31	2340.00	302.28	317.56		317.70	0.001952	1.65	1423.00	331.79	0.25	99.83
Yukon River	Reach Lower	20921	1_AOI	312.61	7.04	319.66	4.92	3370.00	302.28	319.06		319.28	0.002532	2.05	1649.75	340.15	0.30	99.72
Yukon River	Reach Lower	20921	0p5_AOI	313.00	7.34	320.34	5.30	3885.00	302.28	319.72		319.97	0.002619	2.19	1786.70	344.70	0.30	99.63
Yukon River	Reach Lower	20921	0p5-CC-LC_AOI	313.92	7.76	321.68	6.07	5051.00	302.28	321.03		321.32	0.002629	2.40	2174.08	463.06	0.31	98.91
Yukon River	Reach Lower	20805	5_AOI	311.93	5.98	317.91	5.31	2340.00	300.49	317.41		317.51	0.001149	1.45	1609.48	303.31	0.20	100.00
Yukon River	Reach Lower	20805	1_AOI	312.49	6.93	319.42	5.84	3370.00	300.49	318.84		319.02	0.001714	1.89	1784.32	326.82	0.25	99.98
Yukon River	Reach Lower	20805	0p5_AOI	312.86	7.23	320.09	6.19	3885.00	300.49	319.48		319.70	0.001863	2.05	1921.67	364.55	0.26	99.79
Yukon River	Reach Lower	20805	0p5-CC-LC_AOI	313.70	7.72	321.42	6.92	5051.00	300.49	320.77		321.04	0.002051	2.32	2285.71	422.99	0.28	98.64
Yukon River	Reach Lower	20702	5_AOI	312.26	5.59	317.85	6.15	2340.00	300.38	317.38		317.47	0.000191	1.32	1769.53	287.93	0.17	100.00
Yukon River	Reach Lower	20702	1_AOI	312.82	6.52	319.35	6.60	3370.00	300.38	318.80		318.95	0.000303	1.74	1932.53	293.82	0.22	100.00
Yukon River	Reach Lower	20702	0p5_AOI	313.16	6.85	320.01	6.83	3885.00	300.38	319.43		319.62	0.000348	1.91	2045.92	352.94	0.23	99.97
Yukon River	Reach Lower	20702	0p5-CC-LC_AOI	313.86	7.46	321.32	7.18	5051.00	300.38	320.70		320.95	0.000444	2.23	2393.86	449.97	0.27	99.36
Yukon River	Reach Lower	20571	5_AOI	312.87	4.89	317.77	7.17	2340.00	301.15	317.36		317.42	0.000475	1.14	2046.51	285.31	0.14	100.00
Yukon River	Reach Lower	20571	1_AOI	313.46	5.79	319.25	7.49	3370.00	301.15	318.76		318.88	0.000779	1.52	2232.15	325.29	0.18	99.90
Yukon River	Reach Lower	20571	0p5_AOI	313.76	6.15	319.91	7.59	3885.00	301.15	319.39		319.54	0.000916	1.68	2353.42	368.24	0.19	99.70
Yukon River	Reach Lower	20571	0p5-CC-LC_AOI	314.33	6.89	321.22	7.60	5051.00	301.15	320.64		320.84	0.001204	2.00	2637.07	428.12	0.23	98.69
Yukon River	Reach Lower	20458	5_AOI	313.42	4.28	317.70	6.76	2340.00	301.98	317.34		317.40	0.000112	1.08	2167.95	320.73	0.13	100.00
Yukon River	Reach Lower	20458	1_AOI	314.03	5.14	319.17	7.17	3370.00	301.98	318.74		318.84	0.000180	1.42	2371.54	336.88	0.17	99.99
Yukon River	Reach Lower	20458	0p5_AOI	314.32	5.51	319.82	7.30	3885.00	301.98	319.36		319.49	0.000216	1.58	2475.52	356.22	0.19	99.97
Yukon River	Reach Lower	20458	0p5-CC-LC_AOI	314.88	6.24	321.12	7.70	5051.00	301.98	320.60		320.78	0.000291	1.89	2749.95	455.67	0.22	99.72
Yukon River	Reach Lower	20367	5_AOI	313.78	3.88	317.66	7.04	2340.00	302.69	317.34		317.39	0.000091	1.00	2348.93	333.85	0.12	100.00
Yukon River	Reach Lower	20367	1_AOI	314.41	4.72	319.13	7.49	3370.00	302.69	318.73		318.82	0.000147	1.32	2565.43	356.41	0.15	99.99
Yukon River	Reach Lower	20367	0p5_AOI	314.69	5.09	319.78	7.72	3885.00	302.69	319.36		319.46	0.000178	1.46	2676.82	370.76	0.17	99.95
Yukon River	Reach Lower	20367	0p5-CC-LC_AOI	315.28	5.80	321.08	8.24	5051.00	302.69	320.59		320.75	0.000244	1.76	2977.01	481.12	0.20	99.69
Yukon River	Reach Lower	20250	5_AOI	314.09	3.52	317.62	7.25	2340.00	303.47	317.32		317.37	0.000305	0.93	2518.87	347.55	0.11	100.00
Yukon River	Reach Lower	20250	1_AOI	314.71	4.37	319.08	7.70	3370.00	303.47	318.71		318.79	0.000490	1.23	2734.87	357.51	0.14	99.99
Yukon River	Reach Lower	20250	0p5_AOI	314.99	4.74	319.73	7.90	3885.00	303.47	319.33		319.43	0.000583	1.37	2840.15	368.39	0.16	99.98
Yukon River	Reach Lower	20250	0p5-CC-LC_AOI	315.57	5.44	321.02	8.37	5051.00	303.47	320.56		320.70	0.000777	1.65	3161.25	593.53	0.18	99.57
Yukon River	Reach Lower	20146	5_AOI	314.35	3.22	317.57	7.14	2340.00	304.44	317.30		317.34	0.000266	0.86	2734.68	383.10	0.10	100.00
Yukon River	Reach Lower	20146	1_AOI	314.96	4.05	319.01	7.61	3370.00	304.44	318.67		318.74	0.000429	1.13	2971.56	392.70	0.13	100.00
Yukon River	Reach Lower	20146	0p5_AOI	315.25	4.41	319.65	7.88	3885.00	304.44	319.28		319.37	0.000506	1.26	3085.54	406.75	0.14	99.99
Yukon River	Reach Lower	20146	0p5-CC-LC_AOI	315.82	5.11	320.93	8.43	5051.00	304.44	320.50		320.61	0.000668	1.51	3504.96	653.22	0.17	99.16
Yukon River	Reach Lower	20008	5_AOI	314.57	2.97	317.53	6.74	2340.00	305.47	317.29		317.32	0.000062	0.80	2906.96	431.53	0.10	100.00
Yukon River	Reach Lower	20008	1_AOI	315.20	3.77	318.97	7.32	3370.00	305.47	318.65		318.71	0.000097	1.06	3180.35	436.13	0.13	100.00
Yukon River	Reach Lower	20008	0p5_AOI	315.49	4.12	319.61	7.60	3885.00	305.47	319.26		319.33	0.000113	1.17	3309.80	439.79	0.14	100.00
Yukon River	Reach Lower	20008	0p5-CC-LC_AOI	316.07	4.81	320.87	8.15	5051.00	305.47	320.47		320.57	0.000150	1.41	3805.67	708.06	0.16	99.44
Yukon River	Reach Lower	19824	5_AOI	314.68	2.83	317.51	5.72	2340.00	306.60	317.27		317.30	0.000159	0.76	3079.67	538.57	0.10	100.00
Yukon River	Reach Lower	19824	1_AOI	315.32	3.61	318.94	6.33	3370.00	306.60	318.63		318.68	0.000233	0.98	3426.64	547.13	0.12	100.00
Yukon River	Reach Lower	19824	0p5_AOI	315.62	3.95	319.57	6.62	3885.00	306.60	319.24		319.30	0.000266	1.08	3626.54	694.46	0.13	99.93
Yukon River	Reach Lower	19824	0p5-CC-LC_AOI	316.22	4.61	320.83	7.19	5051.00	306.60	320.44		320.53	0.000333	1.28	4201.57	785.07	0.15	98.84
Yukon River	Reach Lower	19695	5_AOI	314.69	2.79	317.48	5.38	2340.00	307.61	317.25		317.28	0.000185	0.80	2991.67	583.66	0.11	99.34
Yukon River	Reach Lower	19695	1_AOI	315.34	3.55	318.90	6.01	3370.00	307.61	318.60		318.65	0.000260	1.02	3432.76	651.82	0.13	98.76
Yukon River	Reach Lower	19695	0p5_AOI	315.65	3.88	319.53	6.31	3885.00	307.61	319.20		319.26	0.000291	1.11	3688.96	754.15	0.14	98.40
Yukon River	Reach Lower	19695	0p5-CC-LC_AOI	316.29	4.49	320.78	6.93	5051.00	307.61	320.40		320.48	0.000344	1.28	4372.02	877.82	0.16	96.44
Yukon River	Reach Lower	19565	5_AOI	314.64	2.82	317.46	4.72	2340.00	308.72	317.22		317.24	0.000337	0.67	3585.09	812.12	0.10	74.92
Yukon River	Reach Lower	19565	1_AOI	315.35	3.52	318.87	5.42	3370.00	308.72	318.57		318.60	0.000389	0.79	4350.19	861.45	0.11	70.47

HEC-RAS Plan: YR_AOI_Design_Jam_AEP Locations: User Defined (Continued)

River	Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
				(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Yukon River	Reach Lower	19565	0p5_AOI	315.67	3.83	319.50	5.74	3885.00	308.72	319.18		319.21	0.000406	0.84	4716.65	876.87	0.11	68.67
Yukon River	Reach Lower	19565	0p5-CC-LC_AOI	316.38	4.36	320.74	6.44	5051.00	308.72	320.38		320.42	0.000428	0.93	5526.71	914.85	0.12	65.88
Yukon River	Reach Lower	19430	5_AOI	314.48	2.92	317.40	3.82	2340.00	308.98	317.15		317.18	0.000477	0.70	3389.75	935.21	0.11	74.78
Yukon River	Reach Lower	19430	1_AOI	315.24	3.56	318.80	4.56	3370.00	308.98	318.50		318.53	0.000493	0.80	4375.90	1107.33	0.12	71.20
Yukon River	Reach Lower	19430	0p5_AOI	315.60	3.82	319.42	4.89	3885.00	308.98	319.10		319.13	0.000482	0.83	4884.62	1118.63	0.12	69.15
Yukon River	Reach Lower	19430	0p5-CC-LC_AOI	316.39	4.28	320.66	5.59	5051.00	308.98	320.31		320.34	0.000455	0.88	5962.42	1133.87	0.12	66.09
Yukon River	Reach Lower	19286	5_AOI	314.16	3.17	317.33	3.74	2340.00	309.53	317.06		317.09	0.000644	0.79	2893.36	751.67	0.13	81.23
Yukon River	Reach Lower	19286	1_AOI	314.95	3.76	318.71	4.49	3370.00	309.53	318.40		318.44	0.000677	0.92	3590.99	861.58	0.14	79.29
Yukon River	Reach Lower	19286	0p5_AOI	315.35	3.99	319.33	4.88	3885.00	309.53	319.00		319.05	0.000667	0.96	4026.93	1031.38	0.14	78.44
Yukon River	Reach Lower	19286	0p5-CC-LC_AOI	316.22	4.36	320.58	5.73	5051.00	309.53	320.21		320.26	0.000611	1.03	5131.80	1108.68	0.14	75.83
Yukon River	Reach Lower	19158	5_AOI	313.90	3.37	317.26	3.73	2340.00	307.73	316.98		317.01	0.000548	0.73	3052.00	767.25	0.12	65.21
Yukon River	Reach Lower	19158	1_AOI	314.75	3.90	318.64	4.57	3370.00	307.73	318.31		318.35	0.000555	0.84	3819.68	811.57	0.13	64.08
Yukon River	Reach Lower	19158	0p5_AOI	315.16	4.10	319.26	4.97	3885.00	307.73	318.92		318.96	0.000568	0.90	4248.53	944.31	0.13	64.92
Yukon River	Reach Lower	19158	0p5-CC-LC_AOI	316.12	4.39	320.51	5.91	5051.00	307.73	320.14		320.18	0.000518	0.96	5480.67	1176.14	0.13	63.84
Yukon River	Reach Lower	19070	5_AOI	313.77	3.44	317.21	3.33	2340.00	307.30	316.92		316.95	0.000548	0.68	3102.64	819.60	0.12	48.49
Yukon River	Reach Lower	19070	1_AOI	314.69	3.89	318.58	4.22	3370.00	307.30	318.26		318.29	0.000503	0.76	4001.17	844.92	0.12	48.44
Yukon River	Reach Lower	19070	0p5_AOI	315.13	4.07	319.20	4.66	3885.00	307.30	318.86		318.90	0.000497	0.80	4456.10	1038.04	0.12	49.20
Yukon River	Reach Lower	19070	0p5-CC-LC_AOI	316.15	4.30	320.45	5.67	5051.00	307.30	320.09		320.13	0.000430	0.85	5780.89	1180.51	0.11	48.89
Yukon River	Reach Lower	18924	5_AOI	313.63	3.51	317.14	3.15	2340.00	307.60	316.84		316.87	0.000474	0.61	3377.56	900.50	0.11	39.57
Yukon River	Reach Lower	18924	1_AOI	314.67	3.85	318.52	4.16	3370.00	307.60	318.19		318.22	0.000406	0.67	4456.21	935.99	0.11	40.77
Yukon River	Reach Lower	18924	0p5_AOI	315.14	4.00	319.14	4.63	3885.00	307.60	318.80		318.83	0.000383	0.70	4975.72	1060.76	0.10	41.00
Yukon River	Reach Lower	18924	0p5-CC-LC_AOI	316.23	4.15	320.38	5.71	5051.00	307.60	320.03		320.07	0.000336	0.76	6280.91	1120.96	0.10	42.05
Yukon River	Reach Lower	18810	5_AOI	313.59	3.49	317.08	3.40	2340.00	307.08	316.79		316.81	0.000448	0.62	3530.17	945.90	0.11	40.00
Yukon River	Reach Lower	18810	1_AOI	314.72	3.74	318.46	4.26	3370.00	307.08	318.15		318.17	0.000370	0.65	4746.35	1000.94	0.10	39.56
Yukon River	Reach Lower	18810	0p5_AOI	315.23	3.85	319.08	4.75	3885.00	307.08	318.76		318.78	0.000341	0.68	5312.25	1020.05	0.10	39.66
Yukon River	Reach Lower	18810	0p5-CC-LC_AOI	316.36	3.97	320.33	5.88	5051.00	307.08	320.00		320.03	0.000296	0.72	6537.36	1035.08	0.10	40.53
Yukon River	Reach Lower	18673	5_AOI	313.57	3.45	317.02	3.71	2340.00	307.19	316.73		316.75	0.000475	0.68	3341.43	863.90	0.11	41.83
Yukon River	Reach Lower	18673	1_AOI	314.78	3.62	318.40	4.68	3370.00	307.19	318.10		318.13	0.000399	0.72	4525.32	930.72	0.11	41.58
Yukon River	Reach Lower	18673	0p5_AOI	315.31	3.71	319.02	5.11	3885.00	307.19	318.71		318.74	0.000369	0.74	5065.90	941.53	0.10	41.03
Yukon River	Reach Lower	18673	0p5-CC-LC_AOI	316.50	3.78	320.27	6.26	5051.00	307.19	319.96		319.99	0.000319	0.78	6219.68	955.40	0.10	41.32
Yukon River	Reach Lower	18557	5_AOI	313.52	3.43	316.95	3.84	2340.00	306.52	316.66		316.69	0.000561	0.78	2986.83	761.63	0.13	50.28
Yukon River	Reach Lower	18557	1_AOI	314.79	3.55	318.34	4.94	3370.00	306.52	318.04		318.08	0.000475	0.84	4033.62	821.91	0.12	50.24
Yukon River	Reach Lower	18557	0p5_AOI	315.34	3.62	318.96	5.47	3885.00	306.52	318.66		318.69	0.000457	0.87	4546.41	915.52	0.12	50.70
Yukon River	Reach Lower	18557	0p5-CC-LC_AOI	316.56	3.66	320.21	6.67	5051.00	306.52	319.91		319.95	0.000390	0.91	5687.89	932.64	0.11	49.84
Yukon River	Reach Lower	18276	5_AOI	313.30	3.48	316.78	4.21	2340.00	307.06	316.49		316.53	0.000541	0.80	2716.27	576.10	0.12	52.23
Yukon River	Reach Lower	18276	1_AOI	314.61	3.57	318.18	5.37	3370.00	307.06	317.88		317.93	0.000503	0.91	3518.52	637.39	0.12	54.06
Yukon River	Reach Lower	18276	0p5_AOI	315.18	3.63	318.80	5.92	3885.00	307.06	318.50		318.55	0.000489	0.95	3921.49	753.96	0.12	54.38
Yukon River	Reach Lower	18276	0p5-CC-LC_AOI	316.43	3.64	320.07	7.07	5051.00	307.06	319.77		319.82	0.000450	1.02	4917.25	805.64	0.12	54.73
Yukon River	Reach Lower	17613	5_AOI	313.29	3.24	316.53	4.73	2340.00	307.89	316.26		316.28	0.000259	0.62	3561.16	697.21	0.09	40.77
Yukon River	Reach Lower	17613	1_AOI	314.56	3.39	317.95	5.60	3370.00	307.89	317.66		317.69	0.000254	0.70	4512.76	729.83	0.09	40.57
Yukon River	Reach Lower	17613	0p5_AOI	315.11	3.47	318.58	5.81	3885.00	307.89	318.29		318.32	0.000251	0.74	4948.20	754.53	0.10	40.73
Yukon River	Reach Lower	17613	0p5-CC-LC_AOI	316.33	3.53	319.86	6.94	5051.00	307.89	319.57		319.60	0.000242	0.80	5907.69	775.68	0.10	41.59
Yukon River	Reach Lower	16554	5_AOI	313.00	3.18	316.18	4.85	2340.00	305.16	315.91		315.95	0.000396	0.80	2930.45	604.34	0.12	100.00
Yukon River	Reach Lower	16554	1_AOI	314.18	3.42	317.60	5.96	3370.00	305.16	317.31		317.35	0.000407	0.92	3649.06	637.09	0.12	100.00
Yukon River	Reach Lower	16554	0p5_AOI	314.67	3.56	318.23	6.42	3885.00	305.16	317.93		317.98	0.000419	0.98	3968.17	644.15	0.12	99.92
Yukon River	Reach Lower	16554	0p5-CC-LC_AOI	315.80	3.72	319.52	7.52	5051.00	305.16	319.21		319.27	0.000418	1.08	4725.22	699.05	0.13	99.69
Yukon River	Reach Lower	15716	5_AOI	312.47	3.50	315.97	5.13	2340.00	301.44	315.68		315.72	0.000189	0.98	2712.54	621.35	0.14	92.24
Yukon River	Reach Lower	15716	1_AOI	313.66	3.72	317.38	6.26	3370.00	301.44	317.07		317.13	0.000190	1.10	3499.49	636.35	0.14	89.28
Yukon River	Reach Lower	15716	0p5_AOI	314.15	3.86	318.01	6.72	3885.00	301.44	317.68		317.75	0.000195	1.17	3837.43	642.76	0.14	88.12
Yukon River	Reach Lower	15716	0p5-CC-LC_AOI	315.27	4.04	319.30	7.77	5051.00	301.44	318.96		319.04	0.000196	1.27	4598.69	656.62	0.15	86.28
Yukon River	Reach Lower	14748	5_AOI	312.40	3.38	315.79	5.15	2340.00	301.44	315.50		315.55	0.000177	0.96	2967.06	713.31	0.13	86.86
Yukon River	Reach Lower	14748	1_AOI	313.59	3.61	317.21	6.28	3370.00	301.44	316.90		316.95	0.000169	1.07	3891.38	732.45	0.14	82.80
Yukon River	Reach Lower	14748	0p5_AOI	314.08	3.74	317.83	6.75	3885.00	301.44	317.51		317.57	0.000169	1.12	4292.52	738.96	0.14	81.28
Yukon River	Reach Lower	14748	0p5-CC-LC_AOI	315.20	3.93	319.13	7.81	5051.00	301.44	318.80		318.86	0.000163	1.21	5177.01	749.82	0.14	78.91
Yukon River	Reach Lower	13824	5_AOI	312.38	3.27	315.65	5.43	2340.00	305.50	315.37		315.39	0.000148	0.52	4475.48	825.02	0.07	74.10
Yukon River	Reach Lower	13824	1_AOI	313.55	3.51	317.07	6.57	3370.00	305.50	316.77		316.79	0.000160	0.61	5513.05	855.66	0.08	74.05
Yukon River	Reach Lower	13824	0p5_AOI	314.05	3.64	317.69	7.04	3885.00	305.50	317.38		317.40	0.000167	0.65	5967.58	866.15	0.08	73.82
Yukon River	Reach Lower	13824	0p5-CC-LC_AOI	315.17	3.82	318.99	8.07	5051.00	305.50	318.67		318.70	0.000174	0.73	7000.65	907.45	0.08	73.64
Yukon River	Reach Lower	11547	5_AOI	311.09	3.97	315.05	3.47	2340.00	299.91	314.72		314.76	0.000923	0.96	2527.28	741.15	0.16	91.77
Yukon River	Reach Lower	11547	1_AOI	312.42	4.07	316.49	4.78	3370.00	299.91	316.15		316.20	0.000643	0.99	3540.89	758.53	0.14	91.21
Yukon River	Reach Lower	11547	0p5_AOI	312.96	4.15	317.11	5.30	3885.00	299.91	316.76		316.81	0.000596	1.02	3957.21	763.85	0.14	90.91
Yukon River	Reach Lower	11547	0p5-CC-LC_AOI	314.23	4.20	318.43	6.56	5051.00	299.91	318.07		318.13	0.000491	1.07	4934.81	772.87	0.13	90.53
Yukon River	Reach Lower	9991	5_AOI	309.11	4.82	313.93	4.30	2340.00	299.34	313.52		313.62	0.000471	1.39	1686.13	392.28	0.21	100.00
Yukon River	Reach Lower	9991	1_AOI	310.86	4.81	315.67	4.96	3370.00	299.34	315.27		315.36	0.000364	1.32	2546.99	513.75	0.19	100.00
Yukon River	Reach Lower	9991	0p5_AOI	311.55	4.82	316.37	5.62	3885.00	299.34	315.96		316.06	0.000318	1.34	2902.44	516.54	0.18	100.00
Yukon River	Reach Lower	9991	0p5-CC-LC_AOI	313.13	4.70	317.83	7.15	5051.00	299.34	317.44		317.53	0.000242	1.36	3722.92	521.68	0.16	100.00
Yukon River	Reach Lower	9750	5_AOI	309.18	4.64	313.81	4.08	2340.00	299.25	313.43		313.51	0.000431	1.28	1824.40	446.92	0.20	100.00
Yukon River	Reach Lower	9750	1_AOI	310.89	4.70	315.59	5.25	3370.00	299.25	315.19		315.27	0.000307	1.25	2691.65	513.02	0.17	100.00
Yukon River	Reach Lower	9750	0p5_AOI	311.56	4.73	316.30	5.89	3885.00	299.25	315.90		315.98	0.000278	1.28	3038.35	515.68	0.17	100.00
Yukon River	Reach Lower	9750	0p5-CC-LC_AOI	313.13	4.64	317.78	7.41	5051.00	299.25	317.39		317.48	0.000220	1.31	3855.45	523.25	0.15	99.99
Yukon River	Reach Lower	9500	5_AOI	309.30	4.39	313.69	4.25	2340.00	299.16	313.32		313.40	0.000403	1.27	1836.90	431.99	0.20	100.00
Yukon River	Reach Lower	9500	1_AOI	310.90	4.59	315.49	5.39	3370.00	299.16	315.11		315.19	0.000313	1.30	2593.11	480.66	0.18	100.00
Yukon River	Reach Lower	9500	0p5_AOI	311.56	4.65	316.21	6.01	3885.00	299.16	315.82		315.91	0.000291	1.34	2907.73	484.17	0.17	100.00
Yukon River	Reach Lower	9500	0p5-CC-LC_AOI	313.09	4.62	317.71	7.47	5051.00	299.16	317.32		317.42	0.000239	1.38	3657.84	492.11	0.16	100.00
Yukon River	Reach Lower	9250	5_AOI	309.36	4.22	313.59	4.57	2340.00	299.07	313.23		313.31	0.000343	1.23	1897.46	415.23	0.18	100.00
Yukon River	Reach Lower	9250	1_AOI	310.82	4.59	315.41	5.82	3370.00	299.07	315.03		315.12	0.000293	1.34	2518.50	432.92	0.18	100.00
Yukon River	Reach Lower	9250	0p5_AOI	311.45	4.68	316.13	6.39	3885.00	299.07	315.74		315.84	0.000282	1.39	2794.08	437.38	0.18	100.00
Yukon River	Reach Lower	9250	0p5-CC-LC_AOI	312.93	4.71	317.64	7.77	5051.00	299.07	317.24		317.35	0.000252	1.47	3446.24	452.97	0.17	99.99
Yukon River	Reach Lower	9000	5_AOI	309.16	4.33	313.50	4.63	2340.00	298.98	313.13		313.22	0.000377	1.30	1793.67	387.18	0.19	100.00
Yukon River	Reach Lower	9000	1_AOI	310.52	4.82	315.33	5.66	3370.00	298.98	314.93		315.04	0.000353	1.44	2336.12	412.41	0.19	100.00
Yukon River	Reach Lower	9000	0p5_AOI	311.14	4.91	316.06	6.24	3885.00	298.98	315.65		315.76	0.000335	1.50	2596.12	416.02	0.19	100.00
Yukon River	Reach Lower	9000	0p5-CC-LC_AOI	312.60	4.98	317.58	7.60	5051.00	298.98	317.16		317.28	0.000296	1.58	3206.31	423.60	0.18	100.00
Yukon River	Reach Lower	8750	5_AOI	307.83	5.55	313.37	4.04	2340.00	298.89	312.91		313.07	0.000871	1.81	1294.26	320.71	0.29	100.00
Yukon River	Reach Lower	8750	1_AOI	309.20	6.02	315.22	5.15	3370.00	298.89	314.72		314.91	0.000717	1.93	1745.76	339.39	0.27	100.00
Yukon River	Reach Lower	8750	0p5_AOI	309.83	6.12	315.95	5.66	3885.00	298.89	315.44		315.64	0.000668	1.98	1960.53	348.04	0.27	100.00
Yukon River	Reach Lower	8750	0p5-CC-LC_AOI	311.26	6.22	317.49	6.67	5051.00	298.89	316.96		317.17	0.000586	2.04	2485.56	375.82	0.25	99.98
Yukon River	Reach Lower	8500	5_AOI	303.47	8.08	311.55	3.07	2340.00	298.79	310.88	310.88	312.40	0.011488	5.47	427.69	139.42	1.00	100.00
Yukon River	Reach Lower	8500	1_AOI	304.46	8.86	313.32	3.46	3370.00	298.79	312.58	312.58	314.30	0.011030	5.81	580.33	167.79	1.00	100.00
Yukon River	Reach Lower	8500	0p5_AOI	304.86	9.13	313.99	3.64	3885.00	298.79	313.22	313.22	315.04	0.010911	5.98	649.85	178.40	1.00	100.00
Yukon River	Reach Lower	8500	0p5-CC-LC_AOI	305.60	9.71	315.30	4.24	5051.00	298.79	314.49	314.49	316.60	0.010335	6.44	784.48	184.88	1.00	100.00
Yukon River	Reach Lower	8250	5_AOI	308.31	1.25	309.56	4.15	2340.00	298.70	309.45	304.53	309.56	0.000420	1.44	1623.57	390.80	0.23	100.00
Yukon River	Reach Lower	8250	1_AOI	309.88	1.25	311.13	5.37	3370.00	298.70	311.02	305.51	311.14	0.000318	1.49	2264.63	421.49	0.21	100.00
Yukon River	Reach Lower	8250	0p5_AOI	310.36	1.25	311.61	5.77	3885.00	298.70	311.50	305.91	311.63	0.000323	1.57	2467.54	427.29	0.21	100.00
Yukon River	Reach Lower	8250	0p5-CC-LC_AOI	311.31	1.25	312.56	6.62	5051.00	298.70	312.45	306.64	312.61	0.000335	1.76	2877.86	435.00	0.22	100.00
Yukon River	Reach Lower	7786	5_AOI	308.08	1.25	309.33	4.11	2340.00	298.53	309.23		309.34	0.000555	1.46	1601.80	390.20	0.23	100.00
Yukon River	Reach Lower	7786	1_AOI	309.70	1.25	310.95	4.25	3370.00	298.53	310.84		310.95	0.000527	1.46	2315.93	545.56	0.23	100.00
Yukon River	Reach Lower	7786	0p5_AOI	310.18	1.25	311.43	4.70	3885.00	298.53	311.33		311.44	0.000492	1.50	2582.14	549.73	0.22	100.00
Yukon River	Reach Lower	7786	0p5-CC-LC_AOI	311.14	1.25	312.39	5.55	5051.00	298.53	312.29		312.42	0.000458	1.62	3116.06	561.77	0.22	100.00
Yukon River	Reach Lower	5024	5_AOI	306.73	1.25	307.98	4.84	2340.00	296.45	307.87		307.98	0.000439	1.44	1619.72	334.89	0.21	100.00
Yukon River	Reach Lower	5024	1_AOI	308.24	1.25	309.49	4.50	3370.00	296.45	309.38		309.50	0.000522	1.50	2241.47	498.13	0.23	100.00
Yukon River	Reach Lower	5024	0p5_AOI	308.81	1.25	310.06	4.80	3885.00	296.45	309.95		310.07	0.000499	1.53	2533.26	528.02	0.22	100.00
Yukon River	Reach Lower	5024	0p5-CC-LC_AOI	309.84	1.25	311.09	5.34	5051.00	296.45	310.98		311.12	0.000487	1.63	3104.53	581.49	0.22	100.00
Yukon River	Reach Lower	2627	5_AOI	305.76	1.25	307.01	4.73	2340.00	295.57	306.90	301.66	307.01	0.000368	1.47	1594.91	337.10	0.22	100.00
Yukon River	Reach Lower	2627	1_AOI	307.18	1.25	308.43	5.43	3370.00	295.57	308.32	302.66	308.45	0.000369	1.61	2091.88	385.09	0.22	100.00
Yukon River	Reach Lower	2627	0p5_AOI	307.76	1.25	309.01	5.74	3885.00	295.57	308.91	303.08	309.05	0.000368	1.67	2326.53	405.37	0.22	100.00
Yukon River	Reach Lower	2627	0p5-CC-LC_AOI	308.79	1.25	310.04	6.63	5051.00	295.57	309.93	303.86	310.10	0.000368	1.84	2746.41	413.95	0.23	100.00
Klondike River	Reach 1	2946	Bridge															
Klondike River	Reach 1	2919	5_AOI				3.35	320.00	317.23	321.47		321.60	0.000212	1.60	200.69	61.77	0.28	99.93

HEC-RAS Plan: YR_AOI_Design_Jam_AEP Locations: User Defined (Continued)

River	Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
				(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Klondike River	Reach 1	2919	1_AOI				3.66	403.00	317.23	321.77		321.95	0.000251	1.84	219.60	62.97	0.31	99.84
Klondike River	Reach 1	2919	0p5_AOI				3.97	433.00	317.23	322.09		322.26	0.000220	1.82	239.61	64.55	0.29	99.69
Klondike River	Reach 1	2919	0p5-CC-LC_AOI				5.08	606.20	317.23	323.20		323.40	0.000186	1.97	314.62	70.67	0.28	98.74
Klondike River	Reach 1	2850	5_AOI				2.57	320.00	318.15	321.36		321.56	0.000542	1.96	163.15	63.57	0.39	100.00
Klondike River	Reach 1	2850	1_AOI				2.85	403.00	318.15	321.65		321.90	0.000608	2.22	181.36	64.83	0.42	99.98
Klondike River	Reach 1	2850	0p5_AOI				3.18	433.00	318.15	321.98		322.22	0.000482	2.14	203.38	66.21	0.38	99.92
Klondike River	Reach 1	2850	0p5-CC-LC_AOI				4.32	606.20	318.15	323.12		323.37	0.000337	2.19	281.33	113.73	0.34	99.30
Klondike River	Reach 1	2800	5_AOI				2.23	320.00	317.92	321.34		321.53	0.000640	1.95	186.89	110.83	0.42	97.47
Klondike River	Reach 1	2800	1_AOI				2.45	403.00	317.92	321.63		321.86	0.000666	2.14	220.13	116.72	0.44	96.42
Klondike River	Reach 1	2800	0p5_AOI				2.76	433.00	317.92	321.99		322.18	0.000483	1.98	264.45	135.60	0.38	95.32
Klondike River	Reach 1	2800	0p5-CC-LC_AOI				3.94	606.20	317.92	323.17		323.32	0.000262	1.83	434.43	175.66	0.30	90.06
Klondike River	Reach 1	2770	5_AOI				2.07	320.00	317.84	321.29		321.50	0.000790	2.06	165.57	97.05	0.46	98.99
Klondike River	Reach 1	2770	1_AOI				2.31	403.00	317.84	321.58		321.83	0.000822	2.26	193.89	100.72	0.47	98.32
Klondike River	Reach 1	2770	0p5_AOI				2.59	433.00	317.84	321.95		322.16	0.000588	2.07	232.30	114.75	0.41	97.53
Klondike River	Reach 1	2770	0p5-CC-LC_AOI				3.77	606.20	317.84	323.14		323.31	0.000306	1.91	375.99	155.76	0.31	94.17
Klondike River	Reach 1	2750	5_AOI				1.91	320.00	318.03	321.25		321.48	0.000936	2.13	150.18	78.48	0.49	100.00
Klondike River	Reach 1	2750	1_AOI				2.16	403.00	318.03	321.53		321.81	0.000961	2.34	172.53	80.01	0.51	100.00
Klondike River	Reach 1	2750	0p5_AOI				2.49	433.00	318.03	321.91		322.15	0.000660	2.13	203.58	86.12	0.43	99.99
Klondike River	Reach 1	2750	0p5-CC-LC_AOI				3.68	606.20	318.03	323.10		323.31	0.000344	1.99	309.96	135.60	0.33	98.85
Klondike River	Reach 1	2700	5_AOI				1.68	320.00	318.39	321.21		321.43	0.001067	2.09	152.81	90.77	0.52	100.00
Klondike River	Reach 1	2700	1_AOI				1.95	403.00	318.39	321.50		321.76	0.001010	2.25	179.52	94.37	0.51	100.00
Klondike River	Reach 1	2700	0p5_AOI				2.35	433.00	318.39	321.90		322.11	0.000623	2.00	216.96	98.91	0.42	99.96
Klondike River	Reach 1	2700	0p5-CC-LC_AOI				3.56	606.20	318.39	323.11		323.28	0.000304	1.84	332.27	154.53	0.31	99.50
Klondike River	Reach 1	2666	5_AOI				1.53	320.00	318.64	321.11		321.39	0.001471	2.31	138.65	90.38	0.60	100.00
Klondike River	Reach 1	2666	1_AOI				1.81	403.00	318.64	321.41		321.71	0.001306	2.43	165.86	91.40	0.58	100.00
Klondike River	Reach 1	2666	0p5_AOI				2.24	433.00	318.64	321.86		322.08	0.000733	2.09	206.92	93.77	0.45	99.99
Klondike River	Reach 1	2666	0p5-CC-LC_AOI				3.47	606.20	318.64	323.09		323.27	0.000332	1.89	323.69	164.38	0.32	99.63
Klondike River	Reach 1	2650	5_AOI				1.53	320.00	318.67	321.06		321.36	0.001599	2.41	133.29	94.48	0.62	99.93
Klondike River	Reach 1	2650	1_AOI				1.83	403.00	318.67	321.37		321.69	0.001388	2.52	160.69	100.26	0.60	99.70
Klondike River	Reach 1	2650	0p5_AOI				2.30	433.00	318.67	321.83		322.07	0.000743	2.15	203.58	117.41	0.45	99.22
Klondike River	Reach 1	2650	0p5-CC-LC_AOI				3.54	606.20	318.67	323.08		323.26	0.000339	1.93	320.78	218.19	0.33	98.16
Klondike River	Reach 1	2600	5_AOI				1.43	320.00	318.85	321.00		321.27	0.001604	2.30	139.28	129.96	0.62	99.97
Klondike River	Reach 1	2600	1_AOI				1.75	403.00	318.85	321.33		321.61	0.001279	2.35	171.87	142.04	0.57	99.87
Klondike River	Reach 1	2600	0p5_AOI				2.24	433.00	318.85	321.83		322.02	0.000638	1.96	221.89	163.33	0.42	99.70
Klondike River	Reach 1	2600	0p5-CC-LC_AOI				3.50	606.20	318.85	323.08		323.24	0.000279	1.75	351.92	275.00	0.30	98.95
Klondike River	Reach 1	2563	5_AOI				1.30	320.00	319.01	320.90		321.20	0.002030	2.43	131.79	102.89	0.68	100.00
Klondike River	Reach 1	2563	1_AOI				1.65	403.00	319.01	321.27		321.56	0.001405	2.37	170.09	130.42	0.59	100.00
Klondike River	Reach 1	2563	0p5_AOI				2.18	433.00	319.01	321.81		322.00	0.000639	1.92	225.41	147.94	0.42	99.97
Klondike River	Reach 1	2563	0p5-CC-LC_AOI				3.45	606.20	319.01	323.08		323.22	0.000269	1.69	360.90	269.01	0.29	99.56
Klondike River	Reach 1	2550	5_AOI				1.32	320.00	318.95	320.88		321.17	0.001973	2.42	132.23	127.69	0.67	100.00
Klondike River	Reach 1	2550	1_AOI				1.70	403.00	318.95	321.26		321.54	0.001333	2.36	171.18	155.95	0.58	99.94
Klondike River	Reach 1	2550	0p5_AOI				2.24	433.00	318.95	321.80		321.99	0.000608	1.92	227.09	179.92	0.41	99.71
Klondike River	Reach 1	2550	0p5-CC-LC_AOI				3.52	606.20	318.95	323.08		323.22	0.000262	1.70	362.11	308.63	0.29	98.93
Klondike River	Reach 1	2500	5_AOI				1.33	320.00	318.86	320.78		321.08	0.001904	2.40	134.43	105.02	0.66	99.30
Klondike River	Reach 1	2500	1_AOI				1.76	403.00	318.86	321.21		321.47	0.001175	2.27	179.60	121.80	0.55	98.62
Klondike River	Reach 1	2500	0p5_AOI				2.34	433.00	318.86	321.79		321.95	0.000522	1.83	241.11	177.08	0.38	97.83
Klondike River	Reach 1	2500	0p5-CC-LC_AOI				3.63	606.20	318.86	323.08		323.20	0.000227	1.62	394.49	267.47	0.27	95.85
Klondike River	Reach 1	2464	5_AOI				1.26	328.00	318.82	320.69		321.00	0.002181	2.47	133.03	111.31	0.70	100.00
Klondike River	Reach 1	2464	1_AOI				1.72	413.80	318.82	321.17		321.43	0.001196	2.25	184.63	124.28	0.55	99.93
Klondike River	Reach 1	2464	0p5_AOI				2.32	445.00	318.82	321.77		321.93	0.000505	1.78	252.20	178.17	0.37	99.57
Klondike River	Reach 1	2464	0p5-CC-LC_AOI				3.62	623.00	318.82	323.07		323.19	0.000212	1.55	438.16	336.32	0.26	96.81
Klondike River	Reach 1	2400	5_AOI				1.14	328.00	318.95	320.55		320.83	0.002306	2.33	141.18	126.37	0.70	99.99
Klondike River	Reach 1	2400	1_AOI				1.73	413.80	318.95	321.15		321.33	0.000965	1.92	222.28	164.46	0.47	99.56
Klondike River	Reach 1	2400	0p5_AOI				2.36	445.00	318.95	321.78		321.89	0.000379	1.45	367.42	344.49	0.30	95.97
Klondike River	Reach 1	2400	0p5-CC-LC_AOI				3.69	623.00	318.95	323.11		323.16	0.000127	1.11	839.32	429.43	0.18	81.91
Klondike River	Reach 1	2369	5_AOI				0.89	328.00	318.74	320.39	320.30	320.73	0.004226	2.59	127.58	151.29	0.88	99.93
Klondike River	Reach 1	2369	1_AOI				1.64	413.80	318.74	321.14		321.29	0.000912	1.74	250.15	183.06	0.43	98.79
Klondike River	Reach 1	2369	0p5_AOI				2.29	445.00	318.74	321.79		321.87	0.000331	1.30	423.22	358.57	0.27	95.09
Klondike River	Reach 1	2369	0p5-CC-LC_AOI				3.61	623.00	318.74	323.11		323.16	0.000107	0.99	921.43	464.44	0.17	81.94
Klondike River	Reach 1	2350	5_AOI				1.05	328.00	318.43	320.41		320.64	0.002315	2.13	160.15	160.37	0.66	98.83
Klondike River	Reach 1	2350	1_AOI				1.70	413.80	318.43	321.16		321.27	0.000619	1.49	300.46	227.40	0.37	97.55
Klondike River	Reach 1	2350	0p5_AOI				2.34	445.00	318.43	321.80		321.86	0.000233	1.12	499.86	396.96	0.23	93.51
Klondike River	Reach 1	2350	0p5-CC-LC_AOI				3.66	623.00	318.43	323.12		323.15	0.000081	0.88	1007.70	478.74	0.15	81.93
Klondike River	Reach 1	2300	5_AOI				1.06	328.00	317.71	320.35		320.51	0.001804	1.78	190.72	187.27	0.55	98.75
Klondike River	Reach 1	2300	1_AOI				1.86	413.80	317.71	321.15		321.23	0.000420	1.27	355.51	271.01	0.30	97.78
Klondike River	Reach 1	2300	0p5_AOI				2.51	445.00	317.71	321.80		321.84	0.000164	0.97	573.66	403.29	0.20	93.74
Klondike River	Reach 1	2300	0p5-CC-LC_AOI				3.83	623.00	317.71	323.12		323.15	0.000061	0.79	1108.79	506.87	0.13	83.04
Klondike River	Reach 1	2254	5_AOI				1.04	328.00	317.67	319.85	319.85	320.34	0.006159	3.11	109.36	153.30	0.97	99.31
Klondike River	Reach 1	2254	1_AOI				1.72	413.80	317.67	321.11		321.21	0.000633	1.40	353.63	390.94	0.34	95.34
Klondike River	Reach 1	2254	0p5_AOI				2.39	445.00	317.67	321.79		321.83	0.000202	1.00	599.67	450.36	0.21	88.18
Klondike River	Reach 1	2254	0p5-CC-LC_AOI				3.72	623.00	317.67	323.12		323.14	0.000070	0.80	1135.22	560.25	0.13	78.37
Klondike River	Reach 1	2200	5_AOI				1.07	328.00	317.45	319.64	319.54	320.05	0.003592	2.85	115.67	110.16	0.88	99.95
Klondike River	Reach 1	2200	1_AOI				1.72	413.80	317.45	321.10		321.18	0.000374	1.22	418.40	433.12	0.30	95.39
Klondike River	Reach 1	2200	0p5_AOI				2.41	445.00	317.45	321.79		321.82	0.000126	0.89	692.68	493.83	0.18	89.99
Klondike River	Reach 1	2200	0p5-CC-LC_AOI				3.74	623.00	317.45	323.12		323.14	0.000047	0.73	1295.88	675.91	0.12	81.69
Klondike River	Reach 1	2168	5_AOI				1.14	328.00	317.62	319.66		319.92	0.002039	2.23	148.74	150.13	0.67	99.75
Klondike River	Reach 1	2168	1_AOI				1.76	413.80	317.62	321.11		321.16	0.000205	0.95	540.64	471.72	0.23	92.82
Klondike River	Reach 1	2168	0p5_AOI				2.44	445.00	317.62	321.79		321.82	0.000073	0.70	835.03	494.95	0.14	88.73
Klondike River	Reach 1	2168	0p5-CC-LC_AOI				3.77	623.00	317.62	323.12		323.14	0.000030	0.60	1432.35	612.27	0.10	83.99
Klondike River	Reach 1	2054	5_AOI				1.44	328.00	317.47	319.69		319.77	0.000479	1.26	274.59	225.88	0.34	91.62
Klondike River	Reach 1	2054	1_AOI				2.33	413.80	317.47	321.12		321.14	0.000061	0.62	736.63	399.40	0.13	78.63
Klondike River	Reach 1	2054	0p5_AOI				3.01	445.00	317.47	321.80		321.81	0.000028	0.50	1004.90	432.69	0.09	75.24
Klondike River	Reach 1	2054	0p5-CC-LC_AOI				4.33	623.00	317.47	323.12		323.13	0.000014	0.46	1569.46	564.59	0.07	71.06
Klondike River	Reach 1	1884	5_AOI				2.22	328.00	315.75	319.55		319.68	0.000477	1.68	224.02	200.72	0.36	93.29
Klondike River	Reach 1	1884	1_AOI				3.78	413.80	315.75	321.10		321.13	0.000059	0.84	677.24	359.31	0.14	63.14
Klondike River	Reach 1	1884	0p5_AOI				4.46	445.00	315.75	321.79		321.80	0.000029	0.66	917.62	387.32	0.10	54.66
Klondike River	Reach 1	1884	0p5-CC-LC_AOI				5.79	623.00	315.75	323.12		323.13	0.000017	0.59	1426.82	525.47	0.08	45.28
Klondike River	Reach 1	1760	5_AOI				2.76	328.00	315.68	319.51		319.63	0.000360	1.67	248.86	200.55	0.32	82.87
Klondike River	Reach 1	1760	1_AOI				4.33	413.80	315.68	321.10		321.12	0.000056	0.89	636.28	269.20	0.14	55.16
Klondike River	Reach 1	1760	0p5_AOI				5.01	445.00	315.68	321.78		321.80	0.000031	0.74	824.59	306.53	0.10	49.24
Klondike River	Reach 1	1760	0p5-CC-LC_AOI				6.35	623.00	315.68	323.11		323.13	0.000020	0.68	1312.98	488.75	0.09	41.02
Klondike River	Reach 1	1639	5_AOI				2.80	328.00	314.98	319.49	317.49	319.59	0.000247	1.40	250.40	139.03	0.27	97.69
Klondike River	Reach 1	1639	1_AOI				4.37	413.80	314.98	321.06	317.99	321.11	0.000076	1.05	471.09	218.15	0.16	90.25
Klondike River	Reach 1	1639	0p5_AOI				5.06	445.00	314.98	321.75	318.08	321.79	0.000051	0.94	575.23	238.23	0.13	87.52
Klondike River	Reach 1	1639	0p5-CC-LC_AOI				6.39	623.00	314.98	323.08	318.49	323.12	0.000038	0.95	931.05	435.37	0.12	79.86
Klondike River	Reach 1	1548	5_AOI				3.19	328.00	314.79	319.45	317.38	319.56	0.000246	1.52	216.25	94.41	0.27	100.00
Klondike River	Reach 1	1548	1_AOI				4.73	413.80	314.79	321.02	317.65	321.10	0.000102	1.27	331.74	174.48	0.19	99.36
Klondike River	Reach 1	1548	0p5_AOI				5.43	445.00	314.79	321.72	317.77	321.79	0.000074	1.18	394.00	226.20	0.16	98.69
Klondike River	Reach 1	1548	0p5-CC-LC_AOI				6.77	623.00	314.79	323.05	318.24	323.12	0.000054	1.17	690.55	401.78	0.14	86.93
Klondike River	Reach 1	1460	5_AOI				2.63	328.00	316.31	319.45	317.89	319.53	0.000220	1.27	300.40	237.40	0.25	93.82
Klondike River	Reach 1	1460	1_AOI				4.22	413.80	316.31	321.05	318.08	321.08	0.000058	0.90	570.97	310.33	0.14	84.43
Klondike River	Reach 1	1460	0p5_AOI				4.92	445.00	316.31	321.74	318.15	321.77	0.000038	0.80	700.83	328.08	0.12	81.17
Klondike River	Reach 1	1460	0p5-CC-LC_AOI				6.25	623.00	316.31	323.07	318.49	323.10	0.000029	0.83	970.16	402.65	0.11	76.08
Klondike River	Reach 1	1371	5_AOI				2.49	328.00	315.74	319.45	317.86	319.50	0.000342	1.03	376.74	215.06	0.21	88.63
Klondike River	Reach 1	1371	1_AOI				4.09	413.80	315.74	321.05	318.02	321.07	0.000077	0.67	755.12	309.66	0.11	75.14
Klondike River	Reach 1	1371	0p5_AOI				4.78	445.00	315.74	321.74	318.08	321.76	0.000049	0.59	938.92	423.75	0.09	71.65
Klondike River	Reach 1	1371	0p5-CC-LC_AOI				6.12	623.00	315.74	323.08	318.38	323.09	0.000033	0.56	1348.58	495.50	0.07	62.90
Klondike River	Reach 1	1226	5_AOI				2.94	328.00	315.18	319.39	317.48	319.45	0.000344	1.14	356.80	215.61	0.21	93.43
Klondike River	Reach 1	1226	1_AOI				4.59	413.80	315.18	321.03	317.71	321.06	0.000093	0.78	745.17	319.15	0.12	79.38

HEC-RAS Plan: YR_AOI_Design_Jam_AEP Locations: User Defined (Continued)

River	Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
				(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Klondike River	Reach 1	1226	0p5_AOI				5.29	445.00	315.18	321.73	317.78	321.75	0.000059	0.68	936.39	408.87	0.09	74.23
Klondike River	Reach 1	1226	0p5-CC-LC_AOI				6.64	623.00	315.18	323.08	318.14	323.09	0.000029	0.56	1587.77	438.72	0.07	53.97
Klondike River	Reach 1	1171	5_AOI				3.19	328.00	314.92	319.39	317.20	319.43	0.000214	0.95	470.85	263.89	0.17	85.83
Klondike River	Reach 1	1171	1_AOI				4.84	413.80	314.92	321.03	317.44	321.05	0.000061	0.66	968.38	367.68	0.10	71.71
Klondike River	Reach 1	1171	0p5_AOI				5.54	445.00	314.92	321.73	317.51	321.75	0.000039	0.58	1203.57	379.03	0.08	66.59
Klondike River	Reach 1	1171	0p5-CC-LC_AOI				6.88	623.00	314.92	323.08	317.89	323.09	0.000025	0.53	1787.47	404.47	0.06	54.50
Klondike River	Reach 1	1060	5_AOI				3.74	328.00	314.65	319.37	316.72	319.40	0.000139	0.85	536.98	305.55	0.14	85.85
Klondike River	Reach 1	1060	1_AOI				5.40	413.80	314.65	321.03	316.92	321.04	0.000044	0.61	1102.77	347.09	0.08	70.77
Klondike River	Reach 1	1060	0p5_AOI				6.10	445.00	314.65	321.73	316.99	321.74	0.000030	0.55	1346.96	349.09	0.07	66.40
Klondike River	Reach 1	1060	0p5-CC-LC_AOI				7.44	623.00	314.65	323.07	317.35	323.08	0.000025	0.57	1840.28	373.26	0.07	60.10
Klondike River	Reach 1	964	5_AOI				3.55	328.00	314.83	319.37	316.49	319.39	0.000086	0.64	684.61	315.84	0.11	87.60
Klondike River	Reach 1	964	1_AOI				5.21	413.80	314.83	321.03	316.71	321.04	0.000029	0.49	1233.63	374.26	0.07	77.08
Klondike River	Reach 1	964	0p5_AOI				5.91	445.00	314.83	321.73	316.78	321.74	0.000021	0.44	1479.50	389.26	0.06	74.18
Klondike River	Reach 1	964	0p5-CC-LC_AOI				7.25	623.00	314.83	323.07	317.15	323.08	0.000017	0.46	2054.45	410.58	0.05	67.53
Klondike River	Reach 1	856	5_AOI				3.54	328.00	314.15	319.37	316.32	319.38	0.000063	0.55	828.11	385.59	0.09	82.14
Klondike River	Reach 1	856	1_AOI				5.20	413.80	314.15	321.03	316.51	321.04	0.000022	0.42	1409.33	436.04	0.06	73.19
Klondike River	Reach 1	856	0p5_AOI				5.90	445.00	314.15	321.73	316.58	321.74	0.000016	0.38	1669.71	452.00	0.05	70.79
Klondike River	Reach 1	856	0p5-CC-LC_AOI				7.24	623.00	314.15	323.07	316.90	323.08	0.000012	0.38	2453.47	486.31	0.05	62.07
Klondike River	Reach 1	746	5_AOI				3.92	328.00	313.89	319.37	316.13	319.38	0.000032	0.42	1069.81	549.71	0.07	85.13
Klondike River	Reach 1	746	1_AOI				5.58	413.80	313.89	321.03	316.27	321.03	0.000012	0.33	1847.17	662.88	0.04	74.68
Klondike River	Reach 1	746	0p5_AOI				6.28	445.00	313.89	321.73	316.31	321.73	0.000009	0.30	2186.32	675.15	0.04	71.71
Klondike River	Reach 1	746	0p5-CC-LC_AOI				7.62	623.00	313.89	323.07	316.55	323.08	0.000006	0.28	3516.65	705.29	0.03	57.36
Klondike River	Reach 1	638	5_AOI				3.96	328.00	313.68	319.37	315.88	319.37	0.000024	0.37	1186.73	696.01	0.06	89.28
Klondike River	Reach 1	638	1_AOI				5.63	413.80	313.68	321.03	316.05	321.03	0.000009	0.29	2125.83	871.41	0.04	77.92
Klondike River	Reach 1	638	0p5_AOI				6.33	445.00	313.68	321.73	316.11	321.73	0.000007	0.26	2534.56	892.59	0.03	74.56
Klondike River	Reach 1	638	0p5-CC-LC_AOI				7.67	623.00	313.68	323.07	316.40	323.08	0.000004	0.23	4444.09	939.66	0.03	55.83

HEC-RAS Plan: YR_Simulated_ShortJam_AEP Locations: User Defined

River	Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
				(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Yukon River	Reach Upper	33084	5_BU				7.59	4872.00	309.51	319.66	314.14	319.79	0.000128	1.67	3198.42	581.62	0.19	87.78
Yukon River	Reach Upper	33084	1_OW_BU				8.93	6136.20	309.51	321.03	314.74	321.16	0.000108	1.72	4040.43	712.49	0.18	84.37
Yukon River	Reach Upper	33084	0p5_BU				9.54	6675.00	309.51	321.64	314.99	321.77	0.000098	1.71	4523.89	810.66	0.18	82.40
Yukon River	Reach Upper	33084	0p5-CC-LC_BU				10.90	8633.00	309.51	323.00	315.72	323.14	0.000094	1.83	5626.39	813.96	0.18	77.99
Yukon River	Reach Upper	32363	5_BU				4.63	4872.00	312.15	319.61		319.68	0.000118	1.17	4174.25	903.65	0.17	100.00
Yukon River	Reach Upper	32363	1_OW_BU				5.89	6136.20	312.15	321.01		321.07	0.000079	1.12	5573.97	1149.85	0.15	99.84
Yukon River	Reach Upper	32363	0p5_BU				6.51	6675.00	312.15	321.63		321.69	0.000067	1.10	6287.95	1160.53	0.14	99.49
Yukon River	Reach Upper	32363	0p5-CC-LC_BU				7.88	8633.00	312.15	323.00		323.06	0.000058	1.16	7929.85	1221.09	0.13	98.51
Yukon River	Reach Upper	31862	5_BU				4.60	4872.00	312.11	319.51		319.61	0.000179	1.42	3642.78	903.25	0.21	88.35
Yukon River	Reach Upper	31862	1_OW_BU				6.03	6136.20	312.11	320.95		321.03	0.000106	1.31	4976.45	1022.00	0.17	85.07
Yukon River	Reach Upper	31862	0p5_BU				6.66	6675.00	312.11	321.57		321.65	0.000087	1.27	5625.44	1046.24	0.16	83.70
Yukon River	Reach Upper	31862	0p5-CC-LC_BU				8.03	8633.00	312.11	322.95		323.03	0.000074	1.32	7075.27	1058.94	0.15	81.18
Yukon River	Reach Upper	31034	5_BU				5.98	4872.00	309.49	319.37		319.48	0.000150	1.54	3568.33	812.88	0.20	82.00
Yukon River	Reach Upper	31034	1_OW_BU				7.43	6136.20	309.49	320.85		320.94	0.000103	1.48	4989.25	1032.63	0.17	77.69
Yukon River	Reach Upper	31034	0p5_BU				8.08	6675.00	309.49	321.49		321.58	0.000088	1.44	5657.69	1042.57	0.16	75.85
Yukon River	Reach Upper	31034	0p5-CC-LC_BU				9.46	8633.00	309.49	322.87		322.97	0.000079	1.52	7100.47	1046.09	0.16	72.51
Yukon River	Reach Upper	29827	5_BU				6.66	4872.00	308.06	319.21		319.31	0.000133	1.56	3568.15	705.21	0.19	72.33
Yukon River	Reach Upper	29827	1_OW_BU				8.05	6136.20	308.06	320.73		320.83	0.000092	1.48	4664.31	720.70	0.17	67.04
Yukon River	Reach Upper	29827	0p5_BU				8.71	6675.00	308.06	321.39		321.48	0.000080	1.45	5138.04	724.05	0.16	65.48
Yukon River	Reach Upper	29827	0p5-CC-LC_BU				10.09	8633.00	308.06	322.77		322.88	0.000076	1.56	6142.51	730.27	0.16	62.87
Yukon River	Reach Upper	28324	5_BU				5.18	4872.00	310.53	318.99		319.10	0.000157	1.44	3390.62	663.67	0.20	64.00
Yukon River	Reach Upper	28324	1_OW_BU				6.78	6136.20	310.53	320.59		320.69	0.000101	1.38	4556.51	862.40	0.17	63.88
Yukon River	Reach Upper	28324	0p5_BU				7.45	6675.00	310.53	321.27		321.36	0.000087	1.36	5204.46	1028.93	0.16	63.61
Yukon River	Reach Upper	28324	0p5-CC-LC_BU				8.85	8633.00	310.53	322.66		322.76	0.000079	1.46	6791.06	1204.51	0.16	62.43
Yukon River	Reach Upper	27970	5_BU				6.39	4872.00	309.72	318.98		319.04	0.000095	1.29	4432.92	1018.65	0.16	46.35
Yukon River	Reach Upper	27970	1_OW_BU				8.01	6136.20	309.72	320.59		320.65	0.000058	1.18	6319.57	1264.79	0.13	42.07
Yukon River	Reach Upper	27970	0p5_BU				8.69	6675.00	309.72	321.27		321.32	0.000049	1.14	7185.35	1275.16	0.12	40.56
Yukon River	Reach Upper	27970	0p5-CC-LC_BU				10.09	8633.00	309.72	322.67		322.73	0.000044	1.18	8981.01	1286.58	0.12	37.94
Yukon River	Reach Upper	27183	5_BU				7.89	4872.00	309.00	318.92		318.98	0.000061	1.19	5044.19	1150.12	0.14	64.10
Yukon River	Reach Upper	27183	1_OW_BU				9.53	6136.20	309.00	320.56		320.61	0.000041	1.10	7583.26	1794.29	0.11	56.91
Yukon River	Reach Upper	27183	0p5_BU				10.21	6675.00	309.00	321.25		321.29	0.000034	1.06	8823.33	1811.15	0.11	54.10
Yukon River	Reach Upper	27183	0p5-CC-LC_BU				11.62	8633.00	309.00	322.66		322.70	0.000031	1.10	11393.33	1840.79	0.10	49.47
Yukon River	Reach Upper	26163	5_BU				6.94	4872.00	310.39	318.89		318.93	0.000035	0.98	5712.15	1383.18	0.12	76.05
Yukon River	Reach Upper	26163	1_OW_BU				8.59	6136.20	310.39	320.54		320.58	0.000023	0.92	8481.82	1786.73	0.10	69.90
Yukon River	Reach Upper	26163	0p5_BU				9.28	6675.00	310.39	321.23		321.26	0.000020	0.89	9717.52	1793.15	0.09	67.42
Yukon River	Reach Upper	26163	0p5-CC-LC_BU				10.69	8633.00	310.39	322.64		322.68	0.000018	0.94	12250.61	1807.10	0.09	63.30
Yukon River	Reach Upper	25513	5_BU				8.20	4872.00	305.57	318.81		318.90	0.000067	1.49	4053.94	967.82	0.17	80.24
Yukon River	Reach Upper	25513	1_OW_BU				9.86	6136.20	305.57	320.47		320.55	0.000048	1.43	5998.57	1248.45	0.15	73.30
Yukon River	Reach Upper	25513	0p5_BU				10.56	6675.00	305.57	321.17		321.25	0.000042	1.40	6868.92	1250.29	0.14	70.52
Yukon River	Reach Upper	25513	0p5-CC-LC_BU				11.96	8633.00	305.57	322.58		322.66	0.000040	1.49	8640.48	1272.45	0.14	65.92
Yukon River	Reach Upper	25116	5_BU				7.74	4872.00	308.87	318.77		318.87	0.000076	1.54	4074.05	1001.49	0.18	73.35
Yukon River	Reach Upper	25116	1_OW_BU				9.41	6136.20	308.87	320.45		320.53	0.000052	1.46	5882.11	1089.86	0.15	67.16
Yukon River	Reach Upper	25116	0p5_BU				10.11	6675.00	308.87	321.15		321.22	0.000045	1.43	6645.36	1094.26	0.14	64.89
Yukon River	Reach Upper	25116	0p5-CC-LC_BU				11.52	8633.00	308.87	322.55		322.63	0.000044	1.53	8184.22	1099.11	0.14	61.23
Yukon River	Reach Upper	24839	5_BU				6.99	4872.00	308.47	318.78		318.84	0.000051	1.19	4626.67	911.55	0.14	82.37
Yukon River	Reach Upper	24839	1_OW_BU				8.67	6136.20	308.47	320.45		320.51	0.000036	1.15	6251.62	1025.34	0.13	78.82
Yukon River	Reach Upper	24839	0p5_BU				9.36	6675.00	308.47	321.15		321.21	0.000032	1.14	6969.43	1031.26	0.12	77.59
Yukon River	Reach Upper	24839	0p5-CC-LC_BU				10.77	8633.00	308.47	322.55		322.62	0.000032	1.25	8419.58	1036.23	0.12	75.48
Yukon River	Reach Upper	24691	5_BU				7.48	4872.00	308.44	318.78		318.83	0.000040	1.10	5035.73	877.21	0.13	78.45
Yukon River	Reach Upper	24691	1_OW_BU				9.16	6136.20	308.44	320.45		320.50	0.000029	1.07	6567.11	944.11	0.11	74.14
Yukon River	Reach Upper	24691	0p5_BU				9.86	6675.00	308.44	321.15		321.20	0.000026	1.06	7227.35	950.18	0.11	72.67
Yukon River	Reach Upper	24691	0p5-CC-LC_BU				11.26	8633.00	308.44	322.55		322.61	0.000026	1.16	8563.33	955.26	0.11	70.27
Yukon River	Reach Upper	24532	5_BU				6.95	4872.00	307.75	318.77		318.82	0.000036	0.98	5123.86	846.60	0.12	99.54
Yukon River	Reach Upper	24532	1_OW_BU				8.63	6136.20	307.75	320.45		320.50	0.000027	0.99	6563.72	870.45	0.11	98.88
Yukon River	Reach Upper	24532	0p5_BU				9.33	6675.00	307.75	321.15		321.20	0.000025	0.99	7172.00	873.30	0.10	98.58
Yukon River	Reach Upper	24532	0p5-CC-LC_BU				10.73	8633.00	307.75	322.55		322.61	0.000026	1.11	8399.12	879.60	0.11	98.03
Yukon River	Reach Upper	24416	5_BU				6.62	4872.00	306.29	318.76		318.82	0.000044	1.06	4705.89	827.14	0.13	99.78
Yukon River	Reach Upper	24416	1_OW_BU				8.29	6136.20	306.29	320.44		320.49	0.000032	1.05	6188.59	898.11	0.12	99.00
Yukon River	Reach Upper	24416	0p5_BU				8.99	6675.00	306.29	321.14		321.19	0.000029	1.05	6816.37	899.14	0.11	98.61
Yukon River	Reach Upper	24416	0p5-CC-LC_BU				10.39	8633.00	306.29	322.54		322.60	0.000030	1.17	8076.09	901.62	0.12	97.87
Yukon River	Reach Upper	24313	5_BU				6.57	4872.00	305.31	318.75		318.81	0.000050	1.13	4448.30	916.35	0.14	99.51
Yukon River	Reach Upper	24313	1_OW_BU				8.25	6136.20	305.31	320.43		320.49	0.000036	1.12	6031.21	955.00	0.12	98.18
Yukon River	Reach Upper	24313	0p5_BU				8.95	6675.00	305.31	321.13		321.19	0.000032	1.11	6699.73	956.31	0.12	97.56
Yukon River	Reach Upper	24313	0p5-CC-LC_BU				10.35	8633.00	305.31	322.53		322.60	0.000033	1.23	8042.37	962.62	0.12	96.42
Yukon River	Reach Upper	24212	5_BU				6.38	4872.00	304.88	318.74		318.81	0.000057	1.17	4368.00	959.70	0.15	99.34
Yukon River	Reach Upper	24212	1_OW_BU				8.06	6136.20	304.88	320.42		320.49	0.000040	1.15	6052.36	1011.43	0.13	97.56
Yukon River	Reach Upper	24212	0p5_BU				8.76	6675.00	304.88	321.12		321.18	0.000035	1.14	6761.70	1013.10	0.12	96.77
Yukon River	Reach Upper	24212	0p5-CC-LC_BU				10.16	8633.00	304.88	322.52		322.60	0.000035	1.25	8182.44	1017.07	0.13	95.36
Yukon River	Reach Lower	23731	5_BU				6.87	5200.00	303.17	318.65	311.05	318.76	0.000179	1.46	3576.62	538.77	0.18	99.98
Yukon River	Reach Lower	23731	1_OW_BU				8.56	6550.00	303.17	320.34	312.51	320.45	0.000136	1.47	4475.86	831.06	0.16	99.82
Yukon River	Reach Lower	23731	0p5_BU				9.26	7120.00	303.17	321.04	312.82	321.15	0.000124	1.47	4852.09	870.89	0.15	99.73
Yukon River	Reach Lower	23731	0p5-CC-LC_BU				10.67	9256.00	303.17	322.45	314.23	322.57	0.000115	1.56	6643.97	921.70	0.15	93.72
Yukon River	Reach Lower	23624	5_BU				7.56	5200.00	303.04	318.62	311.06	318.74	0.000177	1.54	3389.28	474.69	0.18	99.94
Yukon River	Reach Lower	23624	1_OW_BU				9.25	6550.00	303.04	320.31	311.94	320.43	0.000143	1.58	4164.94	799.02	0.17	99.73
Yukon River	Reach Lower	23624	0p5_BU				9.95	7120.00	303.04	321.01	312.38	321.14	0.000132	1.60	4489.68	816.85	0.16	99.63
Yukon River	Reach Lower	23624	0p5-CC-LC_BU				11.36	9256.00	303.04	322.42	314.26	322.55	0.000124	1.69	6284.47	864.67	0.16	92.50
Yukon River	Reach Lower	23530	5_BU				8.52	5200.00	302.73	318.61	310.46	318.72	0.000149	1.53	3403.86	512.60	0.17	99.99
Yukon River	Reach Lower	23530	1_OW_BU				10.20	6550.00	302.73	320.29	311.33	320.42	0.000130	1.61	4083.77	769.44	0.16	99.93
Yukon River	Reach Lower	23530	0p5_BU				10.90	7120.00	302.73	320.99	311.65	321.12	0.000123	1.63	4367.66	812.81	0.16	99.89
Yukon River	Reach Lower	23530	0p5-CC-LC_BU				12.31	9256.00	302.73	322.40	313.50	322.54	0.000116	1.72	6311.25	847.64	0.16	91.39
Yukon River	Reach Lower	23462	5_BU				8.87	5200.00	302.74	318.60	310.29	318.72	0.000064	1.54	3380.69	540.60	0.17	99.93
Yukon River	Reach Lower	23462	1_OW_BU				10.55	6550.00	302.74	320.28	311.21	320.41	0.000057	1.63	4039.68	785.26	0.16	99.78
Yukon River	Reach Lower	23462	0p5_BU				11.25	7120.00	302.74	320.98	311.52	321.12	0.000054	1.66	4315.43	819.40	0.16	99.71
Yukon River	Reach Lower	23462	0p5-CC-LC_BU				12.65	9256.00	302.74	322.38	313.06	322.53	0.000054	1.79	6372.07	842.20	0.16	92.94
Yukon River	Reach Lower	23387	5_BU				8.96	5200.00	302.37	318.59	310.15	318.71	0.000066	1.58	3301.72	518.20	0.17	99.96
Yukon River	Reach Lower	23387	1_OW_BU				10.64	6550.00	302.37	320.27	310.98	320.41	0.000059	1.67	3934.10	720.34	0.16	99.85
Yukon River	Reach Lower	23387	0p5_BU				11.34	7120.00	302.37	320.97	311.36	321.11	0.000056	1.70	4199.06	790.34	0.16	99.79
Yukon River	Reach Lower	23387	0p5-CC-LC_BU				12.74	9256.00	302.37	322.37	312.47	322.53	0.000057	1.85	6158.48	839.84	0.17	93.48
Yukon River	Reach Lower	23323	5_BU				9.21	5200.00	302.29	318.58	309.94	318.71	0.000066	1.60	3250.81	436.00	0.17	99.97
Yukon River	Reach Lower	23323	1_OW_BU				10.89	6550.00	302.29	320.26	310.79	320.40	0.000060	1.70	3856.77	733.43	0.16	99.86
Yukon River	Reach Lower	23323	0p5_BU				11.59	7120.00	302.29	320.95	311.10	321.11	0.000057	1.74	4111.12	781.61	0.16	99.80
Yukon River	Reach Lower	23323	0p5-CC-LC_BU				12.99	9256.00	302.29	322.35	312.24	322.52	0.000058	1.90	5974.96	807.68	0.17	93.76
Yukon River	Reach Lower	23245	5_BU				9.52	5200.00	302.93	318.57	309.96	318.70	0.000065	1.63	3206.59	380.15	0.17	99.92
Yukon River	Reach Lower	23245	1_OW_BU				11.20	6550.00	302.93	320.25	310.77	320.40	0.000060	1.74	3792.10	742.38	0.17	99.70
Yukon River	Reach Lower	23245	0p5_BU				11.90	7120.00	302.93	320.94	311.07	321.10	0.000058	1.78	4037.56	763.70	0.16	99.59
Yukon River	Reach Lower	23245	0p5-CC-LC_BU				13.29	9256.00	302.93	322.34	312.16	322.52	0.000060	1.95	5822.08	795.20	0.17	93.90
Yukon River	Reach Lower	23162	5_BU				9.88	5200.00	302.95	318.55	309.90	318.70	0.000066	1.68	3108.96	382.00	0.17	99.88
Yukon River	Reach Lower	23162	1_OW_BU				11.56	6550.00	302.95	320.23	310.77	320.39	0.000062	1.80	3659.55	741.25	0.17	99.60
Yukon River	Reach Lower	23162	0p5_BU				12.27	7120.00	302.95	320.94	311.09	321.10	0.000057	1.79	4638.89	782.53	0.16	96.75
Yukon River	Reach Lower	23162	0p5-CC-LC_BU				13.65	9256.00	302.95	322.32	312.16	322.51	0.000062	2.02	5731.83	800.38	0.17	93.23
Yukon River	Reach Lower	23063	5_BU				10.54	5200.00	303.28	318.54	309.72	318.69	0.000062	1.69	3084.73	413.52	0.17	99.86
Yukon River	Reach Lower	23063	1_OW_BU				12.21	6550.00	303.28	320.22	310.53	320.39	0.000060	1.84	3597.28	756.50	0.17	99.58
Yukon River	Reach Lower	23063	0p5_BU				12.92	7120.00	303.28	320.93	310.83	321.09	0.000054	1.82	4678.91	800.07	0.16	96.22
Yukon River	Reach Lower	23063	0p5-CC-LC_BU				14.30	9256.00	303.28	322.31	311.94	322.51	0.000060	2.06	5800.52	827.16	0.17	92.43
Yukon River	Reach Lower	22966	5_BU				11.06	5200.00	304.10	318.54	309.41	318.68	0.000055	1.66	3144.14	330.55	0.16	99.99
Yukon River	Reach Lower	22966	1_OW_BU				12.73	6550.00	304.10	320.21	310.14	320.38	0.000054	1.81	3628.58	720.96	0.16	99.92

HEC-RAS Plan: YR_Simulated_ShortJam_AEP Locations: User Defined (Continued)

River	Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
				(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Yukon River	Reach Lower	22966	0p5_BU				13.44	7120.00	304.10	320.92	310.42	321.09	0.000052	1.83	4490.10	772.23	0.16	97.86
Yukon River	Reach Lower	22966	0p5-CC-LC_BU				14.81	9256.00	304.10	322.29	311.48	322.50	0.000059	2.08	5582.79	811.73	0.17	94.55
Yukon River	Reach Lower	22869	5_BU				11.20	5200.00	304.06	318.54	309.51	318.68	0.000052	1.62	3221.44	293.99	0.15	99.98
Yukon River	Reach Lower	22869	1_OW_BU				12.87	6550.00	304.06	320.21	310.17	320.37	0.000051	1.77	3716.43	761.44	0.16	99.87
Yukon River	Reach Lower	22869	0p5_BU				13.58	7120.00	304.06	320.92	310.44	321.08	0.000049	1.78	4610.85	772.38	0.15	97.68
Yukon River	Reach Lower	22869	0p5-CC-LC_BU				14.95	9256.00	304.06	322.29	311.41	322.49	0.000056	2.04	5697.24	811.22	0.17	94.43
Yukon River	Reach Lower	22783	5_BU				11.33	5200.00	303.94	318.54	309.51	318.67	0.000047	1.56	3339.36	302.79	0.15	99.95
Yukon River	Reach Lower	22783	1_OW_BU				13.00	6550.00	303.94	320.22	310.16	320.37	0.000047	1.71	3849.73	758.40	0.15	99.81
Yukon River	Reach Lower	22783	0p5_BU				13.71	7120.00	303.94	320.92	310.41	321.07	0.000045	1.73	4693.96	781.29	0.15	97.95
Yukon River	Reach Lower	22783	0p5-CC-LC_BU				15.08	9256.00	303.94	322.29	311.28	322.48	0.000052	1.98	5784.00	816.06	0.16	94.87
Yukon River	Reach Lower	22679	5_BU				10.93	5200.00	304.84	318.55	309.91	318.66	0.000046	1.51	3456.90	323.55	0.15	99.97
Yukon River	Reach Lower	22679	1_OW_BU				12.60	6550.00	304.84	320.22	310.53	320.36	0.000045	1.64	4001.83	707.06	0.15	99.85
Yukon River	Reach Lower	22679	0p5_BU				13.31	7120.00	304.84	320.93	310.77	321.07	0.000043	1.66	4805.66	744.99	0.15	98.11
Yukon River	Reach Lower	22679	0p5-CC-LC_BU				14.68	9256.00	304.84	322.30	311.58	322.47	0.000050	1.91	5880.36	797.95	0.16	95.42
Yukon River	Reach Lower	22594	5_BU				10.56	5200.00	305.38	318.55	310.19	318.65	0.000045	1.45	3590.92	346.33	0.14	99.99
Yukon River	Reach Lower	22594	1_OW_BU				12.24	6550.00	305.38	320.22	310.78	320.35	0.000044	1.57	4175.16	689.72	0.14	99.89
Yukon River	Reach Lower	22594	0p5_BU				12.94	7120.00	305.38	320.93	311.00	321.06	0.000042	1.60	4873.54	732.87	0.14	98.69
Yukon River	Reach Lower	22594	0p5-CC-LC_BU				14.31	9256.00	305.38	322.30	311.75	322.47	0.000048	1.83	5901.61	767.73	0.15	96.37
Yukon River	Reach Lower	22499	5_BU				10.19	5200.00	305.90	318.55	310.19	318.65	0.000041	1.36	3834.37	387.40	0.14	99.75
Yukon River	Reach Lower	22499	1_OW_BU				11.86	6550.00	305.90	320.23	310.73	320.34	0.000039	1.47	4485.58	652.74	0.14	99.57
Yukon River	Reach Lower	22499	0p5_BU				12.57	7120.00	305.90	320.94	310.94	321.05	0.000037	1.49	5192.92	699.40	0.13	98.34
Yukon River	Reach Lower	22499	0p5-CC-LC_BU				13.95	9256.00	305.90	322.31	311.68	322.46	0.000043	1.71	6177.44	733.78	0.15	96.45
Yukon River	Reach Lower	22376	5_BU				10.14	5200.00	306.45	318.55	310.55	318.64	0.000041	1.36	3856.37	399.63	0.14	99.78
Yukon River	Reach Lower	22376	1_OW_BU				11.82	6550.00	306.45	320.23	311.07	320.34	0.000039	1.46	4549.73	638.37	0.14	99.39
Yukon River	Reach Lower	22376	0p5_BU				12.53	7120.00	306.45	320.93	311.26	321.05	0.000037	1.48	5154.20	700.38	0.13	98.49
Yukon River	Reach Lower	22376	0p5-CC-LC_BU				13.90	9256.00	306.45	322.31	311.96	322.45	0.000043	1.71	6135.58	730.37	0.15	96.59
Yukon River	Reach Lower	22268	5_BU				9.64	5200.00	306.94	318.55	310.83	318.63	0.000036	1.24	4212.96	441.33	0.13	99.98
Yukon River	Reach Lower	22268	1_OW_BU				11.32	6550.00	306.94	320.24	311.30	320.33	0.000034	1.32	4961.75	577.94	0.13	99.93
Yukon River	Reach Lower	22268	0p5_BU				12.03	7120.00	306.94	320.94	311.48	321.04	0.000032	1.35	5478.48	587.61	0.12	99.38
Yukon River	Reach Lower	22268	0p5-CC-LC_BU				13.40	9256.00	306.94	322.32	312.11	322.44	0.000037	1.56	6321.11	625.40	0.14	98.53
Yukon River	Reach Lower	22140	5_BU				8.99	5200.00	307.43	318.55		318.63	0.000038	1.20	4369.01	533.04	0.13	99.93
Yukon River	Reach Lower	22140	1_OW_BU				10.67	6550.00	307.43	320.24		320.32	0.000034	1.27	5277.41	545.90	0.12	99.57
Yukon River	Reach Lower	22140	0p5_BU				11.38	7120.00	307.43	320.94		321.03	0.000032	1.29	5667.11	555.97	0.12	99.38
Yukon River	Reach Lower	22140	0p5-CC-LC_BU				12.75	9256.00	307.43	322.32		322.43	0.000037	1.49	6437.44	570.14	0.13	98.99
Yukon River	Reach Lower	22031	5_BU				8.88	5200.00	307.80	318.55		318.62	0.000038	1.20	4329.05	498.95	0.13	99.97
Yukon River	Reach Lower	22031	1_OW_BU				10.57	6550.00	307.80	320.23		320.32	0.000034	1.27	5183.85	520.66	0.12	99.85
Yukon River	Reach Lower	22031	0p5_BU				11.28	7120.00	307.80	320.94		321.03	0.000032	1.29	5559.07	547.56	0.12	99.77
Yukon River	Reach Lower	22031	0p5-CC-LC_BU				12.65	9256.00	307.80	322.31		322.43	0.000037	1.50	6314.31	552.95	0.13	99.48
Yukon River	Reach Lower	21855	5_BU				8.50	5200.00	307.56	318.54		318.61	0.000083	1.15	4636.72	584.33	0.13	97.29
Yukon River	Reach Lower	21855	1_OW_BU				10.19	6550.00	307.56	320.23		320.30	0.000071	1.19	5650.65	618.78	0.12	96.37
Yukon River	Reach Lower	21855	0p5_BU				10.90	7120.00	307.56	320.94		321.01	0.000066	1.21	6093.33	632.47	0.12	95.89
Yukon River	Reach Lower	21855	0p5-CC-LC_BU				12.28	9256.00	307.56	322.32		322.41	0.000074	1.38	6995.80	667.45	0.13	94.95
Yukon River	Reach Lower	21704	5_BU				7.87	5200.00	306.31	318.53		318.60	0.000092	1.14	4558.61	591.04	0.13	99.94
Yukon River	Reach Lower	21704	1_OW_BU				9.56	6550.00	306.31	320.22		320.29	0.000076	1.18	5578.00	615.82	0.12	99.71
Yukon River	Reach Lower	21704	0p5_BU				10.27	7120.00	306.31	320.93		321.00	0.000070	1.19	6018.06	623.56	0.12	99.54
Yukon River	Reach Lower	21704	0p5-CC-LC_BU				11.65	9256.00	306.31	322.31		322.40	0.000078	1.36	6886.04	638.73	0.13	99.19
Yukon River	Reach Lower	21589	5_BU				7.74	5200.00	305.41	318.52		318.59	0.000099	1.17	4444.16	582.66	0.13	99.98
Yukon River	Reach Lower	21589	1_OW_BU				9.43	6550.00	305.41	320.21		320.28	0.000081	1.21	5449.27	600.83	0.13	99.81
Yukon River	Reach Lower	21589	0p5_BU				10.14	7120.00	305.41	320.92		320.99	0.000075	1.22	5876.97	604.13	0.12	99.71
Yukon River	Reach Lower	21589	0p5-CC-LC_BU				11.52	9256.00	305.41	322.29		322.39	0.000082	1.39	6722.09	624.49	0.13	99.48
Yukon River	Reach Lower	21455	5_BU				7.93	5200.00	304.50	318.50		318.57	0.000102	1.21	4302.79	552.91	0.14	99.96
Yukon River	Reach Lower	21455	1_OW_BU				9.63	6550.00	304.50	320.19		320.27	0.000085	1.26	5269.30	596.22	0.13	99.78
Yukon River	Reach Lower	21455	0p5_BU				10.34	7120.00	304.50	320.90		320.98	0.000079	1.27	5695.82	602.12	0.13	99.63
Yukon River	Reach Lower	21455	0p5-CC-LC_BU				11.71	9256.00	304.50	322.27		322.38	0.000087	1.45	6526.16	612.12	0.14	99.27
Yukon River	Reach Lower	21317	5_BU				8.27	5200.00	303.08	318.47		318.56	0.000110	1.29	4056.61	525.60	0.14	99.98
Yukon River	Reach Lower	21317	1_OW_BU				9.96	6550.00	303.08	320.17		320.26	0.000093	1.34	4985.09	563.15	0.14	99.59
Yukon River	Reach Lower	21317	0p5_BU				10.68	7120.00	303.08	320.88		320.97	0.000087	1.36	5389.75	573.17	0.13	99.34
Yukon River	Reach Lower	21317	0p5-CC-LC_BU				12.04	9256.00	303.08	322.24		322.37	0.000098	1.55	6182.41	587.72	0.14	98.79
Yukon River	Reach Lower	21152	5_BU				8.75	5200.00	303.41	318.45		318.54	0.000102	1.29	4073.02	518.23	0.14	99.90
Yukon River	Reach Lower	21152	1_OW_BU				10.45	6550.00	303.41	320.15		320.24	0.000089	1.35	5011.81	565.13	0.13	99.23
Yukon River	Reach Lower	21152	0p5_BU				11.16	7120.00	303.41	320.86		320.96	0.000083	1.37	5417.67	573.92	0.13	98.86
Yukon River	Reach Lower	21152	0p5-CC-LC_BU				12.53	9256.00	303.41	322.23		322.35	0.000095	1.57	6210.57	590.82	0.14	98.12
Yukon River	Reach Lower	21048	5_BU				9.13	5200.00	303.45	318.45		318.53	0.000045	1.30	4004.53	486.18	0.14	99.97
Yukon River	Reach Lower	21048	1_OW_BU				10.82	6550.00	303.45	320.14		320.24	0.000040	1.38	4909.05	555.62	0.13	99.54
Yukon River	Reach Lower	21048	0p5_BU				11.54	7120.00	303.45	320.85		320.95	0.000038	1.40	5307.59	564.12	0.13	99.24
Yukon River	Reach Lower	21048	0p5-CC-LC_BU				12.89	9256.00	303.45	322.21		322.34	0.000044	1.62	6086.30	583.35	0.14	98.62
Yukon River	Reach Lower	20921	5_BU				9.72	5200.00	302.28	318.43		318.52	0.000045	1.36	3834.36	402.94	0.14	99.95
Yukon River	Reach Lower	20921	1_OW_BU				11.42	6550.00	302.28	320.12		320.23	0.000041	1.46	4604.93	516.58	0.14	99.73
Yukon River	Reach Lower	20921	0p5_BU				12.13	7120.00	302.28	320.83		320.94	0.000040	1.49	4978.12	535.44	0.14	99.50
Yukon River	Reach Lower	20921	0p5-CC-LC_BU				13.48	9256.00	302.28	322.18		322.33	0.000047	1.73	5716.26	557.31	0.15	98.93
Yukon River	Reach Lower	20805	5_BU				10.47	5200.00	300.49	318.43		318.52	0.000040	1.36	3861.30	424.72	0.13	99.95
Yukon River	Reach Lower	20805	1_OW_BU				12.16	6550.00	300.49	320.12		320.23	0.000038	1.47	4637.69	489.44	0.13	99.61
Yukon River	Reach Lower	20805	0p5_BU				12.87	7120.00	300.49	320.83		320.94	0.000037	1.50	4994.74	515.31	0.13	99.39
Yukon River	Reach Lower	20805	0p5-CC-LC_BU				14.22	9256.00	300.49	322.17		322.33	0.000045	1.76	5715.11	550.34	0.15	98.82
Yukon River	Reach Lower	20702	5_BU				10.45	5200.00	300.38	318.42		318.51	0.000070	1.34	3889.90	448.71	0.13	99.97
Yukon River	Reach Lower	20702	1_OW_BU				12.14	6550.00	300.38	320.11		320.22	0.000066	1.45	4718.96	513.88	0.13	99.42
Yukon River	Reach Lower	20702	0p5_BU				12.85	7120.00	300.38	320.82		320.93	0.000064	1.48	5089.38	534.07	0.13	99.05
Yukon River	Reach Lower	20702	0p5-CC-LC_BU				14.20	9256.00	300.38	322.17		322.32	0.000077	1.73	5833.83	568.38	0.15	98.29
Yukon River	Reach Lower	20571	5_BU				11.17	5200.00	301.15	318.42		318.51	0.000034	1.33	3953.11	419.17	0.13	99.91
Yukon River	Reach Lower	20571	1_OW_BU				12.86	6550.00	301.15	320.11		320.21	0.000034	1.45	4699.96	470.80	0.13	99.56
Yukon River	Reach Lower	20571	0p5_BU				13.57	7120.00	301.15	320.81		320.93	0.000034	1.50	5041.54	498.23	0.13	99.34
Yukon River	Reach Lower	20571	0p5-CC-LC_BU				14.91	9256.00	301.15	322.16		322.31	0.000043	1.76	5733.65	533.07	0.15	98.82
Yukon River	Reach Lower	20458	5_BU				11.12	5200.00	301.98	318.41		318.50	0.000038	1.34	3906.34	386.00	0.13	99.98
Yukon River	Reach Lower	20458	1_OW_BU				12.81	6550.00	301.98	320.10		320.21	0.000037	1.46	4651.17	483.43	0.13	99.71
Yukon River	Reach Lower	20458	0p5_BU				13.51	7120.00	301.98	320.81		320.92	0.000036	1.50	5007.50	516.19	0.13	99.49
Yukon River	Reach Lower	20458	0p5-CC-LC_BU				14.85	9256.00	301.98	322.15		322.31	0.000044	1.76	5728.50	563.10	0.15	98.93
Yukon River	Reach Lower	20367	5_BU				10.95	5200.00	302.69	318.41		318.50	0.000116	1.30	4016.30	395.70	0.13	99.94
Yukon River	Reach Lower	20367	1_OW_BU				12.64	6550.00	302.69	320.10		320.20	0.000113	1.41	4838.99	572.84	0.13	99.40
Yukon River	Reach Lower	20367	0p5_BU				13.35	7120.00	302.69	320.81		320.92	0.000110	1.45	5254.50	600.49	0.13	98.83
Yukon River	Reach Lower	20367	0p5-CC-LC_BU				14.70	9256.00	302.69	322.16		322.30	0.000131	1.68	6084.43	629.98	0.14	97.39
Yukon River	Reach Lower	20250	5_BU				11.10	5200.00	303.47	318.41		318.49	0.000032	1.27	4094.27	386.56	0.12	99.99
Yukon River	Reach Lower	20250	1_OW_BU				12.79	6550.00	303.47	320.10		320.19	0.000031	1.38	4997.96	629.45	0.12	99.57
Yukon River	Reach Lower	20250	0p5_BU				13.50	7120.00	303.47	320.81		320.91	0.000031	1.42	5449.92	644.40	0.12	99.13
Yukon River	Reach Lower	20250	0p5-CC-LC_BU				14.84	9256.00	303.47	322.15		322.29	0.000037	1.66	6328.21	664.49	0.14	98.12
Yukon River	Reach Lower	20146	5_BU				10.97	5200.00	304.44	318.41		318.48	0.000029	1.20	4341.72	463.28	0.12	99.99
Yukon River	Reach Lower	20146	1_OW_BU				12.66	6550.00	304.44	320.10		320.19	0.000028	1.30	5392.06	668.45	0.12	99.35
Yukon River	Reach Lower	20146	0p5_BU				13.37	7120.00	304.44	320.81		320.90	0.000028	1.33	5869.60	676.47	0.12	98.86
Yukon River	Reach Lower	20146	0p5-CC-LC_BU				14.72	9256.00	304.44	322.16		322.28	0.000033	1.56	6792.22	695.63	0.13	97.86
Yukon River	Reach Lower	20008	5_BU				10.47	5200.00	305.47	318.41		318.48	0.000028	1.13	4603.61	616.38	0.11	99.99
Yukon River	Reach Lower	20008	1_OW_BU				12.16	6550.00	305.47	320.11		320.18	0.000027	1.22	5790.24	720.34	0.11	99.22
Yukon River	Reach Lower	20008	0p5_BU				12.87	7120.00	305.47	320.82		320.89	0.000026	1.25	6305.59	729.01	0.11	98.73
Yukon River	Reach Lower	20008	0p5-CC-LC_BU				14.22	9256.00	305.47	322.16		322.27	0.000031	1.45	7298.39	743.88	0.12	97.74
Yukon River	Reach Lower	19824	5_BU				9.35	5200.00	306.60	318.41		318.47	0.000060	1.02	5202.67	725.84	0.11	99.87
Yukon River	Reach Lower	19824	1_OW_BU				11.05	6550.00	306.60	320.11		320.17	0.000053	1.07	6533.66	817.54	0.10	98.73
Yukon River	Reach Lower	19824	0p5_BU				11.76	7120.00	306.60	320.82		320.88	0.000050	1.09	7118.59	824.05	0.10	98.07
Yukon River	Reach Lower	19824	0p5-CC-LC_BU				13.11	9256.00	306.60	322.18		322.25	0.000058	1.25	8240.86	833.29	0.11	96.75

HEC-RAS Plan: YR_Simulated_ShortJam_AEP Locations: User Defined (Continued)

River	Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
				(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Yukon River	Reach Lower	19695	5_BU				9.03	5200.00	307.61	318.40		318.46	0.000063	1.04	5279.92	796.98	0.11	98.84
Yukon River	Reach Lower	19695	1_OW_BU				10.73	6550.00	307.61	320.10		320.16	0.000054	1.08	6749.81	892.32	0.11	97.00
Yukon River	Reach Lower	19695	0p5_BU				11.44	7120.00	307.61	320.82		320.88	0.000051	1.09	7389.66	900.56	0.10	96.11
Yukon River	Reach Lower	19695	0p5-CC-LC_BU				12.79	9256.00	307.61	322.17		322.25	0.000057	1.25	8614.30	909.16	0.11	94.45
Yukon River	Reach Lower	19565	5_BU				8.47	5200.00	308.72	318.41		318.44	0.000049	0.88	6365.73	891.49	0.10	79.60
Yukon River	Reach Lower	19565	1_OW_BU				10.18	6550.00	308.72	320.11		320.15	0.000040	0.90	7923.99	930.26	0.09	77.88
Yukon River	Reach Lower	19565	0p5_BU				10.89	7120.00	308.72	320.83		320.86	0.000037	0.91	8591.45	939.38	0.09	77.24
Yukon River	Reach Lower	19565	0p5-CC-LC_BU				12.25	9256.00	308.72	322.18		322.23	0.000041	1.04	9887.62	972.31	0.09	76.22
Yukon River	Reach Lower	19430	5_BU				7.59	5200.00	308.98	318.40		318.44	0.000050	0.83	6987.32	1134.13	0.10	81.76
Yukon River	Reach Lower	19430	1_OW_BU				9.29	6550.00	308.98	320.11		320.14	0.000039	0.83	8926.88	1138.83	0.09	79.83
Yukon River	Reach Lower	19430	0p5_BU				10.01	7120.00	308.98	320.83		320.86	0.000035	0.83	9741.73	1141.00	0.08	79.17
Yukon River	Reach Lower	19430	0p5-CC-LC_BU				11.36	9256.00	308.98	322.18		322.22	0.000038	0.94	11293.64	1145.16	0.09	78.10
Yukon River	Reach Lower	19286	5_BU				7.90	5200.00	309.53	318.39		318.43	0.000054	0.88	6239.02	1105.03	0.10	87.60
Yukon River	Reach Lower	19286	1_OW_BU				9.61	6550.00	309.53	320.10		320.13	0.000043	0.89	8135.60	1114.32	0.09	85.39
Yukon River	Reach Lower	19286	0p5_BU				10.33	7120.00	309.53	320.81		320.85	0.000039	0.89	8933.89	1117.12	0.09	84.50
Yukon River	Reach Lower	19286	0p5-CC-LC_BU				11.68	9256.00	309.53	322.17		322.22	0.000042	1.01	10453.31	1123.28	0.09	82.97
Yukon River	Reach Lower	19158	5_BU				8.16	5200.00	307.73	318.38		318.42	0.000053	0.89	6398.14	1169.64	0.10	79.20
Yukon River	Reach Lower	19158	1_OW_BU				9.87	6550.00	307.73	320.09		320.13	0.000041	0.89	8417.19	1189.77	0.09	76.39
Yukon River	Reach Lower	19158	0p5_BU				10.58	7120.00	307.73	320.81		320.84	0.000037	0.89	9270.71	1194.59	0.09	75.32
Yukon River	Reach Lower	19158	0p5-CC-LC_BU				11.94	9256.00	307.73	322.17		322.21	0.000040	1.00	10900.64	1209.94	0.09	73.51
Yukon River	Reach Lower	19070	5_BU				7.89	5200.00	307.30	318.38		318.41	0.000051	0.85	6545.04	1177.56	0.10	66.22
Yukon River	Reach Lower	19070	1_OW_BU				9.60	6550.00	307.30	320.09		320.12	0.000039	0.85	8573.03	1193.29	0.09	64.05
Yukon River	Reach Lower	19070	0p5_BU				10.32	7120.00	307.30	320.81		320.84	0.000036	0.85	9430.91	1199.74	0.08	63.22
Yukon River	Reach Lower	19070	0p5-CC-LC_BU				11.68	9256.00	307.30	322.17		322.20	0.000038	0.96	11067.32	1213.04	0.09	61.82
Yukon River	Reach Lower	18924	5_BU				7.85	5200.00	307.60	318.38		318.40	0.000044	0.79	7012.23	1118.37	0.09	58.65
Yukon River	Reach Lower	18924	1_OW_BU				9.56	6550.00	307.60	320.09		320.12	0.000034	0.80	8937.59	1132.55	0.08	57.20
Yukon River	Reach Lower	18924	0p5_BU				10.28	7120.00	307.60	320.81		320.83	0.000031	0.80	9752.52	1145.87	0.08	56.68
Yukon River	Reach Lower	18924	0p5-CC-LC_BU				11.63	9256.00	307.60	322.16		322.20	0.000034	0.90	11319.20	1161.55	0.08	55.78
Yukon River	Reach Lower	18810	5_BU				7.89	5200.00	307.08	318.37		318.40	0.000041	0.76	7239.98	1030.83	0.09	55.75
Yukon River	Reach Lower	18810	1_OW_BU				9.60	6550.00	307.08	320.09		320.11	0.000032	0.77	9024.15	1056.82	0.08	54.35
Yukon River	Reach Lower	18810	0p5_BU				10.32	7120.00	307.08	320.80		320.83	0.000029	0.77	9785.86	1067.94	0.08	53.89
Yukon River	Reach Lower	18810	0p5-CC-LC_BU				11.67	9256.00	307.08	322.16		322.19	0.000032	0.88	11248.70	1089.64	0.08	53.15
Yukon River	Reach Lower	18673	5_BU				8.12	5200.00	307.19	318.36		318.39	0.000046	0.83	6776.33	950.85	0.09	54.93
Yukon River	Reach Lower	18673	1_OW_BU				9.84	6550.00	307.19	320.08		320.11	0.000036	0.83	8429.69	987.51	0.08	53.09
Yukon River	Reach Lower	18673	0p5_BU				10.55	7120.00	307.19	320.79		320.83	0.000033	0.83	9140.70	998.60	0.08	52.45
Yukon River	Reach Lower	18673	0p5-CC-LC_BU				11.91	9256.00	307.19	322.15		322.19	0.000036	0.94	10517.35	1033.15	0.09	51.40
Yukon River	Reach Lower	18557	5_BU				8.46	5200.00	306.52	318.35		318.39	0.000055	0.92	6216.13	925.19	0.10	62.04
Yukon River	Reach Lower	18557	1_OW_BU				10.17	6550.00	306.52	320.07		320.10	0.000044	0.92	7827.41	949.66	0.09	59.24
Yukon River	Reach Lower	18557	0p5_BU				10.89	7120.00	306.52	320.78		320.82	0.000040	0.92	8515.52	962.16	0.09	58.30
Yukon River	Reach Lower	18557	0p5-CC-LC_BU				12.24	9256.00	306.52	322.14		322.18	0.000044	1.04	9840.16	994.82	0.09	56.74
Yukon River	Reach Lower	18276	5_BU				8.94	5200.00	307.06	318.32		318.37	0.000059	1.00	5515.87	798.55	0.11	65.68
Yukon River	Reach Lower	18276	1_OW_BU				10.65	6550.00	307.06	320.04		320.09	0.000051	1.03	6919.03	830.49	0.10	64.19
Yukon River	Reach Lower	18276	0p5_BU				11.37	7120.00	307.06	320.76		320.81	0.000047	1.04	7521.77	844.35	0.10	63.58
Yukon River	Reach Lower	18276	0p5-CC-LC_BU				12.72	9256.00	307.06	322.11		322.17	0.000054	1.18	8674.60	866.75	0.11	62.45
Yukon River	Reach Lower	17613	5_BU				8.92	5200.00	307.89	318.31		318.34	0.000023	0.80	6608.05	774.22	0.09	51.91
Yukon River	Reach Lower	17613	1_OW_BU				10.64	6550.00	307.89	320.03		320.06	0.000021	0.84	7952.96	788.32	0.08	51.29
Yukon River	Reach Lower	17613	0p5_BU				11.36	7120.00	307.89	320.75		320.78	0.000019	0.85	8522.28	798.53	0.08	51.08
Yukon River	Reach Lower	17613	0p5-CC-LC_BU				12.71	9256.00	307.89	322.09		322.14	0.000023	0.98	9661.98	857.29	0.09	50.71
Yukon River	Reach Lower	16554	5_BU				10.00	5200.00	305.16	318.28	309.79	318.32	0.000023	0.84	6276.21	710.84	0.08	99.85
Yukon River	Reach Lower	16554	1_OW_BU				11.72	6550.00	305.16	320.00	310.20	320.04	0.000022	0.90	7798.70	936.01	0.08	99.11
Yukon River	Reach Lower	16554	0p5_BU				12.44	7120.00	305.16	320.72	310.39	320.76	0.000021	0.91	8476.93	957.02	0.08	98.62
Yukon River	Reach Lower	16554	0p5-CC-LC_BU				13.78	9256.00	305.16	322.06	310.88	322.12	0.000025	1.06	9767.02	965.89	0.09	97.56

HEC-RAS Plan: KR_Jam_2254 River: Klondike River Reach: Reach 1

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	58149	5_BU				0.60	211.80	457.19	459.11	458.78	459.18	0.003960	1.28	176.98	311.40	0.53	69.92
Reach 1	58149	1_BU				0.62	258.70	457.19	459.21	458.88	459.29	0.003968	1.31	209.35	358.41	0.53	68.61
Reach 1	58149	0p5_BU				0.63	274.10	457.19	459.23	458.92	459.31	0.003970	1.34	218.15	365.55	0.54	68.59
Reach 1	58149	0p5-CC-LC_BU				0.78	383.70	457.19	459.40	459.08	459.50	0.003748	1.50	283.35	422.35	0.54	69.68
Reach 1	57145	5_BU				1.56	211.80	454.28	457.10		457.15	0.001219	1.40	307.38	553.20	0.36	51.15
Reach 1	57145	1_BU				1.67	258.70	454.28	457.21		457.26	0.001207	1.46	371.49	616.50	0.36	46.72
Reach 1	57145	0p5_BU				1.70	274.10	454.28	457.24		457.30	0.001200	1.48	392.45	637.58	0.36	45.44
Reach 1	57145	0p5-CC-LC_BU				1.89	383.70	454.28	457.43	456.97	457.49	0.001229	1.60	523.14	758.51	0.37	39.14
Reach 1	56479	5_BU				1.05	240.10	453.12	455.47	455.09	455.51	0.005101	1.12	306.13	656.22	0.35	32.50
Reach 1	56479	1_BU				1.11	296.00	453.12	455.54	455.20	455.58	0.005627	1.22	349.22	708.62	0.37	30.50
Reach 1	56479	0p5_BU				1.13	314.90	453.12	455.55	455.23	455.60	0.005793	1.26	362.35	723.85	0.38	29.89
Reach 1	56479	0p5-CC-LC_BU				1.25	440.90	453.12	455.68	455.34	455.74	0.006242	1.40	463.40	836.79	0.40	26.46
Reach 1	56103	5_BU				1.35	240.10	452.81	454.88	454.59	454.92	0.001233	1.30	480.43	1110.99	0.36	43.21
Reach 1	56103	1_BU				1.48	296.00	452.81	455.00	454.65	455.04	0.001075	1.28	619.04	1250.15	0.34	37.86
Reach 1	56103	0p5_BU				1.51	314.90	452.81	455.04	454.68	455.07	0.001033	1.28	661.05	1276.64	0.33	36.30
Reach 1	56103	0p5-CC-LC_BU				1.72	440.90	452.81	455.25	454.80	455.28	0.000857	1.27	929.03	1384.61	0.31	29.36
Reach 1	54315	5_BU				1.45	240.10	449.60	451.73	451.23	451.91	0.002405	2.04	149.24	151.29	0.54	82.29
Reach 1	54315	1_BU				1.56	296.00	449.60	451.85	451.42	452.08	0.002828	2.28	169.94	189.14	0.58	80.99
Reach 1	54315	0p5_BU				1.60	314.90	449.60	451.89	451.48	452.13	0.002970	2.36	177.13	201.14	0.60	80.66
Reach 1	54315	0p5-CC-LC_BU				1.79	440.90	449.60	452.08	451.78	452.41	0.003875	2.83	223.56	333.53	0.68	77.50
Reach 1	53429	5_BU				1.05	240.10	446.75	449.04	448.76	449.17	0.004087	1.81	160.79	290.59	0.56	64.39
Reach 1	53429	1_BU				1.23	296.00	446.75	449.22	448.87	449.34	0.003287	1.78	219.19	358.12	0.51	60.40
Reach 1	53429	0p5_BU				1.28	314.90	446.75	449.27	448.91	449.39	0.003094	1.78	239.73	373.58	0.50	59.14
Reach 1	53429	0p5-CC-LC_BU				1.57	440.90	446.75	449.61	449.12	449.71	0.002282	1.71	378.63	448.34	0.44	51.57
Reach 1	52840	5_BU				1.89	240.10	445.50	448.33		448.40	0.000706	1.22	225.51	161.57	0.28	91.14
Reach 1	52840	1_BU				2.09	296.00	445.50	448.53		448.61	0.000743	1.34	258.72	170.72	0.30	89.43
Reach 1	52840	0p5_BU				2.15	314.90	445.50	448.59		448.67	0.000755	1.38	269.27	175.04	0.30	88.94
Reach 1	52840	0p5-CC-LC_BU				2.49	440.90	445.50	448.93		449.05	0.000850	1.61	332.21	197.46	0.33	86.24
Reach 1	52279	5_BU				1.55	240.10	445.07	447.57		447.74	0.002219	1.90	140.01	174.63	0.49	97.07
Reach 1	52279	1_BU				1.71	296.00	445.07	447.73		447.93	0.002266	2.05	171.53	236.34	0.50	93.97
Reach 1	52279	0p5_BU				1.76	314.90	445.07	447.78		447.99	0.002290	2.10	182.03	249.32	0.51	92.95
Reach 1	52279	0p5-CC-LC_BU				2.03	440.90	445.07	448.05		448.29	0.002398	2.36	259.18	435.16	0.53	86.14
Reach 1	50899	5_BU				1.15	290.80	441.51	444.17		444.28	0.002637	1.69	262.99	378.00	0.50	75.78
Reach 1	50899	1_BU				1.25	363.60	441.51	444.31		444.43	0.002606	1.77	317.75	413.08	0.51	71.67
Reach 1	50899	0p5_BU				1.29	389.40	441.51	444.35		444.47	0.002582	1.81	336.60	423.60	0.51	70.54
Reach 1	50899	0p5-CC-LC_BU				1.50	545.10	441.51	444.60		444.73	0.002497	1.97	452.29	539.39	0.51	65.49
Reach 1	50334	5_BU				1.02	290.80	440.40	442.61		442.73	0.002914	1.65	216.07	310.43	0.52	89.27
Reach 1	50334	1_BU				1.14	363.60	440.40	442.73		442.88	0.002951	1.79	257.36	333.37	0.53	87.44
Reach 1	50334	0p5_BU				1.18	389.40	440.40	442.77		442.93	0.002979	1.84	271.26	347.22	0.54	86.94
Reach 1	50334	0p5-CC-LC_BU				1.41	545.10	440.40	443.00		443.19	0.003073	2.10	356.59	431.66	0.56	84.15
Reach 1	49973	5_BU				0.95	290.80	439.55	441.75	441.29	441.84	0.002227	1.37	233.64	298.17	0.45	92.65
Reach 1	49973	1_BU				1.06	363.60	439.55	441.89	441.47	441.99	0.002209	1.47	275.80	315.71	0.46	91.24
Reach 1	49973	0p5_BU				1.11	389.40	439.55	441.93	441.50	442.04	0.002190	1.51	289.92	320.11	0.46	90.82
Reach 1	49973	0p5-CC-LC_BU				1.35	545.10	439.55	442.17	441.67	442.30	0.002137	1.70	371.89	372.72	0.47	88.82
Reach 1	49383	5_BU				1.08	290.80	437.54	440.17		440.29	0.002869	1.69	199.86	221.20	0.52	73.70
Reach 1	49383	1_BU				1.22	363.60	437.54	440.35		440.48	0.002705	1.78	241.99	244.73	0.51	72.61
Reach 1	49383	0p5_BU				1.25	389.40	437.54	440.41		440.55	0.002671	1.80	257.13	255.51	0.51	72.07
Reach 1	49383	0p5-CC-LC_BU				1.47	545.10	437.54	440.73		440.88	0.002472	1.92	355.69	365.82	0.51	69.86
Reach 1	49175	5_BU				1.05	290.80	437.30	439.65		439.78	0.001867	1.56	187.04	181.06	0.48	99.97
Reach 1	49175	1_BU				1.14	363.60	437.30	439.86		439.99	0.001806	1.61	226.96	208.03	0.48	99.86
Reach 1	49175	0p5_BU				1.17	389.40	437.30	439.93		440.06	0.001806	1.63	240.54	220.70	0.48	99.82
Reach 1	49175	0p5-CC-LC_BU				1.45	545.10	437.30	440.27		440.42	0.001764	1.74	324.90	263.71	0.46	99.05
Reach 1	49000	5_BU				1.18	290.80	436.74	439.25		439.40	0.002557	1.69	178.29	167.36	0.50	97.96
Reach 1	49000	1_BU				1.28	363.60	436.74	439.48		439.63	0.002432	1.75	219.88	196.73	0.49	97.18
Reach 1	49000	0p5_BU				1.33	389.40	436.74	439.55		439.70	0.002354	1.77	233.67	201.66	0.49	96.85
Reach 1	49000	0p5-CC-LC_BU				1.66	545.10	436.74	439.92		440.09	0.002001	1.89	315.20	239.18	0.47	95.08
Reach 1	48700	5_BU				1.35	290.80	435.90	438.75		438.85	0.001302	1.42	205.87	172.61	0.39	99.96
Reach 1	48700	1_BU				1.58	363.60	435.90	438.98		439.09	0.001309	1.51	241.68	181.33	0.38	99.84
Reach 1	48700	0p5_BU				1.65	389.40	435.90	439.05		439.17	0.001316	1.55	253.42	187.02	0.38	99.78
Reach 1	48700	0p5-CC-LC_BU				2.04	545.10	435.90	439.44		439.60	0.001365	1.74	320.13	249.20	0.39	99.16
Reach 1	48530	5_BU				1.59	290.80	435.46	438.32	437.75	438.54	0.002629	2.09	150.63	142.57	0.53	98.38
Reach 1	48530	1_BU				1.78	363.60	435.46	438.51	437.93	438.77	0.002700	2.28	180.97	168.63	0.55	96.73
Reach 1	48530	0p5_BU				1.85	389.40	435.46	438.58	437.99	438.85	0.002716	2.35	192.06	179.12	0.55	96.07
Reach 1	48530	0p5-CC-LC_BU				2.20	545.10	435.46	438.93	438.40	439.26	0.002704	2.63	266.40	241.42	0.57	91.85
Reach 1	48400	5_BU				1.46	290.80	435.59	438.01		438.20	0.002423	1.95	172.86	184.61	0.52	95.64
Reach 1	48400	1_BU				1.66	363.60	435.59	438.22		438.43	0.002378	2.10	213.74	214.62	0.52	93.57
Reach 1	48400	0p5_BU				1.73	389.40	435.59	438.29		438.50	0.002345	2.13	228.98	222.76	0.52	92.66
Reach 1	48400	0p5-CC-LC_BU				2.12	545.10	435.59	438.68		438.92	0.002109	2.30	327.11	289.27	0.50	87.41
Reach 1	48250	5_BU				1.37	290.80	435.03	437.51		437.76	0.003482	2.20	140.07	144.73	0.60	98.84
Reach 1	48250	1_BU				1.64	363.60	435.03	437.78		438.03	0.002897	2.25	181.47	171.22	0.56	96.52
Reach 1	48250	0p5_BU				1.73	389.40	435.03	437.87		438.12	0.002720	2.26	198.18	198.67	0.55	95.52
Reach 1	48250	0p5-CC-LC_BU				2.23	545.10	435.03	438.37		438.61	0.001971	2.28	312.05	249.54	0.49	88.82
Reach 1	48100	5_BU				1.61	290.80	434.27	437.19		437.36	0.001910	1.85	156.94	97.43	0.47	100.00
Reach 1	48100	1_BU				1.85	363.60	434.27	437.48		437.68	0.001763	1.95	186.56	100.80	0.46	100.00
Reach 1	48100	0p5_BU				1.93	389.40	434.27	437.58		437.78	0.001735	1.98	196.44	101.88	0.46	100.00
Reach 1	48100	0p5-CC-LC_BU				2.36	545.10	434.27	438.10		438.34	0.001592	2.17	250.81	107.83	0.45	99.99
Reach 1	48010	5_BU				1.94	290.80	433.89	436.99		437.19	0.001805	1.98	147.16	75.94	0.45	100.00
Reach 1	48010	1_BU				2.11	363.60	433.89	437.27		437.51	0.001956	2.15	168.83	79.84	0.47	100.00
Reach 1	48010	0p5_BU				2.19	389.40	433.89	437.36		437.61	0.001990	2.21	176.10	80.43	0.48	100.00
Reach 1	48010	0p5-CC-LC_BU				2.60	545.10	433.89	437.84		438.17	0.002150	2.53	215.66	83.57	0.50	100.00
Reach 1	47901	5_BU				2.30	290.80	433.20	436.85		437.02	0.001211	1.82	160.01	70.67	0.38	99.98
Reach 1	47901	1_BU				2.56	363.60	433.20	437.11		437.32	0.001325	2.04	178.42	71.58	0.41	99.93
Reach 1	47901	0p5_BU				2.64	389.40	433.20	437.20		437.42	0.001362	2.12	184.49	71.88	0.42	99.91
Reach 1	47901	0p5-CC-LC_BU				3.08	545.10	433.20	437.64		437.97	0.001583	2.53	216.81	73.45	0.46	99.72
Reach 1	47790	5_BU				2.18	290.80	433.56	436.76		436.88	0.001084	1.58	184.27	84.47	0.34	100.00
Reach 1	47790	1_BU				2.40	363.60	433.56	437.01		437.17	0.001214	1.77	205.87	85.91	0.36	100.00
Reach 1	47790	0p5_BU				2.47	389.40	433.56	437.09		437.26	0.001259	1.83	213.03	86.41	0.37	100.00
Reach 1	47790	0p5-CC-LC_BU				2.85	545.10	433.56	437.53		437.77	0.001494	2.17	251.40	88.35	0.41	100.00
Reach 1	47700	5_BU				1.92	290.80	433.03	436.61	435.48	436.77	0.001328	1.76	165.54	86.19	0.40	100.00
Reach 1	47700	1_BU				2.11	363.60	433.03	436.85	435.72	437.05	0.001455	1.95	186.14	88.07	0.43	100.00
Reach 1	47700	0p5_BU				2.18	389.40	433.03	436.93	435.81	437.14	0.001492	2.02	192.98	88.50	0.44	100.00
Reach 1	47700	0p5-CC-LC_BU				2.53	545.10	433.03	437.33	436.23	437.62	0.001722	2.38	229.29	90.52	0.48	100.00
Reach 1	47550	5_BU				1.58	290.80	433.60	436.34	435.62	436.52	0.002061	1.91	152.11	96.52	0.49	100.00
Reach 1	47550	1_BU				1.72	363.60	433.60	436.56	435.82	436.78	0.002155	2.09	173.91	100.94	0.51	100.00
Reach 1	47550	0p5_BU				1.77	389.40	433.60	436.63	435.88	436.86	0.002193	2.15	181.26	102.69	0.52	100.00
Reach 1	47550	0p5-CC-LC_BU				2.09	545.10	433.60	437.02	436.23	437.32	0.002326	2.45	223.79	114.98	0.54	99.91
Reach 1	47390	5_BU				1.63	290.80	434.08	436.11		436.23	0.001427	1.59	183.42	114.36	0.40	99.99
Reach 1	47390	1_BU				1.81	363.60	434.08	436.31		436.47	0.001529	1.76	207.47	116.78	0.42	99.96

HEC-RAS Plan: KR_Jam_2254 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	47390	0p5_BU				1.88	389.40	434.08	436.38		436.55	0.001561	1.81	215.49	117.95	0.42	99.95
Reach 1	47390	0p5-CC-LC_BU				2.24	545.10	434.08	436.75		436.98	0.001728	2.12	262.25	146.18	0.45	99.77
Reach 1	47300	5_BU				1.43	290.80	433.73	435.91		436.04	0.003485	1.62	179.96	125.61	0.43	100.00
Reach 1	47300	1_BU				1.63	363.60	433.73	436.11		436.27	0.003540	1.77	205.35	126.98	0.44	100.00
Reach 1	47300	0p5_BU				1.70	389.40	433.73	436.18		436.35	0.003556	1.82	213.76	127.58	0.45	99.99
Reach 1	47300	0p5-CC-LC_BU				2.05	545.10	433.73	436.53		436.76	0.003671	2.10	262.15	152.05	0.47	99.82
Reach 1	47150	5_BU				1.40	290.80	433.25	435.27		435.51	0.003443	2.23	149.59	144.87	0.60	94.89
Reach 1	47150	1_BU				1.61	363.60	433.25	435.48		435.75	0.003273	2.38	181.09	159.22	0.60	93.06
Reach 1	47150	0p5_BU				1.68	389.40	433.25	435.55		435.82	0.003222	2.43	192.33	165.15	0.60	92.45
Reach 1	47150	0p5-CC-LC_BU				2.05	545.10	433.25	435.91		436.25	0.003043	2.69	254.56	171.80	0.60	89.19
Reach 1	47000	5_BU				1.44	290.80	432.80	434.82		435.03	0.002826	2.04	149.81	122.95	0.54	98.23
Reach 1	47000	1_BU				1.64	363.60	432.80	435.05		435.29	0.002727	2.19	180.18	148.20	0.55	97.62
Reach 1	47000	0p5_BU				1.70	389.40	432.80	435.12		435.37	0.002716	2.24	191.08	153.99	0.55	97.29
Reach 1	47000	0p5-CC-LC_BU				2.07	545.10	432.80	435.52		435.82	0.002545	2.46	261.54	207.74	0.55	94.50
Reach 1	46850	5_BU				1.56	290.80	432.38	434.53		434.68	0.001816	1.75	174.99	123.07	0.45	97.58
Reach 1	46850	1_BU				1.78	363.60	432.38	434.77		434.94	0.001776	1.88	207.02	144.02	0.45	96.91
Reach 1	46850	0p5_BU				1.85	389.40	432.38	434.84		435.03	0.001767	1.93	218.18	151.02	0.45	96.64
Reach 1	46850	0p5-CC-LC_BU				2.27	545.10	432.38	435.26		435.49	0.001717	2.16	285.75	186.50	0.46	94.81
Reach 1	46700	5_BU				1.60	290.80	431.90	434.11	433.60	434.34	0.002740	2.15	147.10	175.94	0.54	96.00
Reach 1	46700	1_BU				1.77	363.60	431.90	434.34	433.77	434.60	0.002809	2.35	172.41	193.28	0.56	95.38
Reach 1	46700	0p5_BU				1.83	389.40	431.90	434.41	433.84	434.69	0.002806	2.41	181.30	199.81	0.57	95.03
Reach 1	46700	0p5-CC-LC_BU				2.23	545.10	431.90	434.80	434.14	435.15	0.002759	2.71	237.42	254.43	0.58	92.86
Reach 1	46513	5_BU				1.49	290.80	431.49	433.78	433.15	433.97	0.002342	1.91	154.98	120.66	0.50	99.67
Reach 1	46513	1_BU				1.67	363.60	431.49	434.00	433.33	434.22	0.002396	2.06	186.00	172.97	0.51	98.93
Reach 1	46513	0p5_BU				1.73	389.40	431.49	434.08	433.39	434.30	0.002390	2.11	198.88	186.15	0.51	98.50
Reach 1	46513	0p5-CC-LC_BU				2.09	545.10	431.49	434.52	433.73	434.77	0.002211	2.25	283.52	260.90	0.50	95.03
Reach 1	46503		Bridge														
Reach 1	46441	5_BU				1.62	290.80	431.25	433.57		433.76	0.002123	1.92	152.77	112.65	0.48	99.91
Reach 1	46441	1_BU				1.80	363.60	431.25	433.76		433.99	0.002298	2.14	176.62	141.74	0.51	99.31
Reach 1	46441	0p5_BU				1.86	389.40	431.25	433.82		434.07	0.002333	2.20	185.89	152.34	0.52	98.96
Reach 1	46441	0p5-CC-LC_BU				2.23	545.10	431.25	434.19		434.50	0.002366	2.50	251.16	236.92	0.53	95.98
Reach 1	46352	5_BU				1.16	290.80	430.67	432.98		433.26	0.005055	2.36	125.55	123.56	0.70	99.72
Reach 1	46352	1_BU				1.41	363.60	430.67	433.24		433.53	0.004007	2.38	159.15	131.58	0.64	98.94
Reach 1	46352	0p5_BU				1.49	389.40	430.67	433.33		433.61	0.003769	2.40	170.51	134.16	0.63	98.63
Reach 1	46352	0p5-CC-LC_BU				1.94	545.10	430.67	433.79		434.10	0.002896	2.51	238.20	154.35	0.57	96.94
Reach 1	46300	5_BU				1.70	290.80	430.65	432.93		433.08	0.001583	1.71	171.70	119.01	0.42	99.96
Reach 1	46300	1_BU				1.95	363.60	430.65	433.20		433.37	0.001518	1.83	206.94	140.81	0.42	99.34
Reach 1	46300	0p5_BU				2.04	389.40	430.65	433.29		433.46	0.001499	1.87	219.22	142.63	0.42	99.01
Reach 1	46300	0p5-CC-LC_BU				2.49	545.10	430.65	433.75		433.97	0.001428	2.09	287.14	149.14	0.42	97.10
Reach 1	46250	5_BU				1.74	290.80	430.61	432.83		433.00	0.001752	1.82	162.34	105.55	0.44	99.46
Reach 1	46250	1_BU				1.96	363.60	430.61	433.09		433.29	0.001720	1.96	191.40	114.61	0.45	98.65
Reach 1	46250	0p5_BU				2.04	389.40	430.61	433.18		433.38	0.001708	2.00	201.68	122.56	0.45	98.27
Reach 1	46250	0p5-CC-LC_BU				2.51	545.10	430.61	433.65		433.89	0.001595	2.22	261.33	132.53	0.45	95.76
Reach 1	46200	5_BU				1.66	290.80	430.41	432.71		432.90	0.002058	1.92	151.52	91.32	0.48	100.00
Reach 1	46200	1_BU				1.87	363.60	430.41	432.97		433.19	0.002034	2.07	176.33	98.68	0.48	99.95
Reach 1	46200	0p5_BU				1.96	389.40	430.41	433.06		433.29	0.002013	2.12	184.72	100.57	0.48	99.91
Reach 1	46200	0p5-CC-LC_BU				2.41	545.10	430.41	433.51		433.80	0.001946	2.39	235.66	123.76	0.49	99.29
Reach 1	46150	5_BU				1.92	290.80	430.24	432.65		432.81	0.001435	1.74	167.12	89.21	0.40	100.00
Reach 1	46150	1_BU				2.14	363.60	430.24	432.91		433.10	0.001548	1.92	190.29	92.40	0.42	99.95
Reach 1	46150	0p5_BU				2.22	389.40	430.24	432.99		433.19	0.001576	1.98	197.99	93.26	0.42	99.92
Reach 1	46150	0p5-CC-LC_BU				2.62	545.10	430.24	433.44		433.70	0.001723	2.29	242.39	116.91	0.45	99.66
Reach 1	46100	5_BU				1.91	290.80	430.02	432.55		432.73	0.001621	1.87	157.14	85.31	0.43	99.80
Reach 1	46100	1_BU				2.13	363.60	430.02	432.79		433.01	0.001711	2.07	177.99	87.33	0.45	99.69
Reach 1	46100	0p5_BU				2.21	389.40	430.02	432.87		433.10	0.001743	2.13	184.96	93.22	0.46	99.65
Reach 1	46100	0p5-CC-LC_BU				2.64	545.10	430.02	433.30		433.61	0.001859	2.48	239.16	152.57	0.49	98.73
Reach 1	46050	5_BU				1.54	290.80	429.81	432.31		432.60	0.003475	2.38	122.09	81.49	0.61	99.99
Reach 1	46050	1_BU				1.71	363.60	429.81	432.54		432.88	0.003482	2.60	140.55	87.79	0.63	99.92
Reach 1	46050	0p5_BU				1.78	389.40	429.81	432.61		432.97	0.003491	2.67	147.05	91.22	0.64	99.88
Reach 1	46050	0p5-CC-LC_BU				2.14	545.10	429.81	433.01		433.47	0.003473	3.02	190.52	130.22	0.66	99.14
Reach 1	46000	5_BU				1.68	290.80	429.73	432.16		432.44	0.002966	2.33	124.90	74.15	0.57	100.00
Reach 1	46000	1_BU				1.84	363.60	429.73	432.37		432.71	0.003250	2.59	140.85	82.12	0.61	99.99
Reach 1	46000	0p5_BU				1.87	389.40	429.73	432.44		432.80	0.003310	2.67	146.60	88.32	0.62	99.96
Reach 1	46000	0p5-CC-LC_BU				2.22	545.10	429.73	432.81		433.29	0.003592	3.10	184.94	118.94	0.66	99.27
Reach 1	45950	5_BU				1.55	290.80	429.64	432.02		432.28	0.003117	2.26	128.54	82.74	0.58	100.00
Reach 1	45950	1_BU				1.64	363.60	429.64	432.22		432.54	0.003252	2.49	145.75	88.90	0.62	100.00
Reach 1	45950	0p5_BU				1.65	389.40	429.64	432.29		432.63	0.003282	2.56	152.02	91.87	0.64	100.00
Reach 1	45950	0p5-CC-LC_BU				1.60	545.10	429.64	432.68		433.10	0.003370	2.85	192.07	124.34	0.72	99.93
Reach 1	45850	5_BU				1.50	290.80	429.47	431.81		431.99	0.002311	1.90	153.96	111.86	0.50	99.95
Reach 1	45850	1_BU				1.69	363.60	429.47	432.02		432.24	0.002353	2.08	177.77	114.68	0.51	99.74
Reach 1	45850	0p5_BU				1.75	389.40	429.47	432.09		432.32	0.002360	2.13	186.04	116.16	0.51	99.65
Reach 1	45850	0p5-CC-LC_BU				1.99	545.10	429.47	432.49		432.78	0.002380	2.40	235.92	142.88	0.54	99.02
Reach 1	45750	5_BU				1.30	290.80	429.31	431.53		431.73	0.002962	1.96	148.56	114.20	0.55	100.00
Reach 1	45750	1_BU				1.50	363.60	429.31	431.76		431.98	0.002758	2.08	174.90	118.27	0.54	99.99
Reach 1	45750	0p5_BU				1.57	389.40	429.31	431.84		432.07	0.002700	2.12	184.04	120.04	0.54	99.98
Reach 1	45750	0p5-CC-LC_BU				1.94	545.10	429.31	432.25		432.53	0.002553	2.34	235.28	128.54	0.54	99.81
Reach 1	45600	5_BU				1.58	290.80	429.06	431.22		431.38	0.001809	1.75	166.35	105.02	0.44	100.00
Reach 1	45600	1_BU				1.79	363.60	429.06	431.45		431.64	0.001821	1.90	191.18	106.84	0.45	100.00
Reach 1	45600	0p5_BU				1.86	389.40	429.06	431.53		431.73	0.001823	1.95	199.63	107.45	0.46	100.00
Reach 1	45600	0p5-CC-LC_BU				2.18	545.10	429.06	431.93		432.19	0.001938	2.24	244.75	126.33	0.48	99.96
Reach 1	45400	5_BU				1.61	290.80	428.84	430.87		431.02	0.001698	1.71	170.86	115.10	0.43	99.90
Reach 1	45400	1_BU				1.83	363.60	428.84	431.11		431.28	0.001712	1.87	199.12	127.95	0.44	99.65
Reach 1	45400	0p5_BU				1.90	389.40	428.84	431.19		431.37	0.001700	1.91	209.63	132.14	0.44	99.49
Reach 1	45400	0p5-CC-LC_BU				2.26	545.10	428.84	431.57		431.81	0.001794	2.20	266.80	189.94	0.47	98.44
Reach 1	45200	5_BU				1.43	290.80	428.38	430.32		430.56	0.003209	2.18	135.45	102.76	0.58	99.76
Reach 1	45200	1_BU				1.61	363.60	428.38	430.54		430.82	0.003161	2.34	160.71	124.93	0.59	99.35
Reach 1	45200	0p5_BU				1.64	389.40	428.38	430.62		430.91	0.003214	2.38	170.77	134.50	0.59	99.19
Reach 1	45200	0p5-CC-LC_BU				1.96	545.10	428.38	430.99		431.34	0.003119	2.65	237.52	239.32	0.60	97.07
Reach 1	44985	5_BU				1.65	290.80	426.86	429.87		430.03	0.001765	1.77	165.94	114.91	0.44	99.87
Reach 1	44985	1_BU				1.88	363.60	426.86	430.10		430.29	0.001774	1.93	195.49	146.29	0.45	99.38
Reach 1	44985	0p5_BU				1.96	389.40	426.86	430.18		430.38	0.001781	1.99	206.80	162.46	0.45	99.07
Reach 1	44985	0p5-CC-LC_BU				2.34	545.10	426.86	430.56		430.81	0.001812	2.26	286.27	262.27	0.47	96.09
Reach 1	43733	5_BU				1.24	290.80	424.63	427.09		427.26	0.002842	1.85	167.20	154.71	0.53	91.67
Reach 1	43733	1_BU				1.33	363.60	424.63	427.24		427.44	0.002997	2.04	192.56	183.99	0.57	91.08
Reach 1	43733	0p5_BU				1.38	389.40	424.63	427.29		427.50	0.003027	2.10	202.47	195.79	0.57	90.86
Reach 1	43733	0p5-CC-LC_BU				1.64	545.10	424.63	427.56		427.82	0.003218	2.40	261.79	257.03	0.60	88.39
Reach 1	42697	5_BU				1.45	290.80	421.83	425.04	424.42	425.14	0.001612	1.54	289.57	457.65	0.41	77.28
Reach 1	42697	1_BU				1.58	363.60	421.83	425.17	424.76	425.27	0.001628	1.64	352.98	510.00	0.42	71.77

HEC-RAS Plan: KR_Jam_2254 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	42697	0p5_BU				1.62	389.40	421.83	425.21	424.81	425.32	0.001648	1.68	373.47	523.07	0.42	70.25
Reach 1	42697	0p5-CC-LC_BU				1.83	545.10	421.83	425.42	425.03	425.54	0.001731	1.86	487.42	580.10	0.44	62.80
Reach 1	41323	5_BU				0.87	290.80	419.47	421.45		421.64	0.004579	1.95	149.51	170.95	0.66	100.00
Reach 1	41323	1_BU				0.94	363.60	419.47	421.63		421.83	0.004330	1.99	183.53	214.64	0.65	99.96
Reach 1	41323	0p5_BU				0.98	389.40	419.47	421.69		421.90	0.004169	1.99	198.57	264.10	0.64	99.83
Reach 1	41323	0p5-CC-LC_BU				1.08	545.10	419.47	422.01		422.20	0.003660	1.98	308.47	435.93	0.61	95.73
Reach 1	40285	5_BU				1.48	290.80	416.85	419.58		419.62	0.001019	1.23	364.00	463.45	0.32	42.98
Reach 1	40285	1_BU				1.61	363.60	416.85	419.71		419.77	0.001082	1.35	436.90	572.89	0.34	41.14
Reach 1	40285	0p5_BU				1.66	389.40	416.85	419.76		419.81	0.001117	1.40	463.34	605.72	0.35	40.85
Reach 1	40285	0p5-CC-LC_BU				1.86	545.10	416.85	419.96		420.02	0.001281	1.61	590.93	671.87	0.38	37.73
Reach 1	39051	5_BU				0.78	290.80	414.48	417.40		417.47	0.005561	1.25	271.84	600.83	0.45	81.24
Reach 1	39051	1_BU				0.81	363.60	414.48	417.53		417.59	0.005291	1.21	362.97	757.27	0.43	74.59
Reach 1	39051	0p5_BU				0.84	389.40	414.48	417.57		417.63	0.005082	1.21	390.87	792.72	0.42	72.93
Reach 1	39051	0p5-CC-LC_BU				1.01	545.10	414.48	417.76		417.82	0.004222	1.24	561.04	981.88	0.39	65.70
Reach 1	38622	5_BU				0.85	290.80	413.89	416.80		416.82	0.000728	0.71	516.75	959.14	0.25	85.48
Reach 1	38622	1_BU				0.96	363.60	413.89	416.92		416.95	0.000767	0.75	634.79	1138.44	0.24	82.78
Reach 1	38622	0p5_BU				0.99	389.40	413.89	416.96		416.99	0.000780	0.76	674.47	1183.00	0.24	81.85
Reach 1	38622	0p5-CC-LC_BU				1.18	545.10	413.89	417.15		417.18	0.000881	0.85	880.71	1364.67	0.25	77.47
Reach 1	38155	5_BU				1.50	290.80	413.94	415.97	415.74	416.22	0.003668	2.39	195.91	409.83	0.62	85.16
Reach 1	38155	1_BU				1.70	363.60	413.94	416.18	416.00	416.40	0.003031	2.35	297.89	589.59	0.58	76.21
Reach 1	38155	0p5_BU				1.76	389.40	413.94	416.25	416.06	416.45	0.002842	2.33	339.06	658.08	0.56	73.34
Reach 1	38155	0p5-CC-LC_BU				2.07	545.10	413.94	416.57		416.72	0.002045	2.20	577.66	923.21	0.49	58.56
Reach 1	37333	5_BU				1.97	290.80	411.14	413.98		414.18	0.001838	2.03	162.39	147.21	0.46	97.40
Reach 1	37333	1_BU				2.14	363.60	411.14	414.16		414.41	0.002097	2.29	193.70	206.09	0.50	95.78
Reach 1	37333	0p5_BU				2.19	389.40	411.14	414.21		414.48	0.002200	2.38	204.03	216.08	0.51	95.12
Reach 1	37333	0p5-CC-LC_BU				2.42	545.10	411.14	414.43	413.86	414.83	0.002893	2.91	260.90	288.77	0.60	91.88
Reach 1	36316	5_BU				1.61	290.80	409.47	411.96	411.57	412.13	0.002447	2.05	234.55	523.28	0.52	79.39
Reach 1	36316	1_BU				1.70	363.60	409.47	412.13	411.80	412.29	0.002335	2.07	339.93	712.35	0.51	71.16
Reach 1	36316	0p5_BU				1.74	389.40	409.47	412.17		412.33	0.002298	2.09	371.42	742.01	0.51	68.69
Reach 1	36316	0p5-CC-LC_BU				1.96	545.10	409.47	412.41		412.55	0.002050	2.14	565.26	901.25	0.49	57.14
Reach 1	34806	5_BU				1.37	290.80	406.69	408.63		408.76	0.002135	1.72	201.64	182.57	0.47	89.52
Reach 1	34806	1_BU				1.54	363.60	406.69	408.81		408.97	0.002203	1.89	235.91	195.52	0.49	89.16
Reach 1	34806	0p5_BU				1.60	389.40	406.69	408.86		409.04	0.002219	1.94	247.23	198.71	0.49	88.67
Reach 1	34806	0p5-CC-LC_BU				1.88	545.10	406.69	409.18		409.40	0.002331	2.21	311.80	218.53	0.51	86.43
Reach 1	33067	5_BU				1.28	290.80	401.87	404.17	403.67	404.37	0.003085	1.98	147.41	118.96	0.56	99.97
Reach 1	33067	1_BU				1.48	363.60	401.87	404.38	403.86	404.61	0.002932	2.12	173.19	130.78	0.56	99.85
Reach 1	33067	0p5_BU				1.54	389.40	401.87	404.45	403.92	404.69	0.002891	2.17	182.11	155.91	0.56	99.77
Reach 1	33067	0p5-CC-LC_BU				1.92	545.10	401.87	404.83	404.22	405.12	0.002649	2.40	247.57	382.55	0.55	98.64
Reach 1	32800	5_BU				1.52	290.80	401.32	403.49	402.90	403.67	0.002219	1.88	154.88	239.36	0.49	100.00
Reach 1	32800	1_BU				1.73	363.60	401.32	403.71	403.06	403.93	0.002225	2.05	177.45	273.89	0.50	100.00
Reach 1	32800	0p5_BU				1.80	389.40	401.32	403.78	403.11	404.01	0.002229	2.11	184.83	289.60	0.50	100.00
Reach 1	32800	0p5-CC-LC_BU				2.18	545.10	401.32	404.17	403.40	404.47	0.002279	2.43	228.17	557.20	0.52	99.82
Reach 1	32550	5_BU				1.26	290.80	400.66	402.50	402.23	402.84	0.005302	2.57	113.98	152.21	0.73	99.84
Reach 1	32550	1_BU				1.36	363.60	400.66	402.66	402.43	403.07	0.005589	2.84	129.57	179.81	0.78	99.59
Reach 1	32550	0p5_BU				1.39	389.40	400.66	402.71	402.50	403.15	0.005678	2.93	135.02	192.11	0.79	99.49
Reach 1	32550	0p5-CC-LC_BU				1.64	545.10	400.66	402.99	402.85	403.56	0.006127	3.38	167.97	300.80	0.84	98.50
Reach 1	32400	5_BU				1.58	290.80	400.20	402.24	401.71	402.35	0.001660	1.67	221.26	182.99	0.42	66.96
Reach 1	32400	1_BU				1.76	363.60	400.20	402.43	401.83	402.55	0.001686	1.80	255.26	184.97	0.43	64.53
Reach 1	32400	0p5_BU				1.81	389.40	400.20	402.49	401.87	402.62	0.001697	1.85	266.47	185.95	0.44	63.85
Reach 1	32400	0p5-CC-LC_BU				2.12	545.10	400.20	402.81	402.10	402.98	0.001778	2.09	329.62	216.26	0.46	60.88
Reach 1	32250	5_BU				1.31	290.80	399.61	401.80	401.40	402.00	0.003433	2.12	161.25	163.77	0.59	80.23
Reach 1	32250	1_BU				1.46	363.60	399.61	401.98	401.54	402.20	0.003435	2.27	188.69	178.62	0.60	77.91
Reach 1	32250	0p5_BU				1.51	389.40	399.61	402.03	401.59	402.26	0.003452	2.32	198.09	186.55	0.60	77.22
Reach 1	32250	0p5-CC-LC_BU				1.78	545.10	399.61	402.33	401.92	402.61	0.003472	2.57	259.95	255.12	0.61	73.41
Reach 1	32150	5_BU				1.19	290.80	399.22	401.47	401.05	401.64	0.003328	1.96	169.41	184.02	0.57	84.50
Reach 1	32150	1_BU				1.37	363.60	399.22	401.67	401.23	401.85	0.003003	2.05	208.48	212.22	0.56	82.47
Reach 1	32150	0p5_BU				1.44	389.40	399.22	401.73	401.34	401.92	0.002895	2.07	222.40	219.43	0.55	81.55
Reach 1	32150	0p5-CC-LC_BU				1.78	545.10	399.22	402.08	401.60	402.28	0.002452	2.20	308.93	296.86	0.53	76.75
Reach 1	32000	5_BU				1.68	290.80	398.64	400.98	400.53	401.20	0.002630	2.18	159.88	147.63	0.54	87.02
Reach 1	32000	1_BU				1.88	363.60	398.64	401.20	400.72	401.44	0.002538	2.32	194.64	179.98	0.54	83.51
Reach 1	32000	0p5_BU				1.95	389.40	398.64	401.27	400.81	401.52	0.002515	2.36	207.77	195.12	0.54	82.39
Reach 1	32000	0p5-CC-LC_BU				2.32	545.10	398.64	401.66	401.12	401.92	0.002344	2.56	305.75	296.10	0.54	76.30
Reach 1	31850	5_BU				1.59	290.80	398.07	400.43	400.12	400.73	0.003690	2.50	133.22	122.53	0.63	91.60
Reach 1	31850	1_BU				1.72	363.60	398.07	400.59	400.31	400.95	0.004174	2.79	153.89	150.35	0.68	89.63
Reach 1	31850	0p5_BU				1.76	389.40	398.07	400.63	400.38	401.02	0.004321	2.88	161.30	154.87	0.70	88.88
Reach 1	31850	0p5-CC-LC_BU				1.95	545.10	398.07	400.88	400.77	401.39	0.005217	3.40	205.77	217.32	0.78	85.48
Reach 1	31700	5_BU				1.39	290.80	397.52	400.25	399.45	400.34	0.001320	1.37	246.24	267.26	0.37	86.74
Reach 1	31700	1_BU				1.51	363.60	397.52	400.40	399.59	400.51	0.001421	1.52	286.73	308.82	0.39	85.15
Reach 1	31700	0p5_BU				1.55	389.40	397.52	400.45	399.64	400.56	0.001462	1.57	299.96	320.41	0.40	84.69
Reach 1	31700	0p5-CC-LC_BU				1.77	545.10	397.52	400.69	399.93	400.84	0.001682	1.83	374.94	391.65	0.44	81.88
Reach 1	31597	5_BU				0.92	290.80	397.42	400.05	399.59	400.14	0.002506	1.42	235.52	326.55	0.47	74.31
Reach 1	31597	1_BU				1.01	363.60	397.42	400.21	399.70	400.30	0.002423	1.49	289.03	379.21	0.47	72.89
Reach 1	31597	0p5_BU				1.04	389.40	397.42	400.25	399.72	400.35	0.002396	1.51	307.26	399.15	0.47	72.44
Reach 1	31597	0p5-CC-LC_BU				1.25	545.10	397.42	400.49	399.95	400.60	0.002349	1.69	408.41	450.78	0.48	71.28
Reach 1	31500	5_BU				0.78	290.80	398.07	399.86	399.39	399.96	0.002083	1.17	233.01	292.38	0.42	28.63
Reach 1	31500	1_BU				0.88	363.60	398.07	400.00	399.53	400.12	0.002171	1.29	279.31	339.48	0.44	30.07
Reach 1	31500	0p5_BU				0.92	389.40	398.07	400.05	399.58	400.17	0.002194	1.34	295.18	354.10	0.45	30.67
Reach 1	31500	0p5-CC-LC_BU				1.15	545.10	398.07	400.29	399.81	400.42	0.002254	1.57	388.19	427.14	0.47	32.57
Reach 1	31400	5_BU				0.76	290.80	397.82	399.63	399.31	399.78	0.003235	1.39	208.92	300.13	0.51	34.05
Reach 1	31400	1_BU				0.90	363.60	397.82	399.78	399.50	399.93	0.003148	1.49	257.27	350.22	0.50	35.24
Reach 1	31400	0p5_BU				0.94	389.40	397.82	399.83	399.54	399.98	0.003156	1.53	273.08	363.11	0.50	35.42
Reach 1	31400	0p5-CC-LC_BU				1.15	545.10	397.82	400.06	399.75	400.22	0.003275	1.77	368.15	496.94	0.53	36.56
Reach 1	31350	5_BU				0.86	290.80	397.71	399.57	399.10	399.67	0.002272	1.30	241.31	292.39	0.45	39.11
Reach 1	31350	1_BU				0.98	363.60	397.71	399.72	399.25	399.83	0.002271	1.42	286.82	341.85	0.46	40.16
Reach 1	31350	0p5_BU				1.02	389.40	397.71	399.76	399.29	399.87	0.002302	1.47	301.60	360.14	0.46	40.47
Reach 1	31350	0p5-CC-LC_BU				1.23	545.10	397.71	399.98	399.51	400.12	0.002510	1.73	396.98	539.59	0.50	41.54
Reach 1	31300	5_BU				0.80	290.80	397.60	399.41	399.11	399.56	0.003833	1.62	201.57	281.10	0.58	39.00
Reach 1	31300	1_BU				0.81	363.60	397.60	399.56	399.28	399.72	0.003778	1.62	249.77	353.38	0.57	37.78
Reach 1	31300	0p5_BU				0.85	389.40	397.60	399.61	399.32	399.77	0.003707	1.65	266.05	369.11	0.57	38.09
Reach 1	31300	0p5-CC-LC_BU				1.05	545.10	397.60	399.84	399.57	400.01	0.003519	1.86	365.81	526.64	0.58	39.01
Reach 1	31250	5_BU				0.89	290.80	397.53	399.33	398.88	399.43	0.002294	1.36	245.07	340.96	0.46	44.27
Reach 1	31250	1_BU				0.94	363.60	397.53	399.49	399.00	399.59	0.002229	1.41	307.79	460.73	0.46	43.53
Reach 1	31250	0p5_BU				0.98	389.40	397.53	399.54	399.04	399.64	0.002205	1.43	330.34	489.06	0.46	43.50
Reach 1	31250	0p5-CC-LC_BU				1.22	545.10	397.53	399.78	399.30	399.88	0.002139	1.58	465.87	629.21	0.46	42.77
Reach 1	31200	5_BU				1.33	290.80	397.38	399.24	398.63	399.33	0.001518	1.47	254.08	325.28	0.41	56.44
Reach 1	31200	1_BU				1.44	363.60	397.38	399.39	398.78	399.49	0.001553	1.58	310.79	424.91	0.42	54.11
Reach 1	31200	0p5_BU				1.48	389.40	397.38	399.43	398.82	399.54	0.001583	1.62	330.42	458.85	0.42	53.45
Reach 1	31200	0p5-CC-LC_BU				1.70	545.10	397.38	399.66	399.06	399.78	0.001726	1.82	450.87	616.40	0.45	49.44

HEC-RAS Plan: KR_Jam_2254 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	31150	5_BU				1.04	290.80	397.22	399.14	398.64	399.21	0.001741	1.33	257.24	326.91	0.42	52.41
Reach 1	31150	1_BU				1.15	363.60	397.22	399.30	398.77	399.38	0.001641	1.39	321.59	483.50	0.42	50.88
Reach 1	31150	0p5_BU				1.18	389.40	397.22	399.34	398.80	399.42	0.001641	1.42	344.27	532.59	0.42	50.42
Reach 1	31150	0p5-CC-LC_BU				1.40	545.10	397.22	399.56	398.97	399.65	0.001672	1.58	476.07	652.08	0.43	47.47
Reach 1	31100	5_BU				0.99	290.80	397.05	398.70	398.44	398.89	0.004251	1.95	166.74	233.61	0.63	40.59
Reach 1	31100	1_BU				1.06	363.60	397.05	398.85	398.58	399.05	0.004369	2.07	210.37	341.55	0.64	39.98
Reach 1	31100	0p5_BU				1.08	389.40	397.05	398.90	398.64	399.10	0.004300	2.09	228.54	385.70	0.64	39.39
Reach 1	31100	0p5-CC-LC_BU				1.22	545.10	397.05	399.15	398.97	399.33	0.004043	2.20	344.36	565.57	0.63	36.81
Reach 1	31050	5_BU				0.97	290.80	396.94	398.59	398.23	398.71	0.003218	1.68	210.21	326.75	0.54	34.84
Reach 1	31050	1_BU				1.02	363.60	396.94	398.77	398.38	398.88	0.002926	1.70	276.50	455.86	0.54	33.42
Reach 1	31050	0p5_BU				1.03	389.40	396.94	398.82	398.43	398.93	0.002839	1.69	302.51	494.89	0.53	32.78
Reach 1	31050	0p5-CC-LC_BU				1.20	545.10	396.94	399.08	398.66	399.18	0.002458	1.75	448.04	624.49	0.51	30.76
Reach 1	31011	5_BU				1.05	290.80	396.85	398.45	397.94	398.53	0.002083	1.42	228.66	256.32	0.44	31.12
Reach 1	31011	1_BU				1.11	363.60	396.85	398.62	398.07	398.71	0.002190	1.52	278.90	338.29	0.46	31.04
Reach 1	31011	0p5_BU				1.13	389.40	396.85	398.67	398.10	398.76	0.002193	1.54	297.78	362.23	0.46	30.82
Reach 1	31011	0p5-CC-LC_BU				1.33	545.10	396.85	398.93	398.30	399.03	0.002015	1.64	406.26	484.58	0.45	29.22
Reach 1	30950	5_BU				0.97	290.80	396.52	398.25	397.77	398.33	0.001794	1.26	231.49	266.14	0.41	38.07
Reach 1	30950	1_BU				1.12	363.60	396.52	398.41	397.87	398.50	0.001755	1.36	278.52	309.57	0.41	38.62
Reach 1	30950	0p5_BU				1.16	389.40	396.52	398.46	397.91	398.56	0.001774	1.41	295.17	327.39	0.42	38.94
Reach 1	30950	0p5-CC-LC_BU				1.39	545.10	396.52	398.72	398.09	398.83	0.001880	1.63	390.43	406.78	0.44	39.58
Reach 1	30850	5_BU				0.79	290.80	395.91	398.09	397.56	398.16	0.002221	1.21	243.81	299.81	0.44	83.68
Reach 1	30850	1_BU				0.85	363.60	395.91	398.27	397.67	398.34	0.002048	1.22	301.50	348.46	0.42	84.05
Reach 1	30850	0p5_BU				0.88	389.40	395.91	398.32	397.71	398.39	0.001994	1.24	320.52	360.29	0.42	84.26
Reach 1	30850	0p5-CC-LC_BU				1.06	545.10	395.91	398.58	397.92	398.67	0.001840	1.34	427.59	445.43	0.42	86.28
Reach 1	30750	5_BU				0.90	290.80	395.77	397.74	397.37	397.90	0.004050	1.79	164.36	184.96	0.60	71.54
Reach 1	30750	1_BU				0.89	363.60	395.77	397.92	397.55	398.09	0.004136	1.79	201.00	223.13	0.61	70.17
Reach 1	30750	0p5_BU				0.90	389.40	395.77	397.98	397.60	398.15	0.004135	1.80	214.43	241.83	0.61	69.93
Reach 1	30750	0p5-CC-LC_BU				1.04	545.10	395.77	398.27	397.85	398.44	0.003805	1.90	305.91	391.15	0.59	71.76
Reach 1	30650	5_BU				1.18	290.80	395.40	397.49	396.94	397.62	0.002465	1.67	194.99	221.56	0.49	83.41
Reach 1	30650	1_BU				1.28	363.60	395.40	397.68	397.11	397.82	0.002400	1.74	239.44	254.17	0.49	81.09
Reach 1	30650	0p5_BU				1.32	389.40	395.40	397.74	397.16	397.88	0.002357	1.76	255.24	268.13	0.49	80.31
Reach 1	30650	0p5-CC-LC_BU				1.60	545.10	395.40	398.03	397.45	398.19	0.002214	1.95	357.35	439.55	0.49	77.42
Reach 1	30396	5_BU				1.66	290.80	394.21	396.80	396.46	397.02	0.002645	2.21	172.68	188.02	0.55	84.13
Reach 1	30396	1_BU				1.82	363.60	394.21	397.01	396.63	397.23	0.002568	2.31	213.96	220.11	0.55	79.47
Reach 1	30396	0p5_BU				1.89	389.40	394.21	397.08	396.70	397.31	0.002524	2.34	231.02	247.24	0.54	78.03
Reach 1	30396	0p5-CC-LC_BU				2.22	545.10	394.21	397.44	396.98	397.67	0.002348	2.48	343.72	380.74	0.53	70.40
Reach 1	30150	5_BU				1.58	290.80	393.70	396.10	395.64	396.34	0.003033	2.26	148.74	149.69	0.57	92.47
Reach 1	30150	1_BU				1.74	363.60	393.70	396.26	395.91	396.55	0.003242	2.49	174.86	170.30	0.60	89.98
Reach 1	30150	0p5_BU				1.79	389.40	393.70	396.31	395.97	396.62	0.003340	2.58	184.11	178.66	0.61	89.64
Reach 1	30150	0p5-CC-LC_BU				2.09	545.10	393.70	396.61	396.32	396.99	0.003592	2.96	244.33	237.39	0.65	85.36
Reach 1	29887	5_BU				1.03	290.80	393.58	395.39	394.94	395.51	0.002743	1.61	186.54	186.83	0.51	93.32
Reach 1	29887	1_BU				1.18	363.60	393.58	395.55	395.06	395.70	0.002643	1.72	218.27	196.00	0.51	92.95
Reach 1	29887	0p5_BU				1.23	389.40	393.58	395.60	395.11	395.76	0.002622	1.77	228.56	197.08	0.51	92.83
Reach 1	29887	0p5-CC-LC_BU				1.51	545.10	393.58	395.90	395.35	396.09	0.002549	1.98	287.57	206.61	0.51	92.17
Reach 1	29585	5_BU				1.06	290.80	392.36	394.38	394.02	394.56	0.003708	1.90	152.99	148.27	0.59	99.97
Reach 1	29585	1_BU				1.16	363.60	392.36	394.54	394.16	394.75	0.003795	2.05	178.19	158.79	0.61	99.84
Reach 1	29585	0p5_BU				1.21	389.40	392.36	394.59	394.20	394.81	0.003817	2.11	185.94	160.12	0.61	99.79
Reach 1	29585	0p5-CC-LC_BU				1.43	545.10	392.36	394.88	394.48	395.16	0.003775	2.35	234.95	170.80	0.63	99.42
Reach 1	29234	5_BU				1.19	290.80	391.76	393.33	392.89	393.48	0.002557	1.71	174.72	166.81	0.50	99.33
Reach 1	29234	1_BU				1.37	363.60	391.76	393.52	393.02	393.69	0.002432	1.84	206.79	175.25	0.50	98.80
Reach 1	29234	0p5_BU				1.44	389.40	391.76	393.58	393.06	393.76	0.002400	1.88	217.64	177.22	0.50	98.59
Reach 1	29234	0p5-CC-LC_BU				1.77	545.10	391.76	393.92	393.30	394.14	0.002290	2.11	280.91	203.76	0.51	97.62
Reach 1	28752	5_BU				1.40	290.80	389.58	392.10	391.58	392.25	0.002521	1.77	181.42	168.69	0.48	95.80
Reach 1	28752	1_BU				1.56	363.60	389.58	392.27	391.74	392.46	0.002664	1.95	211.99	178.58	0.50	94.78
Reach 1	28752	0p5_BU				1.62	389.40	389.58	392.33	391.79	392.53	0.002710	2.01	222.14	182.22	0.50	94.34
Reach 1	28752	0p5-CC-LC_BU				1.90	545.10	389.58	392.63	392.06	392.88	0.002952	2.30	279.45	201.07	0.53	91.84
Reach 1	27904	5_BU				1.21	290.80	387.11	389.64		389.81	0.003390	1.98	170.90	190.32	0.58	80.82
Reach 1	27904	1_BU				1.37	363.60	387.11	389.80		389.99	0.003247	2.11	203.75	204.39	0.58	78.31
Reach 1	27904	0p5_BU				1.43	389.40	387.11	389.86		390.06	0.003200	2.15	215.04	208.53	0.58	77.48
Reach 1	27904	0p5-CC-LC_BU				1.73	545.10	387.11	390.15		390.38	0.002988	2.36	288.26	296.64	0.57	73.34
Reach 1	27650	5_BU				1.24	290.80	386.21	388.61	388.26	388.83	0.003776	2.14	150.64	151.08	0.61	88.65
Reach 1	27650	1_BU				1.41	363.60	386.21	388.79	388.45	389.04	0.003687	2.30	178.10	158.42	0.62	87.18
Reach 1	27650	0p5_BU				1.47	389.40	386.21	388.85	388.49	389.11	0.003642	2.35	187.85	160.95	0.62	86.72
Reach 1	27650	0p5-CC-LC_BU				1.81	545.10	386.21	389.21	388.75	389.50	0.003283	2.55	260.03	263.35	0.61	83.66
Reach 1	27359	5_BU				1.33	290.80	385.38	387.54	387.14	387.78	0.003540	2.17	134.16	101.12	0.60	100.00
Reach 1	27359	1_BU				1.54	363.60	385.38	387.76	387.30	388.03	0.003304	2.32	157.05	103.33	0.60	100.00
Reach 1	27359	0p5_BU				1.62	389.40	385.38	387.83	387.36	388.12	0.003245	2.37	164.70	104.75	0.59	99.99
Reach 1	27359	0p5-CC-LC_BU				2.03	545.10	385.38	388.25	387.65	388.60	0.002963	2.63	209.90	115.86	0.59	99.77
Reach 1	27150	5_BU				1.76	290.80	383.59	387.01	386.21	387.21	0.002056	2.00	145.82	85.60	0.48	99.98
Reach 1	27150	1_BU				1.95	363.60	383.59	387.21	386.41	387.47	0.002246	2.24	163.45	88.80	0.51	99.90
Reach 1	27150	0p5_BU				2.02	389.40	383.59	387.28	386.49	387.55	0.002305	2.32	169.33	89.72	0.52	99.85
Reach 1	27150	0p5-CC-LC_BU				2.39	545.10	383.59	387.64	386.88	388.02	0.002571	2.74	203.33	97.32	0.57	99.48
Reach 1	26869	5_BU				1.19	290.80	383.32	385.95	385.76	386.28	0.005851	2.58	115.76	105.03	0.76	99.09
Reach 1	26869	1_BU				1.41	363.60	383.32	386.17	385.92	386.54	0.005071	2.70	139.82	108.76	0.72	98.62
Reach 1	26869	0p5_BU				1.49	389.40	383.32	386.25	385.98	386.62	0.004901	2.74	147.80	110.13	0.72	98.44
Reach 1	26869	0p5-CC-LC_BU				1.87	545.10	383.32	386.63	386.27	387.09	0.004355	3.02	191.67	116.18	0.70	97.46
Reach 1	26650	5_BU				2.06	290.80	382.27	385.62	384.53	385.75	0.001116	1.63	184.95	108.85	0.36	98.62
Reach 1	26650	1_BU				2.27	363.60	382.27	385.83	384.73	386.00	0.001253	1.85	208.28	116.04	0.39	98.01
Reach 1	26650	0p5_BU				2.34	389.40	382.27	385.89	384.80	386.08	0.001299	1.92	216.04	117.45	0.40	97.79
Reach 1	26650	0p5-CC-LC_BU				2.69	545.10	382.27	386.24	385.17	386.51	0.001557	2.30	263.14	161.27	0.45	96.53
Reach 1	26500	5_BU				2.02	290.80	382.41	385.47	384.32	385.59	0.001068	1.57	199.61	118.76	0.35	97.11
Reach 1	26500	1_BU				2.20	363.60	382.41	385.65	384.56	385.81	0.001232	1.79	223.44	139.91	0.39	96.58
Reach 1	26500	0p5_BU				2.26	389.40	382.41	385.71	384.64	385.88	0.001288	1.86	231.85	143.68	0.40	96.36
Reach 1	26500	0p5-CC-LC_BU				2.57	545.10	382.41	386.02	384.98	386.27	0.001596	2.26	285.04	212.49	0.45	94.95
Reach 1	26363	5_BU				1.46	290.80	382.60	385.21		385.37	0.002217	1.82	190.65	202.42	0.48	94.44
Reach 1	26363	1_BU				1.62	363.60	382.60	385.37		385.56	0.002333	2.00	225.75	245.53	0.50	92.33
Reach 1	26363	0p5_BU				1.67	389.40	382.60	385.42		385.62	0.002360	2.06	239.74	274.47	0.51	91.55
Reach 1	26363	0p5-CC-LC_BU				1.96	545.10	382.60	385.71	385.21	385.96	0.002461	2.34	338.43	392.24	0.53	87.26
Reach 1	26186	5_BU				1.27	290.80	382.60	384.44	384.30	384.73	0.005572	2.64	138.54	200.60	0.75	78.27
Reach 1	26186	1_BU				1.41	363.60	382.60	384.59	384.50	384.91	0.005502	2.80	171.00	229.70	0.75	74.32
Reach 1	26186	0p5_BU				1.44	389.40	382.60	384.63	384.54	384.96	0.005568	2.87	180.96	240.98	0.76	73.17
Reach 1	26186	0p5-CC-LC_BU				1.63	545.10	382.60	384.85	384.79	385.25	0.006135	3.26	241.78	350.55	0.82	68.24
Reach 1	26100	5_BU				1.43	290.80	382.20	384.35	383.84	384.46	0.001785	1.61	218.82	266.68	0.43	52.58
Reach 1	26100	1_BU				1.52	363.60	382.20	384.51	383.98	384.63	0.001863	1.72	267.68	346.89	0.45	49.97
Reach 1	26100	0p5_BU				1.56	389.40	382.20	384.56	384.02	384.67	0.001895	1.76	283.63	360.06	0.45	49.11
Reach 1	26100	0p5-CC-LC_BU				1.71	545.10	382.20	384.77	384.26	384.92	0.002200	2.02	371.34	461.96	0.49	45.90
Reach 1	25969	5_BU				1.06	290.80	381.43	384.01	383.68	384.17	0.003714	1.91	183.13	271.43	0.59	72.64

HEC-RAS Plan: KR_Jam_2254 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	25969	1_BU				1.20	363.60	381.43	384.20	383.85	384.35	0.003150	1.91	247.06	414.87	0.56	68.88
Reach 1	25969	0p5_BU				1.24	389.40	381.43	384.25	383.95	384.40	0.003123	1.95	266.37	442.54	0.56	68.00
Reach 1	25969	0p5-CC-LC_BU				1.47	545.10	381.43	384.49	384.16	384.64	0.002691	2.02	384.52	525.05	0.53	60.43
Reach 1	25849	5_BU				1.47	290.80	380.61	383.22	383.14	383.66	0.006096	3.04	109.19	114.49	0.80	89.89
Reach 1	25849	1_BU				1.57	363.60	380.61	383.43	383.39	383.89	0.006150	3.19	137.99	159.38	0.81	86.39
Reach 1	25849	0p5_BU				1.60	389.40	380.61	383.50	383.49	383.95	0.005963	3.18	149.97	170.85	0.80	84.34
Reach 1	25849	0p5-CC-LC_BU				1.75	545.10	380.61	383.82	383.80	384.27	0.005659	3.29	215.39	255.25	0.79	75.34
Reach 1	25750	5_BU				1.68	290.80	379.67	383.13	382.59	383.28	0.001855	1.90	204.16	215.40	0.47	82.34
Reach 1	25750	1_BU				1.75	363.60	379.67	383.37	382.79	383.52	0.001721	1.92	266.43	302.58	0.46	76.74
Reach 1	25750	0p5_BU				1.80	389.40	379.67	383.45	382.84	383.60	0.001686	1.92	291.44	350.73	0.46	75.13
Reach 1	25750	0p5-CC-LC_BU				2.12	545.10	379.67	383.82	383.09	383.95	0.001449	1.95	459.90	547.44	0.43	65.55
Reach 1	25700	5_BU				2.04	290.80	379.24	382.84	382.01	383.15	0.002751	2.52	130.86	141.75	0.56	95.98
Reach 1	25700	1_BU				2.15	363.60	379.24	383.05	382.34	383.39	0.002957	2.70	163.50	173.70	0.59	91.04
Reach 1	25700	0p5_BU				2.21	389.40	379.24	383.12	382.55	383.47	0.002939	2.75	176.17	187.98	0.59	89.28
Reach 1	25700	0p5-CC-LC_BU				2.52	545.10	379.24	383.45	383.26	383.83	0.002929	2.99	251.31	269.96	0.60	79.86
Reach 1	25650	5_BU				2.27	290.80	379.37	382.84	381.72	383.02	0.001474	1.99	180.63	202.08	0.42	90.34
Reach 1	25650	1_BU				2.36	363.60	379.37	383.07	381.99	383.25	0.001512	2.07	235.53	279.42	0.43	82.98
Reach 1	25650	0p5_BU				2.36	389.40	379.37	383.15	382.10	383.33	0.001520	2.07	258.39	300.83	0.43	80.21
Reach 1	25650	0p5-CC-LC_BU				2.64	545.10	379.37	383.53	382.97	383.69	0.001314	2.07	382.70	352.01	0.41	66.96
Reach 1	25600	5_BU				2.15	290.80	379.47	382.73	381.76	382.94	0.001797	2.12	164.31	159.32	0.46	89.93
Reach 1	25600	1_BU				2.19	363.60	379.47	382.94	382.19	383.17	0.002016	2.27	200.26	194.66	0.49	84.75
Reach 1	25600	0p5_BU				2.21	389.40	379.47	383.01	382.32	383.25	0.002049	2.30	214.72	209.74	0.50	82.94
Reach 1	25600	0p5-CC-LC_BU				2.53	545.10	379.47	383.36	382.89	383.61	0.002047	2.52	303.82	304.77	0.51	74.84
Reach 1	25550	5_BU				1.75	290.80	379.57	382.76	382.08	382.85	0.001197	1.51	297.50	340.41	0.37	70.01
Reach 1	25550	1_BU				1.97	363.60	379.57	382.99	382.32	383.07	0.001045	1.53	378.98	382.31	0.35	64.04
Reach 1	25550	0p5_BU				2.04	389.40	379.57	383.06	382.46	383.15	0.000992	1.53	408.79	394.04	0.34	62.09
Reach 1	25550	0p5-CC-LC_BU				2.41	545.10	379.57	383.43	382.64	383.52	0.000893	1.62	564.13	460.89	0.33	55.28
Reach 1	25500	5_BU				1.84	290.80	379.67	382.62	381.71	382.77	0.001612	1.82	176.30	136.72	0.43	90.15
Reach 1	25500	1_BU				2.02	363.60	379.67	382.82	382.05	383.00	0.001713	1.99	204.97	150.79	0.45	87.48
Reach 1	25500	0p5_BU				2.08	389.40	379.67	382.88	382.16	383.08	0.001722	2.04	215.47	154.92	0.45	86.49
Reach 1	25500	0p5-CC-LC_BU				2.37	545.10	379.67	383.18	382.51	383.44	0.002027	2.41	268.28	199.68	0.50	83.45
Reach 1	25458	5_BU				1.31	290.80	379.86	382.43	382.17	382.66	0.003940	2.26	142.92	138.20	0.63	78.51
Reach 1	25458	1_BU				1.44	363.60	379.86	382.65	382.32	382.88	0.003585	2.29	174.71	154.29	0.61	74.64
Reach 1	25458	0p5_BU				1.45	389.40	379.86	382.73	382.37	382.96	0.003497	2.27	187.71	173.04	0.60	73.18
Reach 1	25458	0p5-CC-LC_BU				1.74	545.10	379.86	383.06	382.63	383.32	0.003224	2.45	257.78	242.41	0.59	69.47
Reach 1	25400	5_BU				1.66	290.80	379.62	382.24	381.85	382.46	0.002814	2.24	147.71	119.65	0.56	75.05
Reach 1	25400	1_BU				1.79	363.60	379.62	382.46	382.02	382.70	0.002836	2.36	175.03	133.97	0.56	71.54
Reach 1	25400	0p5_BU				1.79	389.40	379.62	382.52	382.09	382.77	0.002962	2.41	183.67	143.52	0.58	70.72
Reach 1	25400	0p5-CC-LC_BU				1.91	545.10	379.62	382.84	382.38	383.13	0.003170	2.61	246.24	241.43	0.60	65.42
Reach 1	25350	5_BU				1.79	290.80	379.52	382.12	381.57	382.29	0.002029	2.00	172.48	147.10	0.48	76.05
Reach 1	25350	1_BU				1.79	363.60	379.52	382.33	381.75	382.51	0.002221	2.09	204.77	171.33	0.50	71.58
Reach 1	25350	0p5_BU				1.84	389.40	379.52	382.38	381.82	382.58	0.002281	2.16	214.89	189.97	0.51	71.09
Reach 1	25350	0p5-CC-LC_BU				2.15	545.10	379.52	382.70	382.18	382.93	0.002294	2.40	285.05	248.00	0.52	66.10
Reach 1	25300	5_BU				1.19	290.80	379.41	382.04	381.37	382.15	0.001984	1.49	197.32	174.06	0.44	99.76
Reach 1	25300	1_BU				1.16	363.60	379.41	382.22	381.53	382.35	0.002342	1.59	232.35	209.83	0.47	99.53
Reach 1	25300	0p5_BU				1.18	389.40	379.41	382.27	381.58	382.41	0.002370	1.62	244.26	215.88	0.48	99.46
Reach 1	25300	0p5-CC-LC_BU				1.30	545.10	379.41	382.59	381.83	382.74	0.002415	1.74	321.20	257.64	0.49	99.01
Reach 1	25250	5_BU				1.11	290.80	379.31	381.97	381.24	382.05	0.001627	1.29	228.58	213.12	0.39	99.66
Reach 1	25250	1_BU				1.28	363.60	379.31	382.15	381.45	382.24	0.001565	1.38	267.92	225.28	0.39	99.48
Reach 1	25250	0p5_BU				1.33	389.40	379.31	382.20	381.51	382.30	0.001553	1.41	280.59	226.66	0.39	99.41
Reach 1	25250	0p5-CC-LC_BU				1.64	545.10	379.31	382.52	381.75	382.64	0.001490	1.60	353.35	246.98	0.40	98.93
Reach 1	25169	5_BU				1.09	290.80	379.70	381.71	381.15	381.87	0.003048	1.76	169.38	157.89	0.54	98.48
Reach 1	25169	1_BU				1.18	363.60	379.70	381.88	381.33	382.06	0.003215	1.90	196.77	169.84	0.56	98.32
Reach 1	25169	0p5_BU				1.23	389.40	379.70	381.93	381.38	382.12	0.003211	1.94	205.67	170.74	0.56	98.30
Reach 1	25169	0p5-CC-LC_BU				1.51	545.10	379.70	382.23	381.73	382.47	0.003104	2.18	262.42	210.25	0.57	98.06
Reach 1	25100	5_BU				1.22	290.80	378.81	381.54	381.04	381.68	0.002378	1.66	181.33	213.67	0.48	97.23
Reach 1	25100	1_BU				1.36	363.60	378.81	381.69	381.19	381.86	0.002558	1.85	203.72	217.45	0.51	97.17
Reach 1	25100	0p5_BU				1.41	389.40	378.81	381.74	381.23	381.92	0.002621	1.92	211.01	218.66	0.52	97.15
Reach 1	25100	0p5-CC-LC_BU				1.68	545.10	378.81	382.01	381.46	382.26	0.002880	2.25	252.85	241.99	0.55	97.05
Reach 1	24950	5_BU				0.92	290.80	378.16	380.88	380.71	381.13	0.006355	2.28	138.26	169.65	0.76	95.91
Reach 1	24950	1_BU				1.10	363.60	378.16	381.08	380.85	381.34	0.005190	2.32	173.77	184.29	0.70	94.94
Reach 1	24950	0p5_BU				1.17	389.40	378.16	381.14	380.89	381.41	0.004897	2.33	185.97	189.18	0.69	94.52
Reach 1	24950	0p5-CC-LC_BU				1.50	545.10	378.16	381.49	381.14	381.78	0.003905	2.46	254.63	222.32	0.64	92.54
Reach 1	24800	5_BU				1.60	290.80	377.37	380.57	379.81	380.69	0.001533	1.58	190.15	132.16	0.40	99.04
Reach 1	24800	1_BU				1.79	363.60	377.37	380.77	379.96	380.92	0.001610	1.75	217.69	143.63	0.42	98.68
Reach 1	24800	0p5_BU				1.86	389.40	377.37	380.83	380.02	381.00	0.001632	1.80	227.38	148.82	0.42	98.51
Reach 1	24800	0p5-CC-LC_BU				2.19	545.10	377.37	381.17	380.30	381.39	0.001804	2.11	283.21	185.34	0.46	97.40
Reach 1	24693	5_BU				0.92	290.80	377.15	379.85	379.85	380.31	0.011123	2.99	97.86	109.68	1.00	99.87
Reach 1	24693	1_BU				1.07	363.60	377.15	380.01	380.01	380.53	0.010483	3.20	114.62	110.88	0.99	99.73
Reach 1	24693	0p5_BU				1.12	389.40	377.15	380.06	380.06	380.60	0.010275	3.27	120.40	111.29	0.99	99.69
Reach 1	24693	0p5-CC-LC_BU				1.62	545.10	377.15	380.57	380.34	381.05	0.005620	3.10	186.09	148.90	0.78	98.59
Reach 1	24600	5_BU				2.57	290.80	376.10	379.65	378.04	379.77	0.000770	1.57	186.26	77.20	0.31	99.97
Reach 1	24600	1_BU				2.83	363.60	376.10	379.96	378.27	380.11	0.000840	1.74	211.47	88.64	0.33	99.80
Reach 1	24600	0p5_BU				2.93	389.40	376.10	380.06	378.36	380.22	0.000858	1.80	220.69	98.74	0.34	99.69
Reach 1	24600	0p5-CC-LC_BU				3.45	545.10	376.10	380.58	378.80	380.80	0.000928	2.09	289.35	147.03	0.36	97.60
Reach 1	24500	5_BU				2.32	290.80	375.69	379.51	378.27	379.67	0.001183	1.81	164.43	84.27	0.38	99.25
Reach 1	24500	1_BU				2.58	363.60	375.69	379.81	378.53	380.01	0.001235	1.99	191.77	96.25	0.39	98.30
Reach 1	24500	0p5_BU				2.67	389.40	375.69	379.91	378.60	380.11	0.001249	2.04	201.25	98.49	0.40	97.94
Reach 1	24500	0p5-CC-LC_BU				3.17	545.10	375.69	380.42	379.03	380.69	0.001305	2.34	260.26	136.36	0.42	95.60
Reach 1	24400	5_BU				2.23	290.80	375.71	379.24	378.32	379.51	0.002067	2.32	126.02	63.01	0.50	99.96
Reach 1	24400	1_BU				2.43	363.60	375.71	379.48	378.58	379.82	0.002382	2.60	142.42	69.92	0.53	99.63
Reach 1	24400	0p5_BU				2.49	389.40	375.71	379.56	378.66	379.93	0.002468	2.69	148.04	71.77	0.54	99.47
Reach 1	24400	0p5-CC-LC_BU				2.83	545.10	375.71	379.97	379.12	380.48	0.002913	3.20	178.94	86.26	0.61	98.35
Reach 1	24350	5_BU				2.29	290.80	375.54	379.18	378.09	379.40	0.001817	2.08	141.19	67.13	0.44	99.81
Reach 1	24350	1_BU				2.47	363.60	375.54	379.42	378.34	379.70	0.002122	2.34	158.94	80.82	0.48	99.42
Reach 1	24350	0p5_BU				2.52	389.40	375.54	379.50	378.41	379.80	0.002222	2.42	165.49	87.12	0.49	99.24
Reach 1	24350	0p5-CC-LC_BU				2.91	545.10	375.54	379.91	378.87	380.32	0.002589	2.87	206.77	116.82	0.54	97.66
Reach 1	24300	5_BU				2.20	290.80	375.93	379.12	378.07	379.31	0.001463	1.94	150.46	75.09	0.42	99.92
Reach 1	24300	1_BU				2.39	363.60	375.93	379.35	378.30	379.59	0.001671	2.19	168.53	82.28	0.45	99.67
Reach 1	24300	0p5_BU				2.44	389.40	375.93	379.42	378.37	379.69	0.001741	2.27	174.85	86.53	0.46	99.56
Reach 1	24300	0p5-CC-LC_BU				2.79	545.10	375.93	379.82	378.78	380.19	0.002067	2.70	214.28	111.96	0.52	98.52
Reach 1	24250	5_BU				2.22	290.80	376.30	379.08	377.96	379.23	0.001133	1.72	173.78	92.13	0.37	99.09
Reach 1	24250	1_BU				2.44	363.60	376.30	379.32	378.16	379.50	0.001266	1.94	196.30	101.16	0.40	98.43
Reach 1	24250	0p5_BU				2.52	389.40	376.30	379.39	378.23	379.59	0.001306	2.01	204.05	103.10	0.40	98.16
Reach 1	24250	0p5-CC-LC_BU				2.91	545.10	376.30	379.80	378.61	380.08	0.001516	2.38	252.69	153.48	0.45	96.65
Reach 1	24200	5_BU				1.92	290.80	376.73	379.00	378.13	379.17	0.001491	1.80	166.58	98.16	0.41	98.92
Reach 1	24200	1_BU				2.12	363.60	376.73	379.23	378.31	379.43	0.001603	1.99	189.60	102.93	0.44	98.26
Reach 1	24200	0p5_BU				2.20	389.40	376.73	379.31	378.37	379.52	0.001634	2.06	197.42	106.93	0.44	98.04

HEC-RAS Plan: KR_Jam_2254 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	24200	0p5-CC-LC_BU				2.60	545.10	376.73	379.71	378.74	380.00	0.001771	2.39	247.88	158.75	0.47	96.49
Reach 1	24150	5_BU				1.65	290.80	376.70	378.87	378.23	379.07	0.002248	2.00	147.33	95.95	0.50	99.58
Reach 1	24150	1_BU				1.87	363.60	376.70	379.09	378.42	379.33	0.002312	2.20	168.64	98.94	0.51	99.17
Reach 1	24150	0p5_BU				1.94	389.40	376.70	379.16	378.47	379.42	0.002333	2.26	175.78	101.03	0.52	99.03
Reach 1	24150	0p5-CC-LC_BU				2.32	545.10	376.70	379.55	378.81	379.89	0.002434	2.61	221.21	137.46	0.55	97.90
Reach 1	24100	5_BU				1.73	290.80	376.59	378.75	378.09	378.96	0.002236	2.05	144.33	93.93	0.50	99.46
Reach 1	24100	1_BU				1.93	363.60	376.59	378.96	378.27	379.22	0.002376	2.28	164.09	99.11	0.52	98.87
Reach 1	24100	0p5_BU				2.00	389.40	376.59	379.02	378.33	379.30	0.002420	2.35	170.87	101.93	0.53	98.65
Reach 1	24100	0p5-CC-LC_BU				2.36	545.10	376.59	379.39	378.71	379.76	0.002641	2.75	211.60	130.45	0.57	97.28
Reach 1	24050	5_BU				1.78	290.80	376.51	378.65	377.94	378.85	0.002068	2.02	146.22	154.30	0.48	99.68
Reach 1	24050	1_BU				1.97	363.60	376.51	378.84	378.13	379.10	0.002266	2.26	165.28	165.48	0.51	99.17
Reach 1	24050	0p5_BU				2.04	389.40	376.51	378.91	378.19	379.18	0.002327	2.34	172.02	171.76	0.52	98.96
Reach 1	24050	0p5-CC-LC_BU				2.39	545.10	376.51	379.25	378.55	379.63	0.002608	2.75	211.67	193.18	0.57	97.41
Reach 1	24000	5_BU				1.80	290.80	376.41	378.55	377.83	378.75	0.002004	1.99	146.70	119.15	0.47	99.96
Reach 1	24000	1_BU				1.97	363.60	376.41	378.73	378.00	378.99	0.002282	2.25	163.94	128.24	0.51	99.63
Reach 1	24000	0p5_BU				2.03	389.40	376.41	378.79	378.07	379.07	0.002379	2.34	169.70	133.86	0.53	99.51
Reach 1	24000	0p5-CC-LC_BU				2.32	545.10	376.41	379.10	378.41	379.49	0.002862	2.81	205.24	189.62	0.59	98.42
Reach 1	23950	5_BU				1.70	290.80	376.45	378.45	377.80	378.64	0.002072	1.95	158.09	149.75	0.48	97.52
Reach 1	23950	1_BU				1.86	363.60	376.45	378.63	377.98	378.86	0.002311	2.19	179.52	160.16	0.51	96.43
Reach 1	23950	0p5_BU				1.92	389.40	376.45	378.68	378.05	378.94	0.002393	2.27	186.74	164.37	0.52	96.09
Reach 1	23950	0p5-CC-LC_BU				2.18	545.10	376.45	378.98	378.40	379.33	0.002851	2.70	231.22	220.12	0.58	94.43
Reach 1	23900	5_BU				1.61	290.80	376.38	378.36	377.74	378.53	0.002005	1.86	166.89	160.21	0.47	95.73
Reach 1	23900	1_BU				1.77	363.60	376.38	378.53	377.91	378.74	0.002248	2.10	188.45	181.46	0.50	95.07
Reach 1	23900	0p5_BU				1.83	389.40	376.38	378.58	377.97	378.81	0.002326	2.18	195.91	190.09	0.51	94.79
Reach 1	23900	0p5-CC-LC_BU				2.11	545.10	376.38	378.86	378.26	379.18	0.002716	2.59	246.61	271.43	0.57	93.04
Reach 1	23850	5_BU				1.54	290.80	376.45	378.27	377.67	378.43	0.002019	1.80	172.45	166.51	0.46	94.47
Reach 1	23850	1_BU				1.68	363.60	376.45	378.42	377.82	378.62	0.002297	2.04	193.09	182.82	0.50	93.77
Reach 1	23850	0p5_BU				1.72	389.40	376.45	378.47	377.87	378.68	0.002394	2.12	199.85	195.75	0.51	93.54
Reach 1	23850	0p5-CC-LC_BU				1.94	545.10	376.45	378.72	378.17	379.03	0.002982	2.56	239.04	259.78	0.59	92.87
Reach 1	23800	5_BU				1.38	290.80	376.34	378.14	377.66	378.31	0.002516	1.87	174.23	198.61	0.51	92.85
Reach 1	23800	1_BU				1.52	363.60	376.34	378.28	377.82	378.49	0.002808	2.11	196.86	217.68	0.55	91.67
Reach 1	23800	0p5_BU				1.56	389.40	376.34	378.32	377.87	378.54	0.002911	2.18	204.27	224.19	0.56	91.27
Reach 1	23800	0p5-CC-LC_BU				1.79	545.10	376.34	378.55	378.16	378.86	0.003472	2.61	245.56	274.10	0.62	89.32
Reach 1	23750	5_BU				1.12	290.80	376.43	378.03	377.61	378.15	0.002562	1.63	219.58	253.72	0.49	79.36
Reach 1	23750	1_BU				1.24	363.60	376.43	378.16	377.73	378.30	0.002786	1.82	254.08	272.79	0.52	78.90
Reach 1	23750	0p5_BU				1.28	389.40	376.43	378.21	377.77	378.36	0.002826	1.86	266.18	283.89	0.53	78.31
Reach 1	23750	0p5-CC-LC_BU				1.50	545.10	376.43	378.45	377.98	378.63	0.002976	2.09	342.61	345.85	0.55	74.87
Reach 1	23700	5_BU				0.80	290.80	376.64	377.87	377.52	377.96	0.003627	1.55	241.39	354.52	0.55	60.76
Reach 1	23700	1_BU				0.93	363.60	376.64	378.01	377.62	378.11	0.003284	1.63	293.67	393.12	0.54	60.18
Reach 1	23700	0p5_BU				0.98	389.40	376.64	378.05	377.62	378.16	0.003165	1.65	312.75	409.28	0.53	59.82
Reach 1	23700	0p5-CC-LC_BU				1.23	545.10	376.64	378.32	377.80	378.43	0.002643	1.74	441.03	574.95	0.50	57.32
Reach 1	23650	5_BU				0.83	290.80	376.40	377.63	377.35	377.74	0.003995	1.67	205.68	310.26	0.58	64.76
Reach 1	23650	1_BU				1.00	363.60	376.40	377.81	377.45	377.92	0.003320	1.71	265.26	368.14	0.55	64.64
Reach 1	23650	0p5_BU				1.05	389.40	376.40	377.86	377.47	377.98	0.003181	1.73	286.04	381.40	0.54	64.45
Reach 1	23650	0p5-CC-LC_BU				1.26	545.10	376.40	378.16	377.65	378.28	0.002676	1.77	418.72	516.32	0.50	61.09
Reach 1	23600	5_BU				0.90	290.80	375.86	377.50	377.06	377.58	0.002473	1.40	256.78	345.39	0.47	60.95
Reach 1	23600	1_BU				1.09	363.60	375.86	377.71	377.15	377.78	0.001993	1.42	332.32	384.93	0.44	61.02
Reach 1	23600	0p5_BU				1.14	389.40	375.86	377.77	377.18	377.84	0.001890	1.43	356.60	400.61	0.43	60.62
Reach 1	23600	0p5-CC-LC_BU				1.37	545.10	375.86	378.08	377.35	378.16	0.001638	1.50	495.28	481.55	0.41	58.27
Reach 1	23550	5_BU				0.95	290.80	375.45	377.39	376.96	377.47	0.002199	1.36	236.27	313.11	0.45	65.21
Reach 1	23550	1_BU				1.17	363.60	375.45	377.62	377.06	377.70	0.001695	1.37	316.38	368.59	0.41	65.69
Reach 1	23550	0p5_BU				1.23	389.40	375.45	377.69	377.10	377.77	0.001631	1.39	340.74	380.78	0.40	65.69
Reach 1	23550	0p5-CC-LC_BU				1.44	545.10	375.45	378.01	377.30	378.09	0.001478	1.47	477.28	479.60	0.39	62.85
Reach 1	23500	5_BU				1.07	290.80	375.07	377.31	376.64	377.38	0.001490	1.20	258.58	270.65	0.37	66.74
Reach 1	23500	1_BU				1.27	363.60	375.07	377.56	376.76	377.63	0.001227	1.22	336.85	351.69	0.35	67.14
Reach 1	23500	0p5_BU				1.32	389.40	375.07	377.63	376.80	377.69	0.001196	1.24	361.00	365.19	0.34	66.90
Reach 1	23500	0p5-CC-LC_BU				1.58	545.10	375.07	377.95	377.02	378.03	0.001140	1.36	489.85	444.86	0.35	65.61
Reach 1	23450	5_BU				1.17	290.80	375.14	377.26	376.42	377.32	0.001048	1.11	285.69	265.50	0.33	72.80
Reach 1	23450	1_BU				1.33	363.60	375.14	377.52	376.54	377.57	0.000933	1.13	359.74	316.14	0.31	72.67
Reach 1	23450	0p5_BU				1.38	389.40	375.14	377.58	376.57	377.64	0.000929	1.16	381.57	331.28	0.31	72.77
Reach 1	23450	0p5-CC-LC_BU				1.47	545.10	375.14	377.91	376.80	377.97	0.001052	1.24	505.98	451.06	0.33	70.01
Reach 1	23400	5_BU				1.23	290.80	375.03	377.21	376.39	377.27	0.000989	1.12	281.06	236.58	0.32	71.29
Reach 1	23400	1_BU				1.31	363.60	375.03	377.47	376.50	377.53	0.000962	1.12	347.35	283.55	0.31	70.00
Reach 1	23400	0p5_BU				1.36	389.40	375.03	377.54	376.53	377.60	0.000952	1.15	366.73	291.92	0.31	70.12
Reach 1	23400	0p5-CC-LC_BU				1.49	545.10	375.03	377.85	376.74	377.92	0.001087	1.28	466.33	368.07	0.33	69.07
Reach 1	23300	5_BU				1.32	290.80	374.20	377.06	376.25	377.16	0.001496	1.40	226.97	196.95	0.39	90.18
Reach 1	23300	1_BU				1.17	363.60	374.20	377.33	376.40	377.41	0.001676	1.37	289.93	277.45	0.40	87.64
Reach 1	23300	0p5_BU				1.21	389.40	374.20	377.40	376.45	377.48	0.001615	1.37	310.26	289.05	0.40	87.39
Reach 1	23300	0p5-CC-LC_BU				1.41	545.10	374.20	377.70	376.71	377.80	0.001624	1.52	403.73	343.56	0.41	86.74
Reach 1	23200	5_BU				1.15	290.80	374.25	376.72	376.38	376.92	0.003629	2.01	150.64	143.99	0.60	94.78
Reach 1	23200	1_BU				1.18	363.60	374.25	376.97	376.53	377.17	0.003575	2.02	188.78	178.35	0.59	93.43
Reach 1	23200	0p5_BU				1.12	389.40	374.25	377.04	376.57	377.24	0.003783	2.01	202.83	198.09	0.61	92.66
Reach 1	23200	0p5-CC-LC_BU				1.23	545.10	374.25	377.32	376.86	377.55	0.003921	2.17	265.29	256.30	0.63	91.26
Reach 1	23016	5_BU				1.26	290.80	373.81	376.26		376.39	0.002152	1.63	198.73	222.39	0.46	84.28
Reach 1	23016	1_BU				1.22	363.60	373.81	376.48		376.60	0.002346	1.67	249.67	291.08	0.48	81.90
Reach 1	23016	0p5_BU				1.24	389.40	373.81	376.54		376.66	0.002319	1.67	266.09	307.22	0.48	80.69
Reach 1	23016	0p5-CC-LC_BU				1.43	545.10	373.81	376.85		376.99	0.002114	1.76	356.72	345.38	0.47	76.40
Reach 1	22900	5_BU				1.10	290.80	373.42	375.67		375.97	0.006033	2.49	123.78	154.32	0.76	94.80
Reach 1	22900	1_BU				1.28	363.60	373.42	375.92		376.21	0.004694	2.43	163.09	199.11	0.69	92.00
Reach 1	22900	0p5_BU				1.35	389.40	373.42	376.00		376.28	0.004366	2.43	176.86	213.80	0.67	90.99
Reach 1	22900	0p5-CC-LC_BU				1.32	545.10	373.42	376.37		376.63	0.004288	2.37	266.02	335.41	0.66	83.72
Reach 1	22750	5_BU				1.31	290.80	372.99	375.22		375.38	0.002450	1.78	163.49	126.86	0.50	100.00
Reach 1	22750	1_BU				1.21	363.60	372.99	375.46		375.63	0.002868	1.83	198.58	172.22	0.53	99.99
Reach 1	22750	0p5_BU				1.17	389.40	372.99	375.55		375.72	0.002982	1.83	213.24	192.08	0.54	99.98
Reach 1	22750	0p5-CC-LC_BU				1.20	545.10	372.99	375.92		376.09	0.002921	1.84	299.14	284.67	0.54	99.31
Reach 1	22584	5_BU				1.37	290.80	372.69	374.84		374.99	0.002172	1.73	168.93	131.58	0.47	99.94
Reach 1	22584	1_BU				1.58	363.60	372.69	375.06		375.23	0.002070	1.86	198.65	149.09	0.47	99.65
Reach 1	22584	0p5_BU				1.65	389.40	372.69	375.12		375.31	0.002056	1.91	209.51	173.56	0.47	99.47
Reach 1	22584	0p5-CC-LC_BU				2.00	545.10	372.69	375.48		375.70	0.001967	2.12	288.44	284.11	0.48	95.88
Reach 1	22500	5_BU				1.54	290.80	372.35	374.65		374.82	0.002012	1.80	168.51	128.37	0.46	98.09
Reach 1	22500	1_BU				1.63	363.60	372.35	374.87		375.06	0.002087	1.95	198.45	151.08	0.49	97.15
Reach 1	22500	0p5_BU				1.68	389.40	372.35	374.93		375.13	0.002093	2.00	208.89	158.67	0.49	96.97
Reach 1	22500	0p5-CC-LC_BU				2.01	545.10	372.35	375.27		375.52	0.002177	2.27	266.76	236.70	0.51	94.50
Reach 1	22400	5_BU				1.60	290.80	372.16	374.45		374.62	0.001956	1.84	159.96	109.70	0.46	98.21
Reach 1	22400	1_BU				1.78	363.60	372.16	374.64		374.85	0.002064	2.03	181.74	134.44	0.49	97.21
Reach 1	22400	0p5_BU				1.83	389.40	372.16	374.70		374.92	0.002102	2.09	189.33	139.15	0.49	96.82
Reach 1	22400	0p5-CC-LC_BU				2.12	545.10	372.16	375.02		375.29	0.002234	2.39	247.67	327.51	0.52	92.89

HEC-RAS Plan: KR_Jam_2254 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	22300	5_BU				1.39	290.80	371.96	374.08		374.35	0.003512	2.29	130.66	118.86	0.62	98.51
Reach 1	22300	1_BU				1.49	363.60	371.96	374.23		374.56	0.003870	2.55	150.16	140.76	0.67	97.21
Reach 1	22300	0p5_BU				1.53	389.40	371.96	374.28		374.62	0.003991	2.64	156.95	150.69	0.68	96.69
Reach 1	22300	0p5-CC-LC_BU				1.73	545.10	371.96	374.50	374.36	374.96	0.004706	3.10	196.71	213.04	0.75	93.00
Reach 1	22200	5_BU				1.32	290.80	371.77	373.91		374.04	0.002049	1.67	179.57	183.13	0.46	93.08
Reach 1	22200	1_BU				1.47	363.60	371.77	374.07		374.22	0.002077	1.80	212.09	217.42	0.47	90.09
Reach 1	22200	0p5_BU				1.53	389.40	371.77	374.12		374.28	0.002057	1.83	224.26	231.27	0.47	88.80
Reach 1	22200	0p5-CC-LC_BU				1.79	545.10	371.77	374.38		374.57	0.002019	2.01	296.98	324.53	0.48	81.43
Reach 1	22094	5_BU				1.06	310.30	371.63	373.58		373.75	0.003438	1.84	170.44	201.19	0.57	92.48
Reach 1	22094	1_BU				1.18	389.90	371.63	373.74		373.93	0.003274	1.92	207.80	253.50	0.57	89.39
Reach 1	22094	0p5_BU				1.21	418.50	371.63	373.80		373.99	0.003208	1.95	223.01	266.72	0.56	88.57
Reach 1	22094	0p5-CC-LC_BU				1.29	586.00	371.63	374.08		374.27	0.003085	1.99	305.59	361.49	0.56	80.32
Reach 1	22050	5_BU				0.97	310.30	371.32	373.41		373.58	0.004083	1.89	178.03	217.83	0.61	94.94
Reach 1	22050	1_BU				1.05	389.90	371.32	373.56		373.76	0.004239	2.03	215.09	274.47	0.63	94.47
Reach 1	22050	0p5_BU				1.06	418.50	371.32	373.62		373.83	0.004262	2.04	232.59	299.37	0.63	93.82
Reach 1	22050	0p5-CC-LC_BU				1.11	586.00	371.32	373.87		374.10	0.004632	2.21	316.69	382.68	0.67	91.25
Reach 1	21950	5_BU				0.85	310.30	370.75	372.91		373.10	0.005049	1.92	160.03	239.44	0.67	85.97
Reach 1	21950	1_BU				0.88	389.90	370.75	373.07		373.27	0.005012	1.96	199.41	288.74	0.67	84.72
Reach 1	21950	0p5_BU				0.89	418.50	370.75	373.13		373.32	0.005164	2.00	213.65	309.83	0.68	85.49
Reach 1	21950	0p5-CC-LC_BU				0.96	586.00	370.75	373.39		373.59	0.004627	1.99	301.48	440.28	0.65	81.19
Reach 1	21825	5_BU				0.84	310.30	370.87	372.60		372.72	0.002103	1.23	221.53	313.03	0.43	63.66
Reach 1	21825	1_BU				0.98	389.90	370.87	372.83		372.92	0.001731	1.24	299.33	413.95	0.40	65.74
Reach 1	21825	0p5_BU				1.03	418.50	370.87	372.90		372.98	0.001616	1.24	325.68	444.97	0.39	65.14
Reach 1	21825	0p5-CC-LC_BU				1.13	586.00	370.87	373.22		373.29	0.001320	1.19	499.06	744.61	0.36	60.26
Reach 1	21700	5_BU				1.29	310.30	369.78	372.29		372.44	0.002466	1.78	191.38	187.43	0.50	95.91
Reach 1	21700	1_BU				1.41	389.90	369.78	372.49		372.67	0.002523	1.90	234.40	283.52	0.51	94.63
Reach 1	21700	0p5_BU				1.41	418.50	369.78	372.55		372.74	0.002600	1.94	251.25	322.29	0.52	94.01
Reach 1	21700	0p5-CC-LC_BU				1.56	586.00	369.78	372.86		373.07	0.002682	2.10	353.60	502.07	0.54	90.12
Reach 1	21600	5_BU				1.22	310.30	369.52	372.01		372.18	0.002828	1.84	187.19	236.34	0.53	94.09
Reach 1	21600	1_BU				1.35	389.90	369.52	372.20		372.39	0.002916	2.00	229.11	287.47	0.55	93.78
Reach 1	21600	0p5_BU				1.39	418.50	369.52	372.25		372.45	0.002958	2.05	242.70	302.43	0.55	93.14
Reach 1	21600	0p5-CC-LC_BU				1.57	586.00	369.52	372.51		372.76	0.003205	2.31	320.06	429.72	0.59	89.91
Reach 1	21530	5_BU				1.18	310.30	369.79	371.83		371.97	0.002667	1.74	219.64	303.44	0.51	88.93
Reach 1	21530	1_BU				1.36	389.90	369.79	372.04		372.18	0.002343	1.79	278.36	385.00	0.49	86.18
Reach 1	21530	0p5_BU				1.41	418.50	369.79	372.09		372.24	0.002347	1.83	294.70	401.41	0.49	85.33
Reach 1	21530	0p5-CC-LC_BU				1.64	586.00	369.79	372.34		372.53	0.002545	2.11	388.74	602.41	0.53	82.63
Reach 1	21450	5_BU				1.20	310.30	368.92	371.65		371.77	0.002301	1.62	233.46	306.20	0.47	89.18
Reach 1	21450	1_BU				1.18	389.90	368.92	371.89		372.00	0.002269	1.60	312.16	520.10	0.47	85.75
Reach 1	21450	0p5_BU				1.24	418.50	368.92	371.95		372.06	0.002193	1.62	338.16	567.84	0.46	85.18
Reach 1	21450	0p5-CC-LC_BU				1.51	586.00	368.92	372.21		372.35	0.002047	1.78	486.72	775.07	0.46	81.24
Reach 1	21319	5_BU				1.19	310.30	368.49	371.18		371.39	0.003856	2.07	164.80	194.82	0.61	95.21
Reach 1	21319	1_BU				1.19	389.90	368.49	371.39		371.61	0.004191	2.16	205.28	285.52	0.63	93.43
Reach 1	21319	0p5_BU				1.18	418.50	368.49	371.45		371.68	0.004310	2.18	220.95	319.66	0.64	92.46
Reach 1	21319	0p5-CC-LC_BU				1.26	586.00	368.49	371.71		371.97	0.004657	2.37	299.25	437.61	0.68	89.27
Reach 1	21250	5_BU				1.10	310.30	368.22	370.93		371.12	0.003850	1.99	170.72	221.85	0.61	94.84
Reach 1	21250	1_BU				1.07	389.90	368.22	371.09		371.31	0.004572	2.13	205.36	286.20	0.66	93.86
Reach 1	21250	0p5_BU				1.07	418.50	368.22	371.15		371.37	0.004632	2.15	219.32	306.44	0.66	93.11
Reach 1	21250	0p5-CC-LC_BU				1.26	586.00	368.22	371.38		371.65	0.004609	2.38	285.11	377.02	0.68	90.67
Reach 1	21200	5_BU				0.94	310.30	368.17	370.81		370.93	0.003153	1.63	216.81	298.77	0.54	89.40
Reach 1	21200	1_BU				1.05	389.90	368.17	370.97		371.11	0.003048	1.72	262.42	343.48	0.54	88.21
Reach 1	21200	0p5_BU				1.09	418.50	368.17	371.03		371.17	0.002987	1.75	280.62	362.62	0.53	87.81
Reach 1	21200	0p5-CC-LC_BU				1.31	586.00	368.17	371.29		371.45	0.002816	1.91	371.38	446.07	0.53	85.43
Reach 1	21150	5_BU				0.92	310.30	368.09	370.60		370.76	0.004098	1.82	192.21	282.37	0.61	87.70
Reach 1	21150	1_BU				1.10	389.90	368.09	370.79		370.95	0.003464	1.89	240.27	344.29	0.58	86.52
Reach 1	21150	0p5_BU				1.16	418.50	368.09	370.85		371.01	0.003315	1.92	258.68	362.75	0.57	86.37
Reach 1	21150	0p5-CC-LC_BU				1.43	586.00	368.09	371.12		371.31	0.003021	2.10	347.37	421.30	0.56	83.23
Reach 1	21100	5_BU				1.15	310.30	368.03	370.49	370.02	370.60	0.002359	1.61	226.33	262.21	0.48	79.91
Reach 1	21100	1_BU				1.21	389.90	368.03	370.68	370.16	370.80	0.002353	1.65	277.41	334.20	0.48	77.11
Reach 1	21100	0p5_BU				1.24	418.50	368.03	370.75	370.20	370.87	0.002356	1.67	297.53	362.11	0.48	76.67
Reach 1	21100	0p5-CC-LC_BU				1.48	586.00	368.03	371.03	370.43	371.17	0.002342	1.86	398.48	463.89	0.49	74.91
Reach 1	21050	5_BU				1.26	310.30	367.97	370.29		370.46	0.002929	1.90	191.00	244.56	0.54	86.30
Reach 1	21050	1_BU				1.36	389.90	367.97	370.46		370.65	0.003134	2.06	229.05	290.77	0.56	84.41
Reach 1	21050	0p5_BU				1.30	418.50	367.97	370.52		370.71	0.003356	2.07	246.08	328.46	0.58	82.77
Reach 1	21050	0p5-CC-LC_BU				1.44	586.00	367.97	370.80		371.01	0.003472	2.23	341.07	441.35	0.59	78.51
Reach 1	21000	5_BU				1.23	310.30	367.91	370.19		370.30	0.002106	1.60	242.64	292.99	0.46	81.07
Reach 1	21000	1_BU				1.37	389.90	367.91	370.35		370.48	0.002107	1.73	288.32	370.42	0.47	79.52
Reach 1	21000	0p5_BU				1.42	418.50	367.91	370.40		370.54	0.002119	1.78	305.39	399.39	0.48	78.96
Reach 1	21000	0p5-CC-LC_BU				1.66	586.00	367.91	370.66		370.83	0.002295	2.05	406.13	525.09	0.51	76.54
Reach 1	20950	5_BU				1.27	310.30	367.85	370.14		370.20	0.001320	1.29	324.70	339.35	0.37	62.22
Reach 1	20950	1_BU				1.44	389.90	367.85	370.31		370.38	0.001337	1.41	385.51	413.89	0.38	61.40
Reach 1	20950	0p5_BU				1.49	418.50	367.85	370.36		370.44	0.001392	1.47	405.84	435.02	0.39	61.79
Reach 1	20950	0p5-CC-LC_BU				1.75	586.00	367.85	370.62		370.72	0.001478	1.69	536.22	634.98	0.41	59.35
Reach 1	20892	5_BU				1.23	310.30	367.84	370.01		370.11	0.002201	1.63	264.10	329.26	0.47	66.04
Reach 1	20892	1_BU				1.38	389.90	367.84	370.19		370.29	0.002131	1.73	325.62	413.64	0.47	63.85
Reach 1	20892	0p5_BU				1.43	418.50	367.84	370.23		370.35	0.002154	1.78	346.12	442.75	0.48	63.24
Reach 1	20892	0p5-CC-LC_BU				1.64	586.00	367.84	370.48		370.62	0.002353	2.04	476.62	669.29	0.51	60.79
Reach 1	20850	5_BU				1.13	310.30	367.74	369.95		370.03	0.002144	1.52	286.16	384.64	0.46	57.10
Reach 1	20850	1_BU				1.24	389.90	367.74	370.12		370.21	0.002205	1.64	359.70	475.29	0.47	56.84
Reach 1	20850	0p5_BU				1.29	418.50	367.74	370.17		370.26	0.002203	1.68	383.36	495.73	0.47	56.45
Reach 1	20850	0p5-CC-LC_BU				1.53	586.00	367.74	370.41		370.53	0.002297	1.92	519.67	681.40	0.50	54.79
Reach 1	20800	5_BU				1.22	310.30	367.71	369.79		369.93	0.003000	1.90	211.67	295.68	0.55	67.72
Reach 1	20800	1_BU				1.36	389.90	367.71	369.94		370.10	0.003213	2.10	261.20	388.81	0.58	67.19
Reach 1	20800	0p5_BU				1.40	418.50	367.71	369.98		370.15	0.003246	2.16	279.53	423.21	0.58	66.45
Reach 1	20800	0p5-CC-LC_BU				1.63	586.00	367.71	370.21		370.42	0.003380	2.44	395.24	594.50	0.61	62.34
Reach 1	20750	5_BU				1.18	310.30	367.67	369.71		369.80	0.002367	1.64	298.34	406.09	0.48	53.49
Reach 1	20750	1_BU				1.27	389.90	367.67	369.86		369.96	0.002613	1.82	362.54	477.33	0.51	53.16
Reach 1	20750	0p5_BU				1.30	418.50	367.67	369.91		370.02	0.002620	1.85	386.02	496.13	0.52	52.37
Reach 1	20750	0p5-CC-LC_BU				1.52	586.00	367.67	370.15		370.27	0.002638	2.05	516.91	629.73	0.53	49.31
Reach 1	20700	5_BU				1.17	310.30	367.63	369.57		369.70	0.003350	1.94	247.59	384.21	0.57	59.65
Reach 1	20700	1_BU				1.26	389.90	367.63	369.72		369.86	0.003394	2.06	310.65	461.34	0.59	56.95
Reach 1	20700	0p5_BU				1.30	418.50	367.63	369.77		369.91	0.003365	2.09	333.78	473.09	0.59	56.06
Reach 1	20700	0p5-CC-LC_BU				1.56	586.00	367.63	370.03		370.18	0.003101	2.26	462.57	567.47	0.58	51.70
Reach 1	20650	5_BU				1.13	310.30	367.50	369.47		369.59	0.003096	1.83	238.08	320.70	0.55	57.86
Reach 1	20650	1_BU				1.27	389.90	367.50	369.62		369.75	0.002991	1.95	289.75	365.50	0.55	55.70
Reach 1	20650	0p5_BU				1.32	418.50	367.50	369.67		369.81	0.002981	1.99	308.13	383.88	0.55	55.21
Reach 1	20650	0p5-CC-LC_BU				1.59	586.00	367.50	369.94		370.09	0.002797	2.18	418.60	484.79	0.55	51.62
Reach 1	20600	5_BU				1.12	310.30	367.38	369.38		369.47	0.002352	1.53	250.84	285.89	0.46	67.71
Reach 1	20600	1_BU				1.25	389.90	367.38	369.53		369.64	0.002396	1.64	296.95	328.47	0.47	66.20

HEC-RAS Plan: KR_Jam_2254 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	20600	0p5_BU				1.29	418.50	367.38	369.58		369.70	0.002415	1.69	313.35	348.73	0.47	65.76
Reach 1	20600	0p5-CC-LC_BU				1.51	586.00	367.38	369.85		369.98	0.002425	1.86	420.00	504.18	0.48	62.79
Reach 1	20550	5_BU				1.14	310.30	367.25	369.20		369.34	0.003036	1.81	226.63	325.75	0.54	77.10
Reach 1	20550	1_BU				1.28	389.90	367.25	369.35		369.51	0.003049	1.97	276.23	374.52	0.55	75.12
Reach 1	20550	0p5_BU				1.33	418.50	367.25	369.40		369.56	0.003040	2.01	294.45	391.52	0.56	74.34
Reach 1	20550	0p5-CC-LC_BU				1.59	586.00	367.25	369.66		369.85	0.002903	2.22	418.04	590.28	0.56	70.06
Reach 1	20400	5_BU				0.94	310.30	366.84	368.57		368.76	0.005556	2.16	170.25	229.54	0.71	63.53
Reach 1	20400	1_BU				1.06	389.90	366.84	368.69		368.92	0.005728	2.37	201.33	261.33	0.74	63.13
Reach 1	20400	0p5_BU				1.09	418.50	366.84	368.73		368.97	0.005845	2.45	211.49	271.49	0.75	62.94
Reach 1	20400	0p5-CC-LC_BU				1.30	586.00	366.84	368.95	368.72	369.25	0.006339	2.86	284.26	409.66	0.80	63.17
Reach 1	20221	5_BU				0.91	310.30	365.65	368.04		368.09	0.001942	1.10	336.42	488.26	0.37	56.84
Reach 1	20221	1_BU				1.03	389.90	365.65	368.18		368.24	0.001936	1.18	410.32	586.86	0.37	56.33
Reach 1	20221	0p5_BU				1.07	418.50	365.65	368.23		368.29	0.001896	1.20	439.59	618.86	0.37	55.74
Reach 1	20221	0p5-CC-LC_BU				1.23	586.00	365.65	368.45		368.51	0.002045	1.33	585.41	787.15	0.38	53.24
Reach 1	19763	5_BU				0.88	310.30	364.71	366.75		366.84	0.004562	1.41	236.51	330.42	0.48	91.75
Reach 1	19763	1_BU				0.92	389.90	364.71	366.97		367.05	0.004076	1.31	327.58	505.95	0.44	87.18
Reach 1	19763	0p5_BU				0.91	418.50	364.71	367.05		367.12	0.004019	1.26	372.38	590.30	0.42	85.23
Reach 1	19763	0p5-CC-LC_BU				1.02	586.00	364.71	367.38		367.43	0.003116	1.11	600.04	814.54	0.35	75.78
Reach 1	19335	5_BU				1.35	310.30	363.23	365.56	364.87	365.66	0.001963	1.49	237.40	275.09	0.41	94.40
Reach 1	19335	1_BU				1.44	389.90	363.23	365.72	365.07	365.85	0.002265	1.62	289.65	352.69	0.43	92.01
Reach 1	19335	0p5_BU				1.48	418.50	363.23	365.78	365.11	365.91	0.002361	1.66	308.71	384.43	0.44	91.44
Reach 1	19335	0p5-CC-LC_BU				1.43	586.00	363.23	366.11	365.35	366.23	0.003271	1.64	487.32	709.56	0.44	80.73
Reach 1	19009	5_BU				0.64	310.30	362.65	364.93	364.42	364.99	0.002114	1.07	296.34	498.95	0.43	99.54
Reach 1	19009	1_BU				0.68	389.90	362.65	365.06	364.53	365.12	0.002120	1.10	366.57	606.34	0.43	99.06
Reach 1	19009	0p5_BU				0.69	418.50	362.65	365.09	364.57	365.16	0.002157	1.11	389.60	639.56	0.43	98.89
Reach 1	19009	0p5-CC-LC_BU				0.79	586.00	362.65	365.28	364.80	365.35	0.002247	1.19	523.19	793.28	0.43	97.63
Reach 1	18575	5_BU				0.63	310.30	361.28	363.68	363.15	363.73	0.004237	1.00	318.76	567.80	0.40	96.79
Reach 1	18575	1_BU				0.68	389.90	361.28	363.82	363.27	363.87	0.004058	0.98	412.11	715.80	0.38	95.68
Reach 1	18575	0p5_BU				0.70	418.50	361.28	363.87	363.31	363.92	0.003946	0.99	443.08	748.03	0.38	95.26
Reach 1	18575	0p5-CC-LC_BU				0.83	586.00	361.28	364.06	363.53	364.11	0.003706	1.05	601.50	931.18	0.37	93.44
Reach 1	18123	5_BU				1.07	310.30	360.36	362.21	361.82	362.32	0.002875	1.69	238.94	334.97	0.52	66.31
Reach 1	18123	1_BU				1.14	389.90	360.36	362.34	361.97	362.46	0.003046	1.81	287.24	396.99	0.54	63.78
Reach 1	18123	0p5_BU				1.13	418.50	360.36	362.39	362.00	362.51	0.003118	1.83	307.15	428.45	0.55	62.49
Reach 1	18123	0p5-CC-LC_BU				1.20	586.00	360.36	362.63	362.22	362.76	0.003193	1.92	442.24	660.85	0.56	58.26
Reach 1	18000	5_BU				0.99	310.30	359.91	361.94	361.48	362.01	0.002860	1.49	296.38	463.08	0.48	49.86
Reach 1	18000	1_BU				1.12	389.90	359.91	362.09	361.68	362.16	0.002638	1.55	367.14	498.75	0.47	47.49
Reach 1	18000	0p5_BU				1.15	418.50	359.91	362.14	361.71	362.21	0.002596	1.57	392.10	526.92	0.47	46.67
Reach 1	18000	0p5-CC-LC_BU				1.10	586.00	359.91	362.40	361.85	362.47	0.002556	1.52	544.36	669.25	0.46	40.46
Reach 1	17900	5_BU				0.95	310.30	359.66	361.67	361.24	361.77	0.003020	1.58	242.42	360.65	0.52	53.91
Reach 1	17900	1_BU				1.08	389.90	359.66	361.84	361.35	361.94	0.002870	1.67	305.84	417.39	0.51	53.27
Reach 1	17900	0p5_BU				1.12	418.50	359.66	361.89	361.43	361.99	0.002853	1.70	327.50	443.60	0.51	53.00
Reach 1	17900	0p5-CC-LC_BU				1.24	586.00	359.66	362.13	361.64	362.25	0.002933	1.83	452.37	582.85	0.53	50.21
Reach 1	17850	5_BU				1.00	310.30	359.56	361.56	361.04	361.65	0.002775	1.59	258.96	344.65	0.51	59.90
Reach 1	17850	1_BU				1.15	389.90	359.56	361.71	361.20	361.82	0.002745	1.73	317.12	402.50	0.52	60.30
Reach 1	17850	0p5_BU				1.19	418.50	359.56	361.76	361.29	361.87	0.002723	1.77	337.42	423.61	0.52	59.92
Reach 1	17850	0p5-CC-LC_BU				1.39	586.00	359.56	361.99	361.50	362.13	0.002816	2.02	448.18	561.09	0.54	57.93
Reach 1	17800	5_BU				1.13	310.30	359.59	361.43	360.93	361.52	0.002534	1.65	276.88	396.20	0.50	58.23
Reach 1	17800	1_BU				1.15	389.90	359.59	361.60	361.11	361.69	0.002519	1.66	356.33	528.23	0.50	54.08
Reach 1	17800	0p5_BU				1.17	418.50	359.59	361.65	361.15	361.74	0.002531	1.69	384.12	556.48	0.50	53.46
Reach 1	17800	0p5-CC-LC_BU				1.38	586.00	359.59	361.89	361.41	361.99	0.002390	1.83	529.28	665.52	0.50	50.10
Reach 1	17750	5_BU				1.16	310.30	359.63	361.22	360.84	361.36	0.003583	1.96	222.48	326.95	0.58	56.67
Reach 1	17750	1_BU				1.27	389.90	359.63	361.38	361.01	361.52	0.003565	2.07	281.34	437.95	0.58	54.20
Reach 1	17750	0p5_BU				1.31	418.50	359.63	361.43	361.06	361.58	0.003552	2.09	304.56	470.02	0.58	53.26
Reach 1	17750	0p5-CC-LC_BU				1.51	586.00	359.63	361.68	361.30	361.83	0.003461	2.25	435.21	607.39	0.58	48.71
Reach 1	17700	5_BU				1.16	310.30	359.33	361.01	360.56	361.13	0.002672	1.73	232.84	346.60	0.51	60.72
Reach 1	17700	1_BU				1.29	389.90	359.33	361.17	360.69	361.29	0.002695	1.86	293.22	448.97	0.52	59.04
Reach 1	17700	0p5_BU				1.34	418.50	359.33	361.22	360.73	361.34	0.002673	1.90	316.70	487.24	0.52	58.16
Reach 1	17700	0p5-CC-LC_BU				1.58	586.00	359.33	361.46	360.96	361.60	0.002646	2.10	448.63	625.66	0.54	54.33
Reach 1	17650	5_BU				1.00	310.30	359.01	360.74	360.23	360.81	0.002061	1.39	277.45	397.42	0.44	55.45
Reach 1	17650	1_BU				1.15	389.90	359.01	360.89	360.35	360.97	0.001979	1.48	347.26	497.90	0.44	54.45
Reach 1	17650	0p5_BU				1.20	418.50	359.01	360.94	360.40	361.02	0.001964	1.51	373.11	529.22	0.44	54.10
Reach 1	17650	0p5-CC-LC_BU				1.41	586.00	359.01	361.17	360.60	361.26	0.002015	1.69	506.96	647.48	0.46	51.56
Reach 1	17600	5_BU				0.90	310.30	358.88	360.60	360.06	360.68	0.002311	1.35	252.03	368.78	0.46	40.29
Reach 1	17600	1_BU				0.97	389.90	358.88	360.76	360.20	360.84	0.002348	1.44	324.30	507.47	0.47	40.71
Reach 1	17600	0p5_BU				1.00	418.50	358.88	360.82	360.24	360.89	0.002333	1.45	352.39	547.99	0.47	40.51
Reach 1	17600	0p5-CC-LC_BU				1.22	586.00	358.88	361.04	360.50	361.13	0.002394	1.68	489.68	672.99	0.49	40.96
Reach 1	17574	5_BU				0.81	310.30	358.84	360.54	360.01	360.61	0.002531	1.31	263.32	416.15	0.47	37.02
Reach 1	17574	1_BU				0.90	389.90	358.84	360.70	360.16	360.77	0.002419	1.38	342.01	516.65	0.46	37.61
Reach 1	17574	0p5_BU				0.93	418.50	358.84	360.76	360.21	360.83	0.002404	1.40	370.27	551.83	0.47	37.87
Reach 1	17574	0p5-CC-LC_BU				1.12	586.00	358.84	360.98	360.47	361.06	0.002421	1.60	502.67	635.09	0.48	38.40
Reach 1	17500	5_BU				0.61	310.30	358.91	360.39	359.88	360.44	0.001799	0.93	310.55	507.82	0.38	26.18
Reach 1	17500	1_BU				0.75	389.90	358.91	360.58	360.01	360.62	0.001497	0.98	422.96	672.17	0.36	29.10
Reach 1	17500	0p5_BU				0.80	418.50	358.91	360.63	360.05	360.68	0.001550	1.04	458.49	710.02	0.37	30.65
Reach 1	17500	0p5-CC-LC_BU				1.03	586.00	358.91	360.87	360.28	360.91	0.001413	1.16	645.66	870.45	0.37	31.75
Reach 1	17450	5_BU				0.79	310.30	359.04	360.34	359.76	360.40	0.001853	1.11	310.59	532.63	0.40	23.84
Reach 1	17450	1_BU				0.97	389.90	359.04	360.53	359.87	360.58	0.001538	1.16	428.40	668.01	0.38	24.81
Reach 1	17450	0p5_BU				1.02	418.50	359.04	360.58	359.91	360.63	0.001499	1.18	462.84	705.97	0.37	24.77
Reach 1	17450	0p5-CC-LC_BU				1.25	586.00	359.04	360.82	360.18	360.87	0.001376	1.30	650.73	862.50	0.37	23.97
Reach 1	17350	5_BU				0.83	310.30	358.05	360.04	359.63	360.21	0.003855	1.51	182.52	224.25	0.53	36.48
Reach 1	17350	1_BU				0.79	389.90	358.05	360.27	359.83	360.42	0.003758	1.47	250.01	405.70	0.53	36.92
Reach 1	17350	0p5_BU				0.80	418.50	358.05	360.34	359.90	360.48	0.003538	1.44	284.05	490.19	0.52	37.23
Reach 1	17350	0p5-CC-LC_BU				0.96	586.00	358.05	360.65	360.32	360.74	0.002816	1.46	487.11	805.07	0.48	38.71
Reach 1	17200	5_BU				0.90	310.30	357.76	359.56	359.23	359.81	0.006161	2.00	148.21	156.56	0.67	45.45
Reach 1	17200	1_BU				1.08	389.90	357.76	359.81	359.38	360.05	0.005085	2.04	191.80	197.05	0.63	47.81
Reach 1	17200	0p5_BU				1.15	418.50	357.76	359.88	359.48	360.13	0.004868	2.07	207.68	236.80	0.62	48.42
Reach 1	17200	0p5-CC-LC_BU				1.53	586.00	357.76	360.27	359.87	360.46	0.003839	2.20	356.12	541.25	0.57	49.03
Reach 1	17050	5_BU				2.08	310.30	356.29	359.31	358.29	359.46	0.001286	1.73	195.75	168.81	0.38	98.42
Reach 1	17050	1_BU				2.28	389.90	356.29	359.52	358.49	359.70	0.001441	1.93	244.64	284.64	0.41	96.30
Reach 1	17050	0p5_BU				2.34	418.50	356.29	359.59	358.56	359.78	0.001482	1.99	264.96	326.43	0.42	95.22
Reach 1	17050	0p5-CC-LC_BU				2.67	586.00	356.29	359.92	358.91	360.15	0.001595	2.25	408.12	557.30	0.44	87.84
Reach 1	16812	5_BU				1.29	310.30	354.74	358.79	358.37	359.00	0.003176	2.03	164.67	172.46	0.57	97.13
Reach 1	16812	1_BU				1.44	389.90	354.74	358.98	358.54	359.22	0.003193	2.21	199.14	203.94	0.59	96.17
Reach 1	16812	0p5_BU				1.50	418.50	354.74	359.04	358.59	359.29	0.003192	2.26	211.79	219.23	0.59	95.61
Reach 1	16812	0p5-CC-LC_BU				1.80	586.00	354.74	359.33	358.94	359.64	0.003263	2.55	288.64	290.27	0.61	92.15
Reach 1	16285	5_BU				1.29	310.30	354.72	357.31	356.83	357.47	0.002544	1.79	186.03	178.06	0.50	96.89
Reach 1	16285	1_BU				1.47	389.90	354.72	357.49	357.00	357.68	0.002533	1.95	219.80	195.26	0.51	95.47
Reach 1	16285	0p5_BU				1.53	418.50	354.72	357.55	357.05	357.75	0.002503	1.99	233.03	213.33	0.51	95.03
Reach 1	16285	0p5-CC-LC_BU				1.89	586.00	354.72	357.91	357.31	358.13	0.002260	2.18	330.56	349.48	0.51	91.31

HEC-RAS Plan: KR_Jam_2254 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	15937	5_BU				1.15	310.30	353.96	356.55	355.99	356.66	0.001993	1.48	213.08	196.51	0.44	99.64
Reach 1	15937	1_BU				1.32	389.90	353.96	356.79	356.15	356.91	0.001754	1.52	262.73	218.22	0.42	99.27
Reach 1	15937	0p5_BU				1.37	418.50	353.96	356.88	356.19	356.99	0.001694	1.53	282.03	231.75	0.42	99.11
Reach 1	15937	0p5-CC-LC_BU				1.53	586.00	353.96	357.31	356.41	357.43	0.001506	1.55	401.68	322.50	0.40	97.68
Reach 1	15657	5_BU				1.80	310.30	352.57	355.89	355.16	356.09	0.002009	2.00	156.62	94.77	0.48	99.89
Reach 1	15657	1_BU				1.98	389.90	352.57	356.08	355.35	356.34	0.002275	2.26	176.12	114.07	0.51	99.71
Reach 1	15657	0p5_BU				2.05	418.50	352.57	356.15	355.42	356.43	0.002331	2.34	184.40	123.76	0.52	99.58
Reach 1	15657	0p5-CC-LC_BU				2.33	586.00	352.57	356.43	355.77	356.84	0.002921	2.86	226.94	196.65	0.60	98.51
Reach 1	15073	5_BU				1.03	310.30	351.49	354.04	353.78	354.29	0.005298	2.22	139.94	136.15	0.70	100.00
Reach 1	15073	1_BU				1.17	389.90	351.49	354.31	353.94	354.55	0.004314	2.18	178.93	153.78	0.64	99.97
Reach 1	15073	0p5_BU				1.18	418.50	351.49	354.41	353.99	354.64	0.004107	2.15	195.11	165.66	0.63	99.95
Reach 1	15073	0p5-CC-LC_BU				1.50	586.00	351.49	354.93	354.28	355.14	0.002695	2.04	288.09	193.33	0.53	99.86
Reach 1	14797	5_BU				1.93	310.30	350.08	353.33	352.47	353.51	0.001652	1.88	164.99	85.46	0.43	100.00
Reach 1	14797	1_BU				2.20	389.90	350.08	353.63	352.66	353.85	0.001641	2.04	190.74	86.57	0.44	100.00
Reach 1	14797	0p5_BU				2.29	418.50	350.08	353.73	352.73	353.96	0.001638	2.10	199.49	86.94	0.44	100.00
Reach 1	14797	0p5-CC-LC_BU				2.79	586.00	350.08	354.27	353.09	354.56	0.001665	2.38	246.59	88.73	0.45	100.00
Reach 1	14088	5_BU				1.84	320.00	349.51	352.07	351.30	352.26	0.001887	1.96	163.20	156.19	0.46	99.97
Reach 1	14088	1_BU				2.02	403.00	349.51	352.25	351.51	352.51	0.002188	2.25	179.49	159.65	0.51	99.92
Reach 1	14088	0p5_BU				2.08	433.00	349.51	352.31	351.57	352.59	0.002293	2.35	184.87	161.17	0.52	99.90
Reach 1	14088	0p5-CC-LC_BU				2.38	606.20	349.51	352.61	351.92	353.03	0.002826	2.86	213.11	193.90	0.59	99.75
Reach 1	14004	5_BU				1.34	320.00	349.38	351.76	351.47	352.00	0.003720	2.24	154.58	406.98	0.62	92.14
Reach 1	14004	1_BU				1.49	403.00	349.38	351.91	351.64	352.20	0.003913	2.47	177.25	423.28	0.64	89.75
Reach 1	14004	0p5_BU				1.55	433.00	349.38	351.96	351.70	352.27	0.003966	2.54	185.01	430.68	0.65	89.02
Reach 1	14004	0p5-CC-LC_BU				1.83	606.20	349.38	352.25	351.96	352.64	0.004070	2.88	228.44	498.77	0.68	85.56
Reach 1	13755	5_BU				1.05	320.00	347.42	350.84	350.38	350.98	0.003002	1.70	188.76	474.85	0.53	64.78
Reach 1	13755	1_BU				1.24	403.00	347.42	351.03	350.54	351.19	0.002746	1.81	226.33	538.97	0.52	64.86
Reach 1	13755	0p5_BU				1.30	433.00	347.42	351.09	350.60	351.26	0.002685	1.85	239.27	563.02	0.52	64.75
Reach 1	13755	0p5-CC-LC_BU				1.55	606.20	347.42	351.35	350.85	351.56	0.002842	2.14	299.78	633.83	0.55	64.09
Reach 1	13404	5_BU				1.57	320.00	346.33	349.21	349.07	349.66	0.005546	3.02	115.39	194.73	0.77	94.39
Reach 1	13404	1_BU				1.74	403.00	346.33	349.40	349.33	349.91	0.005810	3.30	137.39	221.46	0.80	91.30
Reach 1	13404	0p5_BU				1.79	433.00	346.33	349.45	349.38	349.99	0.005889	3.39	145.42	228.79	0.81	90.21
Reach 1	13404	0p5-CC-LC_BU				2.16	606.20	346.33	349.83	349.83	350.36	0.004970	3.53	215.55	338.32	0.77	81.10
Reach 1	13209	5_BU				1.59	320.00	345.37	348.73	348.16	348.91	0.002341	1.98	180.57	298.16	0.50	85.41
Reach 1	13209	1_BU				1.81	403.00	345.37	348.95	348.37	349.15	0.002256	2.11	215.61	311.89	0.50	82.40
Reach 1	13209	0p5_BU				1.88	433.00	345.37	349.01	348.43	349.22	0.002251	2.16	226.31	313.19	0.50	81.27
Reach 1	13209	0p5-CC-LC_BU				2.20	606.20	345.37	349.34	348.74	349.60	0.002308	2.43	279.56	329.02	0.52	76.65
Reach 1	13100	5_BU				1.53	320.00	345.58	348.43	347.89	348.63	0.002530	2.01	167.58	550.93	0.52	98.07
Reach 1	13100	1_BU				1.77	403.00	345.58	348.67	348.07	348.89	0.002289	2.11	209.49	615.83	0.51	94.73
Reach 1	13100	0p5_BU				1.83	433.00	345.58	348.74	348.14	348.96	0.002283	2.16	221.36	629.43	0.51	93.59
Reach 1	13100	0p5-CC-LC_BU				2.15	606.20	345.58	349.06	348.54	349.33	0.002344	2.44	279.88	723.48	0.53	88.46
Reach 1	13000	5_BU				1.26	320.00	345.10	347.52	347.52	348.15	0.009954	3.51	91.13	184.47	1.00	100.00
Reach 1	13000	1_BU				1.10	403.00	345.10	347.92	347.92	348.45	0.009925	3.20	126.89	334.53	0.98	99.70
Reach 1	13000	0p5_BU				1.13	433.00	345.10	347.98	347.98	348.52	0.009856	3.26	134.58	348.55	0.98	99.52
Reach 1	13000	0p5-CC-LC_BU				1.39	606.20	345.10	348.30	348.30	348.91	0.008577	3.49	179.40	435.98	0.94	97.90
Reach 1	12950	5_BU				1.56	320.00	344.85	347.63	346.40	347.70	0.000835	1.17	272.75	503.53	0.30	100.00
Reach 1	12950	1_BU				1.66	403.00	344.85	347.80	346.56	347.89	0.000973	1.32	305.77	538.18	0.33	99.98
Reach 1	12950	0p5_BU				1.71	433.00	344.85	347.86	346.62	347.96	0.001003	1.37	317.47	549.79	0.33	99.94
Reach 1	12950	0p5-CC-LC_BU				1.96	606.20	344.85	348.13	346.89	348.27	0.001205	1.64	378.37	663.55	0.37	99.25
Reach 1	12887	5_BU				1.05	320.00	344.53	347.45	346.95	347.60	0.003024	1.71	188.96	348.90	0.53	99.38
Reach 1	12887	1_BU				1.12	403.00	344.53	347.61	347.12	347.78	0.003235	1.85	220.56	373.70	0.56	98.99
Reach 1	12887	0p5_BU				1.12	433.00	344.53	347.67	347.17	347.85	0.003372	1.88	232.13	386.49	0.57	98.84
Reach 1	12887	0p5-CC-LC_BU				1.30	606.20	344.53	347.91	347.47	348.14	0.003542	2.14	290.23	441.36	0.60	98.40
Reach 1	12850	5_BU				0.76	320.00	344.40	347.00	347.00	347.38	0.011768	2.72	117.56	295.82	1.00	100.00
Reach 1	12850	1_BU				0.80	403.00	344.40	347.16	347.16	347.56	0.011472	2.79	144.67	346.12	0.99	99.99
Reach 1	12850	0p5_BU				0.82	433.00	344.40	347.21	347.21	347.62	0.011356	2.81	154.13	358.77	0.99	99.99
Reach 1	12850	0p5-CC-LC_BU				1.09	606.20	344.40	347.72	347.45	347.98	0.005000	2.27	269.33	498.23	0.69	99.76
Reach 1	12800	5_BU				1.13	320.00	343.70	346.67	346.29	346.89	0.003993	2.07	154.86	251.95	0.62	99.97
Reach 1	12800	1_BU				1.28	403.00	343.70	347.03	346.45	347.20	0.002820	1.89	224.02	434.02	0.53	97.70
Reach 1	12800	0p5_BU				1.35	433.00	343.70	347.15	346.51	347.31	0.002411	1.81	257.43	471.65	0.50	96.01
Reach 1	12800	0p5-CC-LC_BU				1.75	606.20	343.70	347.71	346.89	347.83	0.001281	1.57	438.76	681.63	0.38	86.22
Reach 1	12735	5_BU				2.19	320.00	340.98	346.75	344.02	346.79	0.000263	0.82	402.63	365.39	0.18	98.81
Reach 1	12735	1_BU				2.47	403.00	340.98	347.09	344.27	347.12	0.000252	0.87	499.59	441.45	0.18	96.04
Reach 1	12735	0p5_BU				2.58	433.00	340.98	347.20	344.35	347.24	0.000243	0.89	536.95	473.84	0.18	94.89
Reach 1	12735	0p5-CC-LC_BU				3.12	606.20	340.98	347.73	344.85	347.78	0.000223	0.96	722.68	586.00	0.17	88.70
Reach 1	12700	5_BU				2.13	320.00	342.78	346.71	345.06	346.77	0.000501	1.12	324.08	394.09	0.24	90.32
Reach 1	12700	1_BU				2.41	403.00	342.78	347.05	345.27	347.11	0.000448	1.15	413.64	483.39	0.24	85.30
Reach 1	12700	0p5_BU				2.51	433.00	342.78	347.17	345.35	347.23	0.000421	1.14	448.20	502.05	0.23	83.11
Reach 1	12700	0p5-CC-LC_BU				3.04	606.20	342.78	347.70	345.79	347.76	0.000363	1.21	622.72	670.36	0.22	75.88
Reach 1	12650	5_BU				2.32	320.00	342.92	346.64	345.22	346.74	0.000753	1.45	252.50	325.79	0.30	87.31
Reach 1	12650	1_BU				2.63	403.00	342.92	346.97	345.47	347.07	0.000695	1.51	309.47	403.37	0.30	82.88
Reach 1	12650	0p5_BU				2.75	433.00	342.92	347.09	345.57	347.19	0.000691	1.55	332.99	441.04	0.30	82.55
Reach 1	12650	0p5-CC-LC_BU				3.28	606.20	342.92	347.62	346.15	347.73	0.000608	1.64	479.16	631.62	0.29	74.44
Reach 1	12600	5_BU				2.36	320.00	342.87	346.55	345.54	346.68	0.001093	1.76	208.72	234.29	0.37	73.79
Reach 1	12600	1_BU				2.61	403.00	342.87	346.88	345.81	347.02	0.001060	1.85	251.57	323.60	0.37	70.31
Reach 1	12600	0p5_BU				2.73	433.00	342.87	346.99	345.88	347.14	0.001026	1.87	269.15	380.40	0.36	69.28
Reach 1	12600	0p5-CC-LC_BU				3.26	606.20	342.87	347.53	346.23	347.68	0.000949	2.03	405.92	672.93	0.36	64.17
Reach 1	12550	5_BU				2.22	320.00	343.00	346.54	345.29	346.63	0.000725	1.38	273.46	527.51	0.30	81.65
Reach 1	12550	1_BU				2.56	403.00	343.00	346.88	345.65	346.96	0.000605	1.39	369.71	661.56	0.28	75.28
Reach 1	12550	0p5_BU				2.69	433.00	343.00	347.01	345.75	347.08	0.000549	1.37	412.02	715.94	0.27	72.24
Reach 1	12550	0p5-CC-LC_BU				3.24	606.20	343.00	347.56	346.12	347.63	0.000408	1.34	637.26	878.19	0.24	60.83
Reach 1	12500	5_BU				1.42	320.00	343.14	346.46	345.73	346.57	0.001454	1.46	229.44	387.16	0.39	98.48
Reach 1	12500	1_BU				1.75	403.00	343.14	346.81	345.90	346.92	0.001097	1.45	296.87	431.74	0.35	97.33
Reach 1	12500	0p5_BU				1.87	433.00	343.14	346.93	345.95	347.04	0.001007	1.46	326.27	500.79	0.34	97.19
Reach 1	12500	0p5-CC-LC_BU				2.43	606.20	343.14	347.49	346.20	347.59	0.000702	1.45	595.49	952.06	0.30	89.77
Reach 1	12436	5_BU				1.61	320.00	343.08	345.50	345.50	346.31	0.009314	3.97	81.44	159.70	1.00	99.85
Reach 1	12436	1_BU				1.92	403.00	343.08	345.82	345.82	346.69	0.008060	4.16	100.94	189.19	0.96	99.10
Reach 1	12436	0p5_BU				2.01	433.00	343.08	345.90	345.90	346.82	0.007976	4.26	106.77	192.24	0.96	98.80
Reach 1	12436	0p5-CC-LC_BU				2.73	606.20	343.08	346.62	346.62	347.43	0.004947	4.12	180.63	349.80	0.79	92.64
Reach 1	12300	5_BU				1.78	320.00	342.78	345.33	344.60	345.53	0.002035	2.00	179.61	385.48	0.48	96.16
Reach 1	12300	1_BU				1.99	403.00	342.78	345.56	344.84	345.79	0.002081	2.18	216.40	427.85	0.49	93.92
Reach 1	12300	0p5_BU				2.07	433.00	342.78	345.63	344.92	345.87	0.002104	2.24	228.89	446.49	0.50	93.18
Reach 1	12300	0p5-CC-LC_BU				2.41	606.20	342.78	345.97	345.33	346.28	0.002280	2.58	297.98	508.88	0.53	89.32
Reach 1	11788	5_BU				1.50	320.00	342.07	344.28	343.70	344.43	0.002150	1.82	189.03	494.22	0.48	86.94
Reach 1	11788	1_BU				1.62	403.00	342.07	344.49	343.86	344.66	0.002202	1.95	229.44	547.83	0.49	84.21
Reach 1	11788	0p5_BU				1.67	433.00	342.07	344.56	343.91	344.74	0.002202	1.99	244.34	563.24	0.49	83.35
Reach 1	11788	0p5-CC-LC_BU				2.00	606.20	342.07	344.92	344.21	345.12	0.002044	2.16	352.36	733.30	0.49	79.07
Reach 1	11514	5_BU				1.15	320.00	340.85	343.20	342.96	343.52	0.005754	2.52	128.50	248.30	0.75	99.68

HEC-RAS Plan: KR_Jam_2254 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	11514	1_BU				1.36	403.00	340.85	343.42	343.16	343.78	0.005136	2.66	154.38	314.65	0.73	99.50
Reach 1	11514	0p5_BU				1.45	433.00	340.85	343.51	343.22	343.87	0.004825	2.68	165.34	351.59	0.71	99.39
Reach 1	11514	0p5-CC-LC_BU				1.78	606.20	340.85	343.85	343.51	344.31	0.004636	3.01	212.99	435.24	0.72	98.71
Reach 1	11034	5_BU				1.76	320.00	338.63	342.19		342.31	0.001320	1.59	209.27	299.51	0.38	94.76
Reach 1	11034	1_BU				1.93	403.00	338.63	342.47		342.61	0.001325	1.69	251.35	377.96	0.39	93.19
Reach 1	11034	0p5_BU				1.98	433.00	338.63	342.56		342.71	0.001354	1.75	268.42	405.64	0.40	93.69
Reach 1	11034	0p5-CC-LC_BU				2.26	606.20	338.63	342.98		343.15	0.001355	1.90	360.09	514.44	0.40	89.06
Reach 1	10544	5_BU				1.58	320.00	337.82	341.05		341.33	0.003273	2.34	141.82	282.87	0.59	99.16
Reach 1	10544	1_BU				1.78	403.00	337.82	341.26		341.60	0.003387	2.57	172.41	350.27	0.62	98.37
Reach 1	10544	0p5_BU				1.84	433.00	337.82	341.34		341.69	0.003379	2.63	185.52	373.13	0.62	97.77
Reach 1	10544	0p5-CC-LC_BU				2.20	606.20	337.82	341.71	341.25	342.12	0.003315	2.93	271.67	504.87	0.63	93.42
Reach 1	9771	5_BU				1.38	320.00	336.80	339.07		339.22	0.002221	1.77	189.58	510.56	0.48	97.49
Reach 1	9771	1_BU				1.55	403.00	336.80	339.26		339.45	0.002237	1.92	223.17	623.30	0.49	96.22
Reach 1	9771	0p5_BU				1.60	433.00	336.80	339.32		339.51	0.002286	1.98	233.28	646.96	0.50	95.80
Reach 1	9771	0p5-CC-LC_BU				1.88	606.20	336.80	339.60		339.85	0.002519	2.31	288.66	741.62	0.54	93.50
Reach 1	8903	5_BU				1.72	320.00	333.65	336.76		337.04	0.003232	2.44	148.51	322.20	0.60	85.53
Reach 1	8903	1_BU				1.92	403.00	333.65	337.00		337.30	0.003173	2.61	184.71	433.04	0.60	82.48
Reach 1	8903	0p5_BU				1.98	433.00	333.65	337.08		337.38	0.003097	2.63	200.13	459.69	0.60	80.85
Reach 1	8903	0p5-CC-LC_BU				2.30	606.20	333.65	337.45		337.77	0.002871	2.80	281.96	539.53	0.59	73.03
Reach 1	8300	5_BU				1.67	320.00	332.67	335.37		335.54	0.001933	1.87	190.29	318.02	0.46	95.51
Reach 1	8300	1_BU				1.88	403.00	332.67	335.59		335.80	0.001993	2.05	228.56	385.20	0.48	94.26
Reach 1	8300	0p5_BU				1.95	433.00	332.67	335.67		335.89	0.002032	2.12	243.02	414.95	0.48	94.36
Reach 1	8300	0p5-CC-LC_BU				2.26	606.20	332.67	336.02		336.29	0.002172	2.42	337.33	603.61	0.51	90.96
Reach 1	7514	5_BU				1.32	320.00	330.29	332.85		333.20	0.005065	2.66	128.63	313.89	0.74	96.68
Reach 1	7514	1_BU				1.51	403.00	330.29	333.08		333.47	0.004723	2.82	154.62	334.68	0.73	96.09
Reach 1	7514	0p5_BU				1.60	433.00	330.29	333.17		333.57	0.004549	2.86	165.73	356.61	0.72	95.82
Reach 1	7514	0p5-CC-LC_BU				2.02	606.20	330.29	333.61	333.21	334.05	0.003876	3.03	252.47	501.77	0.68	92.72
Reach 1	6800	5_BU				2.02	320.00	327.67	330.75		330.99	0.002035	2.16	147.90	172.09	0.49	100.00
Reach 1	6800	1_BU				2.33	403.00	327.67	331.06		331.34	0.001996	2.35	171.92	243.05	0.49	99.91
Reach 1	6800	0p5_BU				2.41	433.00	327.67	331.15		331.45	0.002032	2.44	178.95	252.79	0.50	99.83
Reach 1	6800	0p5-CC-LC_BU				2.93	606.20	327.67	331.67		332.06	0.002054	2.79	221.69	291.34	0.52	99.07
Reach 1	6650	5_BU				1.60	320.00	327.66	330.43		330.64	0.002467	2.03	158.71	302.71	0.51	99.89
Reach 1	6650	1_BU				1.57	403.00	327.66	330.77		330.99	0.002542	2.05	199.90	354.43	0.52	99.73
Reach 1	6650	0p5_BU				1.69	433.00	327.66	330.89		331.10	0.002334	2.05	214.65	358.44	0.50	99.68
Reach 1	6650	0p5-CC-LC_BU				2.32	606.20	327.66	331.52		331.74	0.001560	2.08	301.26	407.77	0.44	99.31
Reach 1	6563	5_BU				1.40	320.00	327.63	330.23		330.41	0.002627	1.93	176.49	189.07	0.52	97.70
Reach 1	6563	1_BU				1.72	403.00	327.63	330.61		330.79	0.001910	1.89	227.45	208.59	0.46	97.52
Reach 1	6563	0p5_BU				1.85	433.00	327.63	330.74		330.91	0.001737	1.89	245.01	217.48	0.44	97.49
Reach 1	6563	0p5-CC-LC_BU				2.54	606.20	327.63	331.43		331.61	0.001172	1.92	341.70	284.82	0.38	97.24
Reach 1	6400	5_BU				2.29	320.00	325.72	329.86		330.05	0.001947	1.92	166.92	132.56	0.40	100.00
Reach 1	6400	1_BU				2.65	403.00	325.72	330.26		330.47	0.001901	2.06	196.06	146.95	0.40	100.00
Reach 1	6400	0p5_BU				2.77	433.00	325.72	330.39		330.61	0.001896	2.10	205.90	153.62	0.40	100.00
Reach 1	6400	0p5-CC-LC_BU				3.39	606.20	325.72	331.09		331.37	0.001856	2.34	258.65	288.00	0.41	100.00
Reach 1	6300	5_BU				2.38	320.00	325.66	329.61		329.86	0.001694	2.21	145.14	95.39	0.46	100.00
Reach 1	6300	1_BU				2.77	403.00	325.66	330.00		330.29	0.001625	2.39	169.15	102.40	0.46	99.95
Reach 1	6300	0p5_BU				2.89	433.00	325.66	330.12		330.43	0.001613	2.45	177.18	105.95	0.46	99.92
Reach 1	6300	0p5-CC-LC_BU				3.56	606.20	325.66	330.79		331.18	0.001567	2.78	222.89	173.32	0.47	99.48
Reach 1	6200	5_BU				2.36	320.00	325.60	329.47		329.68	0.001592	2.04	157.10	139.62	0.42	100.00
Reach 1	6200	1_BU				2.72	403.00	325.60	329.87		330.12	0.001557	2.19	183.96	158.27	0.42	100.00
Reach 1	6200	0p5_BU				2.85	433.00	325.60	330.00		330.26	0.001535	2.25	193.14	171.63	0.42	99.98
Reach 1	6200	0p5-CC-LC_BU				3.54	606.20	325.60	330.69		331.01	0.001449	2.52	248.61	264.67	0.43	99.50
Reach 1	6150	5_BU				2.57	320.00	325.56	329.35		329.60	0.001556	2.22	144.41	104.58	0.44	100.00
Reach 1	6150	1_BU				2.91	403.00	325.56	329.73		330.03	0.001590	2.43	166.00	108.70	0.45	100.00
Reach 1	6150	0p5_BU				3.03	433.00	325.56	329.86		330.17	0.001597	2.50	173.26	110.27	0.46	99.99
Reach 1	6150	0p5-CC-LC_BU				3.68	606.20	325.56	330.50		330.93	0.001632	2.88	212.19	130.47	0.48	99.77
Reach 1	6100	5_BU				2.48	320.00	325.53	329.25		329.52	0.001771	2.31	138.71	83.86	0.47	100.00
Reach 1	6100	1_BU				2.81	403.00	325.53	329.62		329.95	0.001797	2.52	159.94	95.74	0.48	100.00
Reach 1	6100	0p5_BU				2.93	433.00	325.53	329.75		330.09	0.001799	2.59	167.05	103.65	0.48	100.00
Reach 1	6100	0p5-CC-LC_BU				3.57	606.20	325.53	330.39		330.84	0.001818	2.97	204.84	173.46	0.50	99.88
Reach 1	6050	5_BU				2.52	320.00	325.50	329.18		329.43	0.001590	2.21	144.85	126.35	0.44	100.00
Reach 1	6050	1_BU				2.90	403.00	325.50	329.56		329.85	0.001581	2.42	167.06	135.48	0.45	99.95
Reach 1	6050	0p5_BU				3.02	433.00	325.50	329.68		330.00	0.001585	2.49	174.52	138.47	0.46	99.92
Reach 1	6050	0p5-CC-LC_BU				3.67	606.20	325.50	330.32		330.74	0.001623	2.87	213.78	153.56	0.48	99.68
Reach 1	6000	5_BU				2.45	320.00	325.48	329.06		329.34	0.001813	2.32	138.06	100.19	0.47	100.00
Reach 1	6000	1_BU				2.78	403.00	325.48	329.44		329.76	0.001927	2.53	159.17	127.13	0.48	100.00
Reach 1	6000	0p5_BU				2.90	433.00	325.48	329.56		329.90	0.001973	2.61	166.28	129.92	0.49	99.99
Reach 1	6000	0p5-CC-LC_BU				3.52	606.20	325.48	330.19		330.65	0.002054	2.98	204.10	147.22	0.51	99.82
Reach 1	5950	5_BU				2.38	320.00	325.47	328.93		329.24	0.002133	2.46	129.83	72.92	0.51	100.00
Reach 1	5950	1_BU				2.69	403.00	325.47	329.28		329.65	0.002281	2.70	149.54	87.65	0.52	100.00
Reach 1	5950	0p5_BU				2.81	433.00	325.47	329.40		329.79	0.002291	2.77	156.11	89.10	0.53	100.00
Reach 1	5950	0p5-CC-LC_BU				3.42	606.20	325.47	330.02		330.53	0.002315	3.18	191.48	103.42	0.55	99.90
Reach 1	5900	5_BU				2.34	320.00	325.42	328.83		329.13	0.002116	2.43	131.45	88.62	0.51	100.00
Reach 1	5900	1_BU				2.70	403.00	325.42	329.18		329.54	0.002105	2.66	151.56	113.13	0.52	99.98
Reach 1	5900	0p5_BU				2.81	433.00	325.42	329.30		329.68	0.002106	2.74	158.37	114.21	0.52	99.95
Reach 1	5900	0p5-CC-LC_BU				3.43	606.20	325.42	329.92		330.42	0.002119	3.14	194.72	124.35	0.54	99.71
Reach 1	5850	5_BU				2.21	320.00	325.40	328.54		328.98	0.003333	2.94	108.84	69.00	0.63	100.00
Reach 1	5850	1_BU				2.49	403.00	325.40	328.86		329.39	0.003466	3.24	124.45	73.48	0.66	100.00
Reach 1	5850	0p5_BU				2.59	433.00	325.40	328.96		329.53	0.003501	3.34	129.60	78.05	0.66	99.99
Reach 1	5850	0p5-CC-LC_BU				3.11	606.20	325.40	329.48		330.25	0.003705	3.89	156.59	110.27	0.70	99.89
Reach 1	5800	5_BU				2.17	320.00	325.36	328.42		328.81	0.002999	2.76	116.14	102.48	0.60	100.00
Reach 1	5800	1_BU				2.46	403.00	325.36	328.74		329.21	0.003057	3.02	133.50	111.68	0.62	100.00
Reach 1	5800	0p5_BU				2.55	433.00	325.36	328.85		329.34	0.003086	3.11	139.26	119.48	0.62	99.99
Reach 1	5800	0p5-CC-LC_BU				3.08	606.20	325.36	329.39		330.05	0.003190	3.59	169.67	159.86	0.65	99.94
Reach 1	5750	5_BU				2.12	320.00	325.34	328.25		328.65	0.003176	2.80	114.21	159.34	0.61	100.00
Reach 1	5750	1_BU				2.40	403.00	325.34	328.57		329.05	0.003258	3.07	131.31	168.42	0.63	100.00
Reach 1	5750	0p5_BU				2.49	433.00	325.34	328.67		329.18	0.003285	3.16	136.97	171.15	0.64	100.00
Reach 1	5750	0p5-CC-LC_BU				3.03	606.20	325.34	329.21		329.88	0.003349	3.64	167.59	193.49	0.67	99.86
Reach 1	5724	5_BU				2.16	320.00	325.30	328.22		328.56	0.002679	2.60	123.25	81.35	0.56	100.00
Reach 1	5724	1_BU				2.46	403.00	325.30	328.54		328.95	0.002706	2.84	141.72	111.76	0.58	99.99
Reach 1	5724	0p5_BU				2.57	433.00	325.30	328.64		329.08	0.002721	2.93	147.82	124.42	0.58	99.98
Reach 1	5724	0p5-CC-LC_BU				3.12	606.20	325.30	329.20		329.78	0.002781	3.37	180.53	173.16	0.61	99.85
Reach 1	5650	5_BU				2.11	320.00	325.13	327.97		328.35	0.003048	2.73	117.29	81.80	0.60	100.00
Reach 1	5650	1_BU				2.38	403.00	325.13	328.28		328.74	0.003133	2.99	134.59	86.18	0.62	100.00
Reach 1	5650	0p5_BU				2.48	433.00	325.13	328.38		328.86	0.003152	3.09	140.30	93.80	0.63	99.99
Reach 1	5650	0p5-CC-LC_BU				3.00	606.20	325.13	328.90		329.55	0.003246	3.56	170.94	138.58	0.66	99.87
Reach 1	5550	5_BU				1.99	320.00	324.87	327.60		328.01	0.003574	2.85	112.43	71.92	0.64	100.00
Reach 1	5550	1_BU				2.24	403.00	324.87	327.89		328.39	0.003661	3.12	129.14	87.15	0.67	100.00
Reach 1	5550	0p5_BU				2.34	433.00	324.87	327.99		328.52	0.003678	3.22	134.73	91.47	0.67	99.99

HEC-RAS Plan: KR_Jam_2254 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	5550	0p5-CC-LC_BU				2.85	606.20	324.87	328.50		329.19	0.003723	3.69	164.74	119.04	0.70	99.91
Reach 1	5400	5_BU				1.94	320.00	324.48	327.25		327.53	0.002458	2.33	137.53	109.97	0.53	100.00
Reach 1	5400	1_BU				2.20	403.00	324.48	327.57		327.89	0.002419	2.51	160.46	119.44	0.54	100.00
Reach 1	5400	0p5_BU				2.29	433.00	324.48	327.68		328.02	0.002401	2.57	168.37	122.60	0.54	99.99
Reach 1	5400	0p5-CC-LC_BU				2.85	606.20	324.48	328.27		328.68	0.002218	2.86	212.76	139.72	0.54	99.92
Reach 1	5200	5_BU				2.16	320.00	323.95	326.98		327.15	0.001298	1.82	176.22	148.43	0.39	100.00
Reach 1	5200	1_BU				2.43	403.00	323.95	327.31		327.51	0.001324	1.98	203.04	160.98	0.41	100.00
Reach 1	5200	0p5_BU				2.53	433.00	323.95	327.42		327.63	0.001331	2.04	212.34	164.69	0.41	100.00
Reach 1	5200	0p5-CC-LC_BU				3.11	606.20	323.95	328.05		328.31	0.001260	2.28	266.16	193.81	0.41	99.98
Reach 1	4950	5_BU				1.77	320.00	323.31	326.55		326.74	0.002024	1.98	174.73	187.21	0.48	98.15
Reach 1	4950	1_BU				1.99	403.00	323.31	326.91		327.12	0.001836	2.04	218.37	264.63	0.46	97.49
Reach 1	4950	0p5_BU				2.11	433.00	323.31	327.04		327.25	0.001723	2.06	235.67	291.16	0.45	97.34
Reach 1	4950	0p5-CC-LC_BU				2.80	606.20	323.31	327.77		327.98	0.001244	2.09	356.59	426.59	0.40	95.49
Reach 1	4694	5_BU				1.80	320.00	322.84	326.21		326.33	0.001206	1.54	217.38	386.49	0.37	99.21
Reach 1	4694	1_BU				2.24	403.00	322.84	326.65		326.77	0.000900	1.54	280.12	411.37	0.33	98.37
Reach 1	4694	0p5_BU				2.40	433.00	322.84	326.81		326.93	0.000826	1.55	302.58	425.62	0.32	98.08
Reach 1	4694	0p5-CC-LC_BU				3.21	606.20	322.84	327.62		327.74	0.000596	1.60	427.48	509.99	0.28	96.57
Reach 1	4150	5_BU				2.67	320.00	322.29	325.74		325.84	0.000681	1.42	225.35	255.22	0.28	99.99
Reach 1	4150	1_BU				3.20	403.00	322.29	326.26		326.38	0.000592	1.49	270.83	307.73	0.27	99.90
Reach 1	4150	0p5_BU				3.37	433.00	322.29	326.44		326.56	0.000573	1.52	286.02	349.35	0.26	99.86
Reach 1	4150	0p5-CC-LC_BU				4.22	606.20	322.29	327.29		327.43	0.000528	1.70	361.89	498.66	0.26	99.60
Reach 1	3843	5_BU				2.90	320.00	322.07	325.66		325.70	0.000257	0.98	332.20	240.98	0.18	99.26
Reach 1	3843	1_BU				3.30	403.00	322.07	326.20		326.25	0.000241	1.03	399.34	319.33	0.18	99.01
Reach 1	3843	0p5_BU				3.45	433.00	322.07	326.37		326.43	0.000235	1.05	422.64	346.34	0.18	98.92
Reach 1	3843	0p5-CC-LC_BU				4.17	606.20	322.07	327.24		327.31	0.000225	1.16	538.36	604.17	0.18	98.46
Reach 1	3700	5_BU				3.58	320.00	320.95	325.67		325.68	0.000052	0.51	634.07	333.57	0.09	99.72
Reach 1	3700	1_BU				4.12	403.00	320.95	326.21		326.22	0.000052	0.56	734.07	399.99	0.09	99.57
Reach 1	3700	0p5_BU				4.30	433.00	320.95	326.39		326.40	0.000052	0.57	767.30	447.32	0.09	99.52
Reach 1	3700	0p5-CC-LC_BU				5.18	606.20	320.95	327.26		327.28	0.000055	0.66	930.25	689.80	0.09	99.29
Reach 1	3600	5_BU				4.15	320.00	320.47	325.63		325.67	0.000143	0.91	417.10	282.56	0.14	93.49
Reach 1	3600	1_BU				4.69	403.00	320.47	326.16		326.21	0.000149	1.01	482.49	390.75	0.15	92.61
Reach 1	3600	0p5_BU				4.86	433.00	320.47	326.34		326.39	0.000151	1.04	504.45	418.41	0.15	92.34
Reach 1	3600	0p5-CC-LC_BU				5.72	606.20	320.47	327.20		327.27	0.000167	1.22	628.34	636.35	0.16	90.98
Reach 1	3500	5_BU	325.25	0.40	325.65	4.42	320.00	320.12	325.62		325.65	0.000275	0.81	505.83	339.40	0.12	82.11
Reach 1	3500	1_BU	325.79	0.40	326.19	4.96	403.00	320.12	326.16		326.19	0.000266	0.86	607.87	424.70	0.12	77.73
Reach 1	3500	0p5_BU	325.97	0.40	326.37	5.14	433.00	320.12	326.34		326.37	0.000265	0.88	642.19	453.30	0.12	76.50
Reach 1	3500	0p5-CC-LC_BU	326.83	0.40	327.23	6.00	606.20	320.12	327.20		327.24	0.000270	0.99	815.53	639.47	0.13	71.44
Reach 1	3450	5_BU	324.74	0.94	325.68	4.01	320.00	319.97	325.60		325.63	0.000338	0.82	491.14	399.35	0.13	65.75
Reach 1	3450	1_BU	325.27	0.96	326.22	4.53	403.00	319.97	326.14		326.17	0.000325	0.87	577.90	442.78	0.13	62.90
Reach 1	3450	0p5_BU	325.44	0.96	326.40	4.70	433.00	319.97	326.32		326.35	0.000323	0.89	606.49	449.44	0.13	62.10
Reach 1	3450	0p5-CC-LC_BU	326.22	1.06	327.27	5.48	606.20	319.97	327.18		327.22	0.000338	1.01	747.08	612.03	0.14	58.54
Reach 1	3400	5_BU	324.48	1.19	325.67	3.92	320.00	319.80	325.57		325.61	0.000438	0.96	415.86	295.45	0.15	74.98
Reach 1	3400	1_BU	325.00	1.22	326.22	4.44	403.00	319.80	326.11		326.16	0.000420	1.02	499.92	390.92	0.15	71.69
Reach 1	3400	0p5_BU	325.17	1.23	326.40	4.61	433.00	319.80	326.29		326.34	0.000415	1.04	528.24	456.02	0.15	70.57
Reach 1	3400	0p5-CC-LC_BU	325.94	1.32	327.26	5.38	606.20	319.80	327.15		327.21	0.000423	1.16	665.49	595.28	0.16	65.88
Reach 1	3350	5_BU	324.18	1.47	325.66	3.77	320.00	319.64	325.53		325.59	0.000582	1.06	338.32	234.01	0.18	85.83
Reach 1	3350	1_BU	324.68	1.52	326.20	4.26	403.00	319.64	326.07		326.13	0.000575	1.15	398.73	363.55	0.18	83.30
Reach 1	3350	0p5_BU	324.84	1.54	326.38	4.42	433.00	319.64	326.25		326.31	0.000577	1.18	418.39	412.64	0.18	82.53
Reach 1	3350	0p5-CC-LC_BU	325.56	1.68	327.24	5.14	606.20	319.64	327.10		327.18	0.000625	1.36	512.96	597.31	0.19	78.96
Reach 1	3300	5_BU	324.01	1.63	325.65	3.71	320.00	319.48	325.51		325.54	0.000956	0.87	404.59	255.69	0.14	66.35
Reach 1	3300	1_BU	324.49	1.70	326.19	4.19	403.00	319.48	326.05		326.09	0.000971	0.96	463.55	394.36	0.15	65.00
Reach 1	3300	0p5_BU	324.64	1.72	326.37	4.34	433.00	319.48	326.22		326.27	0.000983	0.98	482.62	473.76	0.15	64.58
Reach 1	3300	0p5-CC-LC_BU	325.34	1.90	327.23	5.03	606.20	319.48	327.07		327.13	0.001101	1.15	572.92	617.50	0.16	62.45
Reach 1	3275	5_BU	323.74	1.85	325.58	3.42	320.00	319.45	325.43		325.51	0.001061	1.31	254.02	255.52	0.23	97.90
Reach 1	3275	1_BU	324.18	1.94	326.12	3.86	403.00	319.45	325.95		326.06	0.001102	1.45	292.03	329.10	0.23	96.95
Reach 1	3275	0p5_BU	324.31	1.98	326.29	4.00	433.00	319.45	326.12		326.24	0.001127	1.50	303.90	410.31	0.24	96.64
Reach 1	3275	0p5-CC-LC_BU	324.93	2.19	327.12	4.62	606.20	319.45	326.94		327.09	0.001318	1.78	359.68	619.63	0.26	94.83
Reach 1	3250	5_BU	323.42	2.15	325.58	3.31	320.00	319.30	325.40		325.48	0.001905	1.24	262.43	269.15	0.22	85.32
Reach 1	3250	1_BU	323.85	2.26	326.11	3.74	403.00	319.30	325.92		326.02	0.001881	1.33	304.64	395.98	0.22	82.37
Reach 1	3250	0p5_BU	323.98	2.31	326.29	3.87	433.00	319.30	326.09		326.20	0.001894	1.37	317.93	456.98	0.22	81.47
Reach 1	3250	0p5-CC-LC_BU	324.57	2.55	327.11	4.45	606.20	319.30	326.90		327.05	0.002091	1.58	380.01	653.62	0.24	77.31
Reach 1	3150	5_BU	322.28	2.94	325.22	2.61	320.00	318.88	324.97		325.19	0.003383	1.41	201.19	279.17	0.28	81.32
Reach 1	3150	1_BU	322.64	3.08	325.73	2.97	403.00	318.88	325.47		325.73	0.003323	1.52	231.86	359.83	0.28	79.55
Reach 1	3150	0p5_BU	322.74	3.14	325.88	3.07	433.00	318.88	325.62		325.90	0.003391	1.57	240.44	377.90	0.29	78.96
Reach 1	3150	0p5-CC-LC_BU	323.48	3.20	326.68	3.81	606.20	318.88	326.41		326.74	0.003175	1.76	302.01	525.64	0.29	78.13
Reach 1	3037	5_BU	321.59	3.27	324.86	2.50	320.00	318.40	324.59		324.85	0.002645	1.19	219.96	250.05	0.24	54.78
Reach 1	3037	1_BU	321.74	3.60	325.33	2.64	403.00	318.40	325.03		325.37	0.002954	1.31	243.61	303.64	0.26	50.27
Reach 1	3037	0p5_BU	321.76	3.70	325.46	2.66	433.00	318.40	325.15		325.53	0.003156	1.36	248.90	319.49	0.27	48.97
Reach 1	3037	0p5-CC-LC_BU	323.30	3.18	326.48	4.21	606.20	318.40	326.21		326.46	0.001769	1.36	376.33	443.35	0.21	55.49
Reach 1	2965	5_BU	322.13	2.66	324.79	3.10	320.00	318.25	324.56	322.83	324.70	0.000810	1.66	204.63	281.94	0.30	94.23
Reach 1	2965	1_BU	322.06	3.18	325.23	3.03	403.00	318.25	324.97	323.54	325.18	0.001307	2.08	207.13	422.74	0.38	91.46
Reach 1	2965	0p5_BU	322.05	3.30	325.35	3.02	433.00	318.25	325.07	323.77	325.31	0.001499	2.22	208.36	432.35	0.41	90.71
Reach 1	2965	0p5-CC-LC_BU	323.57	2.82	326.39	4.54	606.20	318.25	326.15	323.82	326.36	0.000751	2.06	315.36	492.53	0.31	90.49
Reach 1	2946		Bridge														
Reach 1	2919	5_BU	322.56	2.18	324.75	4.45	320.00	317.23	324.56		324.63	0.000732	0.94	305.09	183.86	0.14	78.00
Reach 1	2919	1_BU	322.35	2.82	325.17	4.24	403.00	317.23	324.93		325.06	0.001105	1.12	304.20	310.38	0.17	70.22
Reach 1	2919	0p5_BU	322.30	2.98	325.28	4.18	433.00	317.23	325.03		325.18	0.001257	1.18	304.40	323.92	0.18	68.24
Reach 1	2919	0p5-CC-LC_BU	323.50	2.85	326.35	5.38	606.20	317.23	326.11		326.27	0.000842	1.15	418.53	464.50	0.16	60.74
Reach 1	2850	5_BU	322.84	1.81	324.65	4.04	320.00	318.15	324.50		324.57	0.001078	1.06	286.04	237.62	0.17	85.20
Reach 1	2850	1_BU	322.62	2.42	325.04	3.82	403.00	318.15	324.83		324.95	0.001696	1.28	284.17	256.14	0.21	77.42
Reach 1	2850	0p5_BU	322.49	2.64	325.13	3.69	433.00	318.15	324.90		325.06	0.002057	1.38	278.50	259.82	0.23	74.84
Reach 1	2850	0p5-CC-LC_BU	321.16	4.27	325.43	2.39	606.20	318.15	325.07	324.90	325.91	0.009219	2.19	200.59	264.62	0.45	54.24
Reach 1	2800	5_BU	323.08	1.56	324.64	3.85	320.00	317.92	324.51		324.53	0.000246	0.50	570.29	315.36	0.08	45.08
Reach 1	2800	1_BU	323.01	2.03	325.04	3.78	403.00	317.92	324.87		324.90	0.000290	0.53	615.52	330.47	0.09	37.80
Reach 1	2800	0p5_BU	322.94	2.20	325.15	3.71	433.00	317.92	324.96		324.99	0.000316	0.55	622.68	332.24	0.09	35.58
Reach 1	2800	0p5-CC-LC_BU	321.93	3.97	325.90	2.69	606.20	317.92	325.57		325.64	0.000455	0.54	635.41	344.05	0.10	18.05
Reach 1	2770	5_BU	323.17	1.44	324.62	3.81	320.00	317.84	324.50		324.52	0.000389	0.62	487.00	308.06	0.10	57.96
Reach 1	2770	1_BU	323.18	1.83	325.01	3.81	403.00	317.84	324.85		324.89	0.000472	0.68	532.82	334.89	0.11	50.83
Reach 1	2770	0p5_BU	323.13	1.97	325.11	3.77	433.00	317.84	324.94		324.98	0.000513	0.70	540.74	336.36	0.12	48.34
Reach 1	2770	0p5-CC-LC_BU	322.66	3.15	325.81	3.29	606.20	317.84	325.54		325.63	0.000674	0.74	586.83	349.59	0.13	31.64
Reach 1	2750	5_BU	323.11	1.47	324.58	3.69	320.00	318.03	324.46		324.51	0.000760	0.84	347.50	296.29	0.14	79.16
Reach 1	2750	1_BU	323.13	1.83	324.96	3.71	403.00	318.03	324.81		324.88	0.000977	0.96	376.15	329.39	0.16	71.85
Reach 1	2750	0p5_BU	323.09	1.97	325.05	3.66	433.00	318.03	324.89		324.96	0.001135	1.02	379.73	332.07	0.17	70.64
Reach 1	2750	0p5-CC-LC_BU	322.35	3.29	325.64	2.93	606.20	318.03	325.36		325.59	0.001996	1.17	362.21	348.42	0.22	46.03
Reach 1	2700	5_BU	322.97	1.60	324.57	3.42	320.00	318.39	324.44		324.48	0.000736	0.79	379.49	340.97	0.14	77.55
Reach 1	2700	1_BU	323.02	1.92	324.94	3.47	403.00	318.39	324.78		324.84	0.000795	0.83	417.30	350.31	0.14	65.65
Reach 1	2700	0p5_BU	322.98	2.04	325.03	3.43	433.00	318.39	324.86		324.93	0.000865	0.86	421.12	351.91	0.15	62.55

HEC-RAS Plan: KR_Jam_2254 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	2700	0p5-CC-LC_BU	322.12	3.49	325.61	2.57	606.20	318.39	325.32		325.54	0.001538	0.94	387.51	360.41	0.19	36.77
Reach 1	2666	5_BU	322.95	1.60	324.55	3.34	320.00	318.64	324.42		324.45	0.000763	0.79	381.32	357.29	0.14	75.84
Reach 1	2666	1_BU	323.08	1.84	324.92	3.46	403.00	318.64	324.76		324.82	0.000747	0.80	430.46	362.82	0.14	63.22
Reach 1	2666	0p5_BU	323.05	1.95	325.01	3.44	433.00	318.64	324.84		324.90	0.000798	0.82	436.73	363.93	0.14	60.13
Reach 1	2666	0p5-CC-LC_BU	322.60	3.00	325.60	2.99	606.20	318.64	325.35		325.50	0.001050	0.86	451.91	373.39	0.16	38.99
Reach 1	2650	5_BU	322.87	1.65	324.53	3.34	320.00	318.67	324.39		324.44	0.000718	0.77	362.20	382.96	0.13	69.47
Reach 1	2650	1_BU	323.05	1.83	324.89	3.52	403.00	318.67	324.73		324.81	0.000733	0.80	406.31	388.15	0.14	60.82
Reach 1	2650	0p5_BU	323.04	1.93	324.97	3.51	433.00	318.67	324.81		324.89	0.000795	0.83	411.17	389.36	0.14	58.54
Reach 1	2650	0p5-CC-LC_BU	322.83	2.71	325.54	3.30	606.20	318.67	325.31		325.48	0.001052	0.92	435.80	399.10	0.16	43.35
Reach 1	2600	5_BU	322.64	1.86	324.50	3.06	320.00	318.85	324.34		324.40	0.001077	0.89	333.02	375.61	0.16	83.01
Reach 1	2600	1_BU	322.83	2.03	324.85	3.24	403.00	318.85	324.68		324.76	0.001229	0.98	364.67	382.42	0.17	77.58
Reach 1	2600	0p5_BU	322.83	2.09	324.92	3.25	433.00	318.85	324.75		324.84	0.001358	1.03	368.27	383.80	0.18	76.20
Reach 1	2600	0p5-CC-LC_BU	322.83	2.61	325.45	3.25	606.20	318.85	325.23		325.42	0.002012	1.26	389.91	397.86	0.22	66.18
Reach 1	2563	5_BU	322.51	1.96	324.47	2.89	320.00	319.01	324.31		324.36	0.001156	0.88	340.80	382.53	0.17	82.11
Reach 1	2563	1_BU	322.68	2.14	324.83	3.06	403.00	319.01	324.65		324.72	0.001189	0.93	381.07	390.79	0.17	72.72
Reach 1	2563	0p5_BU	322.73	2.17	324.90	3.10	433.00	319.01	324.72		324.80	0.001248	0.96	390.41	391.97	0.17	71.08
Reach 1	2563	0p5-CC-LC_BU	322.92	2.50	325.42	3.30	606.20	319.01	325.21		325.36	0.001406	1.06	445.64	408.64	0.19	59.53
Reach 1	2550	5_BU	322.40	2.05	324.46	2.84	320.00	318.95	324.28		324.34	0.001152	0.87	332.90	411.41	0.17	77.93
Reach 1	2550	1_BU	322.59	2.22	324.81	3.03	403.00	318.95	324.62		324.70	0.001176	0.92	373.95	417.01	0.17	69.52
Reach 1	2550	0p5_BU	322.66	2.22	324.88	3.10	433.00	318.95	324.69		324.78	0.001212	0.95	385.64	418.22	0.17	68.27
Reach 1	2550	0p5-CC-LC_BU	322.93	2.46	325.39	3.37	606.20	318.95	325.19		325.34	0.001307	1.04	445.37	435.85	0.18	58.10
Reach 1	2500	5_BU	320.77	3.21	323.98	1.32	320.00	318.86	323.71	323.71	324.18	0.004410	1.02	181.94	340.89	0.28	41.89
Reach 1	2500	1_BU	320.90	3.42	324.32	1.45	403.00	318.86	324.04	324.04	324.54	0.004131	1.06	215.34	417.25	0.28	37.82
Reach 1	2500	0p5_BU	320.96	3.42	324.38	1.51	433.00	318.86	324.09	324.09	324.61	0.004242	1.10	224.58	420.38	0.29	37.93
Reach 1	2500	0p5-CC-LC_BU	321.13	3.73	324.86	1.68	606.20	318.86	324.54	324.54	325.16	0.004027	1.15	276.21	438.36	0.28	31.56
Reach 1	2464	5_BU	321.00	1.98	322.98	1.56	328.00	318.82	322.81	322.33	323.07	0.007877	1.53	190.69	317.35	0.39	77.17
Reach 1	2464	1_BU	322.59	0.40	322.99	3.14	413.80	318.82	322.96	320.96	323.03	0.001592	1.09	379.31	332.26	0.20	89.10
Reach 1	2464	0p5_BU	321.87	1.28	323.14	2.41	445.00	318.82	323.04	321.81	323.20	0.003944	1.45	290.74	334.99	0.30	84.17
Reach 1	2464	0p5-CC-LC_BU	322.08	1.35	323.44	2.63	623.00	318.82	323.32	322.22	323.60	0.005405	1.79	323.90	349.14	0.35	81.15
Reach 1	2400	5_BU	319.54	3.30	322.83	0.29	328.00	318.95	322.56		322.68	0.003876	0.35	272.41	353.57	0.21	2.76
Reach 1	2400	1_BU	319.54	3.47	323.01	0.29	413.80	318.95	322.72		322.87	0.003992	0.35	310.39	356.26	0.21	2.23
Reach 1	2400	0p5_BU	319.55	3.53	323.08	0.30	445.00	318.95	322.78		322.94	0.003928	0.36	326.70	360.88	0.21	2.20
Reach 1	2400	0p5-CC-LC_BU	319.58	3.82	323.40	0.32	623.00	318.95	323.08		323.27	0.003999	0.38	401.15	396.72	0.21	1.78
Reach 1	2369	5_BU	319.64	3.05	322.69	0.39	328.00	318.74	322.43		322.55	0.004347	0.45	274.80	362.08	0.23	5.29
Reach 1	2369	1_BU	319.89	2.97	322.86	0.60	413.80	318.74	322.61		322.73	0.003808	0.57	341.86	373.29	0.23	8.85
Reach 1	2369	0p5_BU	319.79	3.14	322.93	0.52	445.00	318.74	322.67		322.80	0.004031	0.53	343.84	371.39	0.23	6.49
Reach 1	2369	0p5-CC-LC_BU	319.92	3.33	323.25	0.63	623.00	318.74	322.97		323.13	0.003942	0.59	434.08	419.57	0.24	6.46
Reach 1	2350	5_BU	319.58	3.06	322.64	0.54	328.00	318.43	322.38		322.48	0.003066	0.49	301.66	354.34	0.21	8.04
Reach 1	2350	1_BU	319.63	3.19	322.82	0.59	413.80	318.43	322.55		322.67	0.003163	0.52	342.87	358.51	0.22	7.43
Reach 1	2350	0p5_BU	319.65	3.23	322.88	0.60	445.00	318.43	322.61		322.73	0.003208	0.53	356.69	363.14	0.22	7.25
Reach 1	2350	0p5-CC-LC_BU	319.77	3.42	323.19	0.70	623.00	318.43	322.90		323.06	0.003254	0.59	441.67	411.52	0.22	6.86
Reach 1	2300	5_BU	319.11	3.30	322.41	0.64	328.00	317.71	322.13		322.24	0.005094	0.69	262.81	328.88	0.27	10.17
Reach 1	2300	1_BU	319.12	3.46	322.58	0.65	413.80	317.71	322.29		322.43	0.005325	0.71	295.61	337.00	0.28	8.46
Reach 1	2300	0p5_BU	319.12	3.51	322.63	0.65	445.00	317.71	322.34		322.49	0.005446	0.72	305.84	338.58	0.28	7.96
Reach 1	2300	0p5-CC-LC_BU	319.15	3.77	322.92	0.67	623.00	317.71	322.60	322.15	322.80	0.005765	0.75	367.50	389.31	0.29	6.17
Reach 1	2254	5_BU	318.13	3.59	321.72	0.32	328.00	317.67	321.42	321.42	321.74	0.036132	1.14	135.92	294.05	0.64	2.53
Reach 1	2254	1_BU	318.11	3.74	321.85	0.31	413.80	317.67	321.54	321.54	321.92	0.032689	1.06	159.80	297.95	0.61	1.76
Reach 1	2254	0p5_BU	318.12	3.79	321.90	0.31	445.00	317.67	321.58	321.58	321.98	0.030795	1.03	169.42	298.88	0.59	1.60
Reach 1	2254	0p5-CC-LC_BU	318.13	4.02	322.15	0.32	623.00	317.67	321.81	321.81	322.30	0.025741	0.95	217.19	309.87	0.54	1.10
Reach 1	2200	5_BU	319.75	0.40	320.15	1.16	328.00	317.45	320.12	319.91	320.45	0.005973	2.55	130.73	136.83	0.76	99.41
Reach 1	2200	1_BU	319.89	0.40	320.29	1.28	413.80	317.45	320.26	320.09	320.68	0.006716	2.87	147.58	158.87	0.81	99.25
Reach 1	2200	0p5_BU	319.98	0.40	320.38	1.35	445.00	317.45	320.35	320.15	320.77	0.006302	2.88	159.93	176.67	0.79	99.07
Reach 1	2200	0p5-CC-LC_BU	320.98	0.40	321.38	1.60	623.00	317.45	321.35	320.50	321.49	0.002026	1.80	442.41	450.62	0.45	86.75
Reach 1	2168	5_BU	319.62	0.40	320.02	1.10	328.00	317.62	319.98	319.75	320.25	0.005208	2.30	146.84	164.47	0.70	98.42
Reach 1	2168	1_BU	319.75	0.40	320.15	1.20	413.80	317.62	320.11		320.44	0.005812	2.57	167.60	191.86	0.75	97.83
Reach 1	2168	0p5_BU	319.88	0.40	320.28	1.32	445.00	317.62	320.25		320.55	0.004687	2.46	193.23	212.89	0.69	97.15
Reach 1	2168	0p5-CC-LC_BU	320.97	0.40	321.37	1.63	623.00	317.62	321.34		321.42	0.001137	1.40	551.67	488.49	0.35	83.52
Reach 1	2054	5_BU	319.14	0.40	319.54	0.90	328.00	317.47	319.51		319.69	0.004291	1.83	174.57	213.31	0.62	82.79
Reach 1	2054	1_BU	319.55	0.40	319.95	1.30	413.80	317.47	319.91		320.04	0.001863	1.54	266.39	241.62	0.43	79.73
Reach 1	2054	0p5_BU	319.80	0.40	320.20	1.51	445.00	317.47	320.16		320.26	0.001139	1.33	328.42	262.86	0.35	76.61
Reach 1	2054	0p5-CC-LC_BU	320.95	0.40	321.35	2.16	623.00	317.47	321.31		321.35	0.000269	0.82	730.71	414.69	0.18	63.71
Reach 1	1884	5_BU				1.76	328.00	315.75	319.08		319.34	0.001167	2.25	148.18	94.59	0.54	99.08
Reach 1	1884	1_BU				2.40	413.80	315.75	319.72		319.89	0.000540	1.88	260.50	212.16	0.39	89.42
Reach 1	1884	0p5_BU				2.72	445.00	315.75	320.05		320.17	0.000356	1.66	333.78	253.74	0.32	83.28
Reach 1	1884	0p5-CC-LC_BU				3.96	623.00	315.75	321.28		321.33	0.000105	1.16	740.48	366.60	0.19	60.50
Reach 1	1760	5_BU				2.29	328.00	315.68	318.93		319.21	0.000959	2.42	151.26	122.64	0.51	94.78
Reach 1	1760	1_BU				2.92	413.80	315.68	319.68		319.83	0.000421	1.88	284.81	212.77	0.35	78.47
Reach 1	1760	0p5_BU				3.26	445.00	315.68	320.02		320.13	0.000278	1.64	362.94	245.81	0.29	71.14
Reach 1	1760	0p5-CC-LC_BU				4.50	623.00	315.68	321.27		321.32	0.000104	1.25	682.98	271.53	0.19	53.45
Reach 1	1639	5_BU				2.24	328.00	314.98	318.93	317.49	319.09	0.000545	1.79	186.85	121.18	0.38	99.54
Reach 1	1639	1_BU				2.96	413.80	314.98	319.65	317.99	319.78	0.000326	1.67	269.30	147.29	0.31	97.18
Reach 1	1639	0p5_BU				3.28	445.00	314.98	319.97	318.08	320.10	0.000258	1.59	313.41	166.63	0.28	95.72
Reach 1	1639	0p5-CC-LC_BU				4.51	623.00	314.98	321.20	318.49	321.30	0.000154	1.52	490.86	219.49	0.23	89.66
Reach 1	1548	5_BU				2.66	328.00	314.79	318.87	317.38	319.04	0.000464	1.85	177.21	83.95	0.36	100.00
Reach 1	1548	1_BU				3.29	413.80	314.79	319.58	317.65	319.75	0.000347	1.84	225.25	98.13	0.32	99.99
Reach 1	1548	0p5_BU				3.61	445.00	314.79	319.90	317.77	320.07	0.000293	1.80	247.96	105.87	0.30	99.95
Reach 1	1548	0p5-CC-LC_BU				4.81	623.00	314.79	321.10	318.24	321.28	0.000218	1.88	338.07	175.40	0.27	99.30
Reach 1	1460	5_BU				2.02	328.00	316.31	318.84	317.89	318.99	0.000559	1.70	213.79	178.90	0.38	96.38
Reach 1	1460	1_BU				2.77	413.80	316.31	319.59	318.08	319.70	0.000289	1.51	322.14	248.68	0.29	93.03
Reach 1	1460	0p5_BU				3.11	445.00	316.31	319.93	318.15	320.02	0.000218	1.42	376.16	266.33	0.26	90.90
Reach 1	1460	0p5-CC-LC_BU				4.33	623.00	316.31	321.16	318.49	321.24	0.000120	1.31	591.46	313.61	0.20	83.90
Reach 1	1371	5_BU				1.85	328.00	315.74	318.81	317.86	318.91	0.000970	1.45	253.27	172.05	0.34	92.50
Reach 1	1371	1_BU				2.63	413.80	315.74	319.59	318.02	319.66	0.000446	1.22	407.50	220.75	0.24	87.72
Reach 1	1371	0p5_BU				2.97	445.00	315.74	319.93	318.08	319.99	0.000319	1.11	483.76	231.38	0.21	84.10
Reach 1	1371	0p5-CC-LC_BU				4.21	623.00	315.74	321.17	318.38	321.21	0.000156	0.97	785.64	341.16	0.15	74.18
Reach 1	1226	5_BU				2.20	328.00	315.18	318.65	317.48	318.77	0.000940	1.58	224.47	124.53	0.34	96.91
Reach 1	1226	1_BU				3.06	413.80	315.18	319.50	317.71	319.59	0.000475	1.37	381.73	218.03	0.25	92.52
Reach 1	1226	0p5_BU				3.42	445.00	315.18	319.86	317.78	319.94	0.000353	1.27	463.56	228.92	0.22	89.01
Reach 1	1226	0p5-CC-LC_BU				4.69	623.00	315.18	321.13	318.14	321.18	0.000193	1.14	770.17	329.62	0.17	78.60
Reach 1	1171	5_BU				2.44	328.00	314.92	318.63	317.20	318.72	0.000593	1.34	302.91	192.44	0.27	92.28
Reach 1	1171	1_BU				3.31	413.80	314.92	319.50	317.44	319.56	0.000296	1.14	501.93	271.23	0.20	84.71
Reach 1	1171	0p5_BU				3.67	445.00	314.92	319.86	317.51	319.91	0.000231	1.08	601.45	278.50	0.18	82.42
Reach 1	1171	0p5-CC-LC_BU				4.94	623.00	314.92	321.13	317.89	321.17	0.000126	0.96	1001.73	369.12	0.14	70.90
Reach 1	1060	5_BU				2.97	328.00	314.65	318.60	316.72	318.66	0.000356	1.17	348.30	210.07	0.22	93.21
Reach 1	1060	1_BU				3.85	413.80	314.65	319.48	316.92	319.53	0.000197	1.04	572.12	330.75	0.17	85.08
Reach 1	1060	0p5_BU				4.22	445.00	314.65	319.85	316.99	319.89	0.000154	0.97	696.52	341.21	0.15	81.43
Reach 1	1060	0p5-CC-LC_BU				5.50	623.00	314.65	321.12	317.35	321.16	0.000093	0.90	1135.77	347.36	0.12	70.10

HEC-RAS Plan: KR_Jam_2254 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	964	5_BU				2.76	328.00	314.83	318.59	316.49	318.63	0.000229	0.89	445.60	284.73	0.17	94.36
Reach 1	964	1_BU				3.66	413.80	314.83	319.48	316.71	319.51	0.000121	0.78	719.47	317.08	0.13	86.67
Reach 1	964	0p5_BU				4.03	445.00	314.83	319.85	316.78	319.87	0.000095	0.74	837.53	326.13	0.12	83.84
Reach 1	964	0p5-CC-LC_BU				5.30	623.00	314.83	321.12	317.15	321.15	0.000062	0.72	1266.49	375.70	0.10	76.63
Reach 1	856	5_BU				2.74	328.00	314.15	318.58	316.32	318.60	0.000164	0.75	563.50	317.43	0.14	86.98
Reach 1	856	1_BU				3.65	413.80	314.15	319.48	316.51	319.50	0.000088	0.66	865.55	387.73	0.11	81.32
Reach 1	856	0p5_BU				4.01	445.00	314.15	319.85	316.58	319.86	0.000070	0.63	993.31	392.91	0.10	78.84
Reach 1	856	0p5-CC-LC_BU				5.29	623.00	314.15	321.12	316.90	321.14	0.000046	0.62	1443.68	438.41	0.09	72.84
Reach 1	746	5_BU				3.12	328.00	313.89	318.57	316.13	318.59	0.000082	0.58	716.97	434.89	0.10	92.69
Reach 1	746	1_BU				4.02	413.80	313.89	319.48	316.27	319.49	0.000046	0.51	1118.86	566.57	0.08	84.21
Reach 1	746	0p5_BU				4.39	445.00	313.89	319.85	316.31	319.86	0.000037	0.49	1288.74	601.50	0.07	81.46
Reach 1	746	0p5-CC-LC_BU				5.67	623.00	313.89	321.12	316.55	321.13	0.000026	0.48	1892.63	664.17	0.06	74.24
Reach 1	638	5_BU				3.16	328.00	313.68	318.57	315.88	318.58	0.000060	0.50	773.57	484.53	0.09	95.79
Reach 1	638	1_BU				4.07	413.80	313.68	319.47	316.05	319.48	0.000035	0.45	1245.00	705.98	0.07	88.42
Reach 1	638	0p5_BU				4.44	445.00	313.68	319.84	316.11	319.85	0.000028	0.43	1450.27	759.64	0.07	85.75
Reach 1	638	0p5-CC-LC_BU				5.72	623.00	313.68	321.12	316.40	321.13	0.000019	0.42	2180.02	873.57	0.06	77.42

HEC-RAS Plan: KR_Jam_3250 River: Klondike River Reach: Reach 1

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	58149	5_BU				0.60	211.80	457.19	459.11	458.78	459.18	0.003960	1.28	176.98	311.40	0.53	69.92
Reach 1	58149	1_BU				0.62	258.70	457.19	459.21	458.88	459.29	0.003968	1.31	209.35	358.41	0.53	68.61
Reach 1	58149	0p5_BU				0.63	274.10	457.19	459.23	458.92	459.31	0.003967	1.34	218.21	365.59	0.54	68.59
Reach 1	58149	0p5-CC-LC_BU				0.78	383.70	457.19	459.40	459.08	459.50	0.003748	1.50	283.35	422.35	0.54	69.68
Reach 1	57145	5_BU				1.56	211.80	454.28	457.10		457.15	0.001219	1.40	307.38	553.20	0.36	51.15
Reach 1	57145	1_BU				1.67	258.70	454.28	457.21		457.26	0.001207	1.46	371.49	616.50	0.36	46.72
Reach 1	57145	0p5_BU				1.70	274.10	454.28	457.24		457.30	0.001201	1.48	392.42	637.56	0.36	45.45
Reach 1	57145	0p5-CC-LC_BU				1.89	383.70	454.28	457.43	456.97	457.49	0.001229	1.60	523.14	758.51	0.37	39.14
Reach 1	56479	5_BU				1.05	240.10	453.12	455.47	455.09	455.51	0.005101	1.12	306.13	656.22	0.35	32.50
Reach 1	56479	1_BU				1.11	296.00	453.12	455.54	455.20	455.58	0.005627	1.22	349.22	708.62	0.37	30.50
Reach 1	56479	0p5_BU				1.13	314.90	453.12	455.55	455.23	455.60	0.005788	1.26	362.46	723.99	0.38	29.88
Reach 1	56479	0p5-CC-LC_BU				1.25	440.90	453.12	455.68	455.34	455.74	0.006242	1.40	463.40	836.79	0.40	26.46
Reach 1	56103	5_BU				1.35	240.10	452.81	454.88	454.59	454.92	0.001233	1.30	480.43	1110.99	0.36	43.21
Reach 1	56103	1_BU				1.48	296.00	452.81	455.00	454.65	455.04	0.001075	1.28	619.04	1250.15	0.34	37.86
Reach 1	56103	0p5_BU				1.51	314.90	452.81	455.04	454.68	455.07	0.001035	1.28	660.65	1276.27	0.33	36.31
Reach 1	56103	0p5-CC-LC_BU				1.72	440.90	452.81	455.25	454.80	455.28	0.000857	1.27	929.03	1384.61	0.31	29.36
Reach 1	54315	5_BU				1.45	240.10	449.60	451.73	451.23	451.91	0.002405	2.04	149.24	151.29	0.54	82.29
Reach 1	54315	1_BU				1.56	296.00	449.60	451.85	451.42	452.08	0.002828	2.28	169.94	189.14	0.58	80.99
Reach 1	54315	0p5_BU				1.60	314.90	449.60	451.89	451.48	452.13	0.002970	2.36	177.13	201.14	0.60	80.66
Reach 1	54315	0p5-CC-LC_BU				1.79	440.90	449.60	452.08	451.78	452.41	0.003875	2.83	223.56	333.53	0.68	77.50
Reach 1	53429	5_BU				1.05	240.10	446.75	449.04	448.76	449.17	0.004087	1.81	160.79	290.59	0.56	64.39
Reach 1	53429	1_BU				1.23	296.00	446.75	449.22	448.87	449.34	0.003287	1.78	219.19	358.12	0.51	60.40
Reach 1	53429	0p5_BU				1.28	314.90	446.75	449.27	448.91	449.39	0.003094	1.78	239.73	373.58	0.50	59.14
Reach 1	53429	0p5-CC-LC_BU				1.57	440.90	446.75	449.61	449.12	449.71	0.002282	1.71	378.63	448.34	0.44	51.57
Reach 1	52840	5_BU				1.89	240.10	445.50	448.33		448.40	0.000706	1.22	225.51	161.57	0.28	91.14
Reach 1	52840	1_BU				2.09	296.00	445.50	448.53		448.61	0.000743	1.34	258.72	170.72	0.30	89.43
Reach 1	52840	0p5_BU				2.15	314.90	445.50	448.59		448.67	0.000755	1.38	269.27	175.04	0.30	88.94
Reach 1	52840	0p5-CC-LC_BU				2.49	440.90	445.50	448.93		449.05	0.000850	1.61	332.21	197.46	0.33	86.24
Reach 1	52279	5_BU				1.55	240.10	445.07	447.57		447.74	0.002219	1.90	140.01	174.63	0.49	97.07
Reach 1	52279	1_BU				1.71	296.00	445.07	447.73		447.93	0.002266	2.05	171.53	236.34	0.50	93.97
Reach 1	52279	0p5_BU				1.76	314.90	445.07	447.78		447.99	0.002290	2.10	182.03	249.32	0.51	92.95
Reach 1	52279	0p5-CC-LC_BU				2.03	440.90	445.07	448.05		448.29	0.002398	2.36	259.18	435.16	0.53	86.14
Reach 1	50899	5_BU				1.15	290.80	441.51	444.17		444.28	0.002637	1.69	262.99	378.00	0.50	75.78
Reach 1	50899	1_BU				1.25	363.60	441.51	444.31		444.43	0.002606	1.77	317.75	413.08	0.51	71.67
Reach 1	50899	0p5_BU				1.29	389.40	441.51	444.35		444.47	0.002582	1.81	336.60	423.60	0.51	70.54
Reach 1	50899	0p5-CC-LC_BU				1.50	545.10	441.51	444.60		444.73	0.002497	1.97	452.29	539.39	0.51	65.49
Reach 1	50334	5_BU				1.02	290.80	440.40	442.61		442.73	0.002914	1.65	216.07	310.43	0.52	89.27
Reach 1	50334	1_BU				1.14	363.60	440.40	442.73		442.88	0.002951	1.79	257.36	333.37	0.53	87.44
Reach 1	50334	0p5_BU				1.18	389.40	440.40	442.77		442.93	0.002979	1.84	271.26	347.22	0.54	86.94
Reach 1	50334	0p5-CC-LC_BU				1.41	545.10	440.40	443.00		443.19	0.003073	2.10	356.59	431.66	0.56	84.15
Reach 1	49973	5_BU				0.95	290.80	439.55	441.75	441.29	441.84	0.002227	1.37	233.64	298.17	0.45	92.65
Reach 1	49973	1_BU				1.06	363.60	439.55	441.89	441.47	441.99	0.002209	1.47	275.80	315.71	0.46	91.24
Reach 1	49973	0p5_BU				1.11	389.40	439.55	441.93	441.50	442.04	0.002190	1.51	289.92	320.11	0.46	90.82
Reach 1	49973	0p5-CC-LC_BU				1.35	545.10	439.55	442.17	441.67	442.30	0.002137	1.70	371.89	372.72	0.47	88.82
Reach 1	49383	5_BU				1.08	290.80	437.54	440.17		440.29	0.002869	1.69	199.86	221.20	0.52	73.70
Reach 1	49383	1_BU				1.22	363.60	437.54	440.35		440.48	0.002705	1.78	241.99	244.73	0.51	72.61
Reach 1	49383	0p5_BU				1.25	389.40	437.54	440.41		440.55	0.002671	1.80	257.13	255.51	0.51	72.07
Reach 1	49383	0p5-CC-LC_BU				1.47	545.10	437.54	440.73		440.88	0.002472	1.92	355.69	365.82	0.51	69.86
Reach 1	49175	5_BU				1.05	290.80	437.30	439.65		439.78	0.001867	1.56	187.04	181.06	0.48	99.97
Reach 1	49175	1_BU				1.14	363.60	437.30	439.86		439.99	0.001806	1.61	226.96	208.03	0.48	99.86
Reach 1	49175	0p5_BU				1.17	389.40	437.30	439.93		440.06	0.001806	1.63	240.54	220.70	0.48	99.82
Reach 1	49175	0p5-CC-LC_BU				1.45	545.10	437.30	440.27		440.42	0.001764	1.74	324.90	263.71	0.46	99.05
Reach 1	49000	5_BU				1.18	290.80	436.74	439.25		439.40	0.002557	1.69	178.29	167.36	0.50	97.96
Reach 1	49000	1_BU				1.28	363.60	436.74	439.48		439.63	0.002432	1.75	219.88	196.73	0.49	97.18
Reach 1	49000	0p5_BU				1.33	389.40	436.74	439.55		439.70	0.002354	1.77	233.67	201.66	0.49	96.85
Reach 1	49000	0p5-CC-LC_BU				1.66	545.10	436.74	439.92		440.09	0.002001	1.89	315.20	239.18	0.47	95.08
Reach 1	48700	5_BU				1.35	290.80	435.90	438.75		438.85	0.001302	1.42	205.87	172.61	0.39	99.96
Reach 1	48700	1_BU				1.58	363.60	435.90	438.98		439.09	0.001309	1.51	241.68	181.33	0.38	99.84
Reach 1	48700	0p5_BU				1.65	389.40	435.90	439.05		439.17	0.001316	1.55	253.42	187.02	0.38	99.78
Reach 1	48700	0p5-CC-LC_BU				2.04	545.10	435.90	439.44		439.60	0.001365	1.74	320.13	249.20	0.39	99.16
Reach 1	48530	5_BU				1.59	290.80	435.46	438.32	437.75	438.54	0.002629	2.09	150.63	142.57	0.53	98.38
Reach 1	48530	1_BU				1.78	363.60	435.46	438.51	437.93	438.77	0.002700	2.28	180.97	168.63	0.55	96.73
Reach 1	48530	0p5_BU				1.85	389.40	435.46	438.58	437.99	438.85	0.002716	2.35	192.06	179.12	0.55	96.07
Reach 1	48530	0p5-CC-LC_BU				2.20	545.10	435.46	438.93	438.40	439.26	0.002704	2.63	266.40	241.42	0.57	91.85
Reach 1	48400	5_BU				1.46	290.80	435.59	438.01		438.20	0.002423	1.95	172.86	184.61	0.52	95.64
Reach 1	48400	1_BU				1.66	363.60	435.59	438.22		438.43	0.002378	2.10	213.74	214.62	0.52	93.57
Reach 1	48400	0p5_BU				1.73	389.40	435.59	438.29		438.50	0.002345	2.13	228.98	222.76	0.52	92.66
Reach 1	48400	0p5-CC-LC_BU				2.12	545.10	435.59	438.68		438.92	0.002109	2.30	327.11	289.27	0.50	87.41
Reach 1	48250	5_BU				1.37	290.80	435.03	437.51		437.76	0.003482	2.20	140.07	144.73	0.60	98.84
Reach 1	48250	1_BU				1.64	363.60	435.03	437.78		438.03	0.002897	2.25	181.47	171.22	0.56	96.52
Reach 1	48250	0p5_BU				1.73	389.40	435.03	437.87		438.12	0.002720	2.26	198.18	198.67	0.55	95.52
Reach 1	48250	0p5-CC-LC_BU				2.23	545.10	435.03	438.37		438.61	0.001971	2.28	312.05	249.54	0.49	88.82
Reach 1	48100	5_BU				1.61	290.80	434.27	437.19		437.36	0.001910	1.85	156.94	97.43	0.47	100.00
Reach 1	48100	1_BU				1.85	363.60	434.27	437.48		437.68	0.001763	1.95	186.56	100.80	0.46	100.00
Reach 1	48100	0p5_BU				1.93	389.40	434.27	437.58		437.78	0.001735	1.98	196.44	101.88	0.46	100.00
Reach 1	48100	0p5-CC-LC_BU				2.36	545.10	434.27	438.10		438.34	0.001592	2.17	250.81	107.83	0.45	99.99
Reach 1	48010	5_BU				1.94	290.80	433.89	436.99		437.19	0.001805	1.98	147.16	75.94	0.45	100.00
Reach 1	48010	1_BU				2.11	363.60	433.89	437.27		437.51	0.001956	2.15	168.83	79.84	0.47	100.00
Reach 1	48010	0p5_BU				2.19	389.40	433.89	437.36		437.61	0.001990	2.21	176.10	80.43	0.48	100.00
Reach 1	48010	0p5-CC-LC_BU				2.60	545.10	433.89	437.84		438.17	0.002150	2.53	215.66	83.57	0.50	100.00
Reach 1	47901	5_BU				2.30	290.80	433.20	436.85		437.02	0.001211	1.82	160.01	70.67	0.38	99.98
Reach 1	47901	1_BU				2.56	363.60	433.20	437.11		437.32	0.001325	2.04	178.42	71.58	0.41	99.93
Reach 1	47901	0p5_BU				2.64	389.40	433.20	437.20		437.42	0.001362	2.12	184.49	71.88	0.42	99.91
Reach 1	47901	0p5-CC-LC_BU				3.08	545.10	433.20	437.64		437.97	0.001583	2.53	216.81	73.45	0.46	99.72
Reach 1	47790	5_BU				2.18	290.80	433.56	436.76		436.88	0.001084	1.58	184.27	84.47	0.34	100.00
Reach 1	47790	1_BU				2.40	363.60	433.56	437.01		437.17	0.001214	1.77	205.87	85.91	0.36	100.00
Reach 1	47790	0p5_BU				2.47	389.40	433.56	437.09		437.26	0.001259	1.83	213.03	86.41	0.37	100.00
Reach 1	47790	0p5-CC-LC_BU				2.85	545.10	433.56	437.53		437.77	0.001494	2.17	251.40	88.35	0.41	100.00
Reach 1	47700	5_BU				1.92	290.80	433.03	436.61	435.48	436.77	0.001328	1.76	165.54	86.19	0.40	100.00
Reach 1	47700	1_BU				2.11	363.60	433.03	436.85	435.72	437.05	0.001455	1.95	186.14	88.07	0.43	100.00
Reach 1	47700	0p5_BU				2.18	389.40	433.03	436.93	435.81	437.14	0.001492	2.02	192.98	88.50	0.44	100.00
Reach 1	47700	0p5-CC-LC_BU				2.53	545.10	433.03	437.33	436.23	437.62	0.001722	2.38	229.29	90.52	0.48	100.00
Reach 1	47550	5_BU				1.58	290.80	433.60	436.34	435.62	436.52	0.002061	1.91	152.11	96.52	0.49	100.00
Reach 1	47550	1_BU				1.72	363.60	433.60	436.56	435.82	436.78	0.002155	2.09	173.91	100.94	0.51	100.00
Reach 1	47550	0p5_BU				1.77	389.40	433.60	436.63	435.88	436.86	0.002193	2.15	181.26	102.69	0.52	100.00
Reach 1	47550	0p5-CC-LC_BU				2.09	545.10	433.60	437.02	436.23	437.32	0.002326	2.45	223.79	114.98	0.54	99.91
Reach 1	47390	5_BU				1.63	290.80	434.08	436.11		436.23	0.001427	1.59	183.42	114.36	0.40	99.99
Reach 1	47390	1_BU				1.81	363.60	434.08	436.31		436.47	0.001529	1.76	207.47	116.78	0.42	99.96

HEC-RAS Plan: KR_Jam_3250 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	47390	0p5_BU				1.88	389.40	434.08	436.38		436.55	0.001561	1.81	215.49	117.95	0.42	99.95
Reach 1	47390	0p5-CC-LC_BU				2.24	545.10	434.08	436.75		436.98	0.001728	2.12	262.25	146.18	0.45	99.77
Reach 1	47300	5_BU				1.43	290.80	433.73	435.91		436.04	0.003485	1.62	179.96	125.61	0.43	100.00
Reach 1	47300	1_BU				1.63	363.60	433.73	436.11		436.27	0.003540	1.77	205.35	126.98	0.44	100.00
Reach 1	47300	0p5_BU				1.70	389.40	433.73	436.18		436.35	0.003556	1.82	213.76	127.58	0.45	99.99
Reach 1	47300	0p5-CC-LC_BU				2.05	545.10	433.73	436.53		436.76	0.003671	2.10	262.15	152.05	0.47	99.82
Reach 1	47150	5_BU				1.40	290.80	433.25	435.27		435.51	0.003443	2.23	149.59	144.87	0.60	94.89
Reach 1	47150	1_BU				1.61	363.60	433.25	435.48		435.75	0.003273	2.38	181.09	159.22	0.60	93.06
Reach 1	47150	0p5_BU				1.68	389.40	433.25	435.55		435.82	0.003222	2.43	192.33	165.15	0.60	92.45
Reach 1	47150	0p5-CC-LC_BU				2.05	545.10	433.25	435.91		436.25	0.003043	2.69	254.56	171.80	0.60	89.19
Reach 1	47000	5_BU				1.44	290.80	432.80	434.82		435.03	0.002826	2.04	149.81	122.95	0.54	98.23
Reach 1	47000	1_BU				1.64	363.60	432.80	435.05		435.29	0.002727	2.19	180.18	148.20	0.55	97.62
Reach 1	47000	0p5_BU				1.70	389.40	432.80	435.12		435.37	0.002716	2.24	191.08	153.99	0.55	97.29
Reach 1	47000	0p5-CC-LC_BU				2.07	545.10	432.80	435.52		435.82	0.002545	2.46	261.54	207.74	0.55	94.50
Reach 1	46850	5_BU				1.56	290.80	432.38	434.53		434.68	0.001816	1.75	174.99	123.07	0.45	97.58
Reach 1	46850	1_BU				1.78	363.60	432.38	434.77		434.94	0.001776	1.88	207.02	144.02	0.45	96.91
Reach 1	46850	0p5_BU				1.85	389.40	432.38	434.84		435.03	0.001767	1.93	218.18	151.02	0.45	96.64
Reach 1	46850	0p5-CC-LC_BU				2.27	545.10	432.38	435.26		435.49	0.001717	2.16	285.75	186.50	0.46	94.81
Reach 1	46700	5_BU				1.60	290.80	431.90	434.11	433.60	434.34	0.002740	2.15	147.10	175.94	0.54	96.00
Reach 1	46700	1_BU				1.77	363.60	431.90	434.34	433.77	434.60	0.002809	2.35	172.41	193.28	0.56	95.38
Reach 1	46700	0p5_BU				1.83	389.40	431.90	434.41	433.84	434.69	0.002806	2.41	181.30	199.81	0.57	95.03
Reach 1	46700	0p5-CC-LC_BU				2.23	545.10	431.90	434.80	434.14	435.15	0.002759	2.71	237.42	254.43	0.58	92.86
Reach 1	46513	5_BU				1.49	290.80	431.49	433.78	433.15	433.97	0.002342	1.91	154.98	120.66	0.50	99.67
Reach 1	46513	1_BU				1.67	363.60	431.49	434.00	433.33	434.22	0.002396	2.06	186.00	172.97	0.51	98.93
Reach 1	46513	0p5_BU				1.73	389.40	431.49	434.08	433.39	434.30	0.002390	2.11	198.88	186.15	0.51	98.50
Reach 1	46513	0p5-CC-LC_BU				2.09	545.10	431.49	434.52	433.73	434.77	0.002211	2.25	283.52	260.90	0.50	95.03
Reach 1	46503		Bridge														
Reach 1	46441	5_BU				1.62	290.80	431.25	433.57		433.76	0.002123	1.92	152.77	112.65	0.48	99.91
Reach 1	46441	1_BU				1.80	363.60	431.25	433.76		433.99	0.002298	2.14	176.62	141.74	0.51	99.31
Reach 1	46441	0p5_BU				1.86	389.40	431.25	433.82		434.07	0.002333	2.20	185.89	152.34	0.52	98.96
Reach 1	46441	0p5-CC-LC_BU				2.23	545.10	431.25	434.19		434.50	0.002366	2.50	251.16	236.92	0.53	95.98
Reach 1	46352	5_BU				1.16	290.80	430.67	432.98		433.26	0.005055	2.36	125.55	123.56	0.70	99.72
Reach 1	46352	1_BU				1.41	363.60	430.67	433.24		433.53	0.004007	2.38	159.15	131.58	0.64	98.94
Reach 1	46352	0p5_BU				1.49	389.40	430.67	433.33		433.61	0.003769	2.40	170.51	134.16	0.63	98.63
Reach 1	46352	0p5-CC-LC_BU				1.94	545.10	430.67	433.79		434.10	0.002896	2.51	238.20	154.35	0.57	96.94
Reach 1	46300	5_BU				1.70	290.80	430.65	432.93		433.08	0.001583	1.71	171.70	119.01	0.42	99.96
Reach 1	46300	1_BU				1.95	363.60	430.65	433.20		433.37	0.001518	1.83	206.94	140.81	0.42	99.34
Reach 1	46300	0p5_BU				2.04	389.40	430.65	433.29		433.46	0.001499	1.87	219.22	142.63	0.42	99.01
Reach 1	46300	0p5-CC-LC_BU				2.49	545.10	430.65	433.75		433.97	0.001428	2.09	287.14	149.14	0.42	97.10
Reach 1	46250	5_BU				1.74	290.80	430.61	432.83		433.00	0.001752	1.82	162.34	105.55	0.44	99.46
Reach 1	46250	1_BU				1.96	363.60	430.61	433.09		433.29	0.001720	1.96	191.40	114.61	0.45	98.65
Reach 1	46250	0p5_BU				2.04	389.40	430.61	433.18		433.38	0.001708	2.00	201.68	122.56	0.45	98.27
Reach 1	46250	0p5-CC-LC_BU				2.51	545.10	430.61	433.65		433.89	0.001595	2.22	261.33	132.53	0.45	95.76
Reach 1	46200	5_BU				1.66	290.80	430.41	432.71		432.90	0.002058	1.92	151.52	91.32	0.48	100.00
Reach 1	46200	1_BU				1.87	363.60	430.41	432.97		433.19	0.002034	2.07	176.33	98.68	0.48	99.95
Reach 1	46200	0p5_BU				1.96	389.40	430.41	433.06		433.29	0.002013	2.12	184.72	100.57	0.48	99.91
Reach 1	46200	0p5-CC-LC_BU				2.41	545.10	430.41	433.51		433.80	0.001946	2.39	235.66	123.76	0.49	99.29
Reach 1	46150	5_BU				1.92	290.80	430.24	432.65		432.81	0.001435	1.74	167.12	89.21	0.40	100.00
Reach 1	46150	1_BU				2.14	363.60	430.24	432.91		433.10	0.001548	1.92	190.29	92.40	0.42	99.95
Reach 1	46150	0p5_BU				2.22	389.40	430.24	432.99		433.19	0.001576	1.98	197.99	93.26	0.42	99.92
Reach 1	46150	0p5-CC-LC_BU				2.62	545.10	430.24	433.44		433.70	0.001723	2.29	242.39	116.91	0.45	99.66
Reach 1	46100	5_BU				1.91	290.80	430.02	432.55		432.73	0.001621	1.87	157.14	85.31	0.43	99.80
Reach 1	46100	1_BU				2.13	363.60	430.02	432.79		433.01	0.001711	2.07	177.99	87.33	0.45	99.69
Reach 1	46100	0p5_BU				2.21	389.40	430.02	432.87		433.10	0.001743	2.13	184.96	93.22	0.46	99.65
Reach 1	46100	0p5-CC-LC_BU				2.64	545.10	430.02	433.30		433.61	0.001859	2.48	239.16	152.57	0.49	98.73
Reach 1	46050	5_BU				1.54	290.80	429.81	432.31		432.60	0.003475	2.38	122.09	81.49	0.61	99.99
Reach 1	46050	1_BU				1.71	363.60	429.81	432.54		432.88	0.003482	2.60	140.55	87.79	0.63	99.92
Reach 1	46050	0p5_BU				1.78	389.40	429.81	432.61		432.97	0.003491	2.67	147.05	91.22	0.64	99.88
Reach 1	46050	0p5-CC-LC_BU				2.14	545.10	429.81	433.01		433.47	0.003473	3.02	190.52	130.22	0.66	99.14
Reach 1	46000	5_BU				1.68	290.80	429.73	432.16		432.44	0.002966	2.33	124.90	74.15	0.57	100.00
Reach 1	46000	1_BU				1.84	363.60	429.73	432.37		432.71	0.003250	2.59	140.85	82.12	0.61	99.99
Reach 1	46000	0p5_BU				1.87	389.40	429.73	432.44		432.80	0.003310	2.67	146.60	88.32	0.62	99.96
Reach 1	46000	0p5-CC-LC_BU				2.22	545.10	429.73	432.81		433.29	0.003592	3.10	184.94	118.94	0.66	99.27
Reach 1	45950	5_BU				1.55	290.80	429.64	432.02		432.28	0.003117	2.26	128.54	82.74	0.58	100.00
Reach 1	45950	1_BU				1.64	363.60	429.64	432.22		432.54	0.003252	2.49	145.75	88.90	0.62	100.00
Reach 1	45950	0p5_BU				1.65	389.40	429.64	432.29		432.63	0.003282	2.56	152.02	91.87	0.64	100.00
Reach 1	45950	0p5-CC-LC_BU				1.60	545.10	429.64	432.68		433.10	0.003370	2.85	192.07	124.34	0.72	99.93
Reach 1	45850	5_BU				1.50	290.80	429.47	431.81		431.99	0.002311	1.90	153.96	111.86	0.50	99.95
Reach 1	45850	1_BU				1.69	363.60	429.47	432.02		432.24	0.002353	2.08	177.77	114.68	0.51	99.74
Reach 1	45850	0p5_BU				1.75	389.40	429.47	432.09		432.32	0.002360	2.13	186.04	116.16	0.51	99.65
Reach 1	45850	0p5-CC-LC_BU				1.99	545.10	429.47	432.49		432.78	0.002380	2.40	235.92	142.88	0.54	99.02
Reach 1	45750	5_BU				1.30	290.80	429.31	431.53		431.73	0.002962	1.96	148.56	114.20	0.55	100.00
Reach 1	45750	1_BU				1.50	363.60	429.31	431.76		431.98	0.002758	2.08	174.90	118.27	0.54	99.99
Reach 1	45750	0p5_BU				1.57	389.40	429.31	431.84		432.07	0.002700	2.12	184.04	120.04	0.54	99.98
Reach 1	45750	0p5-CC-LC_BU				1.94	545.10	429.31	432.25		432.53	0.002553	2.34	235.28	128.54	0.54	99.81
Reach 1	45600	5_BU				1.58	290.80	429.06	431.22		431.38	0.001809	1.75	166.35	105.02	0.44	100.00
Reach 1	45600	1_BU				1.79	363.60	429.06	431.45		431.64	0.001821	1.90	191.18	106.84	0.45	100.00
Reach 1	45600	0p5_BU				1.86	389.40	429.06	431.53		431.73	0.001823	1.95	199.63	107.45	0.46	100.00
Reach 1	45600	0p5-CC-LC_BU				2.18	545.10	429.06	431.93		432.19	0.001938	2.24	244.75	126.33	0.48	99.96
Reach 1	45400	5_BU				1.61	290.80	428.84	430.87		431.02	0.001698	1.71	170.86	115.10	0.43	99.90
Reach 1	45400	1_BU				1.83	363.60	428.84	431.11		431.28	0.001712	1.87	199.12	127.95	0.44	99.65
Reach 1	45400	0p5_BU				1.90	389.40	428.84	431.19		431.37	0.001700	1.91	209.63	132.14	0.44	99.49
Reach 1	45400	0p5-CC-LC_BU				2.26	545.10	428.84	431.57		431.81	0.001794	2.20	266.80	189.94	0.47	98.44
Reach 1	45200	5_BU				1.43	290.80	428.38	430.32		430.56	0.003209	2.18	135.45	102.76	0.58	99.76
Reach 1	45200	1_BU				1.61	363.60	428.38	430.54		430.82	0.003161	2.34	160.71	124.93	0.59	99.35
Reach 1	45200	0p5_BU				1.64	389.40	428.38	430.62		430.91	0.003214	2.38	170.77	134.50	0.59	99.19
Reach 1	45200	0p5-CC-LC_BU				1.96	545.10	428.38	430.99		431.34	0.003119	2.65	237.52	239.32	0.60	97.07
Reach 1	44985	5_BU				1.65	290.80	426.86	429.87		430.03	0.001765	1.77	165.94	114.91	0.44	99.87
Reach 1	44985	1_BU				1.88	363.60	426.86	430.10		430.29	0.001774	1.93	195.49	146.29	0.45	99.38
Reach 1	44985	0p5_BU				1.96	389.40	426.86	430.18		430.38	0.001781	1.99	206.80	162.46	0.45	99.07
Reach 1	44985	0p5-CC-LC_BU				2.34	545.10	426.86	430.56		430.81	0.001812	2.26	286.27	262.27	0.47	96.09
Reach 1	43733	5_BU				1.24	290.80	424.63	427.09		427.26	0.002842	1.85	167.20	154.71	0.53	91.67
Reach 1	43733	1_BU				1.33	363.60	424.63	427.24		427.44	0.002997	2.04	192.56	183.99	0.57	91.08
Reach 1	43733	0p5_BU				1.38	389.40	424.63	427.29		427.50	0.003027	2.10	202.47	195.79	0.57	90.86
Reach 1	43733	0p5-CC-LC_BU				1.64	545.10	424.63	427.56		427.82	0.003218	2.40	261.79	257.03	0.60	88.39
Reach 1	42697	5_BU				1.45	290.80	421.83	425.04	424.42	425.14	0.001612	1.54	289.57	457.65	0.41	77.28
Reach 1	42697	1_BU				1.58	363.60	421.83	425.17	424.76	425.27	0.001628	1.64	352.98	510.00	0.42	71.77

HEC-RAS Plan: KR_Jam_3250 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	42697	0p5_BU				1.62	389.40	421.83	425.21	424.81	425.32	0.001648	1.68	373.47	523.07	0.42	70.25
Reach 1	42697	0p5-CC-LC_BU				1.83	545.10	421.83	425.42	425.03	425.54	0.001731	1.86	487.42	580.10	0.44	62.80
Reach 1	41323	5_BU				0.87	290.80	419.47	421.45		421.64	0.004579	1.95	149.51	170.95	0.66	100.00
Reach 1	41323	1_BU				0.94	363.60	419.47	421.63		421.83	0.004330	1.99	183.53	214.64	0.65	99.96
Reach 1	41323	0p5_BU				0.98	389.40	419.47	421.69		421.90	0.004169	1.99	198.57	264.10	0.64	99.83
Reach 1	41323	0p5-CC-LC_BU				1.08	545.10	419.47	422.01		422.20	0.003660	1.98	308.47	435.93	0.61	95.73
Reach 1	40285	5_BU				1.48	290.80	416.85	419.58		419.62	0.001019	1.23	364.00	463.45	0.32	42.98
Reach 1	40285	1_BU				1.61	363.60	416.85	419.71		419.77	0.001082	1.35	436.90	572.89	0.34	41.14
Reach 1	40285	0p5_BU				1.66	389.40	416.85	419.76		419.81	0.001117	1.40	463.34	605.72	0.35	40.85
Reach 1	40285	0p5-CC-LC_BU				1.86	545.10	416.85	419.96		420.02	0.001281	1.61	590.93	671.87	0.38	37.73
Reach 1	39051	5_BU				0.78	290.80	414.48	417.40		417.47	0.005561	1.25	271.84	600.83	0.45	81.24
Reach 1	39051	1_BU				0.81	363.60	414.48	417.53		417.59	0.005291	1.21	362.97	757.27	0.43	74.59
Reach 1	39051	0p5_BU				0.84	389.40	414.48	417.57		417.63	0.005082	1.21	390.87	792.72	0.42	72.93
Reach 1	39051	0p5-CC-LC_BU				1.01	545.10	414.48	417.76		417.82	0.004222	1.24	561.04	981.88	0.39	65.70
Reach 1	38622	5_BU				0.85	290.80	413.89	416.80		416.82	0.000728	0.71	516.75	959.14	0.25	85.48
Reach 1	38622	1_BU				0.96	363.60	413.89	416.92		416.95	0.000767	0.75	634.79	1138.44	0.24	82.78
Reach 1	38622	0p5_BU				0.99	389.40	413.89	416.96		416.99	0.000780	0.76	674.47	1183.00	0.24	81.85
Reach 1	38622	0p5-CC-LC_BU				1.18	545.10	413.89	417.15		417.18	0.000881	0.85	880.71	1364.67	0.25	77.47
Reach 1	38155	5_BU				1.50	290.80	413.94	415.97	415.74	416.22	0.003668	2.39	195.91	409.83	0.62	85.16
Reach 1	38155	1_BU				1.70	363.60	413.94	416.18	416.00	416.40	0.003031	2.35	297.89	589.59	0.58	76.21
Reach 1	38155	0p5_BU				1.76	389.40	413.94	416.25	416.06	416.45	0.002842	2.33	339.06	658.08	0.56	73.34
Reach 1	38155	0p5-CC-LC_BU				2.07	545.10	413.94	416.57		416.72	0.002045	2.20	577.66	923.21	0.49	58.56
Reach 1	37333	5_BU				1.97	290.80	411.14	413.98		414.18	0.001838	2.03	162.39	147.21	0.46	97.40
Reach 1	37333	1_BU				2.14	363.60	411.14	414.16		414.41	0.002097	2.29	193.70	206.09	0.50	95.78
Reach 1	37333	0p5_BU				2.19	389.40	411.14	414.21		414.48	0.002200	2.38	204.03	216.08	0.51	95.12
Reach 1	37333	0p5-CC-LC_BU				2.42	545.10	411.14	414.43	413.86	414.83	0.002893	2.91	260.90	288.77	0.60	91.88
Reach 1	36316	5_BU				1.61	290.80	409.47	411.96	411.57	412.13	0.002447	2.05	234.55	523.28	0.52	79.39
Reach 1	36316	1_BU				1.70	363.60	409.47	412.13	411.80	412.29	0.002335	2.07	339.93	712.35	0.51	71.16
Reach 1	36316	0p5_BU				1.74	389.40	409.47	412.17		412.33	0.002298	2.09	371.42	742.01	0.51	68.69
Reach 1	36316	0p5-CC-LC_BU				1.96	545.10	409.47	412.41		412.55	0.002050	2.14	565.26	901.25	0.49	57.14
Reach 1	34806	5_BU				1.37	290.80	406.69	408.63		408.76	0.002135	1.72	201.64	182.57	0.47	89.52
Reach 1	34806	1_BU				1.54	363.60	406.69	408.81		408.97	0.002203	1.89	235.91	195.52	0.49	89.16
Reach 1	34806	0p5_BU				1.60	389.40	406.69	408.86		409.04	0.002219	1.94	247.23	198.71	0.49	88.67
Reach 1	34806	0p5-CC-LC_BU				1.88	545.10	406.69	409.18		409.40	0.002331	2.21	311.80	218.53	0.51	86.43
Reach 1	33067	5_BU				1.28	290.80	401.87	404.17	403.67	404.37	0.003085	1.98	147.41	118.96	0.56	99.97
Reach 1	33067	1_BU				1.48	363.60	401.87	404.38	403.86	404.61	0.002932	2.12	173.19	130.78	0.56	99.85
Reach 1	33067	0p5_BU				1.54	389.40	401.87	404.45	403.92	404.69	0.002891	2.17	182.11	155.91	0.56	99.77
Reach 1	33067	0p5-CC-LC_BU				1.92	545.10	401.87	404.83	404.22	405.12	0.002649	2.40	247.57	382.55	0.55	98.64
Reach 1	32800	5_BU				1.52	290.80	401.32	403.49	402.90	403.67	0.002219	1.88	154.88	239.36	0.49	100.00
Reach 1	32800	1_BU				1.73	363.60	401.32	403.71	403.06	403.93	0.002225	2.05	177.45	273.89	0.50	100.00
Reach 1	32800	0p5_BU				1.80	389.40	401.32	403.78	403.11	404.01	0.002229	2.11	184.83	289.60	0.50	100.00
Reach 1	32800	0p5-CC-LC_BU				2.18	545.10	401.32	404.17	403.40	404.47	0.002279	2.43	228.17	557.20	0.52	99.82
Reach 1	32550	5_BU				1.26	290.80	400.66	402.50	402.23	402.84	0.005302	2.57	113.98	152.21	0.73	99.84
Reach 1	32550	1_BU				1.36	363.60	400.66	402.66	402.43	403.07	0.005589	2.84	129.57	179.81	0.78	99.59
Reach 1	32550	0p5_BU				1.39	389.40	400.66	402.71	402.50	403.15	0.005678	2.93	135.02	192.11	0.79	99.49
Reach 1	32550	0p5-CC-LC_BU				1.64	545.10	400.66	402.99	402.85	403.56	0.006127	3.38	167.97	300.80	0.84	98.50
Reach 1	32400	5_BU				1.58	290.80	400.20	402.24	401.71	402.35	0.001660	1.67	221.26	182.99	0.42	66.96
Reach 1	32400	1_BU				1.76	363.60	400.20	402.43	401.83	402.55	0.001686	1.80	255.26	184.97	0.43	64.53
Reach 1	32400	0p5_BU				1.81	389.40	400.20	402.49	401.87	402.62	0.001697	1.85	266.47	185.95	0.44	63.85
Reach 1	32400	0p5-CC-LC_BU				2.12	545.10	400.20	402.81	402.10	402.98	0.001778	2.09	329.62	216.26	0.46	60.88
Reach 1	32250	5_BU				1.31	290.80	399.61	401.80	401.40	402.00	0.003433	2.12	161.25	163.77	0.59	80.23
Reach 1	32250	1_BU				1.46	363.60	399.61	401.98	401.54	402.20	0.003435	2.27	188.69	178.62	0.60	77.91
Reach 1	32250	0p5_BU				1.51	389.40	399.61	402.03	401.59	402.26	0.003452	2.32	198.09	186.55	0.60	77.22
Reach 1	32250	0p5-CC-LC_BU				1.78	545.10	399.61	402.33	401.92	402.61	0.003472	2.57	259.95	255.12	0.61	73.41
Reach 1	32150	5_BU				1.19	290.80	399.22	401.47	401.05	401.64	0.003328	1.96	169.41	184.02	0.57	84.50
Reach 1	32150	1_BU				1.37	363.60	399.22	401.67	401.23	401.85	0.003003	2.05	208.48	212.22	0.56	82.47
Reach 1	32150	0p5_BU				1.44	389.40	399.22	401.73	401.34	401.92	0.002895	2.07	222.40	219.43	0.55	81.55
Reach 1	32150	0p5-CC-LC_BU				1.78	545.10	399.22	402.08	401.60	402.28	0.002452	2.20	308.93	296.86	0.53	76.75
Reach 1	32000	5_BU				1.68	290.80	398.64	400.98	400.53	401.20	0.002630	2.18	159.88	147.63	0.54	87.02
Reach 1	32000	1_BU				1.88	363.60	398.64	401.20	400.72	401.44	0.002538	2.32	194.64	179.98	0.54	83.51
Reach 1	32000	0p5_BU				1.95	389.40	398.64	401.27	400.81	401.52	0.002515	2.36	207.77	195.12	0.54	82.39
Reach 1	32000	0p5-CC-LC_BU				2.32	545.10	398.64	401.66	401.12	401.92	0.002344	2.56	305.75	296.10	0.54	76.30
Reach 1	31850	5_BU				1.59	290.80	398.07	400.43	400.12	400.73	0.003690	2.50	133.22	122.53	0.63	91.60
Reach 1	31850	1_BU				1.72	363.60	398.07	400.59	400.31	400.95	0.004174	2.79	153.89	150.35	0.68	89.63
Reach 1	31850	0p5_BU				1.76	389.40	398.07	400.63	400.38	401.02	0.004321	2.88	161.30	154.87	0.70	88.88
Reach 1	31850	0p5-CC-LC_BU				1.95	545.10	398.07	400.88	400.77	401.39	0.005217	3.40	205.77	217.32	0.78	85.48
Reach 1	31700	5_BU				1.39	290.80	397.52	400.25	399.45	400.34	0.001320	1.37	246.24	267.26	0.37	86.74
Reach 1	31700	1_BU				1.51	363.60	397.52	400.40	399.59	400.51	0.001421	1.52	286.73	308.82	0.39	85.15
Reach 1	31700	0p5_BU				1.55	389.40	397.52	400.45	399.64	400.56	0.001462	1.57	299.96	320.41	0.40	84.69
Reach 1	31700	0p5-CC-LC_BU				1.77	545.10	397.52	400.69	399.93	400.84	0.001682	1.83	374.94	391.65	0.44	81.88
Reach 1	31597	5_BU				0.92	290.80	397.42	400.05	399.59	400.14	0.002506	1.42	235.52	326.55	0.47	74.31
Reach 1	31597	1_BU				1.01	363.60	397.42	400.21	399.70	400.30	0.002423	1.49	289.03	379.21	0.47	72.89
Reach 1	31597	0p5_BU				1.04	389.40	397.42	400.25	399.72	400.35	0.002396	1.51	307.26	399.15	0.47	72.44
Reach 1	31597	0p5-CC-LC_BU				1.25	545.10	397.42	400.49	399.95	400.60	0.002349	1.69	408.41	450.78	0.48	71.28
Reach 1	31500	5_BU				0.78	290.80	398.07	399.86	399.39	399.96	0.002083	1.17	233.01	292.38	0.42	28.63
Reach 1	31500	1_BU				0.88	363.60	398.07	400.00	399.53	400.12	0.002171	1.29	279.31	339.48	0.44	30.07
Reach 1	31500	0p5_BU				0.92	389.40	398.07	400.05	399.58	400.17	0.002194	1.34	295.18	354.10	0.45	30.67
Reach 1	31500	0p5-CC-LC_BU				1.15	545.10	398.07	400.29	399.81	400.42	0.002254	1.57	388.19	427.14	0.47	32.57
Reach 1	31400	5_BU				0.76	290.80	397.82	399.63	399.31	399.78	0.003235	1.39	208.92	300.13	0.51	34.05
Reach 1	31400	1_BU				0.90	363.60	397.82	399.78	399.50	399.93	0.003148	1.49	257.27	350.22	0.50	35.24
Reach 1	31400	0p5_BU				0.94	389.40	397.82	399.83	399.54	399.98	0.003156	1.53	273.08	363.11	0.50	35.42
Reach 1	31400	0p5-CC-LC_BU				1.15	545.10	397.82	400.06	399.75	400.22	0.003275	1.77	368.15	496.94	0.53	36.56
Reach 1	31350	5_BU				0.86	290.80	397.71	399.57	399.10	399.67	0.002272	1.30	241.31	292.39	0.45	39.11
Reach 1	31350	1_BU				0.98	363.60	397.71	399.72	399.25	399.83	0.002271	1.42	286.82	341.85	0.46	40.16
Reach 1	31350	0p5_BU				1.02	389.40	397.71	399.76	399.29	399.87	0.002302	1.47	301.60	360.14	0.46	40.47
Reach 1	31350	0p5-CC-LC_BU				1.23	545.10	397.71	399.98	399.51	400.12	0.002510	1.73	396.98	539.59	0.50	41.54
Reach 1	31300	5_BU				0.80	290.80	397.60	399.41	399.11	399.56	0.003833	1.62	201.57	281.10	0.58	39.00
Reach 1	31300	1_BU				0.81	363.60	397.60	399.56	399.28	399.72	0.003778	1.62	249.77	353.38	0.57	37.78
Reach 1	31300	0p5_BU				0.85	389.40	397.60	399.61	399.32	399.77	0.003707	1.65	266.05	369.11	0.57	38.09
Reach 1	31300	0p5-CC-LC_BU				1.05	545.10	397.60	399.84	399.57	400.01	0.003519	1.86	365.81	526.64	0.58	39.01
Reach 1	31250	5_BU				0.89	290.80	397.53	399.33	398.88	399.43	0.002294	1.36	245.07	340.96	0.46	44.27
Reach 1	31250	1_BU				0.94	363.60	397.53	399.49	399.00	399.59	0.002229	1.41	307.79	460.73	0.46	43.53
Reach 1	31250	0p5_BU				0.98	389.40	397.53	399.54	399.04	399.64	0.002205	1.43	330.34	489.06	0.46	43.50
Reach 1	31250	0p5-CC-LC_BU				1.22	545.10	397.53	399.78	399.30	399.88	0.002139	1.58	465.87	629.21	0.46	42.77
Reach 1	31200	5_BU				1.33	290.80	397.38	399.24	398.63	399.33	0.001518	1.47	254.08	325.28	0.41	56.44
Reach 1	31200	1_BU				1.44	363.60	397.38	399.39	398.78	399.49	0.001553	1.58	310.79	424.91	0.42	54.11
Reach 1	31200	0p5_BU				1.48	389.40	397.38	399.43	398.82	399.54	0.001583	1.62	330.42	458.85	0.42	53.45
Reach 1	31200	0p5-CC-LC_BU				1.70	545.10	397.38	399.66	399.06	399.78	0.001726	1.82	450.87	616.40	0.45	49.44

HEC-RAS Plan: KR_Jam_3250 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	31150	5_BU				1.04	290.80	397.22	399.14	398.64	399.21	0.001741	1.33	257.24	326.91	0.42	52.41
Reach 1	31150	1_BU				1.15	363.60	397.22	399.30	398.77	399.38	0.001641	1.39	321.59	483.50	0.42	50.88
Reach 1	31150	0p5_BU				1.18	389.40	397.22	399.34	398.80	399.42	0.001641	1.42	344.27	532.59	0.42	50.42
Reach 1	31150	0p5-CC-LC_BU				1.40	545.10	397.22	399.56	398.97	399.65	0.001672	1.58	476.07	652.08	0.43	47.47
Reach 1	31100	5_BU				0.99	290.80	397.05	398.70	398.44	398.89	0.004251	1.95	166.74	233.61	0.63	40.59
Reach 1	31100	1_BU				1.06	363.60	397.05	398.85	398.58	399.05	0.004369	2.07	210.37	341.55	0.64	39.98
Reach 1	31100	0p5_BU				1.08	389.40	397.05	398.90	398.64	399.10	0.004300	2.09	228.54	385.70	0.64	39.39
Reach 1	31100	0p5-CC-LC_BU				1.22	545.10	397.05	399.15	398.97	399.33	0.004043	2.20	344.36	565.57	0.63	36.81
Reach 1	31050	5_BU				0.97	290.80	396.94	398.59	398.23	398.71	0.003218	1.68	210.21	326.75	0.54	34.84
Reach 1	31050	1_BU				1.02	363.60	396.94	398.77	398.38	398.88	0.002926	1.70	276.50	455.86	0.54	33.42
Reach 1	31050	0p5_BU				1.03	389.40	396.94	398.82	398.43	398.93	0.002839	1.69	302.51	494.89	0.53	32.78
Reach 1	31050	0p5-CC-LC_BU				1.20	545.10	396.94	399.08	398.66	399.18	0.002458	1.75	448.04	624.49	0.51	30.76
Reach 1	31011	5_BU				1.05	290.80	396.85	398.45	397.94	398.53	0.002083	1.42	228.66	256.32	0.44	31.12
Reach 1	31011	1_BU				1.11	363.60	396.85	398.62	398.07	398.71	0.002190	1.52	278.90	338.29	0.46	31.04
Reach 1	31011	0p5_BU				1.13	389.40	396.85	398.67	398.10	398.76	0.002193	1.54	297.78	362.23	0.46	30.82
Reach 1	31011	0p5-CC-LC_BU				1.33	545.10	396.85	398.93	398.30	399.03	0.002015	1.64	406.26	484.58	0.45	29.22
Reach 1	30950	5_BU				0.97	290.80	396.52	398.25	397.77	398.33	0.001794	1.26	231.49	266.14	0.41	38.07
Reach 1	30950	1_BU				1.12	363.60	396.52	398.41	397.87	398.50	0.001755	1.36	278.52	309.57	0.41	38.62
Reach 1	30950	0p5_BU				1.16	389.40	396.52	398.46	397.91	398.56	0.001774	1.41	295.17	327.39	0.42	38.94
Reach 1	30950	0p5-CC-LC_BU				1.39	545.10	396.52	398.72	398.09	398.83	0.001880	1.63	390.43	406.78	0.44	39.58
Reach 1	30850	5_BU				0.79	290.80	395.91	398.09	397.56	398.16	0.002221	1.21	243.81	299.81	0.44	83.68
Reach 1	30850	1_BU				0.85	363.60	395.91	398.27	397.67	398.34	0.002048	1.22	301.50	348.46	0.42	84.05
Reach 1	30850	0p5_BU				0.88	389.40	395.91	398.32	397.71	398.39	0.001994	1.24	320.52	360.29	0.42	84.26
Reach 1	30850	0p5-CC-LC_BU				1.06	545.10	395.91	398.58	397.92	398.67	0.001840	1.34	427.59	445.43	0.42	86.28
Reach 1	30750	5_BU				0.90	290.80	395.77	397.74	397.37	397.90	0.004050	1.79	164.36	184.96	0.60	71.54
Reach 1	30750	1_BU				0.89	363.60	395.77	397.92	397.55	398.09	0.004136	1.79	201.00	223.13	0.61	70.17
Reach 1	30750	0p5_BU				0.90	389.40	395.77	397.98	397.60	398.15	0.004135	1.80	214.43	241.83	0.61	69.93
Reach 1	30750	0p5-CC-LC_BU				1.04	545.10	395.77	398.27	397.85	398.44	0.003805	1.90	305.91	391.15	0.59	71.76
Reach 1	30650	5_BU				1.18	290.80	395.40	397.49	396.94	397.62	0.002465	1.67	194.99	221.56	0.49	83.41
Reach 1	30650	1_BU				1.28	363.60	395.40	397.68	397.11	397.82	0.002400	1.74	239.44	254.17	0.49	81.09
Reach 1	30650	0p5_BU				1.32	389.40	395.40	397.74	397.16	397.88	0.002357	1.76	255.24	268.13	0.49	80.31
Reach 1	30650	0p5-CC-LC_BU				1.60	545.10	395.40	398.03	397.45	398.19	0.002214	1.95	357.35	439.55	0.49	77.42
Reach 1	30396	5_BU				1.66	290.80	394.21	396.80	396.46	397.02	0.002645	2.21	172.68	188.02	0.55	84.13
Reach 1	30396	1_BU				1.82	363.60	394.21	397.01	396.63	397.23	0.002568	2.31	213.96	220.11	0.55	79.47
Reach 1	30396	0p5_BU				1.89	389.40	394.21	397.08	396.70	397.31	0.002524	2.34	231.02	247.24	0.54	78.03
Reach 1	30396	0p5-CC-LC_BU				2.22	545.10	394.21	397.44	396.98	397.67	0.002348	2.48	343.72	380.74	0.53	70.40
Reach 1	30150	5_BU				1.58	290.80	393.70	396.10	395.64	396.34	0.003033	2.26	148.74	149.69	0.57	92.47
Reach 1	30150	1_BU				1.74	363.60	393.70	396.26	395.91	396.55	0.003242	2.49	174.86	170.30	0.60	89.98
Reach 1	30150	0p5_BU				1.79	389.40	393.70	396.31	395.97	396.62	0.003340	2.58	184.11	178.66	0.61	89.64
Reach 1	30150	0p5-CC-LC_BU				2.09	545.10	393.70	396.61	396.32	396.99	0.003592	2.96	244.33	237.39	0.65	85.36
Reach 1	29887	5_BU				1.03	290.80	393.58	395.39	394.94	395.51	0.002743	1.61	186.54	186.83	0.51	93.32
Reach 1	29887	1_BU				1.18	363.60	393.58	395.55	395.06	395.70	0.002643	1.72	218.27	196.00	0.51	92.95
Reach 1	29887	0p5_BU				1.23	389.40	393.58	395.60	395.11	395.76	0.002622	1.77	228.56	197.08	0.51	92.83
Reach 1	29887	0p5-CC-LC_BU				1.51	545.10	393.58	395.90	395.35	396.09	0.002549	1.98	287.57	206.61	0.51	92.17
Reach 1	29585	5_BU				1.06	290.80	392.36	394.38	394.02	394.56	0.003708	1.90	152.99	148.27	0.59	99.97
Reach 1	29585	1_BU				1.16	363.60	392.36	394.54	394.16	394.75	0.003795	2.05	178.19	158.79	0.61	99.84
Reach 1	29585	0p5_BU				1.21	389.40	392.36	394.59	394.20	394.81	0.003817	2.11	185.94	160.12	0.61	99.79
Reach 1	29585	0p5-CC-LC_BU				1.43	545.10	392.36	394.88	394.48	395.16	0.003775	2.35	234.95	170.80	0.63	99.42
Reach 1	29234	5_BU				1.19	290.80	391.76	393.33	392.89	393.48	0.002557	1.71	174.72	166.81	0.50	99.33
Reach 1	29234	1_BU				1.37	363.60	391.76	393.52	393.02	393.69	0.002432	1.84	206.79	175.25	0.50	98.80
Reach 1	29234	0p5_BU				1.44	389.40	391.76	393.58	393.06	393.76	0.002400	1.88	217.64	177.22	0.50	98.59
Reach 1	29234	0p5-CC-LC_BU				1.77	545.10	391.76	393.92	393.30	394.14	0.002290	2.11	280.91	203.76	0.51	97.62
Reach 1	28752	5_BU				1.40	290.80	389.58	392.10	391.58	392.25	0.002521	1.77	181.42	168.69	0.48	95.80
Reach 1	28752	1_BU				1.56	363.60	389.58	392.27	391.74	392.46	0.002664	1.95	211.99	178.58	0.50	94.78
Reach 1	28752	0p5_BU				1.62	389.40	389.58	392.33	391.79	392.53	0.002710	2.01	222.14	182.22	0.50	94.34
Reach 1	28752	0p5-CC-LC_BU				1.90	545.10	389.58	392.63	392.06	392.88	0.002952	2.30	279.45	201.07	0.53	91.84
Reach 1	27904	5_BU				1.21	290.80	387.11	389.64		389.81	0.003390	1.98	170.90	190.32	0.58	80.82
Reach 1	27904	1_BU				1.37	363.60	387.11	389.80		389.99	0.003247	2.11	203.75	204.39	0.58	78.31
Reach 1	27904	0p5_BU				1.43	389.40	387.11	389.86		390.06	0.003200	2.15	215.04	208.53	0.58	77.48
Reach 1	27904	0p5-CC-LC_BU				1.73	545.10	387.11	390.15		390.38	0.002988	2.36	288.26	296.64	0.57	73.34
Reach 1	27650	5_BU				1.24	290.80	386.21	388.61	388.26	388.83	0.003776	2.14	150.64	151.08	0.61	88.65
Reach 1	27650	1_BU				1.41	363.60	386.21	388.79	388.45	389.04	0.003687	2.30	178.10	158.42	0.62	87.18
Reach 1	27650	0p5_BU				1.47	389.40	386.21	388.85	388.49	389.11	0.003642	2.35	187.85	160.95	0.62	86.72
Reach 1	27650	0p5-CC-LC_BU				1.81	545.10	386.21	389.21	388.75	389.50	0.003283	2.55	260.03	263.35	0.61	83.66
Reach 1	27359	5_BU				1.33	290.80	385.38	387.54	387.14	387.78	0.003540	2.17	134.16	101.12	0.60	100.00
Reach 1	27359	1_BU				1.54	363.60	385.38	387.76	387.30	388.03	0.003304	2.32	157.05	103.33	0.60	100.00
Reach 1	27359	0p5_BU				1.62	389.40	385.38	387.83	387.36	388.12	0.003245	2.37	164.70	104.75	0.59	99.99
Reach 1	27359	0p5-CC-LC_BU				2.03	545.10	385.38	388.25	387.65	388.60	0.002963	2.63	209.90	115.86	0.59	99.77
Reach 1	27150	5_BU				1.76	290.80	383.59	387.01	386.21	387.21	0.002056	2.00	145.82	85.60	0.48	99.98
Reach 1	27150	1_BU				1.95	363.60	383.59	387.21	386.41	387.47	0.002246	2.24	163.45	88.80	0.51	99.90
Reach 1	27150	0p5_BU				2.02	389.40	383.59	387.28	386.49	387.55	0.002305	2.32	169.33	89.72	0.52	99.85
Reach 1	27150	0p5-CC-LC_BU				2.39	545.10	383.59	387.64	386.88	388.02	0.002571	2.74	203.33	97.32	0.57	99.48
Reach 1	26869	5_BU				1.19	290.80	383.32	385.95	385.76	386.28	0.005851	2.58	115.76	105.03	0.76	99.09
Reach 1	26869	1_BU				1.41	363.60	383.32	386.17	385.92	386.54	0.005071	2.70	139.82	108.76	0.72	98.62
Reach 1	26869	0p5_BU				1.49	389.40	383.32	386.25	385.98	386.62	0.004901	2.74	147.80	110.13	0.72	98.44
Reach 1	26869	0p5-CC-LC_BU				1.87	545.10	383.32	386.63	386.27	387.09	0.004355	3.02	191.67	116.18	0.70	97.46
Reach 1	26650	5_BU				2.06	290.80	382.27	385.62	384.53	385.75	0.001116	1.63	184.95	108.85	0.36	98.62
Reach 1	26650	1_BU				2.27	363.60	382.27	385.83	384.73	386.00	0.001253	1.85	208.28	116.04	0.39	98.01
Reach 1	26650	0p5_BU				2.34	389.40	382.27	385.89	384.80	386.08	0.001299	1.92	216.04	117.45	0.40	97.79
Reach 1	26650	0p5-CC-LC_BU				2.69	545.10	382.27	386.24	385.17	386.51	0.001557	2.30	263.14	161.27	0.45	96.53
Reach 1	26500	5_BU				2.02	290.80	382.41	385.47	384.32	385.59	0.001068	1.57	199.61	118.76	0.35	97.11
Reach 1	26500	1_BU				2.20	363.60	382.41	385.65	384.56	385.81	0.001232	1.79	223.44	139.91	0.39	96.58
Reach 1	26500	0p5_BU				2.26	389.40	382.41	385.71	384.64	385.88	0.001288	1.86	231.85	143.68	0.40	96.36
Reach 1	26500	0p5-CC-LC_BU				2.57	545.10	382.41	386.02	384.98	386.27	0.001596	2.26	285.04	212.49	0.45	94.95
Reach 1	26363	5_BU				1.46	290.80	382.60	385.21		385.37	0.002217	1.82	190.65	202.42	0.48	94.44
Reach 1	26363	1_BU				1.62	363.60	382.60	385.37		385.56	0.002333	2.00	225.75	245.53	0.50	92.33
Reach 1	26363	0p5_BU				1.67	389.40	382.60	385.42		385.62	0.002360	2.06	239.74	274.47	0.51	91.55
Reach 1	26363	0p5-CC-LC_BU				1.96	545.10	382.60	385.71	385.21	385.96	0.002461	2.34	338.43	392.24	0.53	87.26
Reach 1	26186	5_BU				1.27	290.80	382.60	384.44	384.30	384.73	0.005572	2.64	138.54	200.60	0.75	78.27
Reach 1	26186	1_BU				1.41	363.60	382.60	384.59	384.50	384.91	0.005502	2.80	171.00	229.70	0.75	74.32
Reach 1	26186	0p5_BU				1.44	389.40	382.60	384.63	384.54	384.96	0.005568	2.87	180.96	240.98	0.76	73.17
Reach 1	26186	0p5-CC-LC_BU				1.63	545.10	382.60	384.85	384.79	385.25	0.006135	3.26	241.78	350.55	0.82	68.24
Reach 1	26100	5_BU				1.43	290.80	382.20	384.35	383.84	384.46	0.001785	1.61	218.82	266.68	0.43	52.58
Reach 1	26100	1_BU				1.52	363.60	382.20	384.51	383.98	384.63	0.001863	1.72	267.68	346.89	0.45	49.97
Reach 1	26100	0p5_BU				1.56	389.40	382.20	384.56	384.02	384.67	0.001895	1.76	283.63	360.06	0.45	49.11
Reach 1	26100	0p5-CC-LC_BU				1.71	545.10	382.20	384.77	384.26	384.92	0.002200	2.02	371.34	461.96	0.49	45.90
Reach 1	25969	5_BU				1.06	290.80	381.43	384.01	383.68	384.17	0.003714	1.91	183.13	271.43	0.59	72.64

HEC-RAS Plan: KR_Jam_3250 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	25969	1_BU				1.20	363.60	381.43	384.20	383.85	384.35	0.003150	1.91	247.06	414.87	0.56	68.88
Reach 1	25969	0p5_BU				1.24	389.40	381.43	384.25	383.95	384.40	0.003123	1.95	266.37	442.54	0.56	68.00
Reach 1	25969	0p5-CC-LC_BU				1.47	545.10	381.43	384.49	384.16	384.64	0.002691	2.02	384.52	525.05	0.53	60.43
Reach 1	25849	5_BU				1.47	290.80	380.61	383.22	383.14	383.66	0.006096	3.04	109.19	114.49	0.80	89.89
Reach 1	25849	1_BU				1.57	363.60	380.61	383.43	383.39	383.89	0.006150	3.19	137.99	159.38	0.81	86.39
Reach 1	25849	0p5_BU				1.60	389.40	380.61	383.50	383.49	383.95	0.005963	3.18	149.97	170.85	0.80	84.34
Reach 1	25849	0p5-CC-LC_BU				1.75	545.10	380.61	383.82	383.80	384.27	0.005659	3.29	215.39	255.25	0.79	75.34
Reach 1	25750	5_BU				1.68	290.80	379.67	383.13	382.59	383.28	0.001855	1.90	204.16	215.40	0.47	82.34
Reach 1	25750	1_BU				1.75	363.60	379.67	383.37	382.79	383.52	0.001721	1.92	266.43	302.58	0.46	76.74
Reach 1	25750	0p5_BU				1.80	389.40	379.67	383.45	382.84	383.60	0.001686	1.92	291.44	350.73	0.46	75.13
Reach 1	25750	0p5-CC-LC_BU				2.12	545.10	379.67	383.82	383.09	383.95	0.001449	1.95	459.90	547.44	0.43	65.55
Reach 1	25700	5_BU				2.04	290.80	379.24	382.84	382.01	383.15	0.002751	2.52	130.86	141.75	0.56	95.98
Reach 1	25700	1_BU				2.15	363.60	379.24	383.05	382.34	383.39	0.002957	2.70	163.50	173.70	0.59	91.04
Reach 1	25700	0p5_BU				2.21	389.40	379.24	383.12	382.55	383.47	0.002939	2.75	176.17	187.98	0.59	89.28
Reach 1	25700	0p5-CC-LC_BU				2.52	545.10	379.24	383.45	383.26	383.83	0.002929	2.99	251.31	269.96	0.60	79.86
Reach 1	25650	5_BU				2.27	290.80	379.37	382.84	381.72	383.02	0.001474	1.99	180.63	202.08	0.42	90.34
Reach 1	25650	1_BU				2.36	363.60	379.37	383.07	381.99	383.25	0.001512	2.07	235.53	279.42	0.43	82.98
Reach 1	25650	0p5_BU				2.36	389.40	379.37	383.15	382.10	383.33	0.001520	2.07	258.39	300.83	0.43	80.21
Reach 1	25650	0p5-CC-LC_BU				2.64	545.10	379.37	383.53	382.97	383.69	0.001314	2.07	382.70	352.01	0.41	66.96
Reach 1	25600	5_BU				2.15	290.80	379.47	382.73	381.76	382.94	0.001797	2.12	164.31	159.32	0.46	89.93
Reach 1	25600	1_BU				2.19	363.60	379.47	382.94	382.19	383.17	0.002016	2.27	200.26	194.66	0.49	84.75
Reach 1	25600	0p5_BU				2.21	389.40	379.47	383.01	382.32	383.25	0.002049	2.30	214.72	209.74	0.50	82.94
Reach 1	25600	0p5-CC-LC_BU				2.53	545.10	379.47	383.36	382.89	383.61	0.002047	2.52	303.82	304.77	0.51	74.84
Reach 1	25550	5_BU				1.75	290.80	379.57	382.76	382.08	382.85	0.001197	1.51	297.50	340.41	0.37	70.01
Reach 1	25550	1_BU				1.97	363.60	379.57	382.99	382.32	383.07	0.001045	1.53	378.98	382.31	0.35	64.04
Reach 1	25550	0p5_BU				2.04	389.40	379.57	383.06	382.46	383.15	0.000992	1.53	408.79	394.04	0.34	62.09
Reach 1	25550	0p5-CC-LC_BU				2.41	545.10	379.57	383.43	382.64	383.52	0.000893	1.62	564.13	460.89	0.33	55.28
Reach 1	25500	5_BU				1.84	290.80	379.67	382.62	381.71	382.77	0.001612	1.82	176.30	136.72	0.43	90.15
Reach 1	25500	1_BU				2.02	363.60	379.67	382.82	382.05	383.00	0.001713	1.99	204.97	150.79	0.45	87.48
Reach 1	25500	0p5_BU				2.08	389.40	379.67	382.88	382.16	383.08	0.001722	2.04	215.47	154.92	0.45	86.49
Reach 1	25500	0p5-CC-LC_BU				2.37	545.10	379.67	383.18	382.51	383.44	0.002027	2.41	268.28	199.68	0.50	83.45
Reach 1	25458	5_BU				1.31	290.80	379.86	382.43	382.17	382.66	0.003940	2.26	142.92	138.20	0.63	78.51
Reach 1	25458	1_BU				1.44	363.60	379.86	382.65	382.32	382.88	0.003585	2.29	174.71	154.29	0.61	74.64
Reach 1	25458	0p5_BU				1.45	389.40	379.86	382.73	382.37	382.96	0.003497	2.27	187.71	173.04	0.60	73.18
Reach 1	25458	0p5-CC-LC_BU				1.74	545.10	379.86	383.06	382.63	383.32	0.003224	2.45	257.78	242.41	0.59	69.47
Reach 1	25400	5_BU				1.66	290.80	379.62	382.24	381.85	382.46	0.002814	2.24	147.71	119.65	0.56	75.05
Reach 1	25400	1_BU				1.79	363.60	379.62	382.46	382.02	382.70	0.002836	2.36	175.03	133.97	0.56	71.54
Reach 1	25400	0p5_BU				1.79	389.40	379.62	382.52	382.09	382.77	0.002962	2.41	183.67	143.52	0.58	70.72
Reach 1	25400	0p5-CC-LC_BU				1.91	545.10	379.62	382.84	382.38	383.13	0.003170	2.61	246.24	241.43	0.60	65.42
Reach 1	25350	5_BU				1.79	290.80	379.52	382.12	381.57	382.29	0.002029	2.00	172.48	147.10	0.48	76.05
Reach 1	25350	1_BU				1.79	363.60	379.52	382.33	381.75	382.51	0.002221	2.09	204.77	171.33	0.50	71.58
Reach 1	25350	0p5_BU				1.84	389.40	379.52	382.38	381.82	382.58	0.002281	2.16	214.89	189.97	0.51	71.09
Reach 1	25350	0p5-CC-LC_BU				2.15	545.10	379.52	382.70	382.18	382.93	0.002294	2.40	285.05	248.00	0.52	66.10
Reach 1	25300	5_BU				1.19	290.80	379.41	382.04	381.37	382.15	0.001984	1.49	197.32	174.06	0.44	99.76
Reach 1	25300	1_BU				1.16	363.60	379.41	382.22	381.53	382.35	0.002342	1.59	232.35	209.83	0.47	99.53
Reach 1	25300	0p5_BU				1.18	389.40	379.41	382.27	381.58	382.41	0.002370	1.62	244.26	215.88	0.48	99.46
Reach 1	25300	0p5-CC-LC_BU				1.30	545.10	379.41	382.59	381.83	382.74	0.002415	1.74	321.20	257.64	0.49	99.01
Reach 1	25250	5_BU				1.11	290.80	379.31	381.97	381.24	382.05	0.001627	1.29	228.58	213.12	0.39	99.66
Reach 1	25250	1_BU				1.28	363.60	379.31	382.15	381.45	382.24	0.001565	1.38	267.92	225.28	0.39	99.48
Reach 1	25250	0p5_BU				1.33	389.40	379.31	382.20	381.51	382.30	0.001553	1.41	280.59	226.66	0.39	99.41
Reach 1	25250	0p5-CC-LC_BU				1.64	545.10	379.31	382.52	381.75	382.64	0.001490	1.60	353.35	246.98	0.40	98.93
Reach 1	25169	5_BU				1.09	290.80	379.70	381.71	381.15	381.87	0.003048	1.76	169.38	157.89	0.54	98.48
Reach 1	25169	1_BU				1.18	363.60	379.70	381.88	381.33	382.06	0.003215	1.90	196.77	169.84	0.56	98.32
Reach 1	25169	0p5_BU				1.23	389.40	379.70	381.93	381.38	382.12	0.003211	1.94	205.67	170.74	0.56	98.30
Reach 1	25169	0p5-CC-LC_BU				1.51	545.10	379.70	382.23	381.73	382.47	0.003104	2.18	262.42	210.25	0.57	98.06
Reach 1	25100	5_BU				1.22	290.80	378.81	381.54	381.04	381.68	0.002378	1.66	181.33	213.67	0.48	97.23
Reach 1	25100	1_BU				1.36	363.60	378.81	381.69	381.19	381.86	0.002558	1.85	203.72	217.45	0.51	97.17
Reach 1	25100	0p5_BU				1.41	389.40	378.81	381.74	381.23	381.92	0.002621	1.92	211.01	218.66	0.52	97.15
Reach 1	25100	0p5-CC-LC_BU				1.68	545.10	378.81	382.01	381.46	382.26	0.002880	2.25	252.85	241.99	0.55	97.05
Reach 1	24950	5_BU				0.92	290.80	378.16	380.88	380.71	381.13	0.006355	2.28	138.26	169.65	0.76	95.91
Reach 1	24950	1_BU				1.10	363.60	378.16	381.08	380.85	381.34	0.005190	2.32	173.77	184.29	0.70	94.94
Reach 1	24950	0p5_BU				1.17	389.40	378.16	381.14	380.89	381.41	0.004897	2.33	185.97	189.18	0.69	94.52
Reach 1	24950	0p5-CC-LC_BU				1.50	545.10	378.16	381.49	381.14	381.78	0.003905	2.46	254.63	222.32	0.64	92.54
Reach 1	24800	5_BU				1.60	290.80	377.37	380.57	379.81	380.69	0.001533	1.58	190.15	132.16	0.40	99.04
Reach 1	24800	1_BU				1.79	363.60	377.37	380.77	379.96	380.92	0.001610	1.75	217.69	143.63	0.42	98.68
Reach 1	24800	0p5_BU				1.86	389.40	377.37	380.83	380.02	381.00	0.001632	1.80	227.38	148.82	0.42	98.51
Reach 1	24800	0p5-CC-LC_BU				2.19	545.10	377.37	381.17	380.30	381.39	0.001804	2.11	283.21	185.34	0.46	97.40
Reach 1	24693	5_BU				0.92	290.80	377.15	379.85	379.85	380.31	0.011123	2.99	97.86	109.68	1.00	99.87
Reach 1	24693	1_BU				1.07	363.60	377.15	380.01	380.01	380.53	0.010483	3.20	114.62	110.88	0.99	99.73
Reach 1	24693	0p5_BU				1.12	389.40	377.15	380.06	380.06	380.60	0.010275	3.27	120.40	111.29	0.99	99.69
Reach 1	24693	0p5-CC-LC_BU				1.62	545.10	377.15	380.57	380.34	381.05	0.005620	3.10	186.09	148.90	0.78	98.59
Reach 1	24600	5_BU				2.57	290.80	376.10	379.65	378.04	379.77	0.000770	1.57	186.26	77.20	0.31	99.97
Reach 1	24600	1_BU				2.83	363.60	376.10	379.96	378.27	380.11	0.000840	1.74	211.47	88.64	0.33	99.80
Reach 1	24600	0p5_BU				2.93	389.40	376.10	380.06	378.36	380.22	0.000858	1.80	220.69	98.74	0.34	99.69
Reach 1	24600	0p5-CC-LC_BU				3.45	545.10	376.10	380.58	378.80	380.80	0.000928	2.09	289.35	147.03	0.36	97.60
Reach 1	24500	5_BU				2.32	290.80	375.69	379.51	378.27	379.67	0.001183	1.81	164.43	84.27	0.38	99.25
Reach 1	24500	1_BU				2.58	363.60	375.69	379.81	378.53	380.01	0.001235	1.99	191.77	96.25	0.39	98.30
Reach 1	24500	0p5_BU				2.67	389.40	375.69	379.91	378.60	380.11	0.001249	2.04	201.25	98.49	0.40	97.94
Reach 1	24500	0p5-CC-LC_BU				3.17	545.10	375.69	380.42	379.03	380.69	0.001305	2.34	260.26	136.36	0.42	95.60
Reach 1	24400	5_BU				2.23	290.80	375.71	379.24	378.32	379.51	0.002067	2.32	126.02	63.01	0.50	99.96
Reach 1	24400	1_BU				2.43	363.60	375.71	379.48	378.58	379.82	0.002382	2.60	142.42	69.92	0.53	99.63
Reach 1	24400	0p5_BU				2.49	389.40	375.71	379.56	378.66	379.93	0.002468	2.69	148.04	71.77	0.54	99.47
Reach 1	24400	0p5-CC-LC_BU				2.83	545.10	375.71	379.97	379.12	380.48	0.002913	3.20	178.94	86.26	0.61	98.35
Reach 1	24350	5_BU				2.29	290.80	375.54	379.18	378.09	379.40	0.001817	2.08	141.19	67.13	0.44	99.81
Reach 1	24350	1_BU				2.47	363.60	375.54	379.42	378.34	379.70	0.002122	2.34	158.94	80.82	0.48	99.42
Reach 1	24350	0p5_BU				2.52	389.40	375.54	379.50	378.41	379.80	0.002222	2.42	165.49	87.12	0.49	99.24
Reach 1	24350	0p5-CC-LC_BU				2.91	545.10	375.54	379.91	378.87	380.32	0.002589	2.87	206.77	116.82	0.54	97.66
Reach 1	24300	5_BU				2.20	290.80	375.93	379.12	378.07	379.31	0.001463	1.94	150.46	75.09	0.42	99.92
Reach 1	24300	1_BU				2.39	363.60	375.93	379.35	378.30	379.59	0.001671	2.19	168.53	82.28	0.45	99.67
Reach 1	24300	0p5_BU				2.44	389.40	375.93	379.42	378.37	379.69	0.001741	2.27	174.85	86.53	0.46	99.56
Reach 1	24300	0p5-CC-LC_BU				2.79	545.10	375.93	379.82	378.78	380.19	0.002067	2.70	214.28	111.96	0.52	98.52
Reach 1	24250	5_BU				2.22	290.80	376.30	379.08	377.96	379.23	0.001133	1.72	173.78	92.13	0.37	99.09
Reach 1	24250	1_BU				2.44	363.60	376.30	379.32	378.16	379.50	0.001266	1.94	196.30	101.16	0.40	98.43
Reach 1	24250	0p5_BU				2.52	389.40	376.30	379.39	378.23	379.59	0.001306	2.01	204.05	103.10	0.40	98.16
Reach 1	24250	0p5-CC-LC_BU				2.91	545.10	376.30	379.80	378.61	380.08	0.001516	2.38	252.69	153.48	0.45	96.65
Reach 1	24200	5_BU				1.92	290.80	376.73	379.00	378.13	379.17	0.001491	1.80	166.58	98.16	0.41	98.92
Reach 1	24200	1_BU				2.12	363.60	376.73	379.23	378.31	379.43	0.001603	1.99	189.60	102.93	0.44	98.26
Reach 1	24200	0p5_BU				2.20	389.40	376.73	379.31	378.37	379.52	0.001634	2.06	197.42	106.93	0.44	98.04

HEC-RAS Plan: KR_Jam_3250 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	24200	0p5-CC-LC_BU				2.60	545.10	376.73	379.71	378.74	380.00	0.001771	2.39	247.88	158.75	0.47	96.49
Reach 1	24150	5_BU				1.65	290.80	376.70	378.87	378.23	379.07	0.002248	2.00	147.33	95.95	0.50	99.58
Reach 1	24150	1_BU				1.87	363.60	376.70	379.09	378.42	379.33	0.002312	2.20	168.64	98.94	0.51	99.17
Reach 1	24150	0p5_BU				1.94	389.40	376.70	379.16	378.47	379.42	0.002333	2.26	175.78	101.03	0.52	99.03
Reach 1	24150	0p5-CC-LC_BU				2.32	545.10	376.70	379.55	378.81	379.89	0.002434	2.61	221.21	137.46	0.55	97.90
Reach 1	24100	5_BU				1.73	290.80	376.59	378.75	378.09	378.96	0.002236	2.05	144.33	93.93	0.50	99.46
Reach 1	24100	1_BU				1.93	363.60	376.59	378.96	378.27	379.22	0.002376	2.28	164.09	99.11	0.52	98.87
Reach 1	24100	0p5_BU				2.00	389.40	376.59	379.02	378.33	379.30	0.002420	2.35	170.87	101.93	0.53	98.65
Reach 1	24100	0p5-CC-LC_BU				2.36	545.10	376.59	379.39	378.71	379.76	0.002641	2.75	211.60	130.45	0.57	97.28
Reach 1	24050	5_BU				1.78	290.80	376.51	378.65	377.94	378.85	0.002068	2.02	146.22	154.30	0.48	99.68
Reach 1	24050	1_BU				1.97	363.60	376.51	378.84	378.13	379.10	0.002266	2.26	165.28	165.48	0.51	99.17
Reach 1	24050	0p5_BU				2.04	389.40	376.51	378.91	378.19	379.18	0.002327	2.34	172.02	171.76	0.52	98.96
Reach 1	24050	0p5-CC-LC_BU				2.39	545.10	376.51	379.25	378.55	379.63	0.002608	2.75	211.67	193.18	0.57	97.41
Reach 1	24000	5_BU				1.80	290.80	376.41	378.55	377.83	378.75	0.002004	1.99	146.70	119.15	0.47	99.96
Reach 1	24000	1_BU				1.97	363.60	376.41	378.73	378.00	378.99	0.002282	2.25	163.94	128.24	0.51	99.63
Reach 1	24000	0p5_BU				2.03	389.40	376.41	378.79	378.07	379.07	0.002379	2.34	169.70	133.86	0.53	99.51
Reach 1	24000	0p5-CC-LC_BU				2.32	545.10	376.41	379.10	378.41	379.49	0.002862	2.81	205.24	189.62	0.59	98.42
Reach 1	23950	5_BU				1.70	290.80	376.45	378.45	377.80	378.64	0.002072	1.95	158.09	149.75	0.48	97.52
Reach 1	23950	1_BU				1.86	363.60	376.45	378.63	377.98	378.86	0.002311	2.19	179.52	160.16	0.51	96.43
Reach 1	23950	0p5_BU				1.92	389.40	376.45	378.68	378.05	378.94	0.002393	2.27	186.74	164.37	0.52	96.09
Reach 1	23950	0p5-CC-LC_BU				2.18	545.10	376.45	378.98	378.40	379.33	0.002851	2.70	231.22	220.12	0.58	94.43
Reach 1	23900	5_BU				1.61	290.80	376.38	378.36	377.74	378.53	0.002005	1.86	166.89	160.21	0.47	95.73
Reach 1	23900	1_BU				1.77	363.60	376.38	378.53	377.91	378.74	0.002248	2.10	188.45	181.46	0.50	95.07
Reach 1	23900	0p5_BU				1.83	389.40	376.38	378.58	377.97	378.81	0.002326	2.18	195.91	190.09	0.51	94.79
Reach 1	23900	0p5-CC-LC_BU				2.11	545.10	376.38	378.86	378.26	379.18	0.002716	2.59	246.61	271.43	0.57	93.04
Reach 1	23850	5_BU				1.54	290.80	376.45	378.27	377.67	378.43	0.002019	1.80	172.45	166.51	0.46	94.47
Reach 1	23850	1_BU				1.68	363.60	376.45	378.42	377.82	378.62	0.002297	2.04	193.09	182.82	0.50	93.77
Reach 1	23850	0p5_BU				1.72	389.40	376.45	378.47	377.87	378.68	0.002394	2.12	199.85	195.75	0.51	93.54
Reach 1	23850	0p5-CC-LC_BU				1.94	545.10	376.45	378.72	378.17	379.03	0.002982	2.56	239.04	259.78	0.59	92.87
Reach 1	23800	5_BU				1.38	290.80	376.34	378.14	377.66	378.31	0.002516	1.87	174.23	198.61	0.51	92.85
Reach 1	23800	1_BU				1.52	363.60	376.34	378.28	377.82	378.49	0.002808	2.11	196.86	217.68	0.55	91.67
Reach 1	23800	0p5_BU				1.56	389.40	376.34	378.32	377.87	378.54	0.002911	2.18	204.27	224.19	0.56	91.27
Reach 1	23800	0p5-CC-LC_BU				1.79	545.10	376.34	378.55	378.16	378.86	0.003472	2.61	245.56	274.10	0.62	89.32
Reach 1	23750	5_BU				1.12	290.80	376.43	378.03	377.61	378.15	0.002562	1.63	219.58	253.72	0.49	79.36
Reach 1	23750	1_BU				1.24	363.60	376.43	378.16	377.73	378.30	0.002786	1.82	254.08	272.79	0.52	78.90
Reach 1	23750	0p5_BU				1.28	389.40	376.43	378.21	377.77	378.36	0.002826	1.86	266.18	283.89	0.53	78.31
Reach 1	23750	0p5-CC-LC_BU				1.50	545.10	376.43	378.45	377.98	378.63	0.002976	2.09	342.61	345.85	0.55	74.87
Reach 1	23700	5_BU				0.80	290.80	376.64	377.87	377.52	377.96	0.003627	1.55	241.39	354.52	0.55	60.76
Reach 1	23700	1_BU				0.93	363.60	376.64	378.01	377.62	378.11	0.003284	1.63	293.67	393.12	0.54	60.18
Reach 1	23700	0p5_BU				0.98	389.40	376.64	378.05	377.62	378.16	0.003165	1.65	312.75	409.28	0.53	59.82
Reach 1	23700	0p5-CC-LC_BU				1.23	545.10	376.64	378.32	377.80	378.43	0.002643	1.74	441.03	574.95	0.50	57.32
Reach 1	23650	5_BU				0.83	290.80	376.40	377.63	377.35	377.74	0.003995	1.67	205.68	310.26	0.58	64.76
Reach 1	23650	1_BU				1.00	363.60	376.40	377.81	377.45	377.92	0.003320	1.71	265.26	368.14	0.55	64.64
Reach 1	23650	0p5_BU				1.05	389.40	376.40	377.86	377.47	377.98	0.003181	1.73	286.04	381.40	0.54	64.45
Reach 1	23650	0p5-CC-LC_BU				1.26	545.10	376.40	378.16	377.65	378.28	0.002676	1.77	418.72	516.32	0.50	61.09
Reach 1	23600	5_BU				0.90	290.80	375.86	377.50	377.06	377.58	0.002473	1.40	256.78	345.39	0.47	60.95
Reach 1	23600	1_BU				1.09	363.60	375.86	377.71	377.15	377.78	0.001993	1.42	332.32	384.93	0.44	61.02
Reach 1	23600	0p5_BU				1.14	389.40	375.86	377.77	377.18	377.84	0.001890	1.43	356.60	400.61	0.43	60.62
Reach 1	23600	0p5-CC-LC_BU				1.37	545.10	375.86	378.08	377.35	378.16	0.001638	1.50	495.28	481.55	0.41	58.27
Reach 1	23550	5_BU				0.95	290.80	375.45	377.39	376.96	377.47	0.002199	1.36	236.27	313.11	0.45	65.21
Reach 1	23550	1_BU				1.17	363.60	375.45	377.62	377.06	377.70	0.001695	1.37	316.38	368.59	0.41	65.69
Reach 1	23550	0p5_BU				1.23	389.40	375.45	377.69	377.10	377.77	0.001631	1.39	340.74	380.78	0.40	65.69
Reach 1	23550	0p5-CC-LC_BU				1.44	545.10	375.45	378.01	377.30	378.09	0.001478	1.47	477.28	479.60	0.39	62.85
Reach 1	23500	5_BU				1.07	290.80	375.07	377.31	376.64	377.38	0.001490	1.20	258.58	270.65	0.37	66.74
Reach 1	23500	1_BU				1.27	363.60	375.07	377.56	376.76	377.63	0.001227	1.22	336.85	351.69	0.35	67.14
Reach 1	23500	0p5_BU				1.32	389.40	375.07	377.63	376.80	377.69	0.001196	1.24	361.00	365.19	0.34	66.90
Reach 1	23500	0p5-CC-LC_BU				1.58	545.10	375.07	377.95	377.02	378.03	0.001140	1.36	489.85	444.86	0.35	65.61
Reach 1	23450	5_BU				1.17	290.80	375.14	377.26	376.42	377.32	0.001048	1.11	285.69	265.50	0.33	72.80
Reach 1	23450	1_BU				1.33	363.60	375.14	377.52	376.54	377.57	0.000933	1.13	359.74	316.14	0.31	72.67
Reach 1	23450	0p5_BU				1.38	389.40	375.14	377.58	376.57	377.64	0.000929	1.16	381.57	331.28	0.31	72.77
Reach 1	23450	0p5-CC-LC_BU				1.47	545.10	375.14	377.91	376.80	377.97	0.001052	1.24	505.98	451.06	0.33	70.01
Reach 1	23400	5_BU				1.23	290.80	375.03	377.21	376.39	377.27	0.000989	1.12	281.06	236.58	0.32	71.29
Reach 1	23400	1_BU				1.31	363.60	375.03	377.47	376.50	377.53	0.000962	1.12	347.35	283.55	0.31	70.00
Reach 1	23400	0p5_BU				1.36	389.40	375.03	377.54	376.53	377.60	0.000952	1.15	366.73	291.92	0.31	70.12
Reach 1	23400	0p5-CC-LC_BU				1.49	545.10	375.03	377.85	376.74	377.92	0.001087	1.28	466.33	368.07	0.33	69.07
Reach 1	23300	5_BU				1.32	290.80	374.20	377.06	376.25	377.16	0.001496	1.40	226.97	196.95	0.39	90.18
Reach 1	23300	1_BU				1.17	363.60	374.20	377.33	376.40	377.41	0.001676	1.37	289.93	277.45	0.40	87.64
Reach 1	23300	0p5_BU				1.21	389.40	374.20	377.40	376.45	377.48	0.001615	1.37	310.26	289.05	0.40	87.39
Reach 1	23300	0p5-CC-LC_BU				1.41	545.10	374.20	377.70	376.71	377.80	0.001624	1.52	403.73	343.56	0.41	86.74
Reach 1	23200	5_BU				1.15	290.80	374.25	376.72	376.38	376.92	0.003629	2.01	150.64	143.99	0.60	94.78
Reach 1	23200	1_BU				1.18	363.60	374.25	376.97	376.53	377.17	0.003575	2.02	188.78	178.35	0.59	93.43
Reach 1	23200	0p5_BU				1.12	389.40	374.25	377.04	376.57	377.24	0.003783	2.01	202.83	198.09	0.61	92.66
Reach 1	23200	0p5-CC-LC_BU				1.23	545.10	374.25	377.32	376.86	377.55	0.003921	2.17	265.29	256.30	0.63	91.26
Reach 1	23016	5_BU				1.26	290.80	373.81	376.26		376.39	0.002152	1.63	198.73	222.39	0.46	84.28
Reach 1	23016	1_BU				1.22	363.60	373.81	376.48		376.60	0.002346	1.67	249.67	291.08	0.48	81.90
Reach 1	23016	0p5_BU				1.24	389.40	373.81	376.54		376.66	0.002319	1.67	266.09	307.22	0.48	80.69
Reach 1	23016	0p5-CC-LC_BU				1.43	545.10	373.81	376.85		376.99	0.002114	1.76	356.72	345.38	0.47	76.40
Reach 1	22900	5_BU				1.10	290.80	373.42	375.67		375.97	0.006033	2.49	123.78	154.32	0.76	94.80
Reach 1	22900	1_BU				1.28	363.60	373.42	375.92		376.21	0.004694	2.43	163.09	199.11	0.69	92.00
Reach 1	22900	0p5_BU				1.35	389.40	373.42	376.00		376.28	0.004366	2.43	176.86	213.80	0.67	90.99
Reach 1	22900	0p5-CC-LC_BU				1.32	545.10	373.42	376.37		376.63	0.004288	2.37	266.02	335.41	0.66	83.72
Reach 1	22750	5_BU				1.31	290.80	372.99	375.22		375.38	0.002450	1.78	163.49	126.86	0.50	100.00
Reach 1	22750	1_BU				1.21	363.60	372.99	375.46		375.63	0.002868	1.83	198.58	172.22	0.53	99.99
Reach 1	22750	0p5_BU				1.17	389.40	372.99	375.55		375.72	0.002982	1.83	213.24	192.08	0.54	99.98
Reach 1	22750	0p5-CC-LC_BU				1.20	545.10	372.99	375.92		376.09	0.002921	1.84	299.14	284.67	0.54	99.31
Reach 1	22584	5_BU				1.37	290.80	372.69	374.84		374.99	0.002172	1.73	168.93	131.58	0.47	99.94
Reach 1	22584	1_BU				1.58	363.60	372.69	375.06		375.23	0.002070	1.86	198.65	149.09	0.47	99.65
Reach 1	22584	0p5_BU				1.65	389.40	372.69	375.12		375.31	0.002056	1.91	209.51	173.56	0.47	99.47
Reach 1	22584	0p5-CC-LC_BU				2.00	545.10	372.69	375.48		375.70	0.001967	2.12	288.44	284.11	0.48	95.88
Reach 1	22500	5_BU				1.54	290.80	372.35	374.65		374.82	0.002012	1.80	168.51	128.37	0.46	98.09
Reach 1	22500	1_BU				1.63	363.60	372.35	374.87		375.06	0.002087	1.95	198.45	151.08	0.49	97.15
Reach 1	22500	0p5_BU				1.68	389.40	372.35	374.93		375.13	0.002093	2.00	208.89	158.67	0.49	96.97
Reach 1	22500	0p5-CC-LC_BU				2.01	545.10	372.35	375.27		375.52	0.002177	2.27	266.76	236.70	0.51	94.50
Reach 1	22400	5_BU				1.60	290.80	372.16	374.45		374.62	0.001956	1.84	159.96	109.70	0.46	98.21
Reach 1	22400	1_BU				1.78	363.60	372.16	374.64		374.85	0.002064	2.03	181.74	134.44	0.49	97.21
Reach 1	22400	0p5_BU				1.83	389.40	372.16	374.70		374.92	0.002102	2.09	189.33	139.15	0.49	96.82
Reach 1	22400	0p5-CC-LC_BU				2.12	545.10	372.16	375.02		375.29	0.002234	2.39	247.67	327.51	0.52	92.89

HEC-RAS Plan: KR_Jam_3250 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	22300	5_BU				1.39	290.80	371.96	374.08		374.35	0.003512	2.29	130.66	118.86	0.62	98.51
Reach 1	22300	1_BU				1.49	363.60	371.96	374.23		374.56	0.003870	2.55	150.16	140.76	0.67	97.21
Reach 1	22300	0p5_BU				1.53	389.40	371.96	374.28		374.62	0.003991	2.64	156.95	150.69	0.68	96.69
Reach 1	22300	0p5-CC-LC_BU				1.73	545.10	371.96	374.50	374.36	374.96	0.004706	3.10	196.71	213.04	0.75	93.00
Reach 1	22200	5_BU				1.32	290.80	371.77	373.91		374.04	0.002049	1.67	179.57	183.13	0.46	93.08
Reach 1	22200	1_BU				1.47	363.60	371.77	374.07		374.22	0.002077	1.80	212.09	217.42	0.47	90.09
Reach 1	22200	0p5_BU				1.53	389.40	371.77	374.12		374.28	0.002057	1.83	224.26	231.27	0.47	88.80
Reach 1	22200	0p5-CC-LC_BU				1.79	545.10	371.77	374.38		374.57	0.002019	2.01	296.98	324.53	0.48	81.43
Reach 1	22094	5_BU				1.06	310.30	371.63	373.58		373.75	0.003438	1.84	170.44	201.19	0.57	92.48
Reach 1	22094	1_BU				1.18	389.90	371.63	373.74		373.93	0.003274	1.92	207.80	253.50	0.57	89.39
Reach 1	22094	0p5_BU				1.21	418.50	371.63	373.80		373.99	0.003208	1.95	223.01	266.72	0.56	88.57
Reach 1	22094	0p5-CC-LC_BU				1.29	586.00	371.63	374.08		374.27	0.003085	1.99	305.59	361.49	0.56	80.32
Reach 1	22050	5_BU				0.97	310.30	371.32	373.41		373.58	0.004083	1.89	178.03	217.83	0.61	94.94
Reach 1	22050	1_BU				1.05	389.90	371.32	373.56		373.76	0.004239	2.03	215.09	274.47	0.63	94.47
Reach 1	22050	0p5_BU				1.06	418.50	371.32	373.62		373.83	0.004262	2.04	232.59	299.37	0.63	93.82
Reach 1	22050	0p5-CC-LC_BU				1.11	586.00	371.32	373.87		374.10	0.004632	2.21	316.69	382.68	0.67	91.25
Reach 1	21950	5_BU				0.85	310.30	370.75	372.91		373.10	0.005049	1.92	160.03	239.44	0.67	85.97
Reach 1	21950	1_BU				0.88	389.90	370.75	373.07		373.27	0.005012	1.96	199.41	288.74	0.67	84.72
Reach 1	21950	0p5_BU				0.89	418.50	370.75	373.13		373.32	0.005164	2.00	213.65	309.83	0.68	85.49
Reach 1	21950	0p5-CC-LC_BU				0.96	586.00	370.75	373.39		373.59	0.004627	1.99	301.48	440.28	0.65	81.19
Reach 1	21825	5_BU				0.84	310.30	370.87	372.60		372.72	0.002103	1.23	221.53	313.03	0.43	63.66
Reach 1	21825	1_BU				0.98	389.90	370.87	372.83		372.92	0.001731	1.24	299.33	413.95	0.40	65.74
Reach 1	21825	0p5_BU				1.03	418.50	370.87	372.90		372.98	0.001616	1.24	325.68	444.97	0.39	65.14
Reach 1	21825	0p5-CC-LC_BU				1.13	586.00	370.87	373.22		373.29	0.001320	1.19	499.06	744.61	0.36	60.26
Reach 1	21700	5_BU				1.29	310.30	369.78	372.29		372.44	0.002466	1.78	191.38	187.43	0.50	95.91
Reach 1	21700	1_BU				1.41	389.90	369.78	372.49		372.67	0.002523	1.90	234.40	283.52	0.51	94.63
Reach 1	21700	0p5_BU				1.41	418.50	369.78	372.55		372.74	0.002600	1.94	251.25	322.29	0.52	94.01
Reach 1	21700	0p5-CC-LC_BU				1.56	586.00	369.78	372.86		373.07	0.002682	2.10	353.60	502.07	0.54	90.12
Reach 1	21600	5_BU				1.22	310.30	369.52	372.01		372.18	0.002828	1.84	187.19	236.34	0.53	94.09
Reach 1	21600	1_BU				1.35	389.90	369.52	372.20		372.39	0.002916	2.00	229.11	287.47	0.55	93.78
Reach 1	21600	0p5_BU				1.39	418.50	369.52	372.25		372.45	0.002958	2.05	242.70	302.43	0.55	93.14
Reach 1	21600	0p5-CC-LC_BU				1.57	586.00	369.52	372.51		372.76	0.003205	2.31	320.06	429.72	0.59	89.91
Reach 1	21530	5_BU				1.18	310.30	369.79	371.83		371.97	0.002667	1.74	219.64	303.44	0.51	88.93
Reach 1	21530	1_BU				1.36	389.90	369.79	372.04		372.18	0.002343	1.79	278.36	385.00	0.49	86.18
Reach 1	21530	0p5_BU				1.41	418.50	369.79	372.09		372.24	0.002347	1.83	294.70	401.41	0.49	85.33
Reach 1	21530	0p5-CC-LC_BU				1.64	586.00	369.79	372.34		372.53	0.002545	2.11	388.74	602.41	0.53	82.63
Reach 1	21450	5_BU				1.20	310.30	368.92	371.65		371.77	0.002301	1.62	233.46	306.20	0.47	89.18
Reach 1	21450	1_BU				1.18	389.90	368.92	371.89		372.00	0.002269	1.60	312.16	520.10	0.47	85.75
Reach 1	21450	0p5_BU				1.24	418.50	368.92	371.95		372.06	0.002193	1.62	338.16	567.84	0.46	85.18
Reach 1	21450	0p5-CC-LC_BU				1.51	586.00	368.92	372.21		372.35	0.002047	1.78	486.72	775.07	0.46	81.24
Reach 1	21319	5_BU				1.19	310.30	368.49	371.18		371.39	0.003856	2.07	164.80	194.82	0.61	95.21
Reach 1	21319	1_BU				1.19	389.90	368.49	371.39		371.61	0.004191	2.16	205.28	285.52	0.63	93.43
Reach 1	21319	0p5_BU				1.18	418.50	368.49	371.45		371.68	0.004310	2.18	220.95	319.66	0.64	92.46
Reach 1	21319	0p5-CC-LC_BU				1.26	586.00	368.49	371.71		371.97	0.004657	2.37	299.25	437.61	0.68	89.27
Reach 1	21250	5_BU				1.10	310.30	368.22	370.93		371.12	0.003850	1.99	170.72	221.85	0.61	94.84
Reach 1	21250	1_BU				1.07	389.90	368.22	371.09		371.31	0.004572	2.13	205.36	286.20	0.66	93.86
Reach 1	21250	0p5_BU				1.07	418.50	368.22	371.15		371.37	0.004632	2.15	219.32	306.44	0.66	93.11
Reach 1	21250	0p5-CC-LC_BU				1.26	586.00	368.22	371.38		371.65	0.004609	2.38	285.11	377.02	0.68	90.67
Reach 1	21200	5_BU				0.94	310.30	368.17	370.81		370.93	0.003153	1.63	216.81	298.77	0.54	89.40
Reach 1	21200	1_BU				1.05	389.90	368.17	370.97		371.11	0.003048	1.72	262.42	343.48	0.54	88.21
Reach 1	21200	0p5_BU				1.09	418.50	368.17	371.03		371.17	0.002987	1.75	280.62	362.62	0.53	87.81
Reach 1	21200	0p5-CC-LC_BU				1.31	586.00	368.17	371.29		371.45	0.002816	1.91	371.38	446.07	0.53	85.43
Reach 1	21150	5_BU				0.92	310.30	368.09	370.60		370.76	0.004098	1.82	192.21	282.37	0.61	87.70
Reach 1	21150	1_BU				1.10	389.90	368.09	370.79		370.95	0.003464	1.89	240.27	344.29	0.58	86.52
Reach 1	21150	0p5_BU				1.16	418.50	368.09	370.85		371.01	0.003315	1.92	258.68	362.75	0.57	86.37
Reach 1	21150	0p5-CC-LC_BU				1.43	586.00	368.09	371.12		371.31	0.003021	2.10	347.37	421.30	0.56	83.23
Reach 1	21100	5_BU				1.15	310.30	368.03	370.49	370.02	370.60	0.002359	1.61	226.33	262.21	0.48	79.91
Reach 1	21100	1_BU				1.21	389.90	368.03	370.68	370.16	370.80	0.002353	1.65	277.41	334.20	0.48	77.11
Reach 1	21100	0p5_BU				1.24	418.50	368.03	370.75	370.20	370.87	0.002356	1.67	297.53	362.11	0.48	76.67
Reach 1	21100	0p5-CC-LC_BU				1.48	586.00	368.03	371.03	370.43	371.17	0.002342	1.86	398.48	463.89	0.49	74.91
Reach 1	21050	5_BU				1.26	310.30	367.97	370.29		370.46	0.002929	1.90	191.00	244.56	0.54	86.30
Reach 1	21050	1_BU				1.36	389.90	367.97	370.46		370.65	0.003134	2.06	229.05	290.77	0.56	84.41
Reach 1	21050	0p5_BU				1.30	418.50	367.97	370.52		370.71	0.003356	2.07	246.08	328.46	0.58	82.77
Reach 1	21050	0p5-CC-LC_BU				1.44	586.00	367.97	370.80		371.01	0.003472	2.23	341.07	441.35	0.59	78.51
Reach 1	21000	5_BU				1.23	310.30	367.91	370.19		370.30	0.002106	1.60	242.64	292.99	0.46	81.07
Reach 1	21000	1_BU				1.37	389.90	367.91	370.35		370.48	0.002107	1.73	288.32	370.42	0.47	79.52
Reach 1	21000	0p5_BU				1.42	418.50	367.91	370.40		370.54	0.002119	1.78	305.39	399.39	0.48	78.96
Reach 1	21000	0p5-CC-LC_BU				1.66	586.00	367.91	370.66		370.83	0.002295	2.05	406.13	525.09	0.51	76.54
Reach 1	20950	5_BU				1.27	310.30	367.85	370.14		370.20	0.001320	1.29	324.70	339.35	0.37	62.22
Reach 1	20950	1_BU				1.44	389.90	367.85	370.31		370.38	0.001337	1.41	385.51	413.89	0.38	61.40
Reach 1	20950	0p5_BU				1.49	418.50	367.85	370.36		370.44	0.001392	1.47	405.84	435.02	0.39	61.79
Reach 1	20950	0p5-CC-LC_BU				1.75	586.00	367.85	370.62		370.72	0.001478	1.69	536.22	634.98	0.41	59.35
Reach 1	20892	5_BU				1.23	310.30	367.84	370.01		370.11	0.002201	1.63	264.10	329.26	0.47	66.04
Reach 1	20892	1_BU				1.38	389.90	367.84	370.19		370.29	0.002131	1.73	325.62	413.64	0.47	63.85
Reach 1	20892	0p5_BU				1.43	418.50	367.84	370.23		370.35	0.002154	1.78	346.12	442.75	0.48	63.24
Reach 1	20892	0p5-CC-LC_BU				1.64	586.00	367.84	370.48		370.62	0.002353	2.04	476.62	669.29	0.51	60.79
Reach 1	20850	5_BU				1.13	310.30	367.74	369.95		370.03	0.002144	1.52	286.16	384.64	0.46	57.10
Reach 1	20850	1_BU				1.24	389.90	367.74	370.12		370.21	0.002205	1.64	359.70	475.29	0.47	56.84
Reach 1	20850	0p5_BU				1.29	418.50	367.74	370.17		370.26	0.002203	1.68	383.36	495.73	0.47	56.45
Reach 1	20850	0p5-CC-LC_BU				1.53	586.00	367.74	370.41		370.53	0.002297	1.92	519.67	681.40	0.50	54.79
Reach 1	20800	5_BU				1.22	310.30	367.71	369.79		369.93	0.003000	1.90	211.67	295.68	0.55	67.72
Reach 1	20800	1_BU				1.36	389.90	367.71	369.94		370.10	0.003213	2.10	261.20	388.81	0.58	67.19
Reach 1	20800	0p5_BU				1.40	418.50	367.71	369.98		370.15	0.003246	2.16	279.53	423.21	0.58	66.45
Reach 1	20800	0p5-CC-LC_BU				1.63	586.00	367.71	370.21		370.42	0.003380	2.44	395.24	594.50	0.61	62.34
Reach 1	20750	5_BU				1.18	310.30	367.67	369.71		369.80	0.002367	1.64	298.34	406.09	0.48	53.49
Reach 1	20750	1_BU				1.27	389.90	367.67	369.86		369.96	0.002613	1.82	362.54	477.33	0.51	53.16
Reach 1	20750	0p5_BU				1.30	418.50	367.67	369.91		370.02	0.002620	1.85	386.02	496.13	0.52	52.37
Reach 1	20750	0p5-CC-LC_BU				1.52	586.00	367.67	370.15		370.27	0.002638	2.05	516.91	629.73	0.53	49.31
Reach 1	20700	5_BU				1.17	310.30	367.63	369.57		369.70	0.003350	1.94	247.59	384.21	0.57	59.65
Reach 1	20700	1_BU				1.26	389.90	367.63	369.72		369.86	0.003394	2.06	310.65	461.34	0.59	56.95
Reach 1	20700	0p5_BU				1.30	418.50	367.63	369.77		369.91	0.003365	2.09	333.78	473.09	0.59	56.06
Reach 1	20700	0p5-CC-LC_BU				1.56	586.00	367.63	370.03		370.18	0.003101	2.26	462.57	567.47	0.58	51.70
Reach 1	20650	5_BU				1.13	310.30	367.50	369.47		369.59	0.003096	1.83	238.08	320.70	0.55	57.86
Reach 1	20650	1_BU				1.27	389.90	367.50	369.62		369.75	0.002991	1.95	289.75	365.50	0.55	55.70
Reach 1	20650	0p5_BU				1.32	418.50	367.50	369.67		369.81	0.002981	1.99	308.13	383.88	0.55	55.21
Reach 1	20650	0p5-CC-LC_BU				1.59	586.00	367.50	369.94		370.09	0.002797	2.18	418.60	484.79	0.55	51.62
Reach 1	20600	5_BU				1.12	310.30	367.38	369.38		369.47	0.002352	1.53	250.84	285.89	0.46	67.71
Reach 1	20600	1_BU				1.25	389.90	367.38	369.53		369.64	0.002396	1.64	296.95	328.47	0.47	66.20

HEC-RAS Plan: KR_Jam_3250 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	20600	0p5_BU				1.29	418.50	367.38	369.58		369.70	0.002415	1.69	313.35	348.73	0.47	65.76
Reach 1	20600	0p5-CC-LC_BU				1.51	586.00	367.38	369.85		369.98	0.002425	1.86	420.00	504.18	0.48	62.79
Reach 1	20550	5_BU				1.14	310.30	367.25	369.20		369.34	0.003036	1.81	226.63	325.75	0.54	77.10
Reach 1	20550	1_BU				1.28	389.90	367.25	369.35		369.51	0.003049	1.97	276.23	374.52	0.55	75.12
Reach 1	20550	0p5_BU				1.33	418.50	367.25	369.40		369.56	0.003040	2.01	294.45	391.52	0.56	74.34
Reach 1	20550	0p5-CC-LC_BU				1.59	586.00	367.25	369.66		369.85	0.002903	2.22	418.04	590.28	0.56	70.06
Reach 1	20400	5_BU				0.94	310.30	366.84	368.57		368.76	0.005556	2.16	170.25	229.54	0.71	63.53
Reach 1	20400	1_BU				1.06	389.90	366.84	368.69		368.92	0.005728	2.37	201.33	261.33	0.74	63.13
Reach 1	20400	0p5_BU				1.09	418.50	366.84	368.73		368.97	0.005845	2.45	211.49	271.49	0.75	62.94
Reach 1	20400	0p5-CC-LC_BU				1.30	586.00	366.84	368.95	368.72	369.25	0.006339	2.86	284.26	409.66	0.80	63.17
Reach 1	20221	5_BU				0.91	310.30	365.65	368.04		368.09	0.001942	1.10	336.42	488.26	0.37	56.84
Reach 1	20221	1_BU				1.03	389.90	365.65	368.18		368.24	0.001936	1.18	410.32	586.86	0.37	56.33
Reach 1	20221	0p5_BU				1.07	418.50	365.65	368.23		368.29	0.001896	1.20	439.59	618.86	0.37	55.74
Reach 1	20221	0p5-CC-LC_BU				1.23	586.00	365.65	368.45		368.51	0.002045	1.33	585.41	787.15	0.38	53.24
Reach 1	19763	5_BU				0.88	310.30	364.71	366.75		366.84	0.004562	1.41	236.51	330.42	0.48	91.75
Reach 1	19763	1_BU				0.92	389.90	364.71	366.97		367.05	0.004076	1.31	327.58	505.95	0.44	87.18
Reach 1	19763	0p5_BU				0.91	418.50	364.71	367.05		367.12	0.004019	1.26	372.38	590.30	0.42	85.23
Reach 1	19763	0p5-CC-LC_BU				1.02	586.00	364.71	367.38		367.43	0.003116	1.11	600.04	814.54	0.35	75.78
Reach 1	19335	5_BU				1.35	310.30	363.23	365.56	364.87	365.66	0.001963	1.49	237.40	275.09	0.41	94.40
Reach 1	19335	1_BU				1.44	389.90	363.23	365.72	365.07	365.85	0.002265	1.62	289.65	352.69	0.43	92.01
Reach 1	19335	0p5_BU				1.48	418.50	363.23	365.78	365.11	365.91	0.002361	1.66	308.71	384.43	0.44	91.44
Reach 1	19335	0p5-CC-LC_BU				1.43	586.00	363.23	366.11	365.35	366.23	0.003271	1.64	487.32	709.56	0.44	80.73
Reach 1	19009	5_BU				0.64	310.30	362.65	364.93	364.42	364.99	0.002114	1.07	296.34	498.95	0.43	99.54
Reach 1	19009	1_BU				0.68	389.90	362.65	365.06	364.53	365.12	0.002120	1.10	366.57	606.34	0.43	99.06
Reach 1	19009	0p5_BU				0.69	418.50	362.65	365.09	364.57	365.16	0.002157	1.11	389.60	639.56	0.43	98.89
Reach 1	19009	0p5-CC-LC_BU				0.79	586.00	362.65	365.28	364.80	365.35	0.002247	1.19	523.19	793.28	0.43	97.63
Reach 1	18575	5_BU				0.63	310.30	361.28	363.68	363.15	363.73	0.004237	1.00	318.76	567.80	0.40	96.79
Reach 1	18575	1_BU				0.68	389.90	361.28	363.82	363.27	363.87	0.004058	0.98	412.11	715.80	0.38	95.68
Reach 1	18575	0p5_BU				0.70	418.50	361.28	363.87	363.31	363.92	0.003946	0.99	443.08	748.03	0.38	95.26
Reach 1	18575	0p5-CC-LC_BU				0.83	586.00	361.28	364.06	363.53	364.11	0.003706	1.05	601.50	931.18	0.37	93.44
Reach 1	18123	5_BU				1.07	310.30	360.36	362.21	361.82	362.32	0.002875	1.69	238.94	334.97	0.52	66.31
Reach 1	18123	1_BU				1.14	389.90	360.36	362.34	361.97	362.46	0.003046	1.81	287.24	396.99	0.54	63.78
Reach 1	18123	0p5_BU				1.13	418.50	360.36	362.39	362.00	362.51	0.003118	1.83	307.15	428.45	0.55	62.49
Reach 1	18123	0p5-CC-LC_BU				1.20	586.00	360.36	362.63	362.22	362.76	0.003193	1.92	442.24	660.85	0.56	58.26
Reach 1	18000	5_BU				0.99	310.30	359.91	361.94	361.48	362.01	0.002860	1.49	296.38	463.08	0.48	49.86
Reach 1	18000	1_BU				1.12	389.90	359.91	362.09	361.68	362.16	0.002638	1.55	367.14	498.75	0.47	47.49
Reach 1	18000	0p5_BU				1.15	418.50	359.91	362.14	361.71	362.21	0.002596	1.57	392.10	526.92	0.47	46.67
Reach 1	18000	0p5-CC-LC_BU				1.10	586.00	359.91	362.40	361.85	362.47	0.002556	1.52	544.36	669.25	0.46	40.46
Reach 1	17900	5_BU				0.95	310.30	359.66	361.67	361.24	361.77	0.003020	1.58	242.42	360.65	0.52	53.91
Reach 1	17900	1_BU				1.08	389.90	359.66	361.84	361.35	361.94	0.002870	1.67	305.84	417.39	0.51	53.27
Reach 1	17900	0p5_BU				1.12	418.50	359.66	361.89	361.43	361.99	0.002853	1.70	327.50	443.60	0.51	53.00
Reach 1	17900	0p5-CC-LC_BU				1.24	586.00	359.66	362.13	361.64	362.25	0.002933	1.83	452.37	582.85	0.53	50.21
Reach 1	17850	5_BU				1.00	310.30	359.56	361.56	361.04	361.65	0.002775	1.59	258.96	344.65	0.51	59.90
Reach 1	17850	1_BU				1.15	389.90	359.56	361.71	361.20	361.82	0.002745	1.73	317.12	402.50	0.52	60.30
Reach 1	17850	0p5_BU				1.19	418.50	359.56	361.76	361.29	361.87	0.002723	1.77	337.42	423.61	0.52	59.92
Reach 1	17850	0p5-CC-LC_BU				1.39	586.00	359.56	361.99	361.50	362.13	0.002816	2.02	448.18	561.09	0.54	57.93
Reach 1	17800	5_BU				1.13	310.30	359.59	361.43	360.93	361.52	0.002534	1.65	276.88	396.20	0.50	58.23
Reach 1	17800	1_BU				1.15	389.90	359.59	361.60	361.11	361.69	0.002519	1.66	356.33	528.23	0.50	54.08
Reach 1	17800	0p5_BU				1.17	418.50	359.59	361.65	361.15	361.74	0.002531	1.69	384.12	556.48	0.50	53.46
Reach 1	17800	0p5-CC-LC_BU				1.38	586.00	359.59	361.89	361.41	361.99	0.002390	1.83	529.28	665.52	0.50	50.10
Reach 1	17750	5_BU				1.16	310.30	359.63	361.22	360.84	361.36	0.003583	1.96	222.48	326.95	0.58	56.67
Reach 1	17750	1_BU				1.27	389.90	359.63	361.38	361.01	361.52	0.003565	2.07	281.34	437.95	0.58	54.20
Reach 1	17750	0p5_BU				1.31	418.50	359.63	361.43	361.06	361.58	0.003552	2.09	304.56	470.02	0.58	53.26
Reach 1	17750	0p5-CC-LC_BU				1.51	586.00	359.63	361.68	361.30	361.83	0.003461	2.25	435.21	607.39	0.58	48.71
Reach 1	17700	5_BU				1.16	310.30	359.33	361.01	360.56	361.13	0.002672	1.73	232.84	346.60	0.51	60.72
Reach 1	17700	1_BU				1.29	389.90	359.33	361.17	360.69	361.29	0.002695	1.86	293.22	448.97	0.52	59.04
Reach 1	17700	0p5_BU				1.34	418.50	359.33	361.22	360.73	361.34	0.002673	1.90	316.70	487.24	0.52	58.16
Reach 1	17700	0p5-CC-LC_BU				1.58	586.00	359.33	361.46	360.96	361.60	0.002646	2.10	448.63	625.66	0.54	54.33
Reach 1	17650	5_BU				1.00	310.30	359.01	360.74	360.23	360.81	0.002061	1.39	277.45	397.42	0.44	55.45
Reach 1	17650	1_BU				1.15	389.90	359.01	360.89	360.35	360.97	0.001979	1.48	347.26	497.90	0.44	54.45
Reach 1	17650	0p5_BU				1.20	418.50	359.01	360.94	360.40	361.02	0.001964	1.51	373.11	529.22	0.44	54.10
Reach 1	17650	0p5-CC-LC_BU				1.41	586.00	359.01	361.17	360.60	361.26	0.002015	1.69	506.96	647.48	0.46	51.56
Reach 1	17600	5_BU				0.90	310.30	358.88	360.60	360.06	360.68	0.002311	1.35	252.03	368.78	0.46	40.29
Reach 1	17600	1_BU				0.97	389.90	358.88	360.76	360.20	360.84	0.002348	1.44	324.30	507.47	0.47	40.71
Reach 1	17600	0p5_BU				1.00	418.50	358.88	360.82	360.24	360.89	0.002333	1.45	352.39	547.99	0.47	40.51
Reach 1	17600	0p5-CC-LC_BU				1.22	586.00	358.88	361.04	360.50	361.13	0.002394	1.68	489.68	672.99	0.49	40.96
Reach 1	17574	5_BU				0.81	310.30	358.84	360.54	360.01	360.61	0.002531	1.31	263.32	416.15	0.47	37.02
Reach 1	17574	1_BU				0.90	389.90	358.84	360.70	360.16	360.77	0.002419	1.38	342.01	516.65	0.46	37.61
Reach 1	17574	0p5_BU				0.93	418.50	358.84	360.76	360.21	360.83	0.002404	1.40	370.27	551.83	0.47	37.87
Reach 1	17574	0p5-CC-LC_BU				1.12	586.00	358.84	360.98	360.47	361.06	0.002421	1.60	502.67	635.09	0.48	38.40
Reach 1	17500	5_BU				0.61	310.30	358.91	360.39	359.88	360.44	0.001799	0.93	310.55	507.82	0.38	26.18
Reach 1	17500	1_BU				0.75	389.90	358.91	360.58	360.01	360.62	0.001497	0.98	422.96	672.17	0.36	29.10
Reach 1	17500	0p5_BU				0.80	418.50	358.91	360.63	360.05	360.68	0.001550	1.04	458.49	710.02	0.37	30.65
Reach 1	17500	0p5-CC-LC_BU				1.03	586.00	358.91	360.87	360.28	360.91	0.001413	1.16	645.66	870.45	0.37	31.75
Reach 1	17450	5_BU				0.79	310.30	359.04	360.34	359.76	360.40	0.001853	1.11	310.59	532.63	0.40	23.84
Reach 1	17450	1_BU				0.97	389.90	359.04	360.53	359.87	360.58	0.001538	1.16	428.40	668.01	0.38	24.81
Reach 1	17450	0p5_BU				1.02	418.50	359.04	360.58	359.91	360.63	0.001499	1.18	462.84	705.97	0.37	24.77
Reach 1	17450	0p5-CC-LC_BU				1.25	586.00	359.04	360.82	360.18	360.87	0.001376	1.30	650.73	862.50	0.37	23.97
Reach 1	17350	5_BU				0.83	310.30	358.05	360.04	359.63	360.21	0.003855	1.51	182.52	224.25	0.53	36.48
Reach 1	17350	1_BU				0.79	389.90	358.05	360.27	359.83	360.42	0.003758	1.47	250.01	405.70	0.53	36.92
Reach 1	17350	0p5_BU				0.80	418.50	358.05	360.34	359.90	360.48	0.003538	1.44	284.05	490.19	0.52	37.23
Reach 1	17350	0p5-CC-LC_BU				0.96	586.00	358.05	360.65	360.32	360.74	0.002816	1.46	487.11	805.07	0.48	38.71
Reach 1	17200	5_BU				0.90	310.30	357.76	359.56	359.23	359.81	0.006161	2.00	148.21	156.56	0.67	45.45
Reach 1	17200	1_BU				1.08	389.90	357.76	359.81	359.38	360.05	0.005085	2.04	191.80	197.05	0.63	47.81
Reach 1	17200	0p5_BU				1.15	418.50	357.76	359.88	359.48	360.13	0.004868	2.07	207.68	236.80	0.62	48.42
Reach 1	17200	0p5-CC-LC_BU				1.53	586.00	357.76	360.27	359.87	360.46	0.003839	2.20	356.12	541.25	0.57	49.03
Reach 1	17050	5_BU				2.08	310.30	356.29	359.31	358.29	359.46	0.001286	1.73	195.75	168.81	0.38	98.42
Reach 1	17050	1_BU				2.28	389.90	356.29	359.52	358.49	359.70	0.001441	1.93	244.64	284.64	0.41	96.30
Reach 1	17050	0p5_BU				2.34	418.50	356.29	359.59	358.56	359.78	0.001482	1.99	264.96	326.43	0.42	95.22
Reach 1	17050	0p5-CC-LC_BU				2.67	586.00	356.29	359.92	358.91	360.15	0.001595	2.25	408.12	557.30	0.44	87.84
Reach 1	16812	5_BU				1.29	310.30	354.74	358.79	358.37	359.00	0.003176	2.03	164.67	172.46	0.57	97.13
Reach 1	16812	1_BU				1.44	389.90	354.74	358.98	358.54	359.22	0.003193	2.21	199.14	203.94	0.59	96.17
Reach 1	16812	0p5_BU				1.50	418.50	354.74	359.04	358.59	359.29	0.003192	2.26	211.79	219.23	0.59	95.61
Reach 1	16812	0p5-CC-LC_BU				1.80	586.00	354.74	359.33	358.94	359.64	0.003263	2.55	288.64	290.27	0.61	92.15
Reach 1	16285	5_BU				1.29	310.30	354.72	357.31	356.83	357.47	0.002544	1.79	186.03	178.06	0.50	96.89
Reach 1	16285	1_BU				1.47	389.90	354.72	357.49	357.00	357.68	0.002533	1.95	219.80	195.26	0.51	95.47
Reach 1	16285	0p5_BU				1.53	418.50	354.72	357.55	357.05	357.75	0.002503	1.99	233.03	213.33	0.51	95.03
Reach 1	16285	0p5-CC-LC_BU				1.89	586.00	354.72	357.91	357.31	358.13	0.002260	2.18	330.56	349.48	0.51	91.31

HEC-RAS Plan: KR_Jam_3250 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan (m)	Ice Thick Chan (m)	Ice Top Chan (m)	Hydr Depth C (m)	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl	Q Perc Chan
Reach 1	15937	5_BU				1.15	310.30	353.96	356.55	355.99	356.66	0.001993	1.48	213.08	196.51	0.44	99.64
Reach 1	15937	1_BU				1.32	389.90	353.96	356.79	356.15	356.91	0.001754	1.52	262.73	218.22	0.42	99.27
Reach 1	15937	0p5_BU				1.37	418.50	353.96	356.88	356.19	356.99	0.001694	1.53	282.03	231.75	0.42	99.11
Reach 1	15937	0p5-CC-LC_BU				1.53	586.00	353.96	357.31	356.41	357.43	0.001506	1.55	401.68	322.50	0.40	97.68
Reach 1	15657	5_BU				1.80	310.30	352.57	355.89	355.16	356.09	0.002009	2.00	156.62	94.77	0.48	99.89
Reach 1	15657	1_BU				1.98	389.90	352.57	356.08	355.35	356.34	0.002275	2.26	176.12	114.07	0.51	99.71
Reach 1	15657	0p5_BU				2.05	418.50	352.57	356.15	355.42	356.43	0.002331	2.34	184.40	123.76	0.52	99.58
Reach 1	15657	0p5-CC-LC_BU				2.33	586.00	352.57	356.43	355.77	356.84	0.002921	2.86	226.94	196.65	0.60	98.51
Reach 1	15073	5_BU				1.03	310.30	351.49	354.04	353.78	354.29	0.005298	2.22	139.94	136.15	0.70	100.00
Reach 1	15073	1_BU				1.17	389.90	351.49	354.31	353.94	354.55	0.004314	2.18	178.93	153.78	0.64	99.97
Reach 1	15073	0p5_BU				1.18	418.50	351.49	354.41	353.99	354.64	0.004107	2.15	195.11	165.66	0.63	99.95
Reach 1	15073	0p5-CC-LC_BU				1.50	586.00	351.49	354.93	354.28	355.14	0.002695	2.04	288.09	193.33	0.53	99.86
Reach 1	14797	5_BU				1.93	310.30	350.08	353.33	352.47	353.51	0.001652	1.88	164.99	85.46	0.43	100.00
Reach 1	14797	1_BU				2.20	389.90	350.08	353.63	352.66	353.85	0.001641	2.04	190.74	86.57	0.44	100.00
Reach 1	14797	0p5_BU				2.29	418.50	350.08	353.73	352.73	353.96	0.001638	2.10	199.49	86.94	0.44	100.00
Reach 1	14797	0p5-CC-LC_BU				2.79	586.00	350.08	354.27	353.09	354.56	0.001665	2.38	246.59	88.73	0.45	100.00
Reach 1	14088	5_BU				1.84	320.00	349.51	352.07	351.30	352.26	0.001887	1.96	163.20	156.19	0.46	99.97
Reach 1	14088	1_BU				2.02	403.00	349.51	352.25	351.51	352.51	0.002188	2.25	179.49	159.65	0.51	99.92
Reach 1	14088	0p5_BU				2.08	433.00	349.51	352.31	351.57	352.59	0.002293	2.35	184.87	161.17	0.52	99.90
Reach 1	14088	0p5-CC-LC_BU				2.38	606.20	349.51	352.61	351.92	353.03	0.002826	2.86	213.11	193.90	0.59	99.75
Reach 1	14004	5_BU				1.34	320.00	349.38	351.76	351.47	352.00	0.003720	2.24	154.58	406.98	0.62	92.14
Reach 1	14004	1_BU				1.49	403.00	349.38	351.91	351.64	352.20	0.003913	2.47	177.25	423.28	0.64	89.75
Reach 1	14004	0p5_BU				1.55	433.00	349.38	351.96	351.70	352.27	0.003966	2.54	185.01	430.68	0.65	89.02
Reach 1	14004	0p5-CC-LC_BU				1.83	606.20	349.38	352.25	351.96	352.64	0.004070	2.88	228.44	498.77	0.68	85.56
Reach 1	13755	5_BU				1.05	320.00	347.42	350.84	350.38	350.98	0.003002	1.70	188.76	474.85	0.53	64.78
Reach 1	13755	1_BU				1.24	403.00	347.42	351.03	350.54	351.19	0.002746	1.81	226.33	538.97	0.52	64.86
Reach 1	13755	0p5_BU				1.30	433.00	347.42	351.09	350.60	351.26	0.002685	1.85	239.27	563.02	0.52	64.75
Reach 1	13755	0p5-CC-LC_BU				1.55	606.20	347.42	351.35	350.85	351.56	0.002842	2.14	299.78	633.83	0.55	64.09
Reach 1	13404	5_BU				1.57	320.00	346.33	349.21	349.07	349.66	0.005546	3.02	115.39	194.73	0.77	94.39
Reach 1	13404	1_BU				1.74	403.00	346.33	349.40	349.33	349.91	0.005810	3.30	137.39	221.46	0.80	91.30
Reach 1	13404	0p5_BU				1.79	433.00	346.33	349.45	349.38	349.99	0.005889	3.39	145.42	228.79	0.81	90.21
Reach 1	13404	0p5-CC-LC_BU				2.16	606.20	346.33	349.83	349.83	350.36	0.004970	3.53	215.55	338.32	0.77	81.10
Reach 1	13209	5_BU				1.59	320.00	345.37	348.73	348.16	348.91	0.002341	1.98	180.57	298.16	0.50	85.41
Reach 1	13209	1_BU				1.81	403.00	345.37	348.95	348.37	349.15	0.002256	2.11	215.61	311.89	0.50	82.40
Reach 1	13209	0p5_BU				1.88	433.00	345.37	349.01	348.43	349.22	0.002251	2.16	226.31	313.19	0.50	81.27
Reach 1	13209	0p5-CC-LC_BU				2.20	606.20	345.37	349.34	348.74	349.60	0.002308	2.43	279.56	329.02	0.52	76.65
Reach 1	13100	5_BU				1.53	320.00	345.58	348.43	347.89	348.63	0.002530	2.01	167.58	550.93	0.52	98.07
Reach 1	13100	1_BU				1.77	403.00	345.58	348.67	348.07	348.89	0.002289	2.11	209.49	615.83	0.51	94.73
Reach 1	13100	0p5_BU				1.83	433.00	345.58	348.74	348.14	348.96	0.002283	2.16	221.36	629.43	0.51	93.59
Reach 1	13100	0p5-CC-LC_BU				2.15	606.20	345.58	349.06	348.54	349.33	0.002344	2.44	279.88	723.48	0.53	88.46
Reach 1	13000	5_BU				1.26	320.00	345.10	347.52	347.52	348.15	0.009954	3.51	91.13	184.47	1.00	100.00
Reach 1	13000	1_BU				1.10	403.00	345.10	347.92	347.92	348.45	0.009925	3.20	126.89	334.53	0.98	99.70
Reach 1	13000	0p5_BU				1.13	433.00	345.10	347.98	347.98	348.52	0.009856	3.26	134.58	348.55	0.98	99.52
Reach 1	13000	0p5-CC-LC_BU				1.39	606.20	345.10	348.30	348.30	348.91	0.008577	3.49	179.40	435.98	0.94	97.90
Reach 1	12950	5_BU				1.56	320.00	344.85	347.63	346.40	347.70	0.000835	1.17	272.75	503.53	0.30	100.00
Reach 1	12950	1_BU				1.66	403.00	344.85	347.80	346.56	347.89	0.000973	1.32	305.77	538.18	0.33	99.98
Reach 1	12950	0p5_BU				1.71	433.00	344.85	347.86	346.62	347.96	0.001003	1.37	317.47	549.79	0.33	99.94
Reach 1	12950	0p5-CC-LC_BU				1.96	606.20	344.85	348.13	346.89	348.27	0.001205	1.64	378.37	663.55	0.37	99.25
Reach 1	12887	5_BU				1.05	320.00	344.53	347.45	346.95	347.60	0.003024	1.71	188.96	348.90	0.53	99.38
Reach 1	12887	1_BU				1.12	403.00	344.53	347.61	347.12	347.78	0.003235	1.85	220.56	373.70	0.56	98.99
Reach 1	12887	0p5_BU				1.12	433.00	344.53	347.67	347.17	347.85	0.003372	1.88	232.13	386.49	0.57	98.84
Reach 1	12887	0p5-CC-LC_BU				1.30	606.20	344.53	347.91	347.47	348.14	0.003542	2.14	290.23	441.36	0.60	98.40
Reach 1	12850	5_BU				0.76	320.00	344.40	347.00	347.00	347.38	0.011768	2.72	117.56	295.82	1.00	100.00
Reach 1	12850	1_BU				0.80	403.00	344.40	347.16	347.16	347.56	0.011472	2.79	144.67	346.12	0.99	99.99
Reach 1	12850	0p5_BU				0.82	433.00	344.40	347.21	347.21	347.62	0.011356	2.81	154.13	358.77	0.99	99.99
Reach 1	12850	0p5-CC-LC_BU				1.09	606.20	344.40	347.72	347.45	347.98	0.005000	2.27	269.33	498.23	0.69	99.76
Reach 1	12800	5_BU				1.13	320.00	343.70	346.67	346.29	346.89	0.003993	2.07	154.86	251.95	0.62	99.97
Reach 1	12800	1_BU				1.28	403.00	343.70	347.03	346.45	347.20	0.002820	1.89	224.02	434.02	0.53	97.70
Reach 1	12800	0p5_BU				1.35	433.00	343.70	347.15	346.51	347.31	0.002411	1.81	257.43	471.65	0.50	96.01
Reach 1	12800	0p5-CC-LC_BU				1.75	606.20	343.70	347.71	346.89	347.83	0.001281	1.57	438.76	681.63	0.38	86.22
Reach 1	12735	5_BU				2.19	320.00	340.98	346.75	344.02	346.79	0.000263	0.82	402.63	365.39	0.18	98.81
Reach 1	12735	1_BU				2.47	403.00	340.98	347.09	344.27	347.12	0.000252	0.87	499.59	441.45	0.18	96.04
Reach 1	12735	0p5_BU				2.58	433.00	340.98	347.20	344.35	347.24	0.000243	0.89	536.95	473.84	0.18	94.89
Reach 1	12735	0p5-CC-LC_BU				3.12	606.20	340.98	347.73	344.85	347.78	0.000223	0.96	722.68	586.00	0.17	88.70
Reach 1	12700	5_BU				2.13	320.00	342.78	346.71	345.06	346.77	0.000501	1.12	324.08	394.09	0.24	90.32
Reach 1	12700	1_BU				2.41	403.00	342.78	347.05	345.27	347.11	0.000448	1.15	413.64	483.39	0.24	85.30
Reach 1	12700	0p5_BU				2.51	433.00	342.78	347.17	345.35	347.23	0.000421	1.14	448.20	502.05	0.23	83.11
Reach 1	12700	0p5-CC-LC_BU				3.04	606.20	342.78	347.70	345.79	347.76	0.000363	1.21	622.72	670.36	0.22	75.88
Reach 1	12650	5_BU				2.32	320.00	342.92	346.64	345.22	346.74	0.000753	1.45	252.50	325.79	0.30	87.31
Reach 1	12650	1_BU				2.63	403.00	342.92	346.97	345.47	347.07	0.000695	1.51	309.47	403.37	0.30	82.88
Reach 1	12650	0p5_BU				2.75	433.00	342.92	347.09	345.57	347.19	0.000691	1.55	332.99	441.04	0.30	82.55
Reach 1	12650	0p5-CC-LC_BU				3.28	606.20	342.92	347.62	346.15	347.73	0.000608	1.64	479.16	631.62	0.29	74.44
Reach 1	12600	5_BU				2.36	320.00	342.87	346.55	345.54	346.68	0.001093	1.76	208.72	234.29	0.37	73.79
Reach 1	12600	1_BU				2.61	403.00	342.87	346.88	345.81	347.02	0.001060	1.85	251.57	323.60	0.37	70.31
Reach 1	12600	0p5_BU				2.73	433.00	342.87	346.99	345.88	347.14	0.001026	1.87	269.15	380.40	0.36	69.28
Reach 1	12600	0p5-CC-LC_BU				3.26	606.20	342.87	347.53	346.23	347.68	0.000949	2.03	405.92	672.93	0.36	64.17
Reach 1	12550	5_BU				2.22	320.00	343.00	346.54	345.29	346.63	0.000725	1.38	273.46	527.51	0.30	81.65
Reach 1	12550	1_BU				2.56	403.00	343.00	346.88	345.65	346.96	0.000605	1.39	369.71	661.56	0.28	75.28
Reach 1	12550	0p5_BU				2.69	433.00	343.00	347.01	345.75	347.08	0.000549	1.37	412.02	715.94	0.27	72.24
Reach 1	12550	0p5-CC-LC_BU				3.24	606.20	343.00	347.56	346.12	347.63	0.000408	1.34	637.26	878.19	0.24	60.83
Reach 1	12500	5_BU				1.42	320.00	343.14	346.46	345.73	346.57	0.001454	1.46	229.44	387.16	0.39	98.48
Reach 1	12500	1_BU				1.75	403.00	343.14	346.81	345.90	346.92	0.001097	1.45	296.87	431.74	0.35	97.33
Reach 1	12500	0p5_BU				1.87	433.00	343.14	346.93	345.95	347.04	0.001007	1.46	326.27	500.79	0.34	97.19
Reach 1	12500	0p5-CC-LC_BU				2.43	606.20	343.14	347.49	346.20	347.59	0.000702	1.45	595.49	952.06	0.30	89.77
Reach 1	12436	5_BU				1.61	320.00	343.08	345.50	345.50	346.31	0.009314	3.97	81.44	159.70	1.00	99.85
Reach 1	12436	1_BU				1.92	403.00	343.08	345.82	345.82	346.69	0.008060	4.16	100.94	189.19	0.96	99.10
Reach 1	12436	0p5_BU				2.01	433.00	343.08	345.90	345.90	346.82	0.007976	4.26	106.77	192.24	0.96	98.80
Reach 1	12436	0p5-CC-LC_BU				2.73	606.20	343.08	346.62	346.62	347.43	0.004947	4.12	180.63	349.80	0.79	92.64
Reach 1	12300	5_BU				1.78	320.00	342.78	345.33	344.60	345.53	0.002035	2.00	179.61	385.48	0.48	96.16
Reach 1	12300	1_BU				1.99	403.00	342.78	345.56	344.84	345.79	0.002081	2.18	216.40	427.85	0.49	93.92
Reach 1	12300	0p5_BU				2.07	433.00	342.78	345.63	344.92	345.87	0.002104	2.24	228.88	446.48	0.50	93.18
Reach 1	12300	0p5-CC-LC_BU				2.41	606.20	342.78	345.97	345.33	346.28	0.002280	2.58	297.98	508.88	0.53	89.32
Reach 1	11788	5_BU				1.50	320.00	342.07	344.28	343.70	344.43	0.002150	1.82	189.03	494.22	0.48	86.94
Reach 1	11788	1_BU				1.62	403.00	342.07	344.49	343.86	344.66	0.002202	1.95	229.44	547.83	0.49	84.21
Reach 1	11788	0p5_BU				1.67	433.00	342.07	344.56	343.91	344.74	0.002201	1.99	244.34	563.25	0.49	83.35
Reach 1	11788	0p5-CC-LC_BU				2.00	606.20	342.07	344.92	344.21	345.12	0.002044	2.16	352.37	733.32	0.49	79.07
Reach 1	11514	5_BU				1.15	320.00	340.85	343.20	342.96	343.52	0.005755	2.52	128.49	248.29	0.75	99.68

HEC-RAS Plan: KR_Jam_3250 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	11514	1_BU				1.36	403.00	340.85	343.42	343.16	343.78	0.005137	2.66	154.37	314.63	0.73	99.50
Reach 1	11514	0p5_BU				1.45	433.00	340.85	343.51	343.22	343.87	0.004827	2.68	165.32	351.53	0.71	99.39
Reach 1	11514	0p5-CC-LC_BU				1.78	606.20	340.85	343.85	343.51	344.31	0.004640	3.01	212.92	435.08	0.72	98.71
Reach 1	11034	5_BU				1.76	320.00	338.63	342.19		342.31	0.001320	1.59	209.29	299.53	0.38	94.76
Reach 1	11034	1_BU				1.93	403.00	338.63	342.47		342.61	0.001325	1.69	251.43	378.09	0.39	93.19
Reach 1	11034	0p5_BU				1.99	433.00	338.63	342.56		342.71	0.001353	1.74	268.51	405.73	0.40	93.68
Reach 1	11034	0p5-CC-LC_BU				2.26	606.20	338.63	342.98		343.15	0.001352	1.90	360.37	514.64	0.40	89.04
Reach 1	10544	5_BU				1.58	320.00	337.82	341.05		341.32	0.003292	2.34	141.48	281.85	0.60	99.15
Reach 1	10544	1_BU				1.77	403.00	337.82	341.26		341.59	0.003408	2.58	171.88	349.03	0.62	98.39
Reach 1	10544	0p5_BU				1.84	433.00	337.82	341.34		341.68	0.003403	2.64	184.85	372.13	0.62	97.80
Reach 1	10544	0p5-CC-LC_BU				2.20	606.20	337.82	341.70	341.25	342.12	0.003345	2.94	270.42	503.78	0.63	93.51
Reach 1	9771	5_BU				1.38	320.00	336.80	339.07		339.23	0.002202	1.76	190.19	512.78	0.48	97.50
Reach 1	9771	1_BU				1.56	403.00	336.80	339.27		339.45	0.002215	1.91	223.97	625.40	0.49	96.19
Reach 1	9771	0p5_BU				1.61	433.00	336.80	339.32		339.52	0.002260	1.98	234.27	649.75	0.50	95.76
Reach 1	9771	0p5-CC-LC_BU				1.89	606.20	336.80	339.60		339.86	0.002480	2.30	290.39	744.75	0.53	93.44
Reach 1	8903	5_BU				1.71	320.00	333.65	336.76		337.03	0.003280	2.46	147.63	320.01	0.60	85.64
Reach 1	8903	1_BU				1.91	403.00	333.65	336.99		337.30	0.003229	2.62	183.22	428.01	0.61	82.66
Reach 1	8903	0p5_BU				1.98	433.00	333.65	337.07		337.38	0.003156	2.65	198.42	458.40	0.60	81.07
Reach 1	8903	0p5-CC-LC_BU				2.29	606.20	333.65	337.44		337.76	0.002938	2.82	279.48	537.83	0.60	73.34
Reach 1	8300	5_BU				1.69	320.00	332.67	335.39		335.55	0.001877	1.85	192.56	321.84	0.45	95.43
Reach 1	8300	1_BU				1.90	403.00	332.67	335.61		335.81	0.001918	2.02	232.50	391.54	0.47	94.12
Reach 1	8300	0p5_BU				1.97	433.00	332.67	335.70		335.90	0.001938	2.08	248.41	431.69	0.47	94.15
Reach 1	8300	0p5-CC-LC_BU				2.30	606.20	332.67	336.05		336.31	0.002043	2.37	349.18	618.60	0.50	90.44
Reach 1	7514	5_BU				1.31	320.00	330.29	332.81		333.18	0.005462	2.74	125.00	310.20	0.77	96.79
Reach 1	7514	1_BU				1.47	403.00	330.29	333.04		333.45	0.005207	2.91	149.32	326.83	0.77	96.20
Reach 1	7514	0p5_BU				1.54	433.00	330.29	333.11		333.55	0.005133	2.97	158.13	341.76	0.76	96.01
Reach 1	7514	0p5-CC-LC_BU				1.95	606.20	330.29	333.54	333.21	334.02	0.004428	3.17	235.07	492.08	0.73	93.58
Reach 1	6800	5_BU				2.08	320.00	327.67	330.81		331.03	0.001838	2.10	152.61	187.16	0.46	100.00
Reach 1	6800	1_BU				2.43	403.00	327.67	331.17		331.43	0.001717	2.25	180.39	254.10	0.46	99.81
Reach 1	6800	0p5_BU				2.56	433.00	327.67	331.30		331.56	0.001661	2.29	190.89	265.18	0.46	99.67
Reach 1	6800	0p5-CC-LC_BU				3.26	606.20	327.67	331.99		332.30	0.001425	2.49	250.20	349.90	0.44	98.37
Reach 1	6650	5_BU				1.55	320.00	327.66	330.53		330.72	0.002253	1.91	169.70	319.85	0.49	99.84
Reach 1	6650	1_BU				1.78	403.00	327.66	330.98		331.14	0.001698	1.81	226.65	363.68	0.43	99.64
Reach 1	6650	0p5_BU				1.94	433.00	327.66	331.14		331.30	0.001461	1.78	248.60	374.35	0.41	99.55
Reach 1	6650	0p5-CC-LC_BU				2.73	606.20	327.66	331.93		332.09	0.000900	1.76	359.67	485.48	0.34	99.01
Reach 1	6563	5_BU				1.50	320.00	327.63	330.38		330.53	0.001937	1.73	196.33	196.77	0.45	97.59
Reach 1	6563	1_BU				1.99	403.00	327.63	330.88		331.01	0.001180	1.63	264.27	229.74	0.37	97.46
Reach 1	6563	0p5_BU				2.17	433.00	327.63	331.06		331.18	0.001022	1.61	288.97	242.67	0.35	97.41
Reach 1	6563	0p5-CC-LC_BU				2.99	606.20	327.63	331.89		332.02	0.000673	1.62	406.89	403.10	0.30	96.96
Reach 1	6400	5_BU				2.51	320.00	325.72	330.10		330.26	0.001431	1.73	184.85	141.48	0.35	100.00
Reach 1	6400	1_BU				2.98	403.00	325.72	330.64		330.81	0.001291	1.79	224.89	180.98	0.33	100.00
Reach 1	6400	0p5_BU				3.16	433.00	325.72	330.83		331.00	0.001218	1.81	239.29	218.06	0.33	100.00
Reach 1	6400	0p5-CC-LC_BU				3.96	606.20	325.72	331.67		331.87	0.001099	2.00	303.52	544.77	0.32	99.98
Reach 1	6300	5_BU				2.70	320.00	325.66	329.94		330.13	0.001105	1.94	165.28	101.40	0.38	99.96
Reach 1	6300	1_BU				3.25	403.00	325.66	330.48		330.69	0.000944	2.03	200.92	132.30	0.36	99.74
Reach 1	6300	0p5_BU				3.44	433.00	325.66	330.68		330.89	0.000896	2.05	214.48	154.38	0.35	99.60
Reach 1	6300	0p5-CC-LC_BU				4.27	606.20	325.66	331.51		331.77	0.000835	2.29	278.17	424.12	0.35	98.38
Reach 1	6200	5_BU				2.70	320.00	325.60	329.86		330.01	0.001000	1.75	182.93	156.41	0.34	100.00
Reach 1	6200	1_BU				3.27	403.00	325.60	330.42		330.59	0.000838	1.82	224.23	209.03	0.32	99.80
Reach 1	6200	0p5_BU				3.47	433.00	325.60	330.62		330.79	0.000791	1.84	242.11	242.95	0.32	99.62
Reach 1	6200	0p5-CC-LC_BU				4.32	606.20	325.60	331.47		331.67	0.000716	2.02	329.14	426.04	0.31	97.41
Reach 1	6150	5_BU				2.95	320.00	325.56	329.78		329.96	0.000953	1.90	168.67	109.25	0.35	100.00
Reach 1	6150	1_BU				3.51	403.00	325.56	330.34		330.54	0.000841	2.00	202.10	121.45	0.34	99.85
Reach 1	6150	0p5_BU				3.71	433.00	325.56	330.54		330.75	0.000807	2.04	214.30	132.44	0.34	99.75
Reach 1	6150	0p5-CC-LC_BU				4.53	606.20	325.56	331.35		331.63	0.000806	2.32	265.69	373.17	0.35	99.16
Reach 1	6100	5_BU				2.90	320.00	325.53	329.72		329.91	0.001012	1.93	165.58	101.73	0.36	100.00
Reach 1	6100	1_BU				3.48	403.00	325.53	330.29		330.50	0.000881	2.03	199.08	166.65	0.35	99.91
Reach 1	6100	0p5_BU				3.68	433.00	325.53	330.49		330.71	0.000842	2.06	211.11	181.70	0.34	99.84
Reach 1	6100	0p5-CC-LC_BU				4.49	606.20	325.53	331.31		331.59	0.000839	2.35	261.53	410.38	0.35	99.36
Reach 1	6050	5_BU				3.03	320.00	325.50	329.69		329.86	0.000859	1.84	174.94	138.63	0.34	99.92
Reach 1	6050	1_BU				3.61	403.00	325.50	330.26		330.46	0.000758	1.94	210.06	151.98	0.33	99.71
Reach 1	6050	0p5_BU				3.81	433.00	325.50	330.47		330.66	0.000728	1.97	222.67	160.76	0.32	99.62
Reach 1	6050	0p5-CC-LC_BU				4.62	606.20	325.50	331.28		331.54	0.000739	2.26	275.17	335.77	0.34	99.07
Reach 1	6000	5_BU				2.97	320.00	325.48	329.63		329.81	0.001005	1.88	170.58	131.39	0.35	99.98
Reach 1	6000	1_BU				3.54	403.00	325.48	330.22		330.41	0.000889	1.97	205.43	148.24	0.33	99.81
Reach 1	6000	0p5_BU				3.75	433.00	325.48	330.42		330.62	0.000850	2.00	218.52	162.77	0.33	99.71
Reach 1	6000	0p5-CC-LC_BU				4.56	606.20	325.48	331.24		331.50	0.000852	2.29	273.09	276.57	0.34	99.06
Reach 1	5950	5_BU				2.97	320.00	325.47	329.57		329.76	0.001032	1.94	165.53	92.53	0.36	99.99
Reach 1	5950	1_BU				3.56	403.00	325.47	330.16		330.37	0.000893	2.03	199.86	107.58	0.34	99.85
Reach 1	5950	0p5_BU				3.77	433.00	325.47	330.36		330.58	0.000853	2.06	212.32	111.33	0.34	99.72
Reach 1	5950	0p5-CC-LC_BU				4.58	606.20	325.47	331.17		331.46	0.000863	2.36	262.65	240.70	0.35	99.10
Reach 1	5900	5_BU				3.04	320.00	325.42	329.53		329.71	0.000883	1.87	171.83	116.42	0.34	99.88
Reach 1	5900	1_BU				3.64	403.00	325.42	330.13		330.32	0.000767	1.96	207.32	127.08	0.33	99.59
Reach 1	5900	0p5_BU				3.85	433.00	325.42	330.34		330.54	0.000733	1.99	220.40	136.74	0.32	99.45
Reach 1	5900	0p5-CC-LC_BU				4.66	606.20	325.42	331.15		331.41	0.000749	2.29	273.91	332.77	0.34	98.74
Reach 1	5850	5_BU				3.06	320.00	325.40	329.43		329.66	0.001090	2.09	153.96	108.85	0.38	99.90
Reach 1	5850	1_BU				3.66	403.00	325.40	330.03		330.28	0.000948	2.19	185.93	123.14	0.37	99.55
Reach 1	5850	0p5_BU				3.87	433.00	325.40	330.24		330.49	0.000906	2.22	197.38	129.16	0.36	99.39
Reach 1	5850	0p5-CC-LC_BU				4.66	606.20	325.40	331.03		331.36	0.000943	2.57	242.94	302.34	0.38	98.66
Reach 1	5800	5_BU				3.11	320.00	325.36	329.41		329.59	0.000869	1.88	170.88	161.07	0.34	99.93
Reach 1	5800	1_BU				3.71	403.00	325.36	330.02		330.22	0.000758	1.98	205.86	195.64	0.33	99.78
Reach 1	5800	0p5_BU				3.92	433.00	325.36	330.23		330.44	0.000726	2.01	218.25	205.91	0.32	99.71
Reach 1	5800	0p5-CC-LC_BU				4.72	606.20	325.36	331.03		331.30	0.000764	2.33	265.71	392.09	0.34	99.36
Reach 1	5750	5_BU				3.20	320.00	325.34	329.38		329.55	0.000774	1.81	177.68	205.57	0.32	99.76
Reach 1	5750	1_BU				3.81	403.00	325.34	330.00		330.18	0.000678	1.91	214.63	242.01	0.31	99.24
Reach 1	5750	0p5_BU				4.03	433.00	325.34	330.21		330.40	0.000649	1.94	227.80	266.59	0.31	98.99
Reach 1	5750	0p5-CC-LC_BU				4.83	606.20	325.34	331.01		331.26	0.000680	2.24	278.33	494.97	0.32	97.90
Reach 1	5724	5_BU				3.30	320.00	325.30	329.38		329.52	0.000639	1.68	191.72	180.60	0.30	99.76
Reach 1	5724	1_BU				3.92	403.00	325.30	330.00		330.16	0.000569	1.78	229.59	218.27	0.29	99.39
Reach 1	5724	0p5_BU				4.13	433.00	325.30	330.21		330.38	0.000548	1.81	242.99	294.10	0.28	99.22
Reach 1	5724	0p5-CC-LC_BU				4.93	606.20	325.30	331.01		331.23	0.000588	2.11	294.25	477.66	0.30	98.57
Reach 1	5650	5_BU				3.44	320.00	325.13	329.34		329.48	0.000572	1.64	197.20	269.78	0.28	99.64
Reach 1	5650	1_BU				4.06	403.00	325.13	329.96		330.11	0.000517	1.74	236.12	332.17	0.28	99.11
Reach 1	5650	0p5_BU				4.28	433.00	325.13	330.18		330.33	0.000500	1.77	250.08	367.24	0.27	98.90
Reach 1	5650	0p5-CC-LC_BU				5.07	606.20	325.13	330.98		331.19	0.000545	2.07	303.23	444.23	0.29	98.08
Reach 1	5550	5_BU				3.65	320.00	324.87	329.30		329.42	0.000450	1.52	213.03	215.37	0.25	99.63
Reach 1	5550	1_BU				4.28	403.00	324.87	329.93		330.06	0.000420	1.62	251.50	253.67	0.25	99.31
Reach 1	5550	0p5_BU				4.49	433.00	324.87	330.14		330.28	0.000410	1.66	265.05	268.77	0.25	99.19

HEC-RAS Plan: KR_Jam_3250 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	5550	0p5-CC-LC_BU				5.29	606.20	324.87	330.94		331.13	0.000462	1.96	316.05	314.51	0.27	98.65
Reach 1	5400	5_BU				3.88	320.00	324.48	329.30		329.36	0.000220	1.10	293.01	273.61	0.18	99.49
Reach 1	5400	1_BU				4.51	403.00	324.48	329.93		330.00	0.000209	1.19	344.21	366.95	0.18	99.04
Reach 1	5400	0p5_BU				4.73	433.00	324.48	330.15		330.22	0.000203	1.21	390.04	396.80	0.18	98.45
Reach 1	5400	0p5-CC-LC_BU				5.55	606.20	324.48	330.97		331.06	0.000200	1.34	653.31	507.94	0.18	91.29
Reach 1	5200	5_BU				4.35	320.00	323.95	329.28		329.32	0.000114	0.86	379.50	436.73	0.13	99.36
Reach 1	5200	1_BU				4.99	403.00	323.95	329.92		329.96	0.000113	0.94	441.89	545.48	0.13	98.80
Reach 1	5200	0p5_BU				5.21	433.00	323.95	330.14		330.18	0.000111	0.96	525.81	563.64	0.13	98.04
Reach 1	5200	0p5-CC-LC_BU				6.04	606.20	323.95	330.97		331.01	0.000107	1.03	1009.76	611.31	0.13	87.67
Reach 1	4950	5_BU				4.30	320.00	323.31	329.27		329.29	0.000073	0.67	648.45	648.64	0.10	89.53
Reach 1	4950	1_BU				4.94	403.00	323.31	329.91		329.93	0.000070	0.73	778.91	742.24	0.10	87.81
Reach 1	4950	0p5_BU				5.16	433.00	323.31	330.13		330.16	0.000071	0.75	894.69	761.99	0.11	88.42
Reach 1	4950	0p5-CC-LC_BU				5.99	606.20	323.31	330.96		330.99	0.000065	0.80	1585.54	916.58	0.10	77.81
Reach 1	4694	5_BU	328.88	0.40	329.28	4.47	320.00	322.84	329.25		329.26	0.000265	0.52	672.30	649.84	0.08	83.35
Reach 1	4694	1_BU	329.52	0.40	329.92	5.11	403.00	322.84	329.89		329.90	0.000254	0.56	795.39	736.21	0.08	80.93
Reach 1	4694	0p5_BU	329.74	0.40	330.14	5.33	433.00	322.84	330.11		330.12	0.000252	0.57	839.00	791.56	0.08	80.47
Reach 1	4694	0p5-CC-LC_BU	330.58	0.40	330.98	6.17	606.20	322.84	330.94		330.96	0.000212	0.58	1560.09	1223.83	0.07	67.36
Reach 1	4150	5_BU	325.67	3.47	329.14	2.60	320.00	322.29	328.85		328.94	0.001630	1.38	241.17	766.69	0.27	94.30
Reach 1	4150	1_BU	325.92	3.87	329.79	2.85	403.00	322.29	329.46		329.58	0.001810	1.54	273.47	836.66	0.29	91.99
Reach 1	4150	0p5_BU	326.00	4.01	330.01	2.94	433.00	322.29	329.67		329.80	0.001858	1.60	284.76	859.22	0.30	91.12
Reach 1	4150	0p5-CC-LC_BU	326.66	4.19	330.85	3.60	606.20	322.29	330.50		330.66	0.001784	1.79	357.95	1116.12	0.30	89.36
Reach 1	3843	5_BU	325.35	3.29	328.64	2.64	320.00	322.07	328.36		328.41	0.001697	0.93	330.89	683.82	0.18	84.45
Reach 1	3843	1_BU	325.65	3.58	329.23	2.89	403.00	322.07	328.93		328.99	0.001839	1.03	375.83	727.14	0.19	82.61
Reach 1	3843	0p5_BU	325.75	3.68	329.44	2.94	433.00	322.07	329.13		329.20	0.001888	1.05	393.59	748.16	0.20	81.68
Reach 1	3843	0p5-CC-LC_BU	326.32	3.98	330.30	3.40	606.20	322.07	329.97		330.05	0.001949	1.17	485.82	779.85	0.20	78.08
Reach 1	3700	5_BU	322.85	5.15	328.00	0.79	320.00	320.95	327.57	327.57	327.89	0.011887	1.78	164.28	729.35	0.64	75.50
Reach 1	3700	1_BU	322.97	5.57	328.54	0.90	403.00	320.95	328.08	328.08	328.44	0.011573	1.92	192.02	771.98	0.64	73.94
Reach 1	3700	0p5_BU	323.01	5.73	328.74	0.94	433.00	320.95	328.25	328.25	328.64	0.011425	1.96	201.88	786.65	0.64	73.43
Reach 1	3700	0p5-CC-LC_BU	323.21	6.32	329.53	1.13	606.20	320.95	329.00	329.00	329.47	0.011601	2.22	249.50	842.12	0.67	72.24
Reach 1	3600	5_BU	321.21	5.17	326.37	0.27	320.00	320.47	325.94	325.28	326.50	0.021336	1.15	110.69	280.06	0.71	2.84
Reach 1	3600	1_BU	321.23	5.48	326.71	0.27	403.00	320.47	326.25	325.73	326.95	0.023372	1.22	125.18	362.51	0.75	2.62
Reach 1	3600	0p5_BU	321.24	5.58	326.82	0.28	433.00	320.47	326.35	325.92	327.10	0.024022	1.25	130.20	373.15	0.76	2.58
Reach 1	3600	0p5-CC-LC_BU	321.24	6.02	327.27	0.28	606.20	320.47	326.76	326.81	327.88	0.030779	1.42	149.44	450.14	0.86	2.10
Reach 1	3500	5_BU	321.89	4.34	326.23	1.14	320.00	320.12	325.86		325.93	0.002890	1.11	290.11	347.97	0.33	27.41
Reach 1	3500	1_BU	321.89	4.78	326.67	1.14	403.00	320.12	326.27		326.35	0.002829	1.09	337.34	438.27	0.33	21.44
Reach 1	3500	0p5_BU	321.87	4.94	326.81	1.13	433.00	320.12	326.40		326.48	0.002842	1.09	352.19	470.26	0.33	19.59
Reach 1	3500	0p5-CC-LC_BU	322.00	5.51	327.51	1.24	606.20	320.12	327.05	325.48	327.15	0.002757	1.14	443.04	585.14	0.33	16.29
Reach 1	3450	5_BU	322.43	3.68	326.10	1.79	320.00	319.97	325.79		325.83	0.001083	0.89	363.01	407.53	0.21	30.56
Reach 1	3450	1_BU	322.56	3.97	326.53	1.91	403.00	319.97	326.20		326.25	0.001156	0.96	410.89	442.60	0.22	27.91
Reach 1	3450	0p5_BU	322.60	4.07	326.67	1.94	433.00	319.97	326.33		326.38	0.001186	0.98	426.32	447.53	0.22	27.11
Reach 1	3450	0p5-CC-LC_BU	322.95	4.40	327.35	2.25	606.20	319.97	326.98		327.05	0.001295	1.11	515.09	574.12	0.24	25.85
Reach 1	3400	5_BU	322.61	3.39	326.00	2.06	320.00	319.80	325.72		325.78	0.001522	1.16	309.74	332.04	0.26	47.76
Reach 1	3400	1_BU	322.78	3.65	326.43	2.22	403.00	319.80	326.12		326.19	0.001612	1.26	358.56	394.13	0.27	44.29
Reach 1	3400	0p5_BU	322.83	3.73	326.56	2.28	433.00	319.80	326.25		326.32	0.001631	1.28	374.93	442.46	0.27	43.18
Reach 1	3400	0p5-CC-LC_BU	323.22	4.01	327.23	2.66	606.20	319.80	326.89		326.98	0.001665	1.44	464.46	543.11	0.28	40.45
Reach 1	3350	5_BU	321.47	4.25	325.72	1.16	320.00	319.64	325.37		325.61	0.009953	2.10	146.99	224.09	0.62	49.14
Reach 1	3350	1_BU	321.59	4.52	326.11	1.27	403.00	319.64	325.73	325.30	326.01	0.009951	2.22	172.40	247.29	0.63	45.51
Reach 1	3350	0p5_BU	321.64	4.60	326.24	1.31	433.00	319.64	325.85	325.41	326.15	0.009901	2.26	181.33	278.39	0.63	44.67
Reach 1	3350	0p5-CC-LC_BU	322.00	4.87	326.88	1.65	606.20	319.64	326.47	325.87	326.81	0.008786	2.44	236.26	437.11	0.61	44.26
Reach 1	3300	5_BU	320.14	4.18	324.32	0.38	320.00	319.48	323.96	323.96	324.58	0.064138	1.58	96.74	137.25	0.82	6.36
Reach 1	3300	1_BU	320.16	4.49	324.66	0.40	403.00	319.48	324.28	324.28	325.00	0.060538	1.57	113.24	155.46	0.80	5.40
Reach 1	3300	0p5_BU	320.17	4.60	324.77	0.40	433.00	319.48	324.38	324.38	325.14	0.059129	1.56	118.86	163.30	0.79	5.12
Reach 1	3300	0p5-CC-LC_BU	320.22	5.15	325.37	0.43	606.20	319.48	324.94	324.94	325.89	0.053527	1.55	148.89	208.30	0.76	4.09
Reach 1	3275	5_BU	321.98	0.78	322.76	1.74	320.00	319.45	322.69	322.25	323.07	0.010531	2.73	117.42	167.55	0.66	100.00
Reach 1	3275	1_BU	322.51	0.54	323.05	2.21	403.00	319.45	323.01	322.27	323.36	0.007584	2.62	153.96	177.92	0.56	99.97
Reach 1	3275	0p5_BU	322.69	0.47	323.16	2.38	433.00	319.45	323.12	322.28	323.47	0.006796	2.60	167.05	189.16	0.54	99.95
Reach 1	3275	0p5-CC-LC_BU	323.29	0.40	323.69	2.98	606.20	319.45	323.66	322.62	324.09	0.006272	2.90	210.56	203.50	0.54	99.78
Reach 1	3250	5_BU	322.06	0.40	322.46	1.98	320.00	319.30	322.43		322.74	0.014909	2.46	130.18	150.16	0.56	99.99
Reach 1	3250	1_BU	322.36	0.40	322.76	2.26	403.00	319.30	322.72		323.09	0.015003	2.69	149.84	154.74	0.57	99.93
Reach 1	3250	0p5_BU	322.46	0.40	322.86	2.35	433.00	319.30	322.82		323.21	0.015023	2.77	156.53	156.00	0.58	99.89
Reach 1	3250	0p5-CC-LC_BU	322.97	0.40	323.37	2.85	606.20	319.30	323.33		323.84	0.015271	3.17	191.37	173.38	0.60	99.46
Reach 1	3150	5_BU	321.51	0.40	321.91	1.90	320.00	318.88	321.88		322.19	0.002830	2.44	130.98	107.07	0.57	100.00
Reach 1	3150	1_BU	321.82	0.40	322.22	2.16	403.00	318.88	322.18		322.54	0.002811	2.65	152.08	112.63	0.58	99.98
Reach 1	3150	0p5_BU	321.92	0.40	322.32	2.25	433.00	318.88	322.29		322.66	0.002803	2.72	159.47	114.47	0.58	99.95
Reach 1	3150	0p5-CC-LC_BU	322.45	0.40	322.85	2.78	606.20	318.88	322.82		323.30	0.002691	3.07	198.70	143.17	0.59	99.60
Reach 1	3037	5_BU	321.10	0.40	321.50	2.00	320.00	318.40	321.46		321.83	0.003391	2.70	120.67	80.81	0.61	99.20
Reach 1	3037	1_BU	321.36	0.40	321.76	2.27	403.00	318.40	321.73		322.18	0.003577	2.99	138.09	86.82	0.63	98.65
Reach 1	3037	0p5_BU	321.45	0.40	321.85	2.36	433.00	318.40	321.82		322.30	0.003630	3.08	144.10	90.01	0.64	98.45
Reach 1	3037	0p5-CC-LC_BU	321.93	0.40	322.33	2.84	606.20	318.40	322.29		322.92	0.003833	3.54	176.87	103.41	0.67	97.29
Reach 1	2965	5_BU				2.44	320.00	318.25	321.43	320.38	321.70	0.000798	2.27	141.01	57.82	0.46	100.00
Reach 1	2965	1_BU				2.66	403.00	318.25	321.68	320.65	322.02	0.000965	2.59	155.47	58.53	0.51	100.00
Reach 1	2965	0p5_BU				2.74	433.00	318.25	321.77	320.75	322.14	0.001019	2.70	160.40	58.76	0.52	100.00
Reach 1	2965	0p5-CC-LC_BU				3.18	606.20	318.25	322.21	321.21	322.75	0.001215	3.25	186.98	61.92	0.58	99.98
Reach 1	2946		Bridge														
Reach 1	2919	5_BU				3.35	320.00	317.23	321.47		321.60	0.000212	1.60	200.61	61.77	0.28	99.93
Reach 1	2919	1_BU				3.61	403.00	317.23	321.73		321.90	0.000263	1.87	216.55	62.76	0.31	99.86
Reach 1	2919	0p5_BU				3.70	433.00	317.23	321.81		322.01	0.000280	1.96	222.00	63.13	0.33	99.82
Reach 1	2919	0p5-CC-LC_BU				4.16	606.20	317.23	322.28		322.58	0.000368	2.43	251.87	65.06	0.38	99.56
Reach 1	2850	5_BU				2.57	320.00	318.15	321.36		321.56	0.000543	1.96	163.05	63.56	0.39	100.00
Reach 1	2850	1_BU				2.79	403.00	318.15	321.59		321.85	0.000651	2.27	177.64	64.72	0.43	99.99
Reach 1	2850	0p5_BU				2.86	433.00	318.15	321.66		321.95	0.000687	2.37	182.57	64.87	0.45	99.98
Reach 1	2850	0p5-CC-LC_BU				3.27	606.20	318.15	322.07		322.50	0.000865	2.91	209.02	67.68	0.51	99.90
Reach 1	2800	5_BU				2.23	320.00	317.92	321.34		321.53	0.000642	1.95	186.71	110.81	0.42	97.48
Reach 1	2800	1_BU				2.40	403.00	317.92	321.57		321.81	0.000725	2.20	213.00	114.44	0.45	96.61
Reach 1	2800	0p5_BU				2.47	433.00	317.92	321.65		321.91	0.000751	2.28	222.19	117.36	0.46	96.36
Reach 1	2800	0p5-CC-LC_BU				2.85	606.20	317.92	322.08		322.43	0.000843	2.68	277.17	137.53	0.51	95.16
Reach 1	2770	5_BU				2.07	320.00	317.84	321.29		321.50	0.000792	2.06	165.40	97.03	0.46	98.99
Reach 1	2770	1_BU				2.25	403.00	317.84	321.51		321.78	0.000907	2.33	187.13	99.11	0.50	98.47
Reach 1	2770	0p5_BU				2.32	433.00	317.84	321.58		321.88	0.000940	2.42	194.59	101.02	0.51	98.30
Reach 1	2770	0p5-CC-LC_BU				2.63	606.20	317.84	322.00		322.40	0.001076	2.83	238.00	117.28	0.56	97.44
Reach 1	2750	5_BU				1.91	320.00	318.03	321.25		321.48	0.000939	2.13	150.03	78.47	0.49	100.00
Reach 1	2750	1_BU				2.09	403.00	318.03	321.46		321.76	0.001073	2.42	166.68	79.72	0.53	100.00
Reach 1	2750	0p5_BU				2.15	433.00	318.03	321.53		321.85	0.001114	2.51	172.32	80.00	0.55	100.00
Reach 1	2750	0p5-CC-LC_BU				2.49	606.20	318.03	321.92		322.37	0.001287	2.98	203.85	86.28	0.60	99.99
Reach 1	2700	5_BU				1.68	320.00	318.39	321.21		321.43	0.001072	2.10	152.62	90.75	0.52	100.00
Reach 1	2700	1_BU				1.87	403.00	318.39	321.42		321.70	0.001161	2.34	171.97	92.86	0.55	100.00
Reach 1	2700	0p5_BU				1.94	433.00	318.39	321.49		321.79	0.001186	2.42	178.60	94.20	0.56	100.00

HEC-RAS Plan: KR_Jam_3250 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	2700	0p5-CC-LC_BU				2.34	606.20	318.39	321.89		322.29	0.001245	2.81	215.72	98.83	0.59	99.97
Reach 1	2666	5_BU				1.53	320.00	318.64	321.11		321.38	0.001479	2.31	138.40	90.37	0.60	100.00
Reach 1	2666	1_BU				1.72	403.00	318.64	321.31		321.65	0.001586	2.58	156.22	91.07	0.63	100.00
Reach 1	2666	0p5_BU				1.78	433.00	318.64	321.37		321.74	0.001618	2.67	162.30	91.28	0.64	100.00
Reach 1	2666	0p5-CC-LC_BU				2.14	606.20	318.64	321.76		322.24	0.001679	3.07	197.36	93.08	0.67	100.00
Reach 1	2650	5_BU				1.53	320.00	318.67	321.06		321.36	0.001610	2.41	133.00	94.44	0.62	99.94
Reach 1	2650	1_BU				1.71	403.00	318.67	321.24		321.62	0.001756	2.71	149.44	98.47	0.66	99.81
Reach 1	2650	0p5_BU				1.77	433.00	318.67	321.30		321.71	0.001799	2.81	155.04	99.35	0.67	99.76
Reach 1	2650	0p5-CC-LC_BU				2.13	606.20	318.67	321.66		322.20	0.001892	3.26	187.85	104.90	0.71	99.39
Reach 1	2600	5_BU				1.42	320.00	318.85	321.00		321.27	0.001619	2.31	138.88	129.85	0.62	99.97
Reach 1	2600	1_BU				1.60	403.00	318.85	321.18		321.52	0.001715	2.57	157.21	135.19	0.65	99.92
Reach 1	2600	0p5_BU				1.66	433.00	318.85	321.24		321.60	0.001742	2.65	163.50	136.29	0.66	99.90
Reach 1	2600	0p5-CC-LC_BU				2.04	606.20	318.85	321.62		322.09	0.001716	3.02	201.47	155.84	0.68	99.78
Reach 1	2563	5_BU				1.29	320.00	319.01	320.89		321.20	0.002065	2.44	131.10	102.05	0.69	100.00
Reach 1	2563	1_BU				1.46	403.00	319.01	321.07		321.44	0.002151	2.70	149.22	118.27	0.71	100.00
Reach 1	2563	0p5_BU				1.52	433.00	319.01	321.13		321.53	0.002172	2.78	155.52	122.83	0.72	100.00
Reach 1	2563	0p5-CC-LC_BU				1.91	606.20	319.01	321.54		322.02	0.001948	3.07	197.28	139.18	0.71	99.99
Reach 1	2550	5_BU				1.31	320.00	318.95	320.87		321.17	0.002010	2.43	131.47	127.32	0.68	100.00
Reach 1	2550	1_BU				1.48	403.00	318.95	321.04		321.42	0.002101	2.70	149.12	138.36	0.71	99.99
Reach 1	2550	0p5_BU				1.54	433.00	318.95	321.10		321.50	0.002126	2.79	155.19	142.01	0.72	99.98
Reach 1	2550	0p5-CC-LC_BU				1.95	606.20	318.95	321.51		321.99	0.001914	3.09	196.56	167.31	0.71	99.85
Reach 1	2500	5_BU				1.32	320.00	318.86	320.77		321.07	0.001957	2.42	133.30	104.85	0.67	99.32
Reach 1	2500	1_BU				1.49	403.00	318.86	320.94		321.31	0.002062	2.69	151.14	107.71	0.70	99.03
Reach 1	2500	0p5_BU				1.55	433.00	318.86	321.00		321.39	0.002088	2.78	157.34	109.91	0.71	98.94
Reach 1	2500	0p5-CC-LC_BU				1.98	606.20	318.86	321.43		321.89	0.001792	3.03	202.81	149.69	0.69	98.32
Reach 1	2464	5_BU				1.24	328.00	318.82	320.67		320.99	0.002313	2.51	130.68	110.84	0.72	100.00
Reach 1	2464	1_BU				1.37	413.80	318.82	320.81		321.22	0.002572	2.84	145.77	116.59	0.77	99.99
Reach 1	2464	0p5_BU				1.42	445.00	318.82	320.86		321.30	0.002671	2.96	150.64	116.89	0.79	99.98
Reach 1	2464	0p5-CC-LC_BU				1.89	623.00	318.82	321.34		321.82	0.001970	3.07	203.43	135.25	0.71	99.87
Reach 1	2400	5_BU				1.14	328.00	318.95	320.55		320.83	0.002306	2.33	141.19	126.37	0.70	99.99
Reach 1	2400	1_BU				1.27	413.80	318.95	320.69		321.04	0.002575	2.62	158.57	128.45	0.74	99.94
Reach 1	2400	0p5_BU				1.31	445.00	318.95	320.73		321.11	0.002682	2.72	164.09	129.28	0.76	99.93
Reach 1	2400	0p5-CC-LC_BU				1.91	623.00	318.95	321.33		321.67	0.001575	2.60	254.36	196.55	0.60	99.07
Reach 1	2369	5_BU				0.89	328.00	318.74	320.39	320.30	320.73	0.004225	2.59	127.60	151.30	0.88	99.93
Reach 1	2369	1_BU				1.07	413.80	318.74	320.57	320.45	320.94	0.003674	2.70	155.79	154.57	0.83	99.74
Reach 1	2369	0p5_BU				1.12	445.00	318.74	320.62	320.50	321.01	0.003663	2.77	163.62	155.96	0.84	99.68
Reach 1	2369	0p5-CC-LC_BU				1.83	623.00	318.74	321.33		321.60	0.001444	2.35	288.26	232.45	0.55	98.29
Reach 1	2350	5_BU				1.05	328.00	318.43	320.41		320.64	0.002315	2.13	160.16	160.38	0.66	98.83
Reach 1	2350	1_BU				1.14	413.80	318.43	320.60		320.85	0.002258	2.25	192.84	177.23	0.67	98.50
Reach 1	2350	0p5_BU				1.20	445.00	318.43	320.65		320.92	0.002244	2.30	202.65	177.99	0.67	98.42
Reach 1	2350	0p5-CC-LC_BU				1.90	623.00	318.43	321.36		321.56	0.000959	1.99	353.43	293.10	0.46	96.83
Reach 1	2300	5_BU				1.07	328.00	317.71	320.35		320.51	0.001803	1.78	190.75	187.27	0.55	98.75
Reach 1	2300	1_BU				1.27	413.80	317.71	320.56		320.74	0.001575	1.88	229.25	189.69	0.53	98.52
Reach 1	2300	0p5_BU				1.32	445.00	317.71	320.61		320.80	0.001565	1.94	240.20	190.41	0.54	98.46
Reach 1	2300	0p5-CC-LC_BU				2.06	623.00	317.71	321.36		321.50	0.000662	1.71	414.82	331.33	0.38	97.12
Reach 1	2254	5_BU				1.04	328.00	317.67	319.85	319.85	320.34	0.006168	3.11	109.28	153.24	0.98	99.31
Reach 1	2254	1_BU				1.09	413.80	317.67	320.05	320.05	320.57	0.006361	3.23	134.33	170.39	0.99	98.65
Reach 1	2254	0p5_BU				1.16	445.00	317.67	320.19	320.11	320.65	0.005326	3.06	153.80	180.77	0.91	98.20
Reach 1	2254	0p5-CC-LC_BU				1.90	623.00	317.67	321.30		321.46	0.000982	1.87	416.87	429.81	0.43	93.75
Reach 1	2200	5_BU				0.98	328.00	317.45	319.53	319.54	320.04	0.004941	3.16	103.90	107.93	1.02	99.98
Reach 1	2200	1_BU				1.19	413.80	317.45	319.79	319.72	320.29	0.003839	3.14	132.83	114.78	0.92	99.89
Reach 1	2200	0p5_BU				1.42	445.00	317.45	320.06		320.44	0.002362	2.74	164.60	137.26	0.74	99.78
Reach 1	2200	0p5-CC-LC_BU				1.90	623.00	317.45	321.28		321.41	0.000590	1.64	485.88	444.60	0.38	93.84
Reach 1	2168	5_BU				0.81	328.00	317.62	319.29	319.38	319.85	0.007107	3.32	99.35	130.50	1.18	99.92
Reach 1	2168	1_BU				1.28	413.80	317.62	319.84		320.14	0.002056	2.42	174.00	160.21	0.68	99.56
Reach 1	2168	0p5_BU				1.47	445.00	317.62	320.11		320.34	0.001340	2.14	216.35	200.89	0.56	99.04
Reach 1	2168	0p5-CC-LC_BU				1.95	623.00	317.62	321.30		321.38	0.000323	1.27	622.21	489.61	0.29	91.69
Reach 1	2054	5_BU				1.17	328.00	317.47	319.42	318.95	319.54	0.000992	1.58	215.17	209.07	0.47	93.24
Reach 1	2054	1_BU				1.60	413.80	317.47	319.89		319.98	0.000491	1.37	322.08	246.15	0.35	90.06
Reach 1	2054	0p5_BU				1.83	445.00	317.47	320.15		320.23	0.000330	1.23	389.00	264.65	0.29	87.60
Reach 1	2054	0p5-CC-LC_BU				2.53	623.00	317.47	321.32		321.35	0.000103	0.85	813.50	414.77	0.17	77.51
Reach 1	1884	5_BU				1.76	328.00	315.75	319.08		319.34	0.001167	2.25	148.18	94.59	0.54	99.08
Reach 1	1884	1_BU				2.40	413.80	315.75	319.72		319.89	0.000540	1.88	260.50	212.16	0.39	89.42
Reach 1	1884	0p5_BU				2.72	445.00	315.75	320.05		320.17	0.000356	1.66	333.78	253.74	0.32	83.28
Reach 1	1884	0p5-CC-LC_BU				3.96	623.00	315.75	321.28		321.33	0.000105	1.16	740.48	366.60	0.19	60.50
Reach 1	1760	5_BU				2.29	328.00	315.68	318.93		319.21	0.000959	2.42	151.26	122.64	0.51	94.78
Reach 1	1760	1_BU				2.92	413.80	315.68	319.68		319.83	0.000421	1.88	284.81	212.77	0.35	78.47
Reach 1	1760	0p5_BU				3.26	445.00	315.68	320.02		320.13	0.000278	1.64	362.94	245.81	0.29	71.14
Reach 1	1760	0p5-CC-LC_BU				4.50	623.00	315.68	321.27		321.32	0.000104	1.25	682.98	271.53	0.19	53.45
Reach 1	1639	5_BU				2.24	328.00	314.98	318.93	317.49	319.09	0.000545	1.79	186.85	121.18	0.38	99.54
Reach 1	1639	1_BU				2.96	413.80	314.98	319.65	317.99	319.78	0.000326	1.67	269.30	147.29	0.31	97.18
Reach 1	1639	0p5_BU				3.28	445.00	314.98	319.97	318.08	320.10	0.000258	1.59	313.41	166.63	0.28	95.72
Reach 1	1639	0p5-CC-LC_BU				4.51	623.00	314.98	321.20	318.49	321.30	0.000154	1.52	490.86	219.49	0.23	89.66
Reach 1	1548	5_BU				2.66	328.00	314.79	318.87	317.38	319.04	0.000464	1.85	177.21	83.95	0.36	100.00
Reach 1	1548	1_BU				3.29	413.80	314.79	319.58	317.65	319.75	0.000347	1.84	225.25	98.13	0.32	99.99
Reach 1	1548	0p5_BU				3.61	445.00	314.79	319.90	317.77	320.07	0.000293	1.80	247.96	105.87	0.30	99.95
Reach 1	1548	0p5-CC-LC_BU				4.81	623.00	314.79	321.10	318.24	321.28	0.000218	1.88	338.07	175.40	0.27	99.30
Reach 1	1460	5_BU				2.02	328.00	316.31	318.84	317.89	318.99	0.000559	1.70	213.79	178.90	0.38	96.38
Reach 1	1460	1_BU				2.77	413.80	316.31	319.59	318.08	319.70	0.000289	1.51	322.14	248.68	0.29	93.03
Reach 1	1460	0p5_BU				3.11	445.00	316.31	319.93	318.15	320.02	0.000218	1.42	376.16	266.33	0.26	90.90
Reach 1	1460	0p5-CC-LC_BU				4.33	623.00	316.31	321.16	318.49	321.24	0.000120	1.31	591.46	313.61	0.20	83.90
Reach 1	1371	5_BU				1.85	328.00	315.74	318.81	317.86	318.91	0.000970	1.45	253.27	172.05	0.34	92.50
Reach 1	1371	1_BU				2.63	413.80	315.74	319.59	318.02	319.66	0.000446	1.22	407.50	220.75	0.24	87.72
Reach 1	1371	0p5_BU				2.97	445.00	315.74	319.93	318.08	319.99	0.000319	1.11	483.76	231.38	0.21	84.10
Reach 1	1371	0p5-CC-LC_BU				4.21	623.00	315.74	321.17	318.38	321.21	0.000156	0.97	785.64	341.16	0.15	74.18
Reach 1	1226	5_BU				2.20	328.00	315.18	318.65	317.48	318.77	0.000940	1.58	224.47	124.53	0.34	96.91
Reach 1	1226	1_BU				3.06	413.80	315.18	319.50	317.71	319.59	0.000475	1.37	381.73	218.03	0.25	92.52
Reach 1	1226	0p5_BU				3.42	445.00	315.18	319.86	317.78	319.94	0.000353	1.27	463.56	228.92	0.22	89.01
Reach 1	1226	0p5-CC-LC_BU				4.69	623.00	315.18	321.13	318.14	321.18	0.000193	1.14	770.17	329.62	0.17	78.60
Reach 1	1171	5_BU				2.44	328.00	314.92	318.63	317.20	318.72	0.000593	1.34	302.91	192.44	0.27	92.28
Reach 1	1171	1_BU				3.31	413.80	314.92	319.50	317.44	319.56	0.000296	1.14	501.93	271.23	0.20	84.71
Reach 1	1171	0p5_BU				3.67	445.00	314.92	319.86	317.51	319.91	0.000231	1.08	601.45	278.50	0.18	82.42
Reach 1	1171	0p5-CC-LC_BU				4.94	623.00	314.92	321.13	317.89	321.17	0.000126	0.96	1001.73	369.12	0.14	70.90
Reach 1	1060	5_BU				2.97	328.00	314.65	318.60	316.72	318.66	0.000356	1.17	348.30	210.07	0.22	93.21
Reach 1	1060	1_BU				3.85	413.80	314.65	319.48	316.92	319.53	0.000197	1.04	572.12	330.75	0.17	85.08
Reach 1	1060	0p5_BU				4.22	445.00	314.65	319.85	316.99	319.89	0.000154	0.97	696.52	341.21	0.15	81.43
Reach 1	1060	0p5-CC-LC_BU				5.50	623.00	314.65	321.12	317.35	321.16	0.000093	0.90	1135.77	347.36	0.12	70.10

HEC-RAS Plan: KR_Jam_3250 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	964	5_BU				2.76	328.00	314.83	318.59	316.49	318.63	0.000229	0.89	445.60	284.73	0.17	94.36
Reach 1	964	1_BU				3.66	413.80	314.83	319.48	316.71	319.51	0.000121	0.78	719.47	317.08	0.13	86.67
Reach 1	964	0p5_BU				4.03	445.00	314.83	319.85	316.78	319.87	0.000095	0.74	837.53	326.13	0.12	83.84
Reach 1	964	0p5-CC-LC_BU				5.30	623.00	314.83	321.12	317.15	321.15	0.000062	0.72	1266.49	375.70	0.10	76.63
Reach 1	856	5_BU				2.74	328.00	314.15	318.58	316.32	318.60	0.000164	0.75	563.50	317.43	0.14	86.98
Reach 1	856	1_BU				3.65	413.80	314.15	319.48	316.51	319.50	0.000088	0.66	865.55	387.73	0.11	81.32
Reach 1	856	0p5_BU				4.01	445.00	314.15	319.85	316.58	319.86	0.000070	0.63	993.31	392.91	0.10	78.84
Reach 1	856	0p5-CC-LC_BU				5.29	623.00	314.15	321.12	316.90	321.14	0.000046	0.62	1443.68	438.41	0.09	72.84
Reach 1	746	5_BU				3.12	328.00	313.89	318.57	316.13	318.59	0.000082	0.58	716.97	434.89	0.10	92.69
Reach 1	746	1_BU				4.02	413.80	313.89	319.48	316.27	319.49	0.000046	0.51	1118.86	566.57	0.08	84.21
Reach 1	746	0p5_BU				4.39	445.00	313.89	319.85	316.31	319.86	0.000037	0.49	1288.74	601.50	0.07	81.46
Reach 1	746	0p5-CC-LC_BU				5.67	623.00	313.89	321.12	316.55	321.13	0.000026	0.48	1892.63	664.17	0.06	74.24
Reach 1	638	5_BU				3.16	328.00	313.68	318.57	315.88	318.58	0.000060	0.50	773.57	484.53	0.09	95.79
Reach 1	638	1_BU				4.07	413.80	313.68	319.47	316.05	319.48	0.000035	0.45	1245.00	705.98	0.07	88.42
Reach 1	638	0p5_BU				4.44	445.00	313.68	319.84	316.11	319.85	0.000028	0.43	1450.27	759.64	0.07	85.75
Reach 1	638	0p5-CC-LC_BU				5.72	623.00	313.68	321.12	316.40	321.13	0.000019	0.42	2180.02	873.57	0.06	77.42

HEC-RAS Plan: KR_Jam_5850 River: Klondike River Reach: Reach 1

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	58149	5_BU				0.60	211.80	457.19	459.11	458.78	459.18	0.003960	1.28	176.98	311.40	0.53	69.92
Reach 1	58149	1_BU				0.62	258.70	457.19	459.21	458.88	459.29	0.003968	1.31	209.35	358.41	0.53	68.61
Reach 1	58149	0p5_BU				0.63	274.10	457.19	459.23	458.92	459.31	0.003967	1.34	218.21	365.59	0.54	68.59
Reach 1	58149	0p5-CC-LC_BU				0.78	383.70	457.19	459.40	459.08	459.50	0.003748	1.50	283.35	422.35	0.54	69.68
Reach 1	57145	5_BU				1.56	211.80	454.28	457.10		457.15	0.001219	1.40	307.38	553.20	0.36	51.15
Reach 1	57145	1_BU				1.67	258.70	454.28	457.21		457.26	0.001207	1.46	371.49	616.50	0.36	46.72
Reach 1	57145	0p5_BU				1.70	274.10	454.28	457.24		457.30	0.001201	1.48	392.42	637.56	0.36	45.45
Reach 1	57145	0p5-CC-LC_BU				1.89	383.70	454.28	457.43	456.97	457.49	0.001229	1.60	523.14	758.51	0.37	39.14
Reach 1	56479	5_BU				1.05	240.10	453.12	455.47	455.09	455.51	0.005101	1.12	306.13	656.22	0.35	32.50
Reach 1	56479	1_BU				1.11	296.00	453.12	455.54	455.20	455.58	0.005627	1.22	349.22	708.62	0.37	30.50
Reach 1	56479	0p5_BU				1.13	314.90	453.12	455.55	455.23	455.60	0.005788	1.26	362.46	723.99	0.38	29.88
Reach 1	56479	0p5-CC-LC_BU				1.25	440.90	453.12	455.68	455.34	455.74	0.006242	1.40	463.40	836.79	0.40	26.46
Reach 1	56103	5_BU				1.35	240.10	452.81	454.88	454.59	454.92	0.001233	1.30	480.43	1110.99	0.36	43.21
Reach 1	56103	1_BU				1.48	296.00	452.81	455.00	454.65	455.04	0.001075	1.28	619.04	1250.15	0.34	37.86
Reach 1	56103	0p5_BU				1.51	314.90	452.81	455.04	454.68	455.07	0.001035	1.28	660.65	1276.27	0.33	36.31
Reach 1	56103	0p5-CC-LC_BU				1.72	440.90	452.81	455.25	454.80	455.28	0.000857	1.27	929.03	1384.61	0.31	29.36
Reach 1	54315	5_BU				1.45	240.10	449.60	451.73	451.23	451.91	0.002405	2.04	149.24	151.29	0.54	82.29
Reach 1	54315	1_BU				1.56	296.00	449.60	451.85	451.42	452.08	0.002828	2.28	169.94	189.14	0.58	80.99
Reach 1	54315	0p5_BU				1.60	314.90	449.60	451.89	451.48	452.13	0.002970	2.36	177.13	201.14	0.60	80.66
Reach 1	54315	0p5-CC-LC_BU				1.79	440.90	449.60	452.08	451.78	452.41	0.003875	2.83	223.56	333.53	0.68	77.50
Reach 1	53429	5_BU				1.05	240.10	446.75	449.04	448.76	449.17	0.004087	1.81	160.79	290.59	0.56	64.39
Reach 1	53429	1_BU				1.23	296.00	446.75	449.22	448.87	449.34	0.003287	1.78	219.19	358.12	0.51	60.40
Reach 1	53429	0p5_BU				1.28	314.90	446.75	449.27	448.91	449.39	0.003094	1.78	239.73	373.58	0.50	59.14
Reach 1	53429	0p5-CC-LC_BU				1.57	440.90	446.75	449.61	449.12	449.71	0.002282	1.71	378.63	448.34	0.44	51.57
Reach 1	52840	5_BU				1.89	240.10	445.50	448.33		448.40	0.000706	1.22	225.51	161.57	0.28	91.14
Reach 1	52840	1_BU				2.09	296.00	445.50	448.53		448.61	0.000743	1.34	258.72	170.72	0.30	89.43
Reach 1	52840	0p5_BU				2.15	314.90	445.50	448.59		448.67	0.000755	1.38	269.27	175.04	0.30	88.94
Reach 1	52840	0p5-CC-LC_BU				2.49	440.90	445.50	448.93		449.05	0.000850	1.61	332.21	197.46	0.33	86.24
Reach 1	52279	5_BU				1.55	240.10	445.07	447.57		447.74	0.002219	1.90	140.01	174.63	0.49	97.07
Reach 1	52279	1_BU				1.71	296.00	445.07	447.73		447.93	0.002266	2.05	171.53	236.34	0.50	93.97
Reach 1	52279	0p5_BU				1.76	314.90	445.07	447.78		447.99	0.002290	2.10	182.03	249.32	0.51	92.95
Reach 1	52279	0p5-CC-LC_BU				2.03	440.90	445.07	448.05		448.29	0.002398	2.36	259.18	435.16	0.53	86.14
Reach 1	50899	5_BU				1.15	290.80	441.51	444.17		444.28	0.002637	1.69	262.99	378.00	0.50	75.78
Reach 1	50899	1_BU				1.25	363.60	441.51	444.31		444.43	0.002606	1.77	317.75	413.08	0.51	71.67
Reach 1	50899	0p5_BU				1.29	389.40	441.51	444.35		444.47	0.002582	1.81	336.60	423.60	0.51	70.54
Reach 1	50899	0p5-CC-LC_BU				1.50	545.10	441.51	444.60		444.73	0.002497	1.97	452.29	539.39	0.51	65.49
Reach 1	50334	5_BU				1.02	290.80	440.40	442.61		442.73	0.002914	1.65	216.07	310.43	0.52	89.27
Reach 1	50334	1_BU				1.14	363.60	440.40	442.73		442.88	0.002951	1.79	257.36	333.37	0.53	87.44
Reach 1	50334	0p5_BU				1.18	389.40	440.40	442.77		442.93	0.002979	1.84	271.26	347.22	0.54	86.94
Reach 1	50334	0p5-CC-LC_BU				1.41	545.10	440.40	443.00		443.19	0.003073	2.10	356.59	431.66	0.56	84.15
Reach 1	49973	5_BU				0.95	290.80	439.55	441.75	441.29	441.84	0.002227	1.37	233.64	298.17	0.45	92.65
Reach 1	49973	1_BU				1.06	363.60	439.55	441.89	441.47	441.99	0.002209	1.47	275.80	315.71	0.46	91.24
Reach 1	49973	0p5_BU				1.11	389.40	439.55	441.93	441.50	442.04	0.002190	1.51	289.92	320.11	0.46	90.82
Reach 1	49973	0p5-CC-LC_BU				1.35	545.10	439.55	442.17	441.67	442.30	0.002137	1.70	371.89	372.72	0.47	88.82
Reach 1	49383	5_BU				1.08	290.80	437.54	440.17		440.29	0.002869	1.69	199.86	221.20	0.52	73.70
Reach 1	49383	1_BU				1.22	363.60	437.54	440.35		440.48	0.002705	1.78	241.99	244.73	0.51	72.61
Reach 1	49383	0p5_BU				1.25	389.40	437.54	440.41		440.55	0.002671	1.80	257.13	255.51	0.51	72.07
Reach 1	49383	0p5-CC-LC_BU				1.47	545.10	437.54	440.73		440.88	0.002472	1.92	355.69	365.82	0.51	69.86
Reach 1	49175	5_BU				1.05	290.80	437.30	439.65		439.78	0.001867	1.56	187.04	181.06	0.48	99.97
Reach 1	49175	1_BU				1.14	363.60	437.30	439.86		439.99	0.001806	1.61	226.96	208.03	0.48	99.86
Reach 1	49175	0p5_BU				1.17	389.40	437.30	439.93		440.06	0.001806	1.63	240.54	220.70	0.48	99.82
Reach 1	49175	0p5-CC-LC_BU				1.45	545.10	437.30	440.27		440.42	0.001764	1.74	324.90	263.71	0.46	99.05
Reach 1	49000	5_BU				1.18	290.80	436.74	439.25		439.40	0.002557	1.69	178.29	167.36	0.50	97.96
Reach 1	49000	1_BU				1.28	363.60	436.74	439.48		439.63	0.002432	1.75	219.88	196.73	0.49	97.18
Reach 1	49000	0p5_BU				1.33	389.40	436.74	439.55		439.70	0.002354	1.77	233.67	201.66	0.49	96.85
Reach 1	49000	0p5-CC-LC_BU				1.66	545.10	436.74	439.92		440.09	0.002001	1.89	315.20	239.18	0.47	95.08
Reach 1	48700	5_BU				1.35	290.80	435.90	438.75		438.85	0.001302	1.42	205.87	172.61	0.39	99.96
Reach 1	48700	1_BU				1.58	363.60	435.90	438.98		439.09	0.001309	1.51	241.68	181.33	0.38	99.84
Reach 1	48700	0p5_BU				1.65	389.40	435.90	439.05		439.17	0.001316	1.55	253.42	187.02	0.38	99.78
Reach 1	48700	0p5-CC-LC_BU				2.04	545.10	435.90	439.44		439.60	0.001365	1.74	320.13	249.20	0.39	99.16
Reach 1	48530	5_BU				1.59	290.80	435.46	438.32	437.75	438.54	0.002629	2.09	150.63	142.57	0.53	98.38
Reach 1	48530	1_BU				1.78	363.60	435.46	438.51	437.93	438.77	0.002700	2.28	180.97	168.63	0.55	96.73
Reach 1	48530	0p5_BU				1.85	389.40	435.46	438.58	437.99	438.85	0.002716	2.35	192.06	179.12	0.55	96.07
Reach 1	48530	0p5-CC-LC_BU				2.20	545.10	435.46	438.93	438.40	439.26	0.002704	2.63	266.40	241.42	0.57	91.85
Reach 1	48400	5_BU				1.46	290.80	435.59	438.01		438.20	0.002423	1.95	172.86	184.61	0.52	95.64
Reach 1	48400	1_BU				1.66	363.60	435.59	438.22		438.43	0.002378	2.10	213.74	214.62	0.52	93.57
Reach 1	48400	0p5_BU				1.73	389.40	435.59	438.29		438.50	0.002345	2.13	228.98	222.76	0.52	92.66
Reach 1	48400	0p5-CC-LC_BU				2.12	545.10	435.59	438.68		438.92	0.002109	2.30	327.11	289.27	0.50	87.41
Reach 1	48250	5_BU				1.37	290.80	435.03	437.51		437.76	0.003482	2.20	140.07	144.73	0.60	98.84
Reach 1	48250	1_BU				1.64	363.60	435.03	437.78		438.03	0.002897	2.25	181.47	171.22	0.56	96.52
Reach 1	48250	0p5_BU				1.73	389.40	435.03	437.87		438.12	0.002720	2.26	198.18	198.67	0.55	95.52
Reach 1	48250	0p5-CC-LC_BU				2.23	545.10	435.03	438.37		438.61	0.001971	2.28	312.05	249.54	0.49	88.82
Reach 1	48100	5_BU				1.61	290.80	434.27	437.19		437.36	0.001910	1.85	156.94	97.43	0.47	100.00
Reach 1	48100	1_BU				1.85	363.60	434.27	437.48		437.68	0.001763	1.95	186.56	100.80	0.46	100.00
Reach 1	48100	0p5_BU				1.93	389.40	434.27	437.58		437.78	0.001735	1.98	196.44	101.88	0.46	100.00
Reach 1	48100	0p5-CC-LC_BU				2.36	545.10	434.27	438.10		438.34	0.001592	2.17	250.81	107.83	0.45	99.99
Reach 1	48010	5_BU				1.94	290.80	433.89	436.99		437.19	0.001805	1.98	147.16	75.94	0.45	100.00
Reach 1	48010	1_BU				2.11	363.60	433.89	437.27		437.51	0.001956	2.15	168.83	79.84	0.47	100.00
Reach 1	48010	0p5_BU				2.19	389.40	433.89	437.36		437.61	0.001990	2.21	176.10	80.43	0.48	100.00
Reach 1	48010	0p5-CC-LC_BU				2.60	545.10	433.89	437.84		438.17	0.002150	2.53	215.66	83.57	0.50	100.00
Reach 1	47901	5_BU				2.30	290.80	433.20	436.85		437.02	0.001211	1.82	160.01	70.67	0.38	99.98
Reach 1	47901	1_BU				2.56	363.60	433.20	437.11		437.32	0.001325	2.04	178.42	71.58	0.41	99.93
Reach 1	47901	0p5_BU				2.64	389.40	433.20	437.20		437.42	0.001362	2.12	184.49	71.88	0.42	99.91
Reach 1	47901	0p5-CC-LC_BU				3.08	545.10	433.20	437.64		437.97	0.001583	2.53	216.81	73.45	0.46	99.72
Reach 1	47790	5_BU				2.18	290.80	433.56	436.76		436.88	0.001084	1.58	184.27	84.47	0.34	100.00
Reach 1	47790	1_BU				2.40	363.60	433.56	437.01		437.17	0.001214	1.77	205.87	85.91	0.36	100.00
Reach 1	47790	0p5_BU				2.47	389.40	433.56	437.09		437.26	0.001259	1.83	213.03	86.41	0.37	100.00
Reach 1	47790	0p5-CC-LC_BU				2.85	545.10	433.56	437.53		437.77	0.001494	2.17	251.40	88.35	0.41	100.00
Reach 1	47700	5_BU				1.92	290.80	433.03	436.61	435.48	436.77	0.001328	1.76	165.54	86.19	0.40	100.00
Reach 1	47700	1_BU				2.11	363.60	433.03	436.85	435.72	437.05	0.001455	1.95	186.14	88.07	0.43	100.00
Reach 1	47700	0p5_BU				2.18	389.40	433.03	436.93	435.81	437.14	0.001492	2.02	192.98	88.50	0.44	100.00
Reach 1	47700	0p5-CC-LC_BU				2.53	545.10	433.03	437.33	436.23	437.62	0.001722	2.38	229.29	90.52	0.48	100.00
Reach 1	47550	5_BU				1.58	290.80	433.60	436.34	435.62	436.52	0.002061	1.91	152.11	96.52	0.49	100.00
Reach 1	47550	1_BU				1.72	363.60	433.60	436.56	435.82	436.78	0.002155	2.09	173.91	100.94	0.51	100.00
Reach 1	47550	0p5_BU				1.77	389.40	433.60	436.63	435.88	436.86	0.002193	2.15	181.26	102.69	0.52	100.00
Reach 1	47550	0p5-CC-LC_BU				2.09	545.10	433.60	437.02	436.23	437.32	0.002326	2.45	223.79	114.98	0.54	99.91
Reach 1	47390	5_BU				1.63	290.80	434.08	436.11		436.23	0.001427	1.59	183.42	114.36	0.40	99.99
Reach 1	47390	1_BU				1.81	363.60	434.08	436.31		436.47	0.001529	1.76	207.47	116.78	0.42	99.96

HEC-RAS Plan: KR_Jam_5850 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	47390	0p5_BU				1.88	389.40	434.08	436.38		436.55	0.001561	1.81	215.49	117.95	0.42	99.95
Reach 1	47390	0p5-CC-LC_BU				2.24	545.10	434.08	436.75		436.98	0.001728	2.12	262.25	146.18	0.45	99.77
Reach 1	47300	5_BU				1.43	290.80	433.73	435.91		436.04	0.003485	1.62	179.96	125.61	0.43	100.00
Reach 1	47300	1_BU				1.63	363.60	433.73	436.11		436.27	0.003540	1.77	205.35	126.98	0.44	100.00
Reach 1	47300	0p5_BU				1.70	389.40	433.73	436.18		436.35	0.003556	1.82	213.76	127.58	0.45	99.99
Reach 1	47300	0p5-CC-LC_BU				2.05	545.10	433.73	436.53		436.76	0.003671	2.10	262.15	152.05	0.47	99.82
Reach 1	47150	5_BU				1.40	290.80	433.25	435.27		435.51	0.003443	2.23	149.59	144.87	0.60	94.89
Reach 1	47150	1_BU				1.61	363.60	433.25	435.48		435.75	0.003273	2.38	181.09	159.22	0.60	93.06
Reach 1	47150	0p5_BU				1.68	389.40	433.25	435.55		435.82	0.003222	2.43	192.33	165.15	0.60	92.45
Reach 1	47150	0p5-CC-LC_BU				2.05	545.10	433.25	435.91		436.25	0.003043	2.69	254.56	171.80	0.60	89.19
Reach 1	47000	5_BU				1.44	290.80	432.80	434.82		435.03	0.002826	2.04	149.81	122.95	0.54	98.23
Reach 1	47000	1_BU				1.64	363.60	432.80	435.05		435.29	0.002727	2.19	180.18	148.20	0.55	97.62
Reach 1	47000	0p5_BU				1.70	389.40	432.80	435.12		435.37	0.002716	2.24	191.08	153.99	0.55	97.29
Reach 1	47000	0p5-CC-LC_BU				2.07	545.10	432.80	435.52		435.82	0.002545	2.46	261.54	207.74	0.55	94.50
Reach 1	46850	5_BU				1.56	290.80	432.38	434.53		434.68	0.001816	1.75	174.99	123.07	0.45	97.58
Reach 1	46850	1_BU				1.78	363.60	432.38	434.77		434.94	0.001776	1.88	207.02	144.02	0.45	96.91
Reach 1	46850	0p5_BU				1.85	389.40	432.38	434.84		435.03	0.001767	1.93	218.18	151.02	0.45	96.64
Reach 1	46850	0p5-CC-LC_BU				2.27	545.10	432.38	435.26		435.49	0.001717	2.16	285.75	186.50	0.46	94.81
Reach 1	46700	5_BU				1.60	290.80	431.90	434.11	433.60	434.34	0.002740	2.15	147.10	175.94	0.54	96.00
Reach 1	46700	1_BU				1.77	363.60	431.90	434.34	433.77	434.60	0.002809	2.35	172.41	193.28	0.56	95.38
Reach 1	46700	0p5_BU				1.83	389.40	431.90	434.41	433.84	434.69	0.002806	2.41	181.30	199.81	0.57	95.03
Reach 1	46700	0p5-CC-LC_BU				2.23	545.10	431.90	434.80	434.14	435.15	0.002759	2.71	237.42	254.43	0.58	92.86
Reach 1	46513	5_BU				1.49	290.80	431.49	433.78	433.15	433.97	0.002342	1.91	154.98	120.66	0.50	99.67
Reach 1	46513	1_BU				1.67	363.60	431.49	434.00	433.33	434.22	0.002396	2.06	186.00	172.97	0.51	98.93
Reach 1	46513	0p5_BU				1.73	389.40	431.49	434.08	433.39	434.30	0.002390	2.11	198.88	186.15	0.51	98.50
Reach 1	46513	0p5-CC-LC_BU				2.09	545.10	431.49	434.52	433.73	434.77	0.002211	2.25	283.52	260.90	0.50	95.03
Reach 1	46503		Bridge														
Reach 1	46441	5_BU				1.62	290.80	431.25	433.57		433.76	0.002123	1.92	152.77	112.65	0.48	99.91
Reach 1	46441	1_BU				1.80	363.60	431.25	433.76		433.99	0.002298	2.14	176.62	141.74	0.51	99.31
Reach 1	46441	0p5_BU				1.86	389.40	431.25	433.82		434.07	0.002333	2.20	185.89	152.34	0.52	98.96
Reach 1	46441	0p5-CC-LC_BU				2.23	545.10	431.25	434.19		434.50	0.002366	2.50	251.16	236.92	0.53	95.98
Reach 1	46352	5_BU				1.16	290.80	430.67	432.98		433.26	0.005055	2.36	125.55	123.56	0.70	99.72
Reach 1	46352	1_BU				1.41	363.60	430.67	433.24		433.53	0.004007	2.38	159.15	131.58	0.64	98.94
Reach 1	46352	0p5_BU				1.49	389.40	430.67	433.33		433.61	0.003769	2.40	170.51	134.16	0.63	98.63
Reach 1	46352	0p5-CC-LC_BU				1.94	545.10	430.67	433.79		434.10	0.002896	2.51	238.20	154.35	0.57	96.94
Reach 1	46300	5_BU				1.70	290.80	430.65	432.93		433.08	0.001583	1.71	171.70	119.01	0.42	99.96
Reach 1	46300	1_BU				1.95	363.60	430.65	433.20		433.37	0.001518	1.83	206.94	140.81	0.42	99.34
Reach 1	46300	0p5_BU				2.04	389.40	430.65	433.29		433.46	0.001499	1.87	219.22	142.63	0.42	99.01
Reach 1	46300	0p5-CC-LC_BU				2.49	545.10	430.65	433.75		433.97	0.001428	2.09	287.14	149.14	0.42	97.10
Reach 1	46250	5_BU				1.74	290.80	430.61	432.83		433.00	0.001752	1.82	162.34	105.55	0.44	99.46
Reach 1	46250	1_BU				1.96	363.60	430.61	433.09		433.29	0.001720	1.96	191.40	114.61	0.45	98.65
Reach 1	46250	0p5_BU				2.04	389.40	430.61	433.18		433.38	0.001708	2.00	201.68	122.56	0.45	98.27
Reach 1	46250	0p5-CC-LC_BU				2.51	545.10	430.61	433.65		433.89	0.001595	2.22	261.33	132.53	0.45	95.76
Reach 1	46200	5_BU				1.66	290.80	430.41	432.71		432.90	0.002058	1.92	151.52	91.32	0.48	100.00
Reach 1	46200	1_BU				1.87	363.60	430.41	432.97		433.19	0.002034	2.07	176.33	98.68	0.48	99.95
Reach 1	46200	0p5_BU				1.96	389.40	430.41	433.06		433.29	0.002013	2.12	184.72	100.57	0.48	99.91
Reach 1	46200	0p5-CC-LC_BU				2.41	545.10	430.41	433.51		433.80	0.001946	2.39	235.66	123.76	0.49	99.29
Reach 1	46150	5_BU				1.92	290.80	430.24	432.65		432.81	0.001435	1.74	167.12	89.21	0.40	100.00
Reach 1	46150	1_BU				2.14	363.60	430.24	432.91		433.10	0.001548	1.92	190.29	92.40	0.42	99.95
Reach 1	46150	0p5_BU				2.22	389.40	430.24	432.99		433.19	0.001576	1.98	197.99	93.26	0.42	99.92
Reach 1	46150	0p5-CC-LC_BU				2.62	545.10	430.24	433.44		433.70	0.001723	2.29	242.39	116.91	0.45	99.66
Reach 1	46100	5_BU				1.91	290.80	430.02	432.55		432.73	0.001621	1.87	157.14	85.31	0.43	99.80
Reach 1	46100	1_BU				2.13	363.60	430.02	432.79		433.01	0.001711	2.07	177.99	87.33	0.45	99.69
Reach 1	46100	0p5_BU				2.21	389.40	430.02	432.87		433.10	0.001743	2.13	184.96	93.22	0.46	99.65
Reach 1	46100	0p5-CC-LC_BU				2.64	545.10	430.02	433.30		433.61	0.001859	2.48	239.16	152.57	0.49	98.73
Reach 1	46050	5_BU				1.54	290.80	429.81	432.31		432.60	0.003475	2.38	122.09	81.49	0.61	99.99
Reach 1	46050	1_BU				1.71	363.60	429.81	432.54		432.88	0.003482	2.60	140.55	87.79	0.63	99.92
Reach 1	46050	0p5_BU				1.78	389.40	429.81	432.61		432.97	0.003491	2.67	147.05	91.22	0.64	99.88
Reach 1	46050	0p5-CC-LC_BU				2.14	545.10	429.81	433.01		433.47	0.003473	3.02	190.52	130.22	0.66	99.14
Reach 1	46000	5_BU				1.68	290.80	429.73	432.16		432.44	0.002966	2.33	124.90	74.15	0.57	100.00
Reach 1	46000	1_BU				1.84	363.60	429.73	432.37		432.71	0.003250	2.59	140.85	82.12	0.61	99.99
Reach 1	46000	0p5_BU				1.87	389.40	429.73	432.44		432.80	0.003310	2.67	146.60	88.32	0.62	99.96
Reach 1	46000	0p5-CC-LC_BU				2.22	545.10	429.73	432.81		433.29	0.003592	3.10	184.94	118.94	0.66	99.27
Reach 1	45950	5_BU				1.55	290.80	429.64	432.02		432.28	0.003117	2.26	128.54	82.74	0.58	100.00
Reach 1	45950	1_BU				1.64	363.60	429.64	432.22		432.54	0.003252	2.49	145.75	88.90	0.62	100.00
Reach 1	45950	0p5_BU				1.65	389.40	429.64	432.29		432.63	0.003282	2.56	152.02	91.87	0.64	100.00
Reach 1	45950	0p5-CC-LC_BU				1.60	545.10	429.64	432.68		433.10	0.003370	2.85	192.07	124.34	0.72	99.93
Reach 1	45850	5_BU				1.50	290.80	429.47	431.81		431.99	0.002311	1.90	153.96	111.86	0.50	99.95
Reach 1	45850	1_BU				1.69	363.60	429.47	432.02		432.24	0.002353	2.08	177.77	114.68	0.51	99.74
Reach 1	45850	0p5_BU				1.75	389.40	429.47	432.09		432.32	0.002360	2.13	186.04	116.16	0.51	99.65
Reach 1	45850	0p5-CC-LC_BU				1.99	545.10	429.47	432.49		432.78	0.002380	2.40	235.92	142.88	0.54	99.02
Reach 1	45750	5_BU				1.30	290.80	429.31	431.53		431.73	0.002962	1.96	148.56	114.20	0.55	100.00
Reach 1	45750	1_BU				1.50	363.60	429.31	431.76		431.98	0.002758	2.08	174.90	118.27	0.54	99.99
Reach 1	45750	0p5_BU				1.57	389.40	429.31	431.84		432.07	0.002700	2.12	184.04	120.04	0.54	99.98
Reach 1	45750	0p5-CC-LC_BU				1.94	545.10	429.31	432.25		432.53	0.002553	2.34	235.28	128.54	0.54	99.81
Reach 1	45600	5_BU				1.58	290.80	429.06	431.22		431.38	0.001809	1.75	166.35	105.02	0.44	100.00
Reach 1	45600	1_BU				1.79	363.60	429.06	431.45		431.64	0.001821	1.90	191.18	106.84	0.45	100.00
Reach 1	45600	0p5_BU				1.86	389.40	429.06	431.53		431.73	0.001823	1.95	199.63	107.45	0.46	100.00
Reach 1	45600	0p5-CC-LC_BU				2.18	545.10	429.06	431.93		432.19	0.001938	2.24	244.75	126.33	0.48	99.96
Reach 1	45400	5_BU				1.61	290.80	428.84	430.87		431.02	0.001698	1.71	170.86	115.10	0.43	99.90
Reach 1	45400	1_BU				1.83	363.60	428.84	431.11		431.28	0.001712	1.87	199.12	127.95	0.44	99.65
Reach 1	45400	0p5_BU				1.90	389.40	428.84	431.19		431.37	0.001700	1.91	209.63	132.14	0.44	99.49
Reach 1	45400	0p5-CC-LC_BU				2.26	545.10	428.84	431.57		431.81	0.001794	2.20	266.80	189.94	0.47	98.44
Reach 1	45200	5_BU				1.43	290.80	428.38	430.32		430.56	0.003209	2.18	135.45	102.76	0.58	99.76
Reach 1	45200	1_BU				1.61	363.60	428.38	430.54		430.82	0.003161	2.34	160.71	124.93	0.59	99.35
Reach 1	45200	0p5_BU				1.64	389.40	428.38	430.62		430.91	0.003214	2.38	170.77	134.50	0.59	99.19
Reach 1	45200	0p5-CC-LC_BU				1.96	545.10	428.38	430.99		431.34	0.003119	2.65	237.52	239.32	0.60	97.07
Reach 1	44985	5_BU				1.65	290.80	426.86	429.87		430.03	0.001765	1.77	165.94	114.91	0.44	99.87
Reach 1	44985	1_BU				1.88	363.60	426.86	430.10		430.29	0.001774	1.93	195.49	146.29	0.45	99.38
Reach 1	44985	0p5_BU				1.96	389.40	426.86	430.18		430.38	0.001781	1.99	206.80	162.46	0.45	99.07
Reach 1	44985	0p5-CC-LC_BU				2.34	545.10	426.86	430.56		430.81	0.001812	2.26	286.27	262.27	0.47	96.09
Reach 1	43733	5_BU				1.24	290.80	424.63	427.09		427.26	0.002842	1.85	167.20	154.71	0.53	91.67
Reach 1	43733	1_BU				1.33	363.60	424.63	427.24		427.44	0.002997	2.04	192.56	183.99	0.57	91.08
Reach 1	43733	0p5_BU				1.38	389.40	424.63	427.29		427.50	0.003027	2.10	202.47	195.79	0.57	90.86
Reach 1	43733	0p5-CC-LC_BU				1.64	545.10	424.63	427.56		427.82	0.003218	2.40	261.79	257.03	0.60	88.39
Reach 1	42697	5_BU				1.45	290.80	421.83	425.04	424.42	425.14	0.001612	1.54	289.57	457.65	0.41	77.28
Reach 1	42697	1_BU				1.58	363.60	421.83	425.17	424.76	425.27	0.001628	1.64	352.98	510.00	0.42	71.77

HEC-RAS Plan: KR_Jam_5850 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	42697	0p5_BU				1.62	389.40	421.83	425.21	424.81	425.32	0.001648	1.68	373.47	523.07	0.42	70.25
Reach 1	42697	0p5-CC-LC_BU				1.83	545.10	421.83	425.42	425.03	425.54	0.001731	1.86	487.42	580.10	0.44	62.80
Reach 1	41323	5_BU				0.87	290.80	419.47	421.45		421.64	0.004579	1.95	149.51	170.95	0.66	100.00
Reach 1	41323	1_BU				0.94	363.60	419.47	421.63		421.83	0.004330	1.99	183.53	214.64	0.65	99.96
Reach 1	41323	0p5_BU				0.98	389.40	419.47	421.69		421.90	0.004169	1.99	198.57	264.10	0.64	99.83
Reach 1	41323	0p5-CC-LC_BU				1.08	545.10	419.47	422.01		422.20	0.003660	1.98	308.47	435.93	0.61	95.73
Reach 1	40285	5_BU				1.48	290.80	416.85	419.58		419.62	0.001019	1.23	364.00	463.45	0.32	42.98
Reach 1	40285	1_BU				1.61	363.60	416.85	419.71		419.77	0.001082	1.35	436.90	572.89	0.34	41.14
Reach 1	40285	0p5_BU				1.66	389.40	416.85	419.76		419.81	0.001117	1.40	463.34	605.72	0.35	40.85
Reach 1	40285	0p5-CC-LC_BU				1.86	545.10	416.85	419.96		420.02	0.001281	1.61	590.93	671.87	0.38	37.73
Reach 1	39051	5_BU				0.78	290.80	414.48	417.40		417.47	0.005561	1.25	271.84	600.83	0.45	81.24
Reach 1	39051	1_BU				0.81	363.60	414.48	417.53		417.59	0.005291	1.21	362.97	757.27	0.43	74.59
Reach 1	39051	0p5_BU				0.84	389.40	414.48	417.57		417.63	0.005082	1.21	390.87	792.72	0.42	72.93
Reach 1	39051	0p5-CC-LC_BU				1.01	545.10	414.48	417.76		417.82	0.004222	1.24	561.04	981.88	0.39	65.70
Reach 1	38622	5_BU				0.85	290.80	413.89	416.80		416.82	0.000728	0.71	516.75	959.14	0.25	85.48
Reach 1	38622	1_BU				0.96	363.60	413.89	416.92		416.95	0.000767	0.75	634.79	1138.44	0.24	82.78
Reach 1	38622	0p5_BU				0.99	389.40	413.89	416.96		416.99	0.000780	0.76	674.47	1183.00	0.24	81.85
Reach 1	38622	0p5-CC-LC_BU				1.18	545.10	413.89	417.15		417.18	0.000881	0.85	880.71	1364.67	0.25	77.47
Reach 1	38155	5_BU				1.50	290.80	413.94	415.97	415.74	416.22	0.003668	2.39	195.91	409.83	0.62	85.16
Reach 1	38155	1_BU				1.70	363.60	413.94	416.18	416.00	416.40	0.003031	2.35	297.89	589.59	0.58	76.21
Reach 1	38155	0p5_BU				1.76	389.40	413.94	416.25	416.06	416.45	0.002842	2.33	339.06	658.08	0.56	73.34
Reach 1	38155	0p5-CC-LC_BU				2.07	545.10	413.94	416.57		416.72	0.002045	2.20	577.66	923.21	0.49	58.56
Reach 1	37333	5_BU				1.97	290.80	411.14	413.98		414.18	0.001838	2.03	162.39	147.21	0.46	97.40
Reach 1	37333	1_BU				2.14	363.60	411.14	414.16		414.41	0.002097	2.29	193.70	206.09	0.50	95.78
Reach 1	37333	0p5_BU				2.19	389.40	411.14	414.21		414.48	0.002200	2.38	204.03	216.08	0.51	95.12
Reach 1	37333	0p5-CC-LC_BU				2.42	545.10	411.14	414.43	413.86	414.83	0.002893	2.91	260.90	288.77	0.60	91.88
Reach 1	36316	5_BU				1.61	290.80	409.47	411.96	411.57	412.13	0.002447	2.05	234.55	523.28	0.52	79.39
Reach 1	36316	1_BU				1.70	363.60	409.47	412.13	411.80	412.29	0.002335	2.07	339.93	712.35	0.51	71.16
Reach 1	36316	0p5_BU				1.74	389.40	409.47	412.17		412.33	0.002298	2.09	371.42	742.01	0.51	68.69
Reach 1	36316	0p5-CC-LC_BU				1.96	545.10	409.47	412.41		412.55	0.002050	2.14	565.26	901.25	0.49	57.14
Reach 1	34806	5_BU				1.37	290.80	406.69	408.63		408.76	0.002135	1.72	201.64	182.57	0.47	89.52
Reach 1	34806	1_BU				1.54	363.60	406.69	408.81		408.97	0.002203	1.89	235.91	195.52	0.49	89.16
Reach 1	34806	0p5_BU				1.60	389.40	406.69	408.86		409.04	0.002219	1.94	247.23	198.71	0.49	88.67
Reach 1	34806	0p5-CC-LC_BU				1.88	545.10	406.69	409.18		409.40	0.002331	2.21	311.80	218.53	0.51	86.43
Reach 1	33067	5_BU				1.28	290.80	401.87	404.17	403.67	404.37	0.003085	1.98	147.41	118.96	0.56	99.97
Reach 1	33067	1_BU				1.48	363.60	401.87	404.38	403.86	404.61	0.002932	2.12	173.19	130.78	0.56	99.85
Reach 1	33067	0p5_BU				1.54	389.40	401.87	404.45	403.92	404.69	0.002891	2.17	182.11	155.91	0.56	99.77
Reach 1	33067	0p5-CC-LC_BU				1.92	545.10	401.87	404.83	404.22	405.12	0.002649	2.40	247.57	382.55	0.55	98.64
Reach 1	32800	5_BU				1.52	290.80	401.32	403.49	402.90	403.67	0.002219	1.88	154.88	239.36	0.49	100.00
Reach 1	32800	1_BU				1.73	363.60	401.32	403.71	403.06	403.93	0.002225	2.05	177.45	273.89	0.50	100.00
Reach 1	32800	0p5_BU				1.80	389.40	401.32	403.78	403.11	404.01	0.002229	2.11	184.83	289.60	0.50	100.00
Reach 1	32800	0p5-CC-LC_BU				2.18	545.10	401.32	404.17	403.40	404.47	0.002279	2.43	228.17	557.20	0.52	99.82
Reach 1	32550	5_BU				1.26	290.80	400.66	402.50	402.23	402.84	0.005302	2.57	113.98	152.21	0.73	99.84
Reach 1	32550	1_BU				1.36	363.60	400.66	402.66	402.43	403.07	0.005589	2.84	129.57	179.81	0.78	99.59
Reach 1	32550	0p5_BU				1.39	389.40	400.66	402.71	402.50	403.15	0.005678	2.93	135.02	192.11	0.79	99.49
Reach 1	32550	0p5-CC-LC_BU				1.64	545.10	400.66	402.99	402.85	403.56	0.006127	3.38	167.97	300.80	0.84	98.50
Reach 1	32400	5_BU				1.58	290.80	400.20	402.24	401.71	402.35	0.001660	1.67	221.26	182.99	0.42	66.96
Reach 1	32400	1_BU				1.76	363.60	400.20	402.43	401.83	402.55	0.001686	1.80	255.26	184.97	0.43	64.53
Reach 1	32400	0p5_BU				1.81	389.40	400.20	402.49	401.87	402.62	0.001697	1.85	266.47	185.95	0.44	63.85
Reach 1	32400	0p5-CC-LC_BU				2.12	545.10	400.20	402.81	402.10	402.98	0.001778	2.09	329.62	216.26	0.46	60.88
Reach 1	32250	5_BU				1.31	290.80	399.61	401.80	401.40	402.00	0.003433	2.12	161.25	163.77	0.59	80.23
Reach 1	32250	1_BU				1.46	363.60	399.61	401.98	401.54	402.20	0.003435	2.27	188.69	178.62	0.60	77.91
Reach 1	32250	0p5_BU				1.51	389.40	399.61	402.03	401.59	402.26	0.003452	2.32	198.09	186.55	0.60	77.22
Reach 1	32250	0p5-CC-LC_BU				1.78	545.10	399.61	402.33	401.92	402.61	0.003472	2.57	259.95	255.12	0.61	73.41
Reach 1	32150	5_BU				1.19	290.80	399.22	401.47	401.05	401.64	0.003328	1.96	169.41	184.02	0.57	84.50
Reach 1	32150	1_BU				1.37	363.60	399.22	401.67	401.23	401.85	0.003003	2.05	208.48	212.22	0.56	82.47
Reach 1	32150	0p5_BU				1.44	389.40	399.22	401.73	401.34	401.92	0.002895	2.07	222.40	219.43	0.55	81.55
Reach 1	32150	0p5-CC-LC_BU				1.78	545.10	399.22	402.08	401.60	402.28	0.002452	2.20	308.93	296.86	0.53	76.75
Reach 1	32000	5_BU				1.68	290.80	398.64	400.98	400.53	401.20	0.002630	2.18	159.88	147.63	0.54	87.02
Reach 1	32000	1_BU				1.88	363.60	398.64	401.20	400.72	401.44	0.002538	2.32	194.64	179.98	0.54	83.51
Reach 1	32000	0p5_BU				1.95	389.40	398.64	401.27	400.81	401.52	0.002515	2.36	207.77	195.12	0.54	82.39
Reach 1	32000	0p5-CC-LC_BU				2.32	545.10	398.64	401.66	401.12	401.92	0.002344	2.56	305.75	296.10	0.54	76.30
Reach 1	31850	5_BU				1.59	290.80	398.07	400.43	400.12	400.73	0.003690	2.50	133.22	122.53	0.63	91.60
Reach 1	31850	1_BU				1.72	363.60	398.07	400.59	400.31	400.95	0.004174	2.79	153.89	150.35	0.68	89.63
Reach 1	31850	0p5_BU				1.76	389.40	398.07	400.63	400.38	401.02	0.004321	2.88	161.30	154.87	0.70	88.88
Reach 1	31850	0p5-CC-LC_BU				1.95	545.10	398.07	400.88	400.77	401.39	0.005217	3.40	205.77	217.32	0.78	85.48
Reach 1	31700	5_BU				1.39	290.80	397.52	400.25	399.45	400.34	0.001320	1.37	246.24	267.26	0.37	86.74
Reach 1	31700	1_BU				1.51	363.60	397.52	400.40	399.59	400.51	0.001421	1.52	286.73	308.82	0.39	85.15
Reach 1	31700	0p5_BU				1.55	389.40	397.52	400.45	399.64	400.56	0.001462	1.57	299.96	320.41	0.40	84.69
Reach 1	31700	0p5-CC-LC_BU				1.77	545.10	397.52	400.69	399.93	400.84	0.001682	1.83	374.94	391.65	0.44	81.88
Reach 1	31597	5_BU				0.92	290.80	397.42	400.05	399.59	400.14	0.002506	1.42	235.52	326.55	0.47	74.31
Reach 1	31597	1_BU				1.01	363.60	397.42	400.21	399.70	400.30	0.002423	1.49	289.03	379.21	0.47	72.89
Reach 1	31597	0p5_BU				1.04	389.40	397.42	400.25	399.72	400.35	0.002396	1.51	307.26	399.15	0.47	72.44
Reach 1	31597	0p5-CC-LC_BU				1.25	545.10	397.42	400.49	399.95	400.60	0.002349	1.69	408.41	450.78	0.48	71.28
Reach 1	31500	5_BU				0.78	290.80	398.07	399.86	399.39	399.96	0.002083	1.17	233.01	292.38	0.42	28.63
Reach 1	31500	1_BU				0.88	363.60	398.07	400.00	399.53	400.12	0.002171	1.29	279.31	339.48	0.44	30.07
Reach 1	31500	0p5_BU				0.92	389.40	398.07	400.05	399.58	400.17	0.002194	1.34	295.18	354.10	0.45	30.67
Reach 1	31500	0p5-CC-LC_BU				1.15	545.10	398.07	400.29	399.81	400.42	0.002254	1.57	388.19	427.14	0.47	32.57
Reach 1	31400	5_BU				0.76	290.80	397.82	399.63	399.31	399.78	0.003235	1.39	208.92	300.13	0.51	34.05
Reach 1	31400	1_BU				0.90	363.60	397.82	399.78	399.50	399.93	0.003148	1.49	257.27	350.22	0.50	35.24
Reach 1	31400	0p5_BU				0.94	389.40	397.82	399.83	399.54	399.98	0.003156	1.53	273.08	363.11	0.50	35.42
Reach 1	31400	0p5-CC-LC_BU				1.15	545.10	397.82	400.06	399.75	400.22	0.003275	1.77	368.15	496.94	0.53	36.56
Reach 1	31350	5_BU				0.86	290.80	397.71	399.57	399.10	399.67	0.002272	1.30	241.31	292.39	0.45	39.11
Reach 1	31350	1_BU				0.98	363.60	397.71	399.72	399.25	399.83	0.002271	1.42	286.82	341.85	0.46	40.16
Reach 1	31350	0p5_BU				1.02	389.40	397.71	399.76	399.29	399.87	0.002302	1.47	301.60	360.14	0.46	40.47
Reach 1	31350	0p5-CC-LC_BU				1.23	545.10	397.71	399.98	399.51	400.12	0.002510	1.73	396.98	539.59	0.50	41.54
Reach 1	31300	5_BU				0.80	290.80	397.60	399.41	399.11	399.56	0.003833	1.62	201.57	281.10	0.58	39.00
Reach 1	31300	1_BU				0.81	363.60	397.60	399.56	399.28	399.72	0.003778	1.62	249.77	353.38	0.57	37.78
Reach 1	31300	0p5_BU				0.85	389.40	397.60	399.61	399.32	399.77	0.003707	1.65	266.05	369.11	0.57	38.09
Reach 1	31300	0p5-CC-LC_BU				1.05	545.10	397.60	399.84	399.57	400.01	0.003519	1.86	365.81	526.64	0.58	39.01
Reach 1	31250	5_BU				0.89	290.80	397.53	399.33	398.88	399.43	0.002294	1.36	245.07	340.96	0.46	44.27
Reach 1	31250	1_BU				0.94	363.60	397.53	399.49	399.00	399.59	0.002229	1.41	307.79	460.73	0.46	43.53
Reach 1	31250	0p5_BU				0.98	389.40	397.53	399.54	399.04	399.64	0.002205	1.43	330.34	489.06	0.46	43.50
Reach 1	31250	0p5-CC-LC_BU				1.22	545.10	397.53	399.78	399.30	399.88	0.002139	1.58	465.87	629.21	0.46	42.77
Reach 1	31200	5_BU				1.33	290.80	397.38	399.24	398.63	399.33	0.001518	1.47	254.08	325.28	0.41	56.44
Reach 1	31200	1_BU				1.44	363.60	397.38	399.39	398.78	399.49	0.001553	1.58	310.79	424.91	0.42	54.11
Reach 1	31200	0p5_BU				1.48	389.40	397.38	399.43	398.82	399.54	0.001583	1.62	330.42	458.85	0.42	53.45
Reach 1	31200	0p5-CC-LC_BU				1.70	545.10	397.38	399.66	399.06	399.78	0.001726	1.82	450.87	616.40	0.45	49.44

HEC-RAS Plan: KR_Jam_5850 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan (m)	Ice Thick Chan (m)	Ice Top Chan (m)	Hydr Depth C (m)	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl	Q Perc Chan
Reach 1	31150	5_BU				1.04	290.80	397.22	399.14	398.64	399.21	0.001741	1.33	257.24	326.91	0.42	52.41
Reach 1	31150	1_BU				1.15	363.60	397.22	399.30	398.77	399.38	0.001641	1.39	321.59	483.50	0.42	50.88
Reach 1	31150	0p5_BU				1.18	389.40	397.22	399.34	398.80	399.42	0.001641	1.42	344.27	532.59	0.42	50.42
Reach 1	31150	0p5-CC-LC_BU				1.40	545.10	397.22	399.56	398.97	399.65	0.001672	1.58	476.07	652.08	0.43	47.47
Reach 1	31100	5_BU				0.99	290.80	397.05	398.70	398.44	398.89	0.004251	1.95	166.74	233.61	0.63	40.59
Reach 1	31100	1_BU				1.06	363.60	397.05	398.85	398.58	399.05	0.004369	2.07	210.37	341.55	0.64	39.98
Reach 1	31100	0p5_BU				1.08	389.40	397.05	398.90	398.64	399.10	0.004300	2.09	228.54	385.70	0.64	39.39
Reach 1	31100	0p5-CC-LC_BU				1.22	545.10	397.05	399.15	398.97	399.33	0.004043	2.20	344.36	565.57	0.63	36.81
Reach 1	31050	5_BU				0.97	290.80	396.94	398.59	398.23	398.71	0.003218	1.68	210.21	326.75	0.54	34.84
Reach 1	31050	1_BU				1.02	363.60	396.94	398.77	398.38	398.88	0.002926	1.70	276.50	455.86	0.54	33.42
Reach 1	31050	0p5_BU				1.03	389.40	396.94	398.82	398.43	398.93	0.002839	1.69	302.51	494.89	0.53	32.78
Reach 1	31050	0p5-CC-LC_BU				1.20	545.10	396.94	399.08	398.66	399.18	0.002458	1.75	448.04	624.49	0.51	30.76
Reach 1	31011	5_BU				1.05	290.80	396.85	398.45	397.94	398.53	0.002083	1.42	228.66	256.32	0.44	31.12
Reach 1	31011	1_BU				1.11	363.60	396.85	398.62	398.07	398.71	0.002190	1.52	278.90	338.29	0.46	31.04
Reach 1	31011	0p5_BU				1.13	389.40	396.85	398.67	398.10	398.76	0.002193	1.54	297.78	362.23	0.46	30.82
Reach 1	31011	0p5-CC-LC_BU				1.33	545.10	396.85	398.93	398.30	399.03	0.002015	1.64	406.26	484.58	0.45	29.22
Reach 1	30950	5_BU				0.97	290.80	396.52	398.25	397.77	398.33	0.001794	1.26	231.49	266.14	0.41	38.07
Reach 1	30950	1_BU				1.12	363.60	396.52	398.41	397.87	398.50	0.001755	1.36	278.52	309.57	0.41	38.62
Reach 1	30950	0p5_BU				1.16	389.40	396.52	398.46	397.91	398.56	0.001774	1.41	295.17	327.39	0.42	38.94
Reach 1	30950	0p5-CC-LC_BU				1.39	545.10	396.52	398.72	398.09	398.83	0.001880	1.63	390.43	406.78	0.44	39.58
Reach 1	30850	5_BU				0.79	290.80	395.91	398.09	397.56	398.16	0.002221	1.21	243.81	299.81	0.44	83.68
Reach 1	30850	1_BU				0.85	363.60	395.91	398.27	397.67	398.34	0.002048	1.22	301.50	348.46	0.42	84.05
Reach 1	30850	0p5_BU				0.88	389.40	395.91	398.32	397.71	398.39	0.001994	1.24	320.52	360.29	0.42	84.26
Reach 1	30850	0p5-CC-LC_BU				1.06	545.10	395.91	398.58	397.92	398.67	0.001840	1.34	427.59	445.43	0.42	86.28
Reach 1	30750	5_BU				0.90	290.80	395.77	397.74	397.37	397.90	0.004050	1.79	164.36	184.96	0.60	71.54
Reach 1	30750	1_BU				0.89	363.60	395.77	397.92	397.55	398.09	0.004136	1.79	201.00	223.13	0.61	70.17
Reach 1	30750	0p5_BU				0.90	389.40	395.77	397.98	397.60	398.15	0.004135	1.80	214.43	241.83	0.61	69.93
Reach 1	30750	0p5-CC-LC_BU				1.04	545.10	395.77	398.27	397.85	398.44	0.003805	1.90	305.91	391.15	0.59	71.76
Reach 1	30650	5_BU				1.18	290.80	395.40	397.49	396.94	397.62	0.002465	1.67	194.99	221.56	0.49	83.41
Reach 1	30650	1_BU				1.28	363.60	395.40	397.68	397.11	397.82	0.002400	1.74	239.44	254.17	0.49	81.09
Reach 1	30650	0p5_BU				1.32	389.40	395.40	397.74	397.16	397.88	0.002357	1.76	255.24	268.13	0.49	80.31
Reach 1	30650	0p5-CC-LC_BU				1.60	545.10	395.40	398.03	397.45	398.19	0.002214	1.95	357.35	439.55	0.49	77.42
Reach 1	30396	5_BU				1.66	290.80	394.21	396.80	396.46	397.02	0.002645	2.21	172.68	188.02	0.55	84.13
Reach 1	30396	1_BU				1.82	363.60	394.21	397.01	396.63	397.23	0.002568	2.31	213.96	220.11	0.55	79.47
Reach 1	30396	0p5_BU				1.89	389.40	394.21	397.08	396.70	397.31	0.002524	2.34	231.02	247.24	0.54	78.03
Reach 1	30396	0p5-CC-LC_BU				2.22	545.10	394.21	397.44	396.98	397.67	0.002348	2.48	343.72	380.74	0.53	70.40
Reach 1	30150	5_BU				1.58	290.80	393.70	396.10	395.64	396.34	0.003033	2.26	148.74	149.69	0.57	92.47
Reach 1	30150	1_BU				1.74	363.60	393.70	396.26	395.91	396.55	0.003242	2.49	174.86	170.30	0.60	89.98
Reach 1	30150	0p5_BU				1.79	389.40	393.70	396.31	395.97	396.62	0.003340	2.58	184.11	178.66	0.61	89.64
Reach 1	30150	0p5-CC-LC_BU				2.09	545.10	393.70	396.61	396.32	396.99	0.003592	2.96	244.33	237.39	0.65	85.36
Reach 1	29887	5_BU				1.03	290.80	393.58	395.39	394.94	395.51	0.002743	1.61	186.54	186.83	0.51	93.32
Reach 1	29887	1_BU				1.18	363.60	393.58	395.55	395.06	395.70	0.002643	1.72	218.27	196.00	0.51	92.95
Reach 1	29887	0p5_BU				1.23	389.40	393.58	395.60	395.11	395.76	0.002622	1.77	228.56	197.08	0.51	92.83
Reach 1	29887	0p5-CC-LC_BU				1.51	545.10	393.58	395.90	395.35	396.09	0.002549	1.98	287.57	206.61	0.51	92.17
Reach 1	29585	5_BU				1.06	290.80	392.36	394.38	394.02	394.56	0.003708	1.90	152.99	148.27	0.59	99.97
Reach 1	29585	1_BU				1.16	363.60	392.36	394.54	394.16	394.75	0.003795	2.05	178.19	158.79	0.61	99.84
Reach 1	29585	0p5_BU				1.21	389.40	392.36	394.59	394.20	394.81	0.003817	2.11	185.94	160.12	0.61	99.79
Reach 1	29585	0p5-CC-LC_BU				1.43	545.10	392.36	394.88	394.48	395.16	0.003775	2.35	234.95	170.80	0.63	99.42
Reach 1	29234	5_BU				1.19	290.80	391.76	393.33	392.89	393.48	0.002557	1.71	174.72	166.81	0.50	99.33
Reach 1	29234	1_BU				1.37	363.60	391.76	393.52	393.02	393.69	0.002432	1.84	206.79	175.25	0.50	98.80
Reach 1	29234	0p5_BU				1.44	389.40	391.76	393.58	393.06	393.76	0.002400	1.88	217.64	177.22	0.50	98.59
Reach 1	29234	0p5-CC-LC_BU				1.77	545.10	391.76	393.92	393.30	394.14	0.002290	2.11	280.91	203.76	0.51	97.62
Reach 1	28752	5_BU				1.40	290.80	389.58	392.10	391.58	392.25	0.002521	1.77	181.42	168.69	0.48	95.80
Reach 1	28752	1_BU				1.56	363.60	389.58	392.27	391.74	392.46	0.002664	1.95	211.99	178.58	0.50	94.78
Reach 1	28752	0p5_BU				1.62	389.40	389.58	392.33	391.79	392.53	0.002710	2.01	222.14	182.22	0.50	94.34
Reach 1	28752	0p5-CC-LC_BU				1.90	545.10	389.58	392.63	392.06	392.88	0.002952	2.30	279.45	201.07	0.53	91.84
Reach 1	27904	5_BU				1.21	290.80	387.11	389.64		389.81	0.003390	1.98	170.90	190.32	0.58	80.82
Reach 1	27904	1_BU				1.37	363.60	387.11	389.80		389.99	0.003247	2.11	203.75	204.39	0.58	78.31
Reach 1	27904	0p5_BU				1.43	389.40	387.11	389.86		390.06	0.003200	2.15	215.04	208.53	0.58	77.48
Reach 1	27904	0p5-CC-LC_BU				1.73	545.10	387.11	390.15		390.38	0.002988	2.36	288.26	296.64	0.57	73.34
Reach 1	27650	5_BU				1.24	290.80	386.21	388.61	388.26	388.83	0.003776	2.14	150.64	151.08	0.61	88.65
Reach 1	27650	1_BU				1.41	363.60	386.21	388.79	388.45	389.04	0.003687	2.30	178.10	158.42	0.62	87.18
Reach 1	27650	0p5_BU				1.47	389.40	386.21	388.85	388.49	389.11	0.003642	2.35	187.85	160.95	0.62	86.72
Reach 1	27650	0p5-CC-LC_BU				1.81	545.10	386.21	389.21	388.75	389.50	0.003283	2.55	260.03	263.35	0.61	83.66
Reach 1	27359	5_BU				1.33	290.80	385.38	387.54	387.14	387.78	0.003540	2.17	134.16	101.12	0.60	100.00
Reach 1	27359	1_BU				1.54	363.60	385.38	387.76	387.30	388.03	0.003304	2.32	157.05	103.33	0.60	100.00
Reach 1	27359	0p5_BU				1.62	389.40	385.38	387.83	387.36	388.12	0.003245	2.37	164.70	104.75	0.59	99.99
Reach 1	27359	0p5-CC-LC_BU				2.03	545.10	385.38	388.25	387.65	388.60	0.002963	2.63	209.90	115.86	0.59	99.77
Reach 1	27150	5_BU				1.76	290.80	383.59	387.01	386.21	387.21	0.002056	2.00	145.82	85.60	0.48	99.98
Reach 1	27150	1_BU				1.95	363.60	383.59	387.21	386.41	387.47	0.002246	2.24	163.45	88.80	0.51	99.90
Reach 1	27150	0p5_BU				2.02	389.40	383.59	387.28	386.49	387.55	0.002305	2.32	169.33	89.72	0.52	99.85
Reach 1	27150	0p5-CC-LC_BU				2.39	545.10	383.59	387.64	386.88	388.02	0.002571	2.74	203.33	97.32	0.57	99.48
Reach 1	26869	5_BU				1.19	290.80	383.32	385.95	385.76	386.28	0.005851	2.58	115.76	105.03	0.76	99.09
Reach 1	26869	1_BU				1.41	363.60	383.32	386.17	385.92	386.54	0.005071	2.70	139.82	108.76	0.72	98.62
Reach 1	26869	0p5_BU				1.49	389.40	383.32	386.25	385.98	386.62	0.004901	2.74	147.80	110.13	0.72	98.44
Reach 1	26869	0p5-CC-LC_BU				1.87	545.10	383.32	386.63	386.27	387.09	0.004355	3.02	191.67	116.18	0.70	97.46
Reach 1	26650	5_BU				2.06	290.80	382.27	385.62	384.53	385.75	0.001116	1.63	184.95	108.85	0.36	98.62
Reach 1	26650	1_BU				2.27	363.60	382.27	385.83	384.73	386.00	0.001253	1.85	208.28	116.04	0.39	98.01
Reach 1	26650	0p5_BU				2.34	389.40	382.27	385.89	384.80	386.08	0.001299	1.92	216.04	117.45	0.40	97.79
Reach 1	26650	0p5-CC-LC_BU				2.69	545.10	382.27	386.24	385.17	386.51	0.001557	2.30	263.14	161.27	0.45	96.53
Reach 1	26500	5_BU				2.02	290.80	382.41	385.47	384.32	385.59	0.001068	1.57	199.61	118.76	0.35	97.11
Reach 1	26500	1_BU				2.20	363.60	382.41	385.65	384.56	385.81	0.001232	1.79	223.44	139.91	0.39	96.58
Reach 1	26500	0p5_BU				2.26	389.40	382.41	385.71	384.64	385.88	0.001288	1.86	231.85	143.68	0.40	96.36
Reach 1	26500	0p5-CC-LC_BU				2.57	545.10	382.41	386.02	384.98	386.27	0.001596	2.26	285.04	212.49	0.45	94.95
Reach 1	26363	5_BU				1.46	290.80	382.60	385.21		385.37	0.002217	1.82	190.65	202.42	0.48	94.44
Reach 1	26363	1_BU				1.62	363.60	382.60	385.37		385.56	0.002333	2.00	225.75	245.53	0.50	92.33
Reach 1	26363	0p5_BU				1.67	389.40	382.60	385.42		385.62	0.002360	2.06	239.74	274.47	0.51	91.55
Reach 1	26363	0p5-CC-LC_BU				1.96	545.10	382.60	385.71	385.21	385.96	0.002461	2.34	338.43	392.24	0.53	87.26
Reach 1	26186	5_BU				1.27	290.80	382.60	384.44	384.30	384.73	0.005572	2.64	138.54	200.60	0.75	78.27
Reach 1	26186	1_BU				1.41	363.60	382.60	384.59	384.50	384.91	0.005502	2.80	171.00	229.70	0.75	74.32
Reach 1	26186	0p5_BU				1.44	389.40	382.60	384.63	384.54	384.96	0.005568	2.87	180.96	240.98	0.76	73.17
Reach 1	26186	0p5-CC-LC_BU				1.63	545.10	382.60	384.85	384.79	385.25	0.006135	3.26	241.78	350.55	0.82	68.24
Reach 1	26100	5_BU				1.43	290.80	382.20	384.35	383.84	384.46	0.001785	1.61	218.82	266.68	0.43	52.58
Reach 1	26100	1_BU				1.52	363.60	382.20	384.51	383.98	384.63	0.001863	1.72	267.68	346.89	0.45	49.97
Reach 1	26100	0p5_BU				1.56	389.40	382.20	384.56	384.02	384.67	0.001895	1.76	283.63	360.06	0.45	49.11
Reach 1	26100	0p5-CC-LC_BU				1.71	545.10	382.20	384.77	384.26	384.92	0.002200	2.02	371.34	461.96	0.49	45.90
Reach 1	25969	5_BU				1.06	290.80	381.43	384.01	383.68	384.17	0.003714	1.91	183.13	271.43	0.59	72.64

HEC-RAS Plan: KR_Jam_5850 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	25969	1_BU				1.20	363.60	381.43	384.20	383.85	384.35	0.003150	1.91	247.06	414.87	0.56	68.88
Reach 1	25969	0p5_BU				1.24	389.40	381.43	384.25	383.95	384.40	0.003123	1.95	266.37	442.54	0.56	68.00
Reach 1	25969	0p5-CC-LC_BU				1.47	545.10	381.43	384.49	384.16	384.64	0.002691	2.02	384.52	525.05	0.53	60.43
Reach 1	25849	5_BU				1.47	290.80	380.61	383.22	383.14	383.66	0.006096	3.04	109.19	114.49	0.80	89.89
Reach 1	25849	1_BU				1.57	363.60	380.61	383.43	383.39	383.89	0.006150	3.19	137.99	159.38	0.81	86.39
Reach 1	25849	0p5_BU				1.60	389.40	380.61	383.50	383.49	383.95	0.005963	3.18	149.97	170.85	0.80	84.34
Reach 1	25849	0p5-CC-LC_BU				1.75	545.10	380.61	383.82	383.80	384.27	0.005659	3.29	215.39	255.25	0.79	75.34
Reach 1	25750	5_BU				1.68	290.80	379.67	383.13	382.59	383.28	0.001855	1.90	204.16	215.40	0.47	82.34
Reach 1	25750	1_BU				1.75	363.60	379.67	383.37	382.79	383.52	0.001721	1.92	266.43	302.58	0.46	76.74
Reach 1	25750	0p5_BU				1.80	389.40	379.67	383.45	382.84	383.60	0.001686	1.92	291.44	350.73	0.46	75.13
Reach 1	25750	0p5-CC-LC_BU				2.12	545.10	379.67	383.82	383.09	383.95	0.001449	1.95	459.90	547.44	0.43	65.55
Reach 1	25700	5_BU				2.04	290.80	379.24	382.84	382.01	383.15	0.002751	2.52	130.86	141.75	0.56	95.98
Reach 1	25700	1_BU				2.15	363.60	379.24	383.05	382.34	383.39	0.002957	2.70	163.50	173.70	0.59	91.04
Reach 1	25700	0p5_BU				2.21	389.40	379.24	383.12	382.55	383.47	0.002939	2.75	176.17	187.98	0.59	89.28
Reach 1	25700	0p5-CC-LC_BU				2.52	545.10	379.24	383.45	383.26	383.83	0.002929	2.99	251.31	269.96	0.60	79.86
Reach 1	25650	5_BU				2.27	290.80	379.37	382.84	381.72	383.02	0.001474	1.99	180.63	202.08	0.42	90.34
Reach 1	25650	1_BU				2.36	363.60	379.37	383.07	381.99	383.25	0.001512	2.07	235.53	279.42	0.43	82.98
Reach 1	25650	0p5_BU				2.36	389.40	379.37	383.15	382.10	383.33	0.001520	2.07	258.39	300.83	0.43	80.21
Reach 1	25650	0p5-CC-LC_BU				2.64	545.10	379.37	383.53	382.97	383.69	0.001314	2.07	382.70	352.01	0.41	66.96
Reach 1	25600	5_BU				2.15	290.80	379.47	382.73	381.76	382.94	0.001797	2.12	164.31	159.32	0.46	89.93
Reach 1	25600	1_BU				2.19	363.60	379.47	382.94	382.19	383.17	0.002016	2.27	200.26	194.66	0.49	84.75
Reach 1	25600	0p5_BU				2.21	389.40	379.47	383.01	382.32	383.25	0.002049	2.30	214.72	209.74	0.50	82.94
Reach 1	25600	0p5-CC-LC_BU				2.53	545.10	379.47	383.36	382.89	383.61	0.002047	2.52	303.82	304.77	0.51	74.84
Reach 1	25550	5_BU				1.75	290.80	379.57	382.76	382.08	382.85	0.001197	1.51	297.50	340.41	0.37	70.01
Reach 1	25550	1_BU				1.97	363.60	379.57	382.99	382.32	383.07	0.001045	1.53	378.98	382.31	0.35	64.04
Reach 1	25550	0p5_BU				2.04	389.40	379.57	383.06	382.46	383.15	0.000992	1.53	408.79	394.04	0.34	62.09
Reach 1	25550	0p5-CC-LC_BU				2.41	545.10	379.57	383.43	382.64	383.52	0.000893	1.62	564.13	460.89	0.33	55.28
Reach 1	25500	5_BU				1.84	290.80	379.67	382.62	381.71	382.77	0.001612	1.82	176.30	136.72	0.43	90.15
Reach 1	25500	1_BU				2.02	363.60	379.67	382.82	382.05	383.00	0.001713	1.99	204.97	150.79	0.45	87.48
Reach 1	25500	0p5_BU				2.08	389.40	379.67	382.88	382.16	383.08	0.001722	2.04	215.47	154.92	0.45	86.49
Reach 1	25500	0p5-CC-LC_BU				2.37	545.10	379.67	383.18	382.51	383.44	0.002027	2.41	268.28	199.68	0.50	83.45
Reach 1	25458	5_BU				1.31	290.80	379.86	382.43	382.17	382.66	0.003940	2.26	142.92	138.20	0.63	78.51
Reach 1	25458	1_BU				1.44	363.60	379.86	382.65	382.32	382.88	0.003585	2.29	174.71	154.29	0.61	74.64
Reach 1	25458	0p5_BU				1.45	389.40	379.86	382.73	382.37	382.96	0.003497	2.27	187.71	173.04	0.60	73.18
Reach 1	25458	0p5-CC-LC_BU				1.74	545.10	379.86	383.06	382.63	383.32	0.003224	2.45	257.78	242.41	0.59	69.47
Reach 1	25400	5_BU				1.66	290.80	379.62	382.24	381.85	382.46	0.002814	2.24	147.71	119.65	0.56	75.05
Reach 1	25400	1_BU				1.79	363.60	379.62	382.46	382.02	382.70	0.002836	2.36	175.03	133.97	0.56	71.54
Reach 1	25400	0p5_BU				1.79	389.40	379.62	382.52	382.09	382.77	0.002962	2.41	183.67	143.52	0.58	70.72
Reach 1	25400	0p5-CC-LC_BU				1.91	545.10	379.62	382.84	382.38	383.13	0.003170	2.61	246.24	241.43	0.60	65.42
Reach 1	25350	5_BU				1.79	290.80	379.52	382.12	381.57	382.29	0.002029	2.00	172.48	147.10	0.48	76.05
Reach 1	25350	1_BU				1.79	363.60	379.52	382.33	381.75	382.51	0.002221	2.09	204.77	171.33	0.50	71.58
Reach 1	25350	0p5_BU				1.84	389.40	379.52	382.38	381.82	382.58	0.002281	2.16	214.89	189.97	0.51	71.09
Reach 1	25350	0p5-CC-LC_BU				2.15	545.10	379.52	382.70	382.18	382.93	0.002294	2.40	285.05	248.00	0.52	66.10
Reach 1	25300	5_BU				1.19	290.80	379.41	382.04	381.37	382.15	0.001984	1.49	197.32	174.06	0.44	99.76
Reach 1	25300	1_BU				1.16	363.60	379.41	382.22	381.53	382.35	0.002342	1.59	232.35	209.83	0.47	99.53
Reach 1	25300	0p5_BU				1.18	389.40	379.41	382.27	381.58	382.41	0.002370	1.62	244.26	215.88	0.48	99.46
Reach 1	25300	0p5-CC-LC_BU				1.30	545.10	379.41	382.59	381.83	382.74	0.002415	1.74	321.20	257.64	0.49	99.01
Reach 1	25250	5_BU				1.11	290.80	379.31	381.97	381.24	382.05	0.001627	1.29	228.58	213.12	0.39	99.66
Reach 1	25250	1_BU				1.28	363.60	379.31	382.15	381.45	382.24	0.001565	1.38	267.92	225.28	0.39	99.48
Reach 1	25250	0p5_BU				1.33	389.40	379.31	382.20	381.51	382.30	0.001553	1.41	280.59	226.66	0.39	99.41
Reach 1	25250	0p5-CC-LC_BU				1.64	545.10	379.31	382.52	381.75	382.64	0.001490	1.60	353.35	246.98	0.40	98.93
Reach 1	25169	5_BU				1.09	290.80	379.70	381.71	381.15	381.87	0.003048	1.76	169.38	157.89	0.54	98.48
Reach 1	25169	1_BU				1.18	363.60	379.70	381.88	381.33	382.06	0.003215	1.90	196.77	169.84	0.56	98.32
Reach 1	25169	0p5_BU				1.23	389.40	379.70	381.93	381.38	382.12	0.003211	1.94	205.67	170.74	0.56	98.30
Reach 1	25169	0p5-CC-LC_BU				1.51	545.10	379.70	382.23	381.73	382.47	0.003104	2.18	262.42	210.25	0.57	98.06
Reach 1	25100	5_BU				1.22	290.80	378.81	381.54	381.04	381.68	0.002378	1.66	181.33	213.67	0.48	97.23
Reach 1	25100	1_BU				1.36	363.60	378.81	381.69	381.19	381.86	0.002558	1.85	203.72	217.45	0.51	97.17
Reach 1	25100	0p5_BU				1.41	389.40	378.81	381.74	381.23	381.92	0.002621	1.92	211.01	218.66	0.52	97.15
Reach 1	25100	0p5-CC-LC_BU				1.68	545.10	378.81	382.01	381.46	382.26	0.002880	2.25	252.85	241.99	0.55	97.05
Reach 1	24950	5_BU				0.92	290.80	378.16	380.88	380.71	381.13	0.006355	2.28	138.26	169.65	0.76	95.91
Reach 1	24950	1_BU				1.10	363.60	378.16	381.08	380.85	381.34	0.005190	2.32	173.77	184.29	0.70	94.94
Reach 1	24950	0p5_BU				1.17	389.40	378.16	381.14	380.89	381.41	0.004897	2.33	185.97	189.18	0.69	94.52
Reach 1	24950	0p5-CC-LC_BU				1.50	545.10	378.16	381.49	381.14	381.78	0.003905	2.46	254.63	222.32	0.64	92.54
Reach 1	24800	5_BU				1.60	290.80	377.37	380.57	379.81	380.69	0.001533	1.58	190.15	132.16	0.40	99.04
Reach 1	24800	1_BU				1.79	363.60	377.37	380.77	379.96	380.92	0.001610	1.75	217.69	143.63	0.42	98.68
Reach 1	24800	0p5_BU				1.86	389.40	377.37	380.83	380.02	381.00	0.001632	1.80	227.38	148.82	0.42	98.51
Reach 1	24800	0p5-CC-LC_BU				2.19	545.10	377.37	381.17	380.30	381.39	0.001804	2.11	283.21	185.34	0.46	97.40
Reach 1	24693	5_BU				0.92	290.80	377.15	379.85	379.85	380.31	0.011123	2.99	97.86	109.68	1.00	99.87
Reach 1	24693	1_BU				1.07	363.60	377.15	380.01	380.01	380.53	0.010483	3.20	114.62	110.88	0.99	99.73
Reach 1	24693	0p5_BU				1.12	389.40	377.15	380.06	380.06	380.60	0.010275	3.27	120.40	111.29	0.99	99.69
Reach 1	24693	0p5-CC-LC_BU				1.62	545.10	377.15	380.57	380.34	381.05	0.005620	3.10	186.09	148.90	0.78	98.59
Reach 1	24600	5_BU				2.57	290.80	376.10	379.65	378.04	379.77	0.000770	1.57	186.26	77.20	0.31	99.97
Reach 1	24600	1_BU				2.83	363.60	376.10	379.96	378.27	380.11	0.000840	1.74	211.47	88.64	0.33	99.80
Reach 1	24600	0p5_BU				2.93	389.40	376.10	380.06	378.36	380.22	0.000858	1.80	220.69	98.74	0.34	99.69
Reach 1	24600	0p5-CC-LC_BU				3.45	545.10	376.10	380.58	378.80	380.80	0.000928	2.09	289.35	147.03	0.36	97.60
Reach 1	24500	5_BU				2.32	290.80	375.69	379.51	378.27	379.67	0.001183	1.81	164.43	84.27	0.38	99.25
Reach 1	24500	1_BU				2.58	363.60	375.69	379.81	378.53	380.01	0.001235	1.99	191.77	96.25	0.39	98.30
Reach 1	24500	0p5_BU				2.67	389.40	375.69	379.91	378.60	380.11	0.001249	2.04	201.25	98.49	0.40	97.94
Reach 1	24500	0p5-CC-LC_BU				3.17	545.10	375.69	380.42	379.03	380.69	0.001305	2.34	260.26	136.36	0.42	95.60
Reach 1	24400	5_BU				2.23	290.80	375.71	379.24	378.32	379.51	0.002067	2.32	126.02	63.01	0.50	99.96
Reach 1	24400	1_BU				2.43	363.60	375.71	379.48	378.58	379.82	0.002382	2.60	142.42	69.92	0.53	99.63
Reach 1	24400	0p5_BU				2.49	389.40	375.71	379.56	378.66	379.93	0.002468	2.69	148.04	71.77	0.54	99.47
Reach 1	24400	0p5-CC-LC_BU				2.83	545.10	375.71	379.97	379.12	380.48	0.002913	3.20	178.94	86.26	0.61	98.35
Reach 1	24350	5_BU				2.29	290.80	375.54	379.18	378.09	379.40	0.001817	2.08	141.19	67.13	0.44	99.81
Reach 1	24350	1_BU				2.47	363.60	375.54	379.42	378.34	379.70	0.002122	2.34	158.94	80.82	0.48	99.42
Reach 1	24350	0p5_BU				2.52	389.40	375.54	379.50	378.41	379.80	0.002222	2.42	165.49	87.12	0.49	99.24
Reach 1	24350	0p5-CC-LC_BU				2.91	545.10	375.54	379.91	378.87	380.32	0.002589	2.87	206.77	116.82	0.54	97.66
Reach 1	24300	5_BU				2.20	290.80	375.93	379.12	378.07	379.31	0.001463	1.94	150.46	75.09	0.42	99.92
Reach 1	24300	1_BU				2.39	363.60	375.93	379.35	378.30	379.59	0.001671	2.19	168.53	82.28	0.45	99.67
Reach 1	24300	0p5_BU				2.44	389.40	375.93	379.42	378.37	379.69	0.001741	2.27	174.85	86.53	0.46	99.56
Reach 1	24300	0p5-CC-LC_BU				2.79	545.10	375.93	379.82	378.78	380.19	0.002067	2.70	214.28	111.96	0.52	98.52
Reach 1	24250	5_BU				2.22	290.80	376.30	379.08	377.96	379.23	0.001133	1.72	173.78	92.13	0.37	99.09
Reach 1	24250	1_BU				2.44	363.60	376.30	379.32	378.16	379.50	0.001266	1.94	196.30	101.16	0.40	98.43
Reach 1	24250	0p5_BU				2.52	389.40	376.30	379.39	378.23	379.59	0.001306	2.01	204.05	103.10	0.40	98.16
Reach 1	24250	0p5-CC-LC_BU				2.91	545.10	376.30	379.80	378.61	380.08	0.001516	2.38	252.69	153.48	0.45	96.65
Reach 1	24200	5_BU				1.92	290.80	376.73	379.00	378.13	379.17	0.001491	1.80	166.58	98.16	0.41	98.92
Reach 1	24200	1_BU				2.12	363.60	376.73	379.23	378.31	379.43	0.001603	1.99	189.60	102.93	0.44	98.26
Reach 1	24200	0p5_BU				2.20	389.40	376.73	379.31	378.37	379.52	0.001634	2.06	197.42	106.93	0.44	98.04

HEC-RAS Plan: KR_Jam_5850 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	24200	0p5-CC-LC_BU				2.60	545.10	376.73	379.71	378.74	380.00	0.001771	2.39	247.88	158.75	0.47	96.49
Reach 1	24150	5_BU				1.65	290.80	376.70	378.87	378.23	379.07	0.002248	2.00	147.33	95.95	0.50	99.58
Reach 1	24150	1_BU				1.87	363.60	376.70	379.09	378.42	379.33	0.002312	2.20	168.64	98.94	0.51	99.17
Reach 1	24150	0p5_BU				1.94	389.40	376.70	379.16	378.47	379.42	0.002333	2.26	175.78	101.03	0.52	99.03
Reach 1	24150	0p5-CC-LC_BU				2.32	545.10	376.70	379.55	378.81	379.89	0.002434	2.61	221.21	137.46	0.55	97.90
Reach 1	24100	5_BU				1.73	290.80	376.59	378.75	378.09	378.96	0.002236	2.05	144.33	93.93	0.50	99.46
Reach 1	24100	1_BU				1.93	363.60	376.59	378.96	378.27	379.22	0.002376	2.28	164.09	99.11	0.52	98.87
Reach 1	24100	0p5_BU				2.00	389.40	376.59	379.02	378.33	379.30	0.002420	2.35	170.87	101.93	0.53	98.65
Reach 1	24100	0p5-CC-LC_BU				2.36	545.10	376.59	379.39	378.71	379.76	0.002641	2.75	211.60	130.45	0.57	97.28
Reach 1	24050	5_BU				1.78	290.80	376.51	378.65	377.94	378.85	0.002068	2.02	146.22	154.30	0.48	99.68
Reach 1	24050	1_BU				1.97	363.60	376.51	378.84	378.13	379.10	0.002266	2.26	165.28	165.48	0.51	99.17
Reach 1	24050	0p5_BU				2.04	389.40	376.51	378.91	378.19	379.18	0.002327	2.34	172.02	171.76	0.52	98.96
Reach 1	24050	0p5-CC-LC_BU				2.39	545.10	376.51	379.25	378.55	379.63	0.002608	2.75	211.67	193.18	0.57	97.41
Reach 1	24000	5_BU				1.80	290.80	376.41	378.55	377.83	378.75	0.002004	1.99	146.70	119.15	0.47	99.96
Reach 1	24000	1_BU				1.97	363.60	376.41	378.73	378.00	378.99	0.002282	2.25	163.94	128.24	0.51	99.63
Reach 1	24000	0p5_BU				2.03	389.40	376.41	378.79	378.07	379.07	0.002379	2.34	169.70	133.86	0.53	99.51
Reach 1	24000	0p5-CC-LC_BU				2.32	545.10	376.41	379.10	378.41	379.49	0.002862	2.81	205.24	189.62	0.59	98.42
Reach 1	23950	5_BU				1.70	290.80	376.45	378.45	377.80	378.64	0.002072	1.95	158.09	149.75	0.48	97.52
Reach 1	23950	1_BU				1.86	363.60	376.45	378.63	377.98	378.86	0.002311	2.19	179.52	160.16	0.51	96.43
Reach 1	23950	0p5_BU				1.92	389.40	376.45	378.68	378.05	378.94	0.002393	2.27	186.74	164.37	0.52	96.09
Reach 1	23950	0p5-CC-LC_BU				2.18	545.10	376.45	378.98	378.40	379.33	0.002851	2.70	231.22	220.12	0.58	94.43
Reach 1	23900	5_BU				1.61	290.80	376.38	378.36	377.74	378.53	0.002005	1.86	166.89	160.21	0.47	95.73
Reach 1	23900	1_BU				1.77	363.60	376.38	378.53	377.91	378.74	0.002248	2.10	188.45	181.46	0.50	95.07
Reach 1	23900	0p5_BU				1.83	389.40	376.38	378.58	377.97	378.81	0.002326	2.18	195.91	190.09	0.51	94.79
Reach 1	23900	0p5-CC-LC_BU				2.11	545.10	376.38	378.86	378.26	379.18	0.002716	2.59	246.61	271.43	0.57	93.04
Reach 1	23850	5_BU				1.54	290.80	376.45	378.27	377.67	378.43	0.002019	1.80	172.45	166.51	0.46	94.47
Reach 1	23850	1_BU				1.68	363.60	376.45	378.42	377.82	378.62	0.002297	2.04	193.09	182.82	0.50	93.77
Reach 1	23850	0p5_BU				1.72	389.40	376.45	378.47	377.87	378.68	0.002394	2.12	199.85	195.75	0.51	93.54
Reach 1	23850	0p5-CC-LC_BU				1.94	545.10	376.45	378.72	378.17	379.03	0.002982	2.56	239.04	259.78	0.59	92.87
Reach 1	23800	5_BU				1.38	290.80	376.34	378.14	377.66	378.31	0.002516	1.87	174.23	198.61	0.51	92.85
Reach 1	23800	1_BU				1.52	363.60	376.34	378.28	377.82	378.49	0.002808	2.11	196.86	217.68	0.55	91.67
Reach 1	23800	0p5_BU				1.56	389.40	376.34	378.32	377.87	378.54	0.002911	2.18	204.27	224.19	0.56	91.27
Reach 1	23800	0p5-CC-LC_BU				1.79	545.10	376.34	378.55	378.16	378.86	0.003472	2.61	245.56	274.10	0.62	89.32
Reach 1	23750	5_BU				1.12	290.80	376.43	378.03	377.61	378.15	0.002562	1.63	219.58	253.72	0.49	79.36
Reach 1	23750	1_BU				1.24	363.60	376.43	378.16	377.73	378.30	0.002786	1.82	254.08	272.79	0.52	78.90
Reach 1	23750	0p5_BU				1.28	389.40	376.43	378.21	377.77	378.36	0.002826	1.86	266.18	283.89	0.53	78.31
Reach 1	23750	0p5-CC-LC_BU				1.50	545.10	376.43	378.45	377.98	378.63	0.002976	2.09	342.61	345.85	0.55	74.87
Reach 1	23700	5_BU				0.80	290.80	376.64	377.87	377.52	377.96	0.003627	1.55	241.39	354.52	0.55	60.76
Reach 1	23700	1_BU				0.93	363.60	376.64	378.01	377.62	378.11	0.003284	1.63	293.67	393.12	0.54	60.18
Reach 1	23700	0p5_BU				0.98	389.40	376.64	378.05	377.62	378.16	0.003165	1.65	312.75	409.28	0.53	59.82
Reach 1	23700	0p5-CC-LC_BU				1.23	545.10	376.64	378.32	377.80	378.43	0.002643	1.74	441.03	574.95	0.50	57.32
Reach 1	23650	5_BU				0.83	290.80	376.40	377.63	377.35	377.74	0.003995	1.67	205.68	310.26	0.58	64.76
Reach 1	23650	1_BU				1.00	363.60	376.40	377.81	377.45	377.92	0.003320	1.71	265.26	368.14	0.55	64.64
Reach 1	23650	0p5_BU				1.05	389.40	376.40	377.86	377.47	377.98	0.003181	1.73	286.04	381.40	0.54	64.45
Reach 1	23650	0p5-CC-LC_BU				1.26	545.10	376.40	378.16	377.65	378.28	0.002676	1.77	418.72	516.32	0.50	61.09
Reach 1	23600	5_BU				0.90	290.80	375.86	377.50	377.06	377.58	0.002473	1.40	256.78	345.39	0.47	60.95
Reach 1	23600	1_BU				1.09	363.60	375.86	377.71	377.15	377.78	0.001993	1.42	332.32	384.93	0.44	61.02
Reach 1	23600	0p5_BU				1.14	389.40	375.86	377.77	377.18	377.84	0.001890	1.43	356.60	400.61	0.43	60.62
Reach 1	23600	0p5-CC-LC_BU				1.37	545.10	375.86	378.08	377.35	378.16	0.001638	1.50	495.28	481.55	0.41	58.27
Reach 1	23550	5_BU				0.95	290.80	375.45	377.39	376.96	377.47	0.002199	1.36	236.27	313.11	0.45	65.21
Reach 1	23550	1_BU				1.17	363.60	375.45	377.62	377.06	377.70	0.001695	1.37	316.38	368.59	0.41	65.69
Reach 1	23550	0p5_BU				1.23	389.40	375.45	377.69	377.10	377.77	0.001631	1.39	340.74	380.78	0.40	65.69
Reach 1	23550	0p5-CC-LC_BU				1.44	545.10	375.45	378.01	377.30	378.09	0.001478	1.47	477.28	479.60	0.39	62.85
Reach 1	23500	5_BU				1.07	290.80	375.07	377.31	376.64	377.38	0.001490	1.20	258.58	270.65	0.37	66.74
Reach 1	23500	1_BU				1.27	363.60	375.07	377.56	376.76	377.63	0.001227	1.22	336.85	351.69	0.35	67.14
Reach 1	23500	0p5_BU				1.32	389.40	375.07	377.63	376.80	377.69	0.001196	1.24	361.00	365.19	0.34	66.90
Reach 1	23500	0p5-CC-LC_BU				1.58	545.10	375.07	377.95	377.02	378.03	0.001140	1.36	489.85	444.86	0.35	65.61
Reach 1	23450	5_BU				1.17	290.80	375.14	377.26	376.42	377.32	0.001048	1.11	285.69	265.50	0.33	72.80
Reach 1	23450	1_BU				1.33	363.60	375.14	377.52	376.54	377.57	0.000933	1.13	359.74	316.14	0.31	72.67
Reach 1	23450	0p5_BU				1.38	389.40	375.14	377.58	376.57	377.64	0.000929	1.16	381.57	331.28	0.31	72.77
Reach 1	23450	0p5-CC-LC_BU				1.47	545.10	375.14	377.91	376.80	377.97	0.001052	1.24	505.98	451.06	0.33	70.01
Reach 1	23400	5_BU				1.23	290.80	375.03	377.21	376.39	377.27	0.000989	1.12	281.06	236.58	0.32	71.29
Reach 1	23400	1_BU				1.31	363.60	375.03	377.47	376.50	377.53	0.000962	1.12	347.35	283.55	0.31	70.00
Reach 1	23400	0p5_BU				1.36	389.40	375.03	377.54	376.53	377.60	0.000952	1.15	366.73	291.92	0.31	70.12
Reach 1	23400	0p5-CC-LC_BU				1.49	545.10	375.03	377.85	376.74	377.92	0.001087	1.28	466.33	368.07	0.33	69.07
Reach 1	23300	5_BU				1.32	290.80	374.20	377.06	376.25	377.16	0.001496	1.40	226.97	196.95	0.39	90.18
Reach 1	23300	1_BU				1.17	363.60	374.20	377.33	376.40	377.41	0.001676	1.37	289.93	277.45	0.40	87.64
Reach 1	23300	0p5_BU				1.21	389.40	374.20	377.40	376.45	377.48	0.001615	1.37	310.26	289.05	0.40	87.39
Reach 1	23300	0p5-CC-LC_BU				1.41	545.10	374.20	377.70	376.71	377.80	0.001624	1.52	403.73	343.56	0.41	86.74
Reach 1	23200	5_BU				1.15	290.80	374.25	376.72	376.38	376.92	0.003629	2.01	150.64	143.99	0.60	94.78
Reach 1	23200	1_BU				1.18	363.60	374.25	376.97	376.53	377.17	0.003575	2.02	188.78	178.35	0.59	93.43
Reach 1	23200	0p5_BU				1.12	389.40	374.25	377.04	376.57	377.24	0.003783	2.01	202.83	198.09	0.61	92.66
Reach 1	23200	0p5-CC-LC_BU				1.23	545.10	374.25	377.32	376.86	377.55	0.003921	2.17	265.29	256.30	0.63	91.26
Reach 1	23016	5_BU				1.26	290.80	373.81	376.26		376.39	0.002152	1.63	198.73	222.39	0.46	84.28
Reach 1	23016	1_BU				1.22	363.60	373.81	376.48		376.60	0.002346	1.67	249.67	291.08	0.48	81.90
Reach 1	23016	0p5_BU				1.24	389.40	373.81	376.54		376.66	0.002319	1.67	266.09	307.22	0.48	80.69
Reach 1	23016	0p5-CC-LC_BU				1.43	545.10	373.81	376.85		376.99	0.002114	1.76	356.72	345.38	0.47	76.40
Reach 1	22900	5_BU				1.10	290.80	373.42	375.67		375.97	0.006033	2.49	123.78	154.32	0.76	94.80
Reach 1	22900	1_BU				1.28	363.60	373.42	375.92		376.21	0.004694	2.43	163.09	199.11	0.69	92.00
Reach 1	22900	0p5_BU				1.35	389.40	373.42	376.00		376.28	0.004366	2.43	176.86	213.80	0.67	90.99
Reach 1	22900	0p5-CC-LC_BU				1.32	545.10	373.42	376.37		376.63	0.004288	2.37	266.02	335.41	0.66	83.72
Reach 1	22750	5_BU				1.31	290.80	372.99	375.22		375.38	0.002450	1.78	163.49	126.86	0.50	100.00
Reach 1	22750	1_BU				1.21	363.60	372.99	375.46		375.63	0.002868	1.83	198.58	172.22	0.53	99.99
Reach 1	22750	0p5_BU				1.17	389.40	372.99	375.55		375.72	0.002982	1.83	213.24	192.08	0.54	99.98
Reach 1	22750	0p5-CC-LC_BU				1.20	545.10	372.99	375.92		376.09	0.002921	1.84	299.14	284.67	0.54	99.31
Reach 1	22584	5_BU				1.37	290.80	372.69	374.84		374.99	0.002172	1.73	168.93	131.58	0.47	99.94
Reach 1	22584	1_BU				1.58	363.60	372.69	375.06		375.23	0.002070	1.86	198.65	149.09	0.47	99.65
Reach 1	22584	0p5_BU				1.65	389.40	372.69	375.12		375.31	0.002056	1.91	209.51	173.56	0.47	99.47
Reach 1	22584	0p5-CC-LC_BU				2.00	545.10	372.69	375.48		375.70	0.001967	2.12	288.44	284.11	0.48	95.88
Reach 1	22500	5_BU				1.54	290.80	372.35	374.65		374.82	0.002012	1.80	168.51	128.37	0.46	98.09
Reach 1	22500	1_BU				1.63	363.60	372.35	374.87		375.06	0.002087	1.95	198.45	151.08	0.49	97.15
Reach 1	22500	0p5_BU				1.68	389.40	372.35	374.93		375.13	0.002093	2.00	208.89	158.67	0.49	96.97
Reach 1	22500	0p5-CC-LC_BU				2.01	545.10	372.35	375.27		375.52	0.002177	2.27	266.76	236.70	0.51	94.50
Reach 1	22400	5_BU				1.60	290.80	372.16	374.45		374.62	0.001956	1.84	159.96	109.70	0.46	98.21
Reach 1	22400	1_BU				1.78	363.60	372.16	374.64		374.85	0.002064	2.03	181.74	134.44	0.49	97.21
Reach 1	22400	0p5_BU				1.83	389.40	372.16	374.70		374.92	0.002102	2.09	189.33	139.15	0.49	96.82
Reach 1	22400	0p5-CC-LC_BU				2.12	545.10	372.16	375.02		375.29	0.002234	2.39	247.67	327.51	0.52	92.89

HEC-RAS Plan: KR_Jam_5850 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	22300	5_BU				1.39	290.80	371.96	374.08		374.35	0.003512	2.29	130.66	118.86	0.62	98.51
Reach 1	22300	1_BU				1.49	363.60	371.96	374.23		374.56	0.003870	2.55	150.16	140.76	0.67	97.21
Reach 1	22300	0p5_BU				1.53	389.40	371.96	374.28		374.62	0.003991	2.64	156.95	150.69	0.68	96.69
Reach 1	22300	0p5-CC-LC_BU				1.73	545.10	371.96	374.50	374.36	374.96	0.004706	3.10	196.71	213.04	0.75	93.00
Reach 1	22200	5_BU				1.32	290.80	371.77	373.91		374.04	0.002049	1.67	179.57	183.13	0.46	93.08
Reach 1	22200	1_BU				1.47	363.60	371.77	374.07		374.22	0.002077	1.80	212.09	217.42	0.47	90.09
Reach 1	22200	0p5_BU				1.53	389.40	371.77	374.12		374.28	0.002057	1.83	224.26	231.27	0.47	88.80
Reach 1	22200	0p5-CC-LC_BU				1.79	545.10	371.77	374.38		374.57	0.002019	2.01	296.98	324.53	0.48	81.43
Reach 1	22094	5_BU				1.06	310.30	371.63	373.58		373.75	0.003438	1.84	170.44	201.19	0.57	92.48
Reach 1	22094	1_BU				1.18	389.90	371.63	373.74		373.93	0.003274	1.92	207.80	253.50	0.57	89.39
Reach 1	22094	0p5_BU				1.21	418.50	371.63	373.80		373.99	0.003208	1.95	223.01	266.72	0.56	88.57
Reach 1	22094	0p5-CC-LC_BU				1.29	586.00	371.63	374.08		374.27	0.003085	1.99	305.59	361.49	0.56	80.32
Reach 1	22050	5_BU				0.97	310.30	371.32	373.41		373.58	0.004083	1.89	178.03	217.83	0.61	94.94
Reach 1	22050	1_BU				1.05	389.90	371.32	373.56		373.76	0.004239	2.03	215.09	274.47	0.63	94.47
Reach 1	22050	0p5_BU				1.06	418.50	371.32	373.62		373.83	0.004262	2.04	232.59	299.37	0.63	93.82
Reach 1	22050	0p5-CC-LC_BU				1.11	586.00	371.32	373.87		374.10	0.004632	2.21	316.69	382.68	0.67	91.25
Reach 1	21950	5_BU				0.85	310.30	370.75	372.91		373.10	0.005049	1.92	160.03	239.44	0.67	85.97
Reach 1	21950	1_BU				0.88	389.90	370.75	373.07		373.27	0.005012	1.96	199.41	288.74	0.67	84.72
Reach 1	21950	0p5_BU				0.89	418.50	370.75	373.13		373.32	0.005164	2.00	213.65	309.83	0.68	85.49
Reach 1	21950	0p5-CC-LC_BU				0.96	586.00	370.75	373.39		373.59	0.004627	1.99	301.48	440.28	0.65	81.19
Reach 1	21825	5_BU				0.84	310.30	370.87	372.60		372.72	0.002103	1.23	221.53	313.03	0.43	63.66
Reach 1	21825	1_BU				0.98	389.90	370.87	372.83		372.92	0.001731	1.24	299.33	413.95	0.40	65.74
Reach 1	21825	0p5_BU				1.03	418.50	370.87	372.90		372.98	0.001616	1.24	325.68	444.97	0.39	65.14
Reach 1	21825	0p5-CC-LC_BU				1.13	586.00	370.87	373.22		373.29	0.001320	1.19	499.06	744.61	0.36	60.26
Reach 1	21700	5_BU				1.29	310.30	369.78	372.29		372.44	0.002466	1.78	191.38	187.43	0.50	95.91
Reach 1	21700	1_BU				1.41	389.90	369.78	372.49		372.67	0.002523	1.90	234.40	283.52	0.51	94.63
Reach 1	21700	0p5_BU				1.41	418.50	369.78	372.55		372.74	0.002600	1.94	251.25	322.29	0.52	94.01
Reach 1	21700	0p5-CC-LC_BU				1.56	586.00	369.78	372.86		373.07	0.002682	2.10	353.60	502.07	0.54	90.12
Reach 1	21600	5_BU				1.22	310.30	369.52	372.01		372.18	0.002828	1.84	187.19	236.34	0.53	94.09
Reach 1	21600	1_BU				1.35	389.90	369.52	372.20		372.39	0.002916	2.00	229.11	287.47	0.55	93.78
Reach 1	21600	0p5_BU				1.39	418.50	369.52	372.25		372.45	0.002958	2.05	242.70	302.43	0.55	93.14
Reach 1	21600	0p5-CC-LC_BU				1.57	586.00	369.52	372.51		372.76	0.003205	2.31	320.06	429.72	0.59	89.91
Reach 1	21530	5_BU				1.18	310.30	369.79	371.83		371.97	0.002667	1.74	219.64	303.44	0.51	88.93
Reach 1	21530	1_BU				1.36	389.90	369.79	372.04		372.18	0.002343	1.79	278.36	385.00	0.49	86.18
Reach 1	21530	0p5_BU				1.41	418.50	369.79	372.09		372.24	0.002347	1.83	294.70	401.41	0.49	85.33
Reach 1	21530	0p5-CC-LC_BU				1.64	586.00	369.79	372.34		372.53	0.002545	2.11	388.74	602.41	0.53	82.63
Reach 1	21450	5_BU				1.20	310.30	368.92	371.65		371.77	0.002301	1.62	233.46	306.20	0.47	89.18
Reach 1	21450	1_BU				1.18	389.90	368.92	371.89		372.00	0.002269	1.60	312.16	520.10	0.47	85.75
Reach 1	21450	0p5_BU				1.24	418.50	368.92	371.95		372.06	0.002193	1.62	338.16	567.84	0.46	85.18
Reach 1	21450	0p5-CC-LC_BU				1.51	586.00	368.92	372.21		372.35	0.002047	1.78	486.72	775.07	0.46	81.24
Reach 1	21319	5_BU				1.19	310.30	368.49	371.18		371.39	0.003856	2.07	164.80	194.82	0.61	95.21
Reach 1	21319	1_BU				1.19	389.90	368.49	371.39		371.61	0.004191	2.16	205.28	285.52	0.63	93.43
Reach 1	21319	0p5_BU				1.18	418.50	368.49	371.45		371.68	0.004310	2.18	220.95	319.66	0.64	92.46
Reach 1	21319	0p5-CC-LC_BU				1.26	586.00	368.49	371.71		371.97	0.004657	2.37	299.25	437.61	0.68	89.27
Reach 1	21250	5_BU				1.10	310.30	368.22	370.93		371.12	0.003850	1.99	170.72	221.85	0.61	94.84
Reach 1	21250	1_BU				1.07	389.90	368.22	371.09		371.31	0.004572	2.13	205.36	286.20	0.66	93.86
Reach 1	21250	0p5_BU				1.07	418.50	368.22	371.15		371.37	0.004632	2.15	219.32	306.44	0.66	93.11
Reach 1	21250	0p5-CC-LC_BU				1.26	586.00	368.22	371.38		371.65	0.004609	2.38	285.11	377.02	0.68	90.67
Reach 1	21200	5_BU				0.94	310.30	368.17	370.81		370.93	0.003153	1.63	216.81	298.77	0.54	89.40
Reach 1	21200	1_BU				1.05	389.90	368.17	370.97		371.11	0.003048	1.72	262.42	343.48	0.54	88.21
Reach 1	21200	0p5_BU				1.09	418.50	368.17	371.03		371.17	0.002987	1.75	280.62	362.62	0.53	87.81
Reach 1	21200	0p5-CC-LC_BU				1.31	586.00	368.17	371.29		371.45	0.002816	1.91	371.38	446.07	0.53	85.43
Reach 1	21150	5_BU				0.92	310.30	368.09	370.60		370.76	0.004098	1.82	192.21	282.37	0.61	87.70
Reach 1	21150	1_BU				1.10	389.90	368.09	370.79		370.95	0.003464	1.89	240.27	344.29	0.58	86.52
Reach 1	21150	0p5_BU				1.16	418.50	368.09	370.85		371.01	0.003315	1.92	258.68	362.75	0.57	86.37
Reach 1	21150	0p5-CC-LC_BU				1.43	586.00	368.09	371.12		371.31	0.003021	2.10	347.37	421.30	0.56	83.23
Reach 1	21100	5_BU				1.15	310.30	368.03	370.49	370.02	370.60	0.002359	1.61	226.33	262.21	0.48	79.91
Reach 1	21100	1_BU				1.21	389.90	368.03	370.68	370.16	370.80	0.002353	1.65	277.41	334.20	0.48	77.11
Reach 1	21100	0p5_BU				1.24	418.50	368.03	370.75	370.20	370.87	0.002356	1.67	297.53	362.11	0.48	76.67
Reach 1	21100	0p5-CC-LC_BU				1.48	586.00	368.03	371.03	370.43	371.17	0.002342	1.86	398.48	463.89	0.49	74.91
Reach 1	21050	5_BU				1.26	310.30	367.97	370.29		370.46	0.002929	1.90	191.00	244.56	0.54	86.30
Reach 1	21050	1_BU				1.36	389.90	367.97	370.46		370.65	0.003134	2.06	229.05	290.77	0.56	84.41
Reach 1	21050	0p5_BU				1.30	418.50	367.97	370.52		370.71	0.003356	2.07	246.08	328.46	0.58	82.77
Reach 1	21050	0p5-CC-LC_BU				1.44	586.00	367.97	370.80		371.01	0.003472	2.23	341.07	441.35	0.59	78.51
Reach 1	21000	5_BU				1.23	310.30	367.91	370.19		370.30	0.002106	1.60	242.64	292.99	0.46	81.07
Reach 1	21000	1_BU				1.37	389.90	367.91	370.35		370.48	0.002107	1.73	288.32	370.42	0.47	79.52
Reach 1	21000	0p5_BU				1.42	418.50	367.91	370.40		370.54	0.002119	1.78	305.39	399.39	0.48	78.96
Reach 1	21000	0p5-CC-LC_BU				1.66	586.00	367.91	370.66		370.83	0.002295	2.05	406.13	525.09	0.51	76.54
Reach 1	20950	5_BU				1.27	310.30	367.85	370.14		370.20	0.001320	1.29	324.70	339.35	0.37	62.22
Reach 1	20950	1_BU				1.44	389.90	367.85	370.31		370.38	0.001337	1.41	385.51	413.89	0.38	61.40
Reach 1	20950	0p5_BU				1.49	418.50	367.85	370.36		370.44	0.001392	1.47	405.84	435.02	0.39	61.79
Reach 1	20950	0p5-CC-LC_BU				1.75	586.00	367.85	370.62		370.72	0.001478	1.69	536.22	634.98	0.41	59.35
Reach 1	20892	5_BU				1.23	310.30	367.84	370.01		370.11	0.002201	1.63	264.10	329.26	0.47	66.04
Reach 1	20892	1_BU				1.38	389.90	367.84	370.19		370.29	0.002131	1.73	325.62	413.64	0.47	63.85
Reach 1	20892	0p5_BU				1.43	418.50	367.84	370.23		370.35	0.002154	1.78	346.12	442.75	0.48	63.24
Reach 1	20892	0p5-CC-LC_BU				1.64	586.00	367.84	370.48		370.62	0.002353	2.04	476.62	669.29	0.51	60.79
Reach 1	20850	5_BU				1.13	310.30	367.74	369.95		370.03	0.002144	1.52	286.16	384.64	0.46	57.10
Reach 1	20850	1_BU				1.24	389.90	367.74	370.12		370.21	0.002205	1.64	359.70	475.29	0.47	56.84
Reach 1	20850	0p5_BU				1.29	418.50	367.74	370.17		370.26	0.002203	1.68	383.36	495.73	0.47	56.45
Reach 1	20850	0p5-CC-LC_BU				1.53	586.00	367.74	370.41		370.53	0.002297	1.92	519.67	681.40	0.50	54.79
Reach 1	20800	5_BU				1.22	310.30	367.71	369.79		369.93	0.003000	1.90	211.67	295.68	0.55	67.72
Reach 1	20800	1_BU				1.36	389.90	367.71	369.94		370.10	0.003213	2.10	261.20	388.81	0.58	67.19
Reach 1	20800	0p5_BU				1.40	418.50	367.71	369.98		370.15	0.003246	2.16	279.53	423.21	0.58	66.45
Reach 1	20800	0p5-CC-LC_BU				1.63	586.00	367.71	370.21		370.42	0.003380	2.44	395.24	594.50	0.61	62.34
Reach 1	20750	5_BU				1.18	310.30	367.67	369.71		369.80	0.002367	1.64	298.34	406.09	0.48	53.49
Reach 1	20750	1_BU				1.27	389.90	367.67	369.86		369.96	0.002613	1.82	362.54	477.33	0.51	53.16
Reach 1	20750	0p5_BU				1.30	418.50	367.67	369.91		370.02	0.002620	1.85	386.02	496.13	0.52	52.37
Reach 1	20750	0p5-CC-LC_BU				1.52	586.00	367.67	370.15		370.27	0.002638	2.05	516.91	629.73	0.53	49.31
Reach 1	20700	5_BU				1.17	310.30	367.63	369.57		369.70	0.003350	1.94	247.59	384.21	0.57	59.65
Reach 1	20700	1_BU				1.26	389.90	367.63	369.72		369.86	0.003394	2.06	310.65	461.34	0.59	56.95
Reach 1	20700	0p5_BU				1.30	418.50	367.63	369.77		369.91	0.003365	2.09	333.78	473.09	0.59	56.06
Reach 1	20700	0p5-CC-LC_BU				1.56	586.00	367.63	370.03		370.18	0.003101	2.26	462.57	567.47	0.58	51.70
Reach 1	20650	5_BU				1.13	310.30	367.50	369.47		369.59	0.003096	1.83	238.08	320.70	0.55	57.86
Reach 1	20650	1_BU				1.27	389.90	367.50	369.62		369.75	0.002991	1.95	289.75	365.50	0.55	55.70
Reach 1	20650	0p5_BU				1.32	418.50	367.50	369.67		369.81	0.002981	1.99	308.13	383.88	0.55	55.21
Reach 1	20650	0p5-CC-LC_BU				1.59	586.00	367.50	369.94		370.09	0.002797	2.18	418.60	484.79	0.55	51.62
Reach 1	20600	5_BU				1.12	310.30	367.38	369.38		369.47	0.002352	1.53	250.84	285.89	0.46	67.71
Reach 1	20600	1_BU				1.25	389.90	367.38	369.53		369.64	0.002396	1.64	296.95	328.47	0.47	66.20

HEC-RAS Plan: KR_Jam_5850 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	20600	0p5_BU				1.29	418.50	367.38	369.58		369.70	0.002415	1.69	313.35	348.73	0.47	65.76
Reach 1	20600	0p5-CC-LC_BU				1.51	586.00	367.38	369.85		369.98	0.002425	1.86	420.00	504.18	0.48	62.79
Reach 1	20550	5_BU				1.14	310.30	367.25	369.20		369.34	0.003036	1.81	226.63	325.75	0.54	77.10
Reach 1	20550	1_BU				1.28	389.90	367.25	369.35		369.51	0.003049	1.97	276.23	374.52	0.55	75.12
Reach 1	20550	0p5_BU				1.33	418.50	367.25	369.40		369.56	0.003040	2.01	294.45	391.52	0.56	74.34
Reach 1	20550	0p5-CC-LC_BU				1.59	586.00	367.25	369.66		369.85	0.002903	2.22	418.04	590.28	0.56	70.06
Reach 1	20400	5_BU				0.94	310.30	366.84	368.57		368.76	0.005556	2.16	170.25	229.54	0.71	63.53
Reach 1	20400	1_BU				1.06	389.90	366.84	368.69		368.92	0.005728	2.37	201.33	261.33	0.74	63.13
Reach 1	20400	0p5_BU				1.09	418.50	366.84	368.73		368.97	0.005845	2.45	211.49	271.49	0.75	62.94
Reach 1	20400	0p5-CC-LC_BU				1.30	586.00	366.84	368.95	368.72	369.25	0.006339	2.86	284.26	409.66	0.80	63.17
Reach 1	20221	5_BU				0.91	310.30	365.65	368.04		368.09	0.001942	1.10	336.42	488.26	0.37	56.84
Reach 1	20221	1_BU				1.03	389.90	365.65	368.18		368.24	0.001936	1.18	410.32	586.86	0.37	56.33
Reach 1	20221	0p5_BU				1.07	418.50	365.65	368.23		368.29	0.001896	1.20	439.59	618.86	0.37	55.74
Reach 1	20221	0p5-CC-LC_BU				1.23	586.00	365.65	368.45		368.51	0.002045	1.33	585.41	787.15	0.38	53.24
Reach 1	19763	5_BU				0.88	310.30	364.71	366.75		366.84	0.004562	1.41	236.51	330.42	0.48	91.75
Reach 1	19763	1_BU				0.92	389.90	364.71	366.97		367.05	0.004076	1.31	327.58	505.95	0.44	87.18
Reach 1	19763	0p5_BU				0.91	418.50	364.71	367.05		367.12	0.004019	1.26	372.38	590.30	0.42	85.23
Reach 1	19763	0p5-CC-LC_BU				1.02	586.00	364.71	367.38		367.43	0.003116	1.11	600.04	814.54	0.35	75.78
Reach 1	19335	5_BU				1.35	310.30	363.23	365.56	364.87	365.66	0.001963	1.49	237.40	275.09	0.41	94.40
Reach 1	19335	1_BU				1.44	389.90	363.23	365.72	365.07	365.85	0.002265	1.62	289.65	352.69	0.43	92.01
Reach 1	19335	0p5_BU				1.48	418.50	363.23	365.78	365.11	365.91	0.002361	1.66	308.71	384.43	0.44	91.44
Reach 1	19335	0p5-CC-LC_BU				1.43	586.00	363.23	366.11	365.35	366.23	0.003271	1.64	487.32	709.56	0.44	80.73
Reach 1	19009	5_BU				0.64	310.30	362.65	364.93	364.42	364.99	0.002114	1.07	296.34	498.95	0.43	99.54
Reach 1	19009	1_BU				0.68	389.90	362.65	365.06	364.53	365.12	0.002120	1.10	366.57	606.34	0.43	99.06
Reach 1	19009	0p5_BU				0.69	418.50	362.65	365.09	364.57	365.16	0.002157	1.11	389.60	639.56	0.43	98.89
Reach 1	19009	0p5-CC-LC_BU				0.79	586.00	362.65	365.28	364.80	365.35	0.002247	1.19	523.19	793.28	0.43	97.63
Reach 1	18575	5_BU				0.63	310.30	361.28	363.68	363.15	363.73	0.004237	1.00	318.76	567.80	0.40	96.79
Reach 1	18575	1_BU				0.68	389.90	361.28	363.82	363.27	363.87	0.004058	0.98	412.11	715.80	0.38	95.68
Reach 1	18575	0p5_BU				0.70	418.50	361.28	363.87	363.31	363.92	0.003946	0.99	443.08	748.03	0.38	95.26
Reach 1	18575	0p5-CC-LC_BU				0.83	586.00	361.28	364.06	363.53	364.11	0.003706	1.05	601.50	931.18	0.37	93.44
Reach 1	18123	5_BU				1.07	310.30	360.36	362.21	361.82	362.32	0.002875	1.69	238.94	334.97	0.52	66.31
Reach 1	18123	1_BU				1.14	389.90	360.36	362.34	361.97	362.46	0.003046	1.81	287.24	396.99	0.54	63.78
Reach 1	18123	0p5_BU				1.13	418.50	360.36	362.39	362.00	362.51	0.003118	1.83	307.15	428.45	0.55	62.49
Reach 1	18123	0p5-CC-LC_BU				1.20	586.00	360.36	362.63	362.22	362.76	0.003193	1.92	442.24	660.85	0.56	58.26
Reach 1	18000	5_BU				0.99	310.30	359.91	361.94	361.48	362.01	0.002860	1.49	296.38	463.08	0.48	49.86
Reach 1	18000	1_BU				1.12	389.90	359.91	362.09	361.68	362.16	0.002638	1.55	367.14	498.75	0.47	47.49
Reach 1	18000	0p5_BU				1.15	418.50	359.91	362.14	361.71	362.21	0.002596	1.57	392.10	526.92	0.47	46.67
Reach 1	18000	0p5-CC-LC_BU				1.10	586.00	359.91	362.40	361.85	362.47	0.002556	1.52	544.36	669.25	0.46	40.46
Reach 1	17900	5_BU				0.95	310.30	359.66	361.67	361.24	361.77	0.003020	1.58	242.42	360.65	0.52	53.91
Reach 1	17900	1_BU				1.08	389.90	359.66	361.84	361.35	361.94	0.002870	1.67	305.84	417.39	0.51	53.27
Reach 1	17900	0p5_BU				1.12	418.50	359.66	361.89	361.43	361.99	0.002853	1.70	327.50	443.60	0.51	53.00
Reach 1	17900	0p5-CC-LC_BU				1.24	586.00	359.66	362.13	361.64	362.25	0.002933	1.83	452.37	582.85	0.53	50.21
Reach 1	17850	5_BU				1.00	310.30	359.56	361.56	361.04	361.65	0.002775	1.59	258.96	344.65	0.51	59.90
Reach 1	17850	1_BU				1.15	389.90	359.56	361.71	361.20	361.82	0.002745	1.73	317.12	402.50	0.52	60.30
Reach 1	17850	0p5_BU				1.19	418.50	359.56	361.76	361.29	361.87	0.002723	1.77	337.42	423.61	0.52	59.92
Reach 1	17850	0p5-CC-LC_BU				1.39	586.00	359.56	361.99	361.50	362.13	0.002816	2.02	448.18	561.09	0.54	57.93
Reach 1	17800	5_BU				1.13	310.30	359.59	361.43	360.93	361.52	0.002534	1.65	276.88	396.20	0.50	58.23
Reach 1	17800	1_BU				1.15	389.90	359.59	361.60	361.11	361.69	0.002519	1.66	356.33	528.23	0.50	54.08
Reach 1	17800	0p5_BU				1.17	418.50	359.59	361.65	361.15	361.74	0.002531	1.69	384.12	556.48	0.50	53.46
Reach 1	17800	0p5-CC-LC_BU				1.38	586.00	359.59	361.89	361.41	361.99	0.002390	1.83	529.28	665.52	0.50	50.10
Reach 1	17750	5_BU				1.16	310.30	359.63	361.22	360.84	361.36	0.003583	1.96	222.48	326.95	0.58	56.67
Reach 1	17750	1_BU				1.27	389.90	359.63	361.38	361.01	361.52	0.003565	2.07	281.34	437.95	0.58	54.20
Reach 1	17750	0p5_BU				1.31	418.50	359.63	361.43	361.06	361.58	0.003552	2.09	304.56	470.02	0.58	53.26
Reach 1	17750	0p5-CC-LC_BU				1.51	586.00	359.63	361.68	361.30	361.83	0.003461	2.25	435.21	607.39	0.58	48.71
Reach 1	17700	5_BU				1.16	310.30	359.33	361.01	360.56	361.13	0.002672	1.73	232.84	346.60	0.51	60.72
Reach 1	17700	1_BU				1.29	389.90	359.33	361.17	360.69	361.29	0.002695	1.86	293.22	448.97	0.52	59.04
Reach 1	17700	0p5_BU				1.34	418.50	359.33	361.22	360.73	361.34	0.002673	1.90	316.70	487.24	0.52	58.16
Reach 1	17700	0p5-CC-LC_BU				1.58	586.00	359.33	361.46	360.96	361.60	0.002646	2.10	448.63	625.66	0.54	54.33
Reach 1	17650	5_BU				1.00	310.30	359.01	360.74	360.23	360.81	0.002061	1.39	277.45	397.42	0.44	55.45
Reach 1	17650	1_BU				1.15	389.90	359.01	360.89	360.35	360.97	0.001979	1.48	347.26	497.90	0.44	54.45
Reach 1	17650	0p5_BU				1.20	418.50	359.01	360.94	360.40	361.02	0.001964	1.51	373.11	529.22	0.44	54.10
Reach 1	17650	0p5-CC-LC_BU				1.41	586.00	359.01	361.17	360.60	361.26	0.002015	1.69	506.96	647.48	0.46	51.56
Reach 1	17600	5_BU				0.90	310.30	358.88	360.60	360.06	360.68	0.002311	1.35	252.03	368.78	0.46	40.29
Reach 1	17600	1_BU				0.97	389.90	358.88	360.76	360.20	360.84	0.002348	1.44	324.30	507.47	0.47	40.71
Reach 1	17600	0p5_BU				1.00	418.50	358.88	360.82	360.24	360.89	0.002333	1.45	352.39	547.99	0.47	40.51
Reach 1	17600	0p5-CC-LC_BU				1.22	586.00	358.88	361.04	360.50	361.13	0.002394	1.68	489.68	672.99	0.49	40.96
Reach 1	17574	5_BU				0.81	310.30	358.84	360.54	360.01	360.61	0.002531	1.31	263.32	416.15	0.47	37.02
Reach 1	17574	1_BU				0.90	389.90	358.84	360.70	360.16	360.77	0.002419	1.38	342.01	516.65	0.46	37.61
Reach 1	17574	0p5_BU				0.93	418.50	358.84	360.76	360.21	360.83	0.002404	1.40	370.27	551.83	0.47	37.87
Reach 1	17574	0p5-CC-LC_BU				1.12	586.00	358.84	360.98	360.47	361.06	0.002421	1.60	502.67	635.09	0.48	38.40
Reach 1	17500	5_BU				0.61	310.30	358.91	360.39	359.88	360.44	0.001799	0.93	310.55	507.82	0.38	26.18
Reach 1	17500	1_BU				0.75	389.90	358.91	360.58	360.01	360.62	0.001497	0.98	422.96	672.17	0.36	29.10
Reach 1	17500	0p5_BU				0.80	418.50	358.91	360.63	360.05	360.68	0.001550	1.04	458.49	710.02	0.37	30.65
Reach 1	17500	0p5-CC-LC_BU				1.03	586.00	358.91	360.87	360.28	360.91	0.001413	1.16	645.66	870.45	0.37	31.75
Reach 1	17450	5_BU				0.79	310.30	359.04	360.34	359.76	360.40	0.001853	1.11	310.59	532.63	0.40	23.84
Reach 1	17450	1_BU				0.97	389.90	359.04	360.53	359.87	360.58	0.001538	1.16	428.40	668.01	0.38	24.81
Reach 1	17450	0p5_BU				1.02	418.50	359.04	360.58	359.91	360.63	0.001499	1.18	462.84	705.97	0.37	24.77
Reach 1	17450	0p5-CC-LC_BU				1.25	586.00	359.04	360.82	360.18	360.87	0.001376	1.30	650.73	862.50	0.37	23.97
Reach 1	17350	5_BU				0.83	310.30	358.05	360.04	359.63	360.21	0.003855	1.51	182.52	224.25	0.53	36.48
Reach 1	17350	1_BU				0.79	389.90	358.05	360.27	359.83	360.42	0.003758	1.47	250.01	405.70	0.53	36.92
Reach 1	17350	0p5_BU				0.80	418.50	358.05	360.34	359.90	360.48	0.003538	1.44	284.05	490.19	0.52	37.23
Reach 1	17350	0p5-CC-LC_BU				0.96	586.00	358.05	360.65	360.32	360.74	0.002816	1.46	487.11	805.07	0.48	38.71
Reach 1	17200	5_BU				0.90	310.30	357.76	359.56	359.23	359.81	0.006161	2.00	148.21	156.56	0.67	45.45
Reach 1	17200	1_BU				1.08	389.90	357.76	359.81	359.38	360.05	0.005085	2.04	191.80	197.05	0.63	47.81
Reach 1	17200	0p5_BU				1.15	418.50	357.76	359.88	359.48	360.13	0.004868	2.07	207.68	236.80	0.62	48.42
Reach 1	17200	0p5-CC-LC_BU				1.53	586.00	357.76	360.27	359.87	360.46	0.003839	2.20	356.12	541.25	0.57	49.03
Reach 1	17050	5_BU				2.08	310.30	356.29	359.31	358.29	359.46	0.001286	1.73	195.75	168.81	0.38	98.42
Reach 1	17050	1_BU				2.28	389.90	356.29	359.52	358.49	359.70	0.001441	1.93	244.64	284.64	0.41	96.30
Reach 1	17050	0p5_BU				2.34	418.50	356.29	359.59	358.56	359.78	0.001482	1.99	264.96	326.43	0.42	95.22
Reach 1	17050	0p5-CC-LC_BU				2.67	586.00	356.29	359.92	358.91	360.15	0.001595	2.25	408.12	557.30	0.44	87.84
Reach 1	16812	5_BU				1.29	310.30	354.74	358.79	358.37	359.00	0.003176	2.03	164.67	172.46	0.57	97.13
Reach 1	16812	1_BU				1.44	389.90	354.74	358.98	358.54	359.22	0.003193	2.21	199.14	203.94	0.59	96.17
Reach 1	16812	0p5_BU				1.50	418.50	354.74	359.04	358.59	359.29	0.003192	2.26	211.79	219.23	0.59	95.61
Reach 1	16812	0p5-CC-LC_BU				1.80	586.00	354.74	359.33	358.94	359.64	0.003263	2.55	288.64	290.27	0.61	92.15
Reach 1	16285	5_BU				1.29	310.30	354.72	357.31	356.83	357.47	0.002544	1.79	186.03	178.06	0.50	96.89
Reach 1	16285	1_BU				1.47	389.90	354.72	357.49	357.00	357.68	0.002533	1.95	219.80	195.26	0.51	95.47
Reach 1	16285	0p5_BU				1.53	418.50	354.72	357.55	357.05	357.75	0.002503	1.99	233.03	213.33	0.51	95.03
Reach 1	16285	0p5-CC-LC_BU				1.89	586.00	354.72	357.91	357.31	358.13	0.002260	2.18	330.56	349.48	0.51	91.31

HEC-RAS Plan: KR_Jam_5850 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	15937	5_BU				1.15	310.30	353.96	356.55	355.99	356.66	0.001993	1.48	213.08	196.51	0.44	99.64
Reach 1	15937	1_BU				1.32	389.90	353.96	356.79	356.15	356.91	0.001754	1.52	262.73	218.22	0.42	99.27
Reach 1	15937	0p5_BU				1.37	418.50	353.96	356.88	356.19	356.99	0.001694	1.53	282.03	231.75	0.42	99.11
Reach 1	15937	0p5-CC-LC_BU				1.53	586.00	353.96	357.31	356.41	357.43	0.001506	1.55	401.68	322.50	0.40	97.68
Reach 1	15657	5_BU				1.80	310.30	352.57	355.89	355.16	356.09	0.002009	2.00	156.62	94.77	0.48	99.89
Reach 1	15657	1_BU				1.98	389.90	352.57	356.08	355.35	356.34	0.002275	2.26	176.12	114.07	0.51	99.71
Reach 1	15657	0p5_BU				2.05	418.50	352.57	356.15	355.42	356.43	0.002331	2.34	184.40	123.76	0.52	99.58
Reach 1	15657	0p5-CC-LC_BU				2.33	586.00	352.57	356.43	355.77	356.84	0.002921	2.86	226.94	196.65	0.60	98.51
Reach 1	15073	5_BU				1.03	310.30	351.49	354.04	353.78	354.29	0.005298	2.22	139.94	136.15	0.70	100.00
Reach 1	15073	1_BU				1.17	389.90	351.49	354.31	353.94	354.55	0.004314	2.18	178.93	153.78	0.64	99.97
Reach 1	15073	0p5_BU				1.18	418.50	351.49	354.41	353.99	354.64	0.004107	2.15	195.11	165.66	0.63	99.95
Reach 1	15073	0p5-CC-LC_BU				1.50	586.00	351.49	354.93	354.28	355.14	0.002695	2.04	288.09	193.33	0.53	99.86
Reach 1	14797	5_BU				1.93	310.30	350.08	353.33	352.47	353.51	0.001652	1.88	164.99	85.46	0.43	100.00
Reach 1	14797	1_BU				2.20	389.90	350.08	353.63	352.66	353.85	0.001641	2.04	190.74	86.57	0.44	100.00
Reach 1	14797	0p5_BU				2.29	418.50	350.08	353.73	352.73	353.96	0.001638	2.10	199.49	86.94	0.44	100.00
Reach 1	14797	0p5-CC-LC_BU				2.79	586.00	350.08	354.27	353.09	354.56	0.001665	2.38	246.59	88.73	0.45	100.00
Reach 1	14088	5_BU				1.84	320.00	349.51	352.07	351.30	352.26	0.001887	1.96	163.20	156.19	0.46	99.97
Reach 1	14088	1_BU				2.02	403.00	349.51	352.25	351.51	352.51	0.002188	2.25	179.49	159.65	0.51	99.92
Reach 1	14088	0p5_BU				2.08	433.00	349.51	352.31	351.57	352.59	0.002293	2.35	184.87	161.17	0.52	99.90
Reach 1	14088	0p5-CC-LC_BU				2.38	606.20	349.51	352.61	351.92	353.03	0.002826	2.86	213.11	193.90	0.59	99.75
Reach 1	14004	5_BU				1.34	320.00	349.38	351.76	351.47	352.00	0.003720	2.24	154.58	406.98	0.62	92.14
Reach 1	14004	1_BU				1.49	403.00	349.38	351.91	351.64	352.20	0.003913	2.47	177.25	423.28	0.64	89.75
Reach 1	14004	0p5_BU				1.55	433.00	349.38	351.96	351.70	352.27	0.003966	2.54	185.01	430.68	0.65	89.02
Reach 1	14004	0p5-CC-LC_BU				1.83	606.20	349.38	352.25	351.96	352.64	0.004070	2.88	228.44	498.77	0.68	85.56
Reach 1	13755	5_BU				1.05	320.00	347.42	350.84	350.38	350.98	0.003002	1.70	188.76	474.85	0.53	64.78
Reach 1	13755	1_BU				1.24	403.00	347.42	351.03	350.54	351.19	0.002746	1.81	226.33	538.97	0.52	64.86
Reach 1	13755	0p5_BU				1.30	433.00	347.42	351.09	350.60	351.26	0.002685	1.85	239.27	563.02	0.52	64.75
Reach 1	13755	0p5-CC-LC_BU				1.55	606.20	347.42	351.35	350.85	351.56	0.002842	2.14	299.78	633.83	0.55	64.09
Reach 1	13404	5_BU				1.57	320.00	346.33	349.21	349.07	349.66	0.005546	3.02	115.39	194.73	0.77	94.39
Reach 1	13404	1_BU				1.74	403.00	346.33	349.40	349.33	349.91	0.005810	3.30	137.39	221.46	0.80	91.30
Reach 1	13404	0p5_BU				1.79	433.00	346.33	349.45	349.38	349.99	0.005889	3.39	145.42	228.79	0.81	90.21
Reach 1	13404	0p5-CC-LC_BU				2.16	606.20	346.33	349.83	349.83	350.36	0.004970	3.53	215.55	338.32	0.77	81.10
Reach 1	13209	5_BU				1.59	320.00	345.37	348.73	348.16	348.91	0.002341	1.98	180.57	298.16	0.50	85.41
Reach 1	13209	1_BU				1.81	403.00	345.37	348.95	348.37	349.15	0.002256	2.11	215.61	311.89	0.50	82.40
Reach 1	13209	0p5_BU				1.88	433.00	345.37	349.01	348.43	349.22	0.002251	2.16	226.31	313.19	0.50	81.27
Reach 1	13209	0p5-CC-LC_BU				2.20	606.20	345.37	349.34	348.74	349.60	0.002308	2.43	279.56	329.02	0.52	76.65
Reach 1	13100	5_BU				1.53	320.00	345.58	348.43	347.89	348.63	0.002530	2.01	167.58	550.93	0.52	98.07
Reach 1	13100	1_BU				1.77	403.00	345.58	348.67	348.07	348.89	0.002289	2.11	209.49	615.83	0.51	94.73
Reach 1	13100	0p5_BU				1.83	433.00	345.58	348.74	348.14	348.96	0.002283	2.16	221.36	629.43	0.51	93.59
Reach 1	13100	0p5-CC-LC_BU				2.15	606.20	345.58	349.06	348.54	349.33	0.002344	2.44	279.88	723.48	0.53	88.46
Reach 1	13000	5_BU				1.26	320.00	345.10	347.52	347.52	348.15	0.009954	3.51	91.13	184.47	1.00	100.00
Reach 1	13000	1_BU				1.10	403.00	345.10	347.92	347.92	348.45	0.009925	3.20	126.89	334.53	0.98	99.70
Reach 1	13000	0p5_BU				1.13	433.00	345.10	347.98	347.98	348.52	0.009856	3.26	134.58	348.55	0.98	99.52
Reach 1	13000	0p5-CC-LC_BU				1.39	606.20	345.10	348.30	348.30	348.91	0.008577	3.49	179.40	435.98	0.94	97.90
Reach 1	12950	5_BU				1.56	320.00	344.85	347.63	346.40	347.70	0.000835	1.17	272.75	503.53	0.30	100.00
Reach 1	12950	1_BU				1.66	403.00	344.85	347.80	346.56	347.89	0.000973	1.32	305.77	538.18	0.33	99.98
Reach 1	12950	0p5_BU				1.71	433.00	344.85	347.86	346.62	347.96	0.001003	1.37	317.47	549.79	0.33	99.94
Reach 1	12950	0p5-CC-LC_BU				1.96	606.20	344.85	348.13	346.89	348.27	0.001205	1.64	378.37	663.55	0.37	99.25
Reach 1	12887	5_BU				1.05	320.00	344.53	347.45	346.95	347.60	0.003024	1.71	188.96	348.90	0.53	99.38
Reach 1	12887	1_BU				1.12	403.00	344.53	347.61	347.12	347.78	0.003235	1.85	220.56	373.70	0.56	98.99
Reach 1	12887	0p5_BU				1.12	433.00	344.53	347.67	347.17	347.85	0.003372	1.88	232.13	386.49	0.57	98.84
Reach 1	12887	0p5-CC-LC_BU				1.30	606.20	344.53	347.91	347.47	348.14	0.003542	2.14	290.23	441.36	0.60	98.40
Reach 1	12850	5_BU				0.76	320.00	344.40	347.00	347.00	347.38	0.011768	2.72	117.56	295.82	1.00	100.00
Reach 1	12850	1_BU				0.80	403.00	344.40	347.16	347.16	347.56	0.011472	2.79	144.67	346.12	0.99	99.99
Reach 1	12850	0p5_BU				0.82	433.00	344.40	347.21	347.21	347.62	0.011356	2.81	154.13	358.77	0.99	99.99
Reach 1	12850	0p5-CC-LC_BU				1.09	606.20	344.40	347.72	347.45	347.98	0.005000	2.27	269.33	498.23	0.69	99.76
Reach 1	12800	5_BU				1.13	320.00	343.70	346.67	346.29	346.89	0.003993	2.07	154.86	251.95	0.62	99.97
Reach 1	12800	1_BU				1.28	403.00	343.70	347.03	346.45	347.20	0.002820	1.89	224.02	434.02	0.53	97.70
Reach 1	12800	0p5_BU				1.35	433.00	343.70	347.15	346.51	347.31	0.002411	1.81	257.43	471.65	0.50	96.01
Reach 1	12800	0p5-CC-LC_BU				1.75	606.20	343.70	347.71	346.89	347.83	0.001281	1.57	438.76	681.63	0.38	86.22
Reach 1	12735	5_BU				2.19	320.00	340.98	346.75	344.02	346.79	0.000263	0.82	402.63	365.39	0.18	98.81
Reach 1	12735	1_BU				2.47	403.00	340.98	347.09	344.27	347.12	0.000252	0.87	499.59	441.45	0.18	96.04
Reach 1	12735	0p5_BU				2.58	433.00	340.98	347.20	344.35	347.24	0.000243	0.89	536.95	473.84	0.18	94.89
Reach 1	12735	0p5-CC-LC_BU				3.12	606.20	340.98	347.73	344.85	347.78	0.000223	0.96	722.68	586.00	0.17	88.70
Reach 1	12700	5_BU				2.13	320.00	342.78	346.71	345.06	346.77	0.000501	1.12	324.08	394.09	0.24	90.32
Reach 1	12700	1_BU				2.41	403.00	342.78	347.05	345.27	347.11	0.000448	1.15	413.64	483.39	0.24	85.30
Reach 1	12700	0p5_BU				2.51	433.00	342.78	347.17	345.35	347.23	0.000421	1.14	448.20	502.05	0.23	83.11
Reach 1	12700	0p5-CC-LC_BU				3.04	606.20	342.78	347.70	345.79	347.76	0.000363	1.21	622.72	670.36	0.22	75.88
Reach 1	12650	5_BU				2.32	320.00	342.92	346.64	345.22	346.74	0.000753	1.45	252.50	325.79	0.30	87.31
Reach 1	12650	1_BU				2.63	403.00	342.92	346.97	345.47	347.07	0.000695	1.51	309.47	403.37	0.30	82.88
Reach 1	12650	0p5_BU				2.75	433.00	342.92	347.09	345.57	347.19	0.000691	1.55	332.99	441.04	0.30	82.55
Reach 1	12650	0p5-CC-LC_BU				3.28	606.20	342.92	347.62	346.15	347.73	0.000608	1.64	479.16	631.62	0.29	74.44
Reach 1	12600	5_BU				2.36	320.00	342.87	346.55	345.54	346.68	0.001093	1.76	208.72	234.29	0.37	73.79
Reach 1	12600	1_BU				2.61	403.00	342.87	346.88	345.81	347.02	0.001060	1.85	251.57	323.60	0.37	70.31
Reach 1	12600	0p5_BU				2.73	433.00	342.87	346.99	345.88	347.14	0.001026	1.87	269.15	380.40	0.36	69.28
Reach 1	12600	0p5-CC-LC_BU				3.26	606.20	342.87	347.53	346.23	347.68	0.000949	2.03	405.92	672.93	0.36	64.17
Reach 1	12550	5_BU				2.22	320.00	343.00	346.54	345.29	346.63	0.000725	1.38	273.46	527.51	0.30	81.65
Reach 1	12550	1_BU				2.56	403.00	343.00	346.88	345.65	346.96	0.000605	1.39	369.71	661.56	0.28	75.28
Reach 1	12550	0p5_BU				2.69	433.00	343.00	347.01	345.75	347.08	0.000549	1.37	412.02	715.94	0.27	72.24
Reach 1	12550	0p5-CC-LC_BU				3.24	606.20	343.00	347.56	346.12	347.63	0.000408	1.34	637.26	878.19	0.24	60.83
Reach 1	12500	5_BU				1.42	320.00	343.14	346.46	345.73	346.57	0.001454	1.46	229.44	387.16	0.39	98.48
Reach 1	12500	1_BU				1.75	403.00	343.14	346.81	345.90	346.92	0.001097	1.45	296.87	431.74	0.35	97.33
Reach 1	12500	0p5_BU				1.87	433.00	343.14	346.93	345.95	347.04	0.001007	1.46	326.27	500.79	0.34	97.19
Reach 1	12500	0p5-CC-LC_BU				2.43	606.20	343.14	347.49	346.20	347.59	0.000702	1.45	595.49	952.06	0.30	89.77
Reach 1	12436	5_BU				1.61	320.00	343.08	345.50	345.50	346.31	0.009314	3.97	81.44	159.70	1.00	99.85
Reach 1	12436	1_BU				1.92	403.00	343.08	345.82	345.82	346.69	0.008060	4.16	100.94	189.19	0.96	99.10
Reach 1	12436	0p5_BU				2.01	433.00	343.08	345.90	345.90	346.82	0.007976	4.26	106.77	192.24	0.96	98.80
Reach 1	12436	0p5-CC-LC_BU				2.73	606.20	343.08	346.62	346.62	347.43	0.004947	4.12	180.63	349.80	0.79	92.64
Reach 1	12300	5_BU				1.78	320.00	342.78	345.33	344.60	345.53	0.002034	2.00	179.62	385.49	0.48	96.16
Reach 1	12300	1_BU				1.99	403.00	342.78	345.56	344.84	345.79	0.002080	2.18	216.42	427.87	0.49	93.92
Reach 1	12300	0p5_BU				2.07	433.00	342.78	345.63	344.92	345.87	0.002104	2.24	228.90	446.51	0.50	93.18
Reach 1	12300	0p5-CC-LC_BU				2.41	606.20	342.78	345.97	345.33	346.28	0.002280	2.58	297.99	508.89	0.53	89.32
Reach 1	11788	5_BU				1.50	320.00	342.07	344.28	343.70	344.43	0.002151	1.82	189.01	494.17	0.48	86.94
Reach 1	11788	1_BU				1.62	403.00	342.07	344.49	343.86	344.66	0.002203	1.95	229.36	547.75	0.49	84.21
Reach 1	11788	0p5_BU				1.67	433.00	342.07	344.56	343.91	344.74	0.002203	1.99	244.25	563.16	0.49	83.36
Reach 1	11788	0p5-CC-LC_BU				2.00	606.20	342.07	344.92	344.21	345.12	0.002046	2.16	352.19	732.98	0.49	79.08
Reach 1	11514	5_BU				1.15	320.00	340.85	343.20	342.96	343.52	0.005745	2.52	128.56	248.36	0.75	99.68

HEC-RAS Plan: KR_Jam_5850 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	11514	1_BU				1.37	403.00	340.85	343.42	343.16	343.78	0.005119	2.66	154.55	315.09	0.73	99.50
Reach 1	11514	0p5_BU				1.45	433.00	340.85	343.51	343.22	343.87	0.004802	2.68	165.60	352.63	0.71	99.38
Reach 1	11514	0p5-CC-LC_BU				1.78	606.20	340.85	343.85	343.51	344.31	0.004603	3.00	213.61	436.64	0.72	98.70
Reach 1	11034	5_BU				1.76	320.00	338.63	342.19		342.31	0.001325	1.59	209.02	299.28	0.38	94.77
Reach 1	11034	1_BU				1.92	403.00	338.63	342.46		342.60	0.001344	1.70	249.80	374.99	0.39	93.23
Reach 1	11034	0p5_BU				1.98	433.00	338.63	342.55		342.70	0.001374	1.76	266.71	403.94	0.40	93.80
Reach 1	11034	0p5-CC-LC_BU				2.25	606.20	338.63	342.97		343.14	0.001382	1.91	357.57	512.61	0.41	89.23
Reach 1	10544	5_BU				1.62	320.00	337.82	341.09		341.36	0.002983	2.27	147.46	298.82	0.57	99.17
Reach 1	10544	1_BU				1.85	403.00	337.82	341.34		341.64	0.002903	2.44	186.29	374.50	0.57	97.73
Reach 1	10544	0p5_BU				1.91	433.00	337.82	341.41		341.72	0.002953	2.52	198.98	403.38	0.58	97.13
Reach 1	10544	0p5-CC-LC_BU				2.26	606.20	337.82	341.76	341.25	342.14	0.002976	2.83	287.11	520.36	0.60	92.43
Reach 1	9771	5_BU				1.32	320.00	336.80	339.00		339.17	0.002618	1.87	178.50	484.92	0.52	97.68
Reach 1	9771	1_BU				1.44	403.00	336.80	339.15		339.37	0.002922	2.09	203.18	551.27	0.56	97.08
Reach 1	9771	0p5_BU				1.51	433.00	336.80	339.22		339.44	0.002885	2.14	214.53	599.47	0.56	96.58
Reach 1	9771	0p5-CC-LC_BU				1.78	606.20	336.80	339.50		339.79	0.003051	2.46	268.71	719.23	0.59	94.26
Reach 1	8903	5_BU				1.83	320.00	333.65	336.90	336.28	337.12	0.002410	2.21	168.45	374.68	0.52	83.51
Reach 1	8903	1_BU				2.08	403.00	333.65	337.19	336.61	337.41	0.002092	2.23	223.22	482.26	0.49	77.96
Reach 1	8903	0p5_BU				2.15	433.00	333.65	337.28	336.69	337.50	0.002101	2.29	241.24	502.95	0.50	77.29
Reach 1	8903	0p5-CC-LC_BU				2.43	606.20	333.65	337.58	337.04	337.83	0.002155	2.52	313.69	565.80	0.51	69.34
Reach 1	8300	5_BU				1.38	320.00	332.67	335.06		335.33	0.003865	2.32	147.20	255.21	0.63	96.75
Reach 1	8300	1_BU				1.42	403.00	332.67	335.11		335.50	0.005439	2.81	153.50	264.84	0.75	96.59
Reach 1	8300	0p5_BU				1.48	433.00	332.67	335.17		335.58	0.005485	2.90	161.14	276.10	0.76	96.39
Reach 1	8300	0p5-CC-LC_BU				1.91	606.20	332.67	335.63	335.26	336.07	0.004298	3.04	234.90	395.11	0.70	94.68
Reach 1	7514	5_BU				1.93	320.00	330.29	333.51		333.65	0.001293	1.70	229.09	486.33	0.39	93.90
Reach 1	7514	1_BU				2.55	403.00	330.29	334.14		334.23	0.000685	1.47	385.98	575.86	0.29	85.48
Reach 1	7514	0p5_BU				2.70	433.00	330.29	334.29		334.38	0.000629	1.46	423.34	611.20	0.28	83.50
Reach 1	7514	0p5-CC-LC_BU				3.54	606.20	330.29	335.13		335.21	0.000410	1.40	638.40	834.17	0.24	75.17
Reach 1	6800	5_BU				4.66	320.00	327.67	333.39		333.43	0.000112	0.89	382.92	747.06	0.13	94.74
Reach 1	6800	1_BU				5.27	403.00	327.67	334.01		334.05	0.000113	0.97	446.84	840.07	0.13	93.14
Reach 1	6800	0p5_BU				5.41	433.00	327.67	334.15		334.20	0.000119	1.01	477.74	852.10	0.14	92.87
Reach 1	6800	0p5-CC-LC_BU				6.29	606.20	327.67	335.02		335.07	0.000100	1.02	1250.16	917.79	0.13	77.89
Reach 1	6650	5_BU	333.01	0.40	333.41	3.81	320.00	327.66	333.37		333.39	0.000476	0.63	526.27	879.39	0.10	93.15
Reach 1	6650	1_BU	333.63	0.40	334.03	4.43	403.00	327.66	333.99		334.02	0.000443	0.67	621.14	966.94	0.10	91.74
Reach 1	6650	0p5_BU	333.77	0.40	334.17	4.57	433.00	327.66	334.13		334.16	0.000458	0.69	642.96	972.14	0.10	91.46
Reach 1	6650	0p5-CC-LC_BU	334.65	0.40	335.05	5.45	606.20	327.66	335.02		335.03	0.000280	0.61	1488.18	1048.54	0.08	68.61
Reach 1	6563	5_BU	332.23	1.20	333.43	3.34	320.00	327.63	333.33		333.35	0.000661	0.68	492.98	815.09	0.12	85.60
Reach 1	6563	1_BU	332.80	1.25	334.05	3.91	403.00	327.63	333.95		333.97	0.000603	0.72	585.39	935.17	0.12	84.53
Reach 1	6563	0p5_BU	332.81	1.40	334.20	3.91	433.00	327.63	334.08		334.11	0.000679	0.76	590.95	949.07	0.12	83.60
Reach 1	6563	0p5-CC-LC_BU	333.76	1.32	335.08	4.87	606.20	327.63	334.97		335.00	0.000644	0.86	743.95	1019.86	0.12	83.60
Reach 1	6400	5_BU	331.43	1.88	333.31	3.72	320.00	325.72	333.15		333.22	0.000909	1.12	290.89	684.61	0.18	99.40
Reach 1	6400	1_BU	331.94	1.99	333.94	4.24	403.00	325.72	333.77		333.85	0.000932	1.23	334.73	766.13	0.19	99.05
Reach 1	6400	0p5_BU	331.75	2.30	334.05	4.04	433.00	325.72	333.86		333.96	0.001252	1.38	321.12	778.29	0.22	98.95
Reach 1	6400	0p5-CC-LC_BU	332.45	2.47	334.91	4.74	606.20	325.72	334.70		334.84	0.001419	1.64	386.24	842.51	0.24	98.00
Reach 1	6300	5_BU	331.31	1.90	333.21	4.08	320.00	325.66	333.05		333.11	0.001199	1.04	308.57	688.99	0.16	81.12
Reach 1	6300	1_BU	331.80	2.05	333.84	4.56	403.00	325.66	333.67		333.74	0.001190	1.12	358.45	819.63	0.17	77.38
Reach 1	6300	0p5_BU	331.51	2.42	333.93	4.28	433.00	325.66	333.72		333.81	0.001594	1.24	342.89	824.37	0.19	74.82
Reach 1	6300	0p5-CC-LC_BU	332.22	2.56	334.78	4.98	606.20	325.66	334.56		334.67	0.001702	1.42	415.81	895.05	0.20	71.27
Reach 1	6200	5_BU	331.34	1.80	333.15	4.19	320.00	325.60	332.99		333.03	0.000388	0.93	386.94	623.63	0.14	81.99
Reach 1	6200	1_BU	331.82	1.96	333.77	4.66	403.00	325.60	333.61		333.66	0.000408	1.02	449.75	672.41	0.15	79.79
Reach 1	6200	0p5_BU	331.48	2.36	333.84	4.33	433.00	325.60	333.64		333.70	0.000568	1.14	429.19	676.82	0.18	77.39
Reach 1	6200	0p5-CC-LC_BU	332.26	2.43	334.69	5.10	606.20	325.60	334.48		334.55	0.000574	1.28	568.48	779.20	0.18	73.15
Reach 1	6150	5_BU	331.13	1.96	333.09	4.31	320.00	325.56	332.93		333.00	0.001432	1.18	273.79	527.98	0.18	90.64
Reach 1	6150	1_BU	331.56	2.16	333.71	4.73	403.00	325.56	333.53		333.62	0.001569	1.31	313.72	563.27	0.19	88.06
Reach 1	6150	0p5_BU	331.04	2.71	333.75	4.21	433.00	325.56	333.52		333.64	0.002539	1.55	283.82	562.53	0.24	85.97
Reach 1	6150	0p5-CC-LC_BU	331.61	2.98	334.59	4.79	606.20	325.56	334.34		334.49	0.002853	1.79	371.05	696.56	0.26	80.57
Reach 1	6100	5_BU	330.52	2.50	333.02	3.70	320.00	325.53	332.81		332.90	0.002360	1.37	232.35	573.08	0.23	90.14
Reach 1	6100	1_BU	330.79	2.83	333.62	3.98	403.00	325.53	333.38		333.51	0.002783	1.56	254.84	586.12	0.25	87.61
Reach 1	6100	0p5_BU	329.69	3.75	333.44	2.87	433.00	325.53	333.13		333.42	0.008469	2.19	188.96	579.87	0.41	82.80
Reach 1	6100	0p5-CC-LC_BU	329.22	4.46	333.67	2.45	606.20	325.53	333.30		334.11	0.025018	3.39	164.11	581.67	0.69	76.52
Reach 1	6050	5_BU	328.16	4.16	332.31	1.57	320.00	325.50	331.96	331.91	332.57	0.031477	2.84	102.73	494.35	0.72	77.00
Reach 1	6050	1_BU	328.31	4.52	332.84	1.71	403.00	325.50	332.46	332.46	333.13	0.032580	3.05	118.92	541.68	0.75	72.39
Reach 1	6050	0p5_BU	328.70	3.78	332.48	2.07	433.00	325.50	332.16		332.72	0.024945	3.03	135.96	515.43	0.67	82.20
Reach 1	6050	0p5-CC-LC_BU	329.85	3.15	333.00	3.19	606.20	325.50	332.74		333.16	0.012371	2.84	211.96	568.57	0.51	86.01
Reach 1	6000	5_BU	328.52	3.13	331.65	1.97	320.00	325.48	331.39		331.77	0.008562	2.76	119.90	315.48	0.63	93.14
Reach 1	6000	1_BU	329.43	2.23	331.66	2.78	403.00	325.48	331.47	330.37	331.76	0.004390	2.43	171.86	347.93	0.47	95.72
Reach 1	6000	0p5_BU	328.95	2.84	331.79	2.35	433.00	325.48	331.56		332.03	0.008482	3.09	145.91	392.43	0.64	93.93
Reach 1	6000	0p5-CC-LC_BU	329.45	2.80	332.24	2.79	606.20	325.48	332.01		332.61	0.009153	3.52	182.94	481.58	0.67	92.62
Reach 1	5950	5_BU	328.13	2.59	330.72	1.68	320.00	325.47	330.50	330.39	331.15	0.017747	3.58	90.80	115.06	0.88	97.56
Reach 1	5950	1_BU	328.78	2.33	331.11	2.25	403.00	325.47	330.91		331.43	0.009695	3.21	127.86	168.88	0.68	96.88
Reach 1	5950	0p5_BU	328.87	2.34	331.22	2.33	433.00	325.47	331.02		331.57	0.009753	3.30	133.77	199.94	0.69	96.57
Reach 1	5950	0p5-CC-LC_BU	329.65	2.14	331.78	3.05	606.20	325.47	331.60		332.19	0.007712	3.41	181.52	360.05	0.62	95.58
Reach 1	5900	5_BU	328.82	1.27	330.09	2.34	320.00	325.42	329.98		330.28	0.013415	2.40	133.30	125.09	0.50	98.42
Reach 1	5900	1_BU	328.98	1.52	330.50	2.50	403.00	325.42	330.38		330.77	0.016501	2.79	144.87	140.00	0.56	96.97
Reach 1	5900	0p5_BU	329.10	1.52	330.62	2.61	433.00	325.42	330.49		330.91	0.016286	2.85	152.30	147.43	0.56	96.59
Reach 1	5900	0p5-CC-LC_BU	329.68	1.57	331.26	3.20	606.20	325.42	331.13		331.64	0.015533	3.19	191.59	330.41	0.57	94.41
Reach 1	5850	5_BU	328.94	0.40	329.34	2.57	320.00	325.40	329.31		329.62	0.012575	2.48	129.20	102.42	0.49	99.82
Reach 1	5850	1_BU	329.29	0.40	329.69	2.92	403.00	325.40	329.65		330.04	0.013061	2.75	147.15	114.50	0.51	99.43
Reach 1	5850	0p5_BU	329.40	0.40	329.80	3.03	433.00	325.40	329.76		330.17	0.013231	2.84	153.19	117.07	0.52	99.24
Reach 1	5850	0p5-CC-LC_BU	329.98	0.40	330.38	3.61	606.20	325.40	330.35		330.90	0.014022	3.28	185.10	132.58	0.55	97.93
Reach 1	5800	5_BU	328.61	0.40	329.01	2.34	320.00	325.36	328.98		329.31	0.003802	2.53	126.57	130.27	0.53	99.97
Reach 1	5800	1_BU	328.95	0.40	329.35	2.64	403.00	325.36	329.31		329.71	0.003926	2.79	145.03	144.15	0.55	99.92
Reach 1	5800	0p5_BU	329.05	0.40	329.45	2.75	433.00	325.36	329.42		329.84	0.003965	2.88	151.21	161.45	0.55	99.89
Reach 1	5800	0p5-CC-LC_BU	329.61	0.40	330.01	3.31	606.20	325.36	329.98		330.55	0.004168	3.34	183.49	193.20	0.59	99.68
Reach 1	5750	5_BU	328.37	0.40	328.77	2.23	320.00	325.34	328.74		329.10	0.004453	2.65	120.64	172.14	0.57	99.99
Reach 1	5750	1_BU	328.69	0.40	329.09	2.51	403.00	325.34	329.06		329.49	0.004582	2.91	138.71	187.97	0.59	99.88
Reach 1	5750	0p5_BU	328.80	0.40	329.20	2.62	433.00	325.34	329.17		329.62	0.004598	3.00	144.89	192.15	0.59	99.81
Reach 1	5750	0p5-CC-LC_BU	329.35	0.40	329.75	3.17	606.20	325.34	329.72		330.32	0.004704	3.45	177.65	220.57	0.62	99.23
Reach 1	5724	5_BU	328.29	0.40	328.69	2.23	320.00	325.30	328.65		328.98	0.004005	2.51	127.39	124.44	0.54	99.97
Reach 1	5724	1_BU	328.61	0.40	329.01	2.54	403.00	325.30	328.98		329.37	0.004063	2.76	146.43	153.29	0.55	99.88
Reach 1	5724	0p5_BU	328.72	0.40	329.12	2.64	433.00	325.30	329.09		329.50	0.004076	2.84	152.89	168.86	0.56	99.82
Reach 1	5724	0p5-CC-LC_BU	329.28	0.40	329.68	3.20	606.20	325.30	329.64		330.19	0.004183	3.27	186.81	191.29	0.58	99.40
Reach 1	5650	5_BU	327.69	0.40	328.09	1.86	320.00	325.13	328.05		328.56	0.007950	3.15	101.61	81.22	0.74	100.00
Reach 1	5650	1_BU	327.98	0.40	328.38	2.11	403.00	325.13	328.34		328.94	0.007954	3.42	117.71	90.83	0.75	99.99
Reach 1	5650	0p5_BU	328.07	0.40	328.47	2.19	433.00	325.13	328.44		329.07	0.007991	3.52	123.12	96.11	0.76	99.98
Reach 1	5650	0p5-CC-LC_BU	328.56	0.40	328.96	2.66	606.20	325.13	328.92		329.75	0.008096	4.02	151.35	141.27	0.79	99.78
Reach 1	5550	5_BU				1.98	320.00	324.87	327.59		328.01	0.003607	2.85	112.09	71.61	0.65	100.00
Reach 1	5550	1_BU				2.23	403.00	324.87	327.88		328.38	0.003749	3.14	128.17	86.49	0.67	100.00
Reach 1	5550	0p5_BU				2.32	433.00	324.87	327.97		328.50	0.003799	3.25	133.42	90.24	0.68	99.99

HEC-RAS Plan: KR_Jam_5850 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	5550	0p5-CC-LC_BU				2.76	606.20	324.87	328.41		329.15	0.004132	3.81	159.57	112.47	0.73	99.93
Reach 1	5400	5_BU				1.93	320.00	324.48	327.24		327.52	0.002514	2.34	136.52	109.54	0.54	100.00
Reach 1	5400	1_BU				2.17	403.00	324.48	327.53		327.87	0.002556	2.56	157.68	118.37	0.55	100.00
Reach 1	5400	0p5_BU				2.25	433.00	324.48	327.63		327.98	0.002574	2.63	164.68	121.11	0.56	100.00
Reach 1	5400	0p5-CC-LC_BU				2.68	606.20	324.48	328.10		328.57	0.002710	3.03	200.13	133.57	0.59	99.95
Reach 1	5200	5_BU				2.14	320.00	323.95	326.96		327.13	0.001346	1.84	174.18	147.28	0.40	100.00
Reach 1	5200	1_BU				2.38	403.00	323.95	327.24		327.45	0.001437	2.04	197.79	158.87	0.42	100.00
Reach 1	5200	0p5_BU				2.46	433.00	323.95	327.33		327.56	0.001473	2.11	205.48	161.95	0.43	100.00
Reach 1	5200	0p5-CC-LC_BU				2.86	606.20	323.95	327.79		328.10	0.001671	2.48	244.14	180.17	0.47	100.00
Reach 1	4950	5_BU				1.74	320.00	323.31	326.48		326.70	0.002239	2.06	167.42	179.76	0.50	98.31
Reach 1	4950	1_BU				1.86	403.00	323.31	326.74		326.99	0.002395	2.23	197.79	228.08	0.52	97.76
Reach 1	4950	0p5_BU				1.92	433.00	323.31	326.83		327.09	0.002417	2.29	208.52	243.88	0.53	97.61
Reach 1	4950	0p5-CC-LC_BU				2.33	606.20	323.31	327.28		327.61	0.002374	2.57	271.12	340.15	0.54	96.92
Reach 1	4694	5_BU				1.61	320.00	322.84	326.02		326.17	0.001753	1.73	191.54	371.95	0.44	99.55
Reach 1	4694	1_BU				1.89	403.00	322.84	326.30		326.47	0.001612	1.84	230.30	393.36	0.43	99.03
Reach 1	4694	0p5_BU				1.98	433.00	322.84	326.40		326.58	0.001574	1.88	243.58	397.53	0.43	98.85
Reach 1	4694	0p5-CC-LC_BU				2.48	606.20	322.84	326.90		327.11	0.001433	2.09	315.21	433.58	0.42	97.91
Reach 1	4150	5_BU				1.93	320.00	322.29	324.97		325.17	0.001922	1.99	160.79	187.71	0.46	100.00
Reach 1	4150	1_BU				2.15	403.00	322.29	325.20		325.46	0.002150	2.24	180.21	208.64	0.49	100.00
Reach 1	4150	0p5_BU				2.23	433.00	322.29	325.28		325.55	0.002239	2.32	186.43	221.04	0.50	100.00
Reach 1	4150	0p5-CC-LC_BU				2.59	606.20	322.29	325.65		326.05	0.002716	2.78	218.13	251.44	0.55	99.99
Reach 1	3843	5_BU				1.08	320.00	322.07	323.61	323.54	324.05	0.008683	2.95	108.45	175.59	0.91	100.00
Reach 1	3843	1_BU				1.29	403.00	322.07	323.84	323.71	324.32	0.007441	3.07	131.42	179.92	0.86	100.00
Reach 1	3843	0p5_BU				1.37	433.00	322.07	323.92		324.41	0.006974	3.09	140.13	181.35	0.84	99.99
Reach 1	3843	0p5-CC-LC_BU				1.82	606.20	322.07	324.41		324.93	0.005028	3.17	191.67	190.38	0.75	99.88
Reach 1	3700	5_BU				1.43	320.00	320.95	323.51		323.60	0.001117	1.28	250.48	236.57	0.34	100.00
Reach 1	3700	1_BU				1.73	403.00	320.95	323.81		323.90	0.000943	1.33	302.94	251.63	0.32	100.00
Reach 1	3700	0p5_BU				1.83	433.00	320.95	323.92		324.01	0.000895	1.35	321.25	260.23	0.32	100.00
Reach 1	3700	0p5-CC-LC_BU				2.40	606.20	320.95	324.48		324.59	0.000721	1.45	420.26	288.09	0.30	99.95
Reach 1	3600	5_BU				1.60	320.00	320.47	323.08		323.39	0.003779	2.49	138.75	171.33	0.63	98.27
Reach 1	3600	1_BU				1.90	403.00	320.47	323.38		323.72	0.003346	2.62	168.55	179.59	0.61	97.56
Reach 1	3600	0p5_BU				2.00	433.00	320.47	323.48		323.83	0.003239	2.67	178.79	182.01	0.60	97.37
Reach 1	3600	0p5-CC-LC_BU				2.53	606.20	320.47	324.01		324.43	0.002842	2.93	233.97	199.34	0.59	96.31
Reach 1	3500	5_BU				2.02	320.00	320.12	322.84		323.08	0.002241	2.18	149.01	144.00	0.49	99.80
Reach 1	3500	1_BU				2.32	403.00	320.12	323.15		323.43	0.002216	2.37	173.88	151.87	0.50	99.59
Reach 1	3500	0p5_BU				2.42	433.00	320.12	323.25		323.55	0.002210	2.44	182.62	155.28	0.50	99.49
Reach 1	3500	0p5-CC-LC_BU				2.95	606.20	320.12	323.78		324.17	0.002188	2.77	237.82	215.92	0.52	98.61
Reach 1	3450	5_BU				1.96	320.00	319.97	322.62		322.94	0.003189	2.55	140.03	170.62	0.58	96.55
Reach 1	3450	1_BU				2.24	403.00	319.97	322.94		323.30	0.003111	2.70	170.26	196.02	0.58	94.74
Reach 1	3450	0p5_BU				2.34	433.00	319.97	323.05		323.41	0.003095	2.75	180.66	205.57	0.58	94.17
Reach 1	3450	0p5-CC-LC_BU				2.87	606.20	319.97	323.60		324.04	0.002903	3.04	240.27	255.50	0.57	91.90
Reach 1	3400	5_BU				1.86	320.00	319.80	322.38		322.76	0.003795	2.75	116.90	78.31	0.64	99.97
Reach 1	3400	1_BU				2.10	403.00	319.80	322.65		323.11	0.003970	3.00	135.61	84.04	0.66	99.82
Reach 1	3400	0p5_BU				2.19	433.00	319.80	322.74		323.23	0.003983	3.09	142.01	85.47	0.67	99.75
Reach 1	3400	0p5-CC-LC_BU				2.67	606.20	319.80	323.22		323.85	0.003994	3.53	177.99	100.85	0.69	99.23
Reach 1	3350	5_BU				1.88	320.00	319.64	322.25		322.57	0.003199	2.53	128.75	92.65	0.59	99.49
Reach 1	3350	1_BU				2.14	403.00	319.64	322.52		322.91	0.003298	2.77	148.61	96.70	0.61	99.39
Reach 1	3350	0p5_BU				2.23	433.00	319.64	322.61		323.03	0.003325	2.85	155.59	97.68	0.61	99.30
Reach 1	3350	0p5-CC-LC_BU				2.69	606.20	319.64	323.11		323.64	0.003421	3.25	193.88	107.25	0.63	98.79
Reach 1	3300	5_BU				1.74	320.00	319.48	321.96		322.38	0.004342	2.87	121.38	98.84	0.70	98.22
Reach 1	3300	1_BU				1.98	403.00	319.48	322.24		322.72	0.004236	3.09	145.48	104.84	0.70	97.46
Reach 1	3300	0p5_BU				2.06	433.00	319.48	322.34		322.83	0.004198	3.16	154.07	107.06	0.70	97.22
Reach 1	3300	0p5-CC-LC_BU				2.55	606.20	319.48	322.86		323.45	0.003851	3.48	203.86	121.37	0.70	96.06
Reach 1	3275	5_BU				1.47	320.00	319.45	321.68	321.54	322.23	0.007153	3.29	97.17	147.83	0.87	100.00
Reach 1	3275	1_BU				1.71	403.00	319.45	321.95	321.77	322.57	0.007017	3.49	115.43	155.14	0.85	100.00
Reach 1	3275	0p5_BU				1.79	433.00	319.45	322.04		322.69	0.006939	3.56	121.71	157.82	0.85	100.00
Reach 1	3275	0p5-CC-LC_BU				2.26	606.20	319.45	322.56		323.32	0.006449	3.85	157.41	167.42	0.82	100.00
Reach 1	3250	5_BU				1.54	320.00	319.30	321.58		322.12	0.002874	3.24	98.77	123.23	0.83	100.00
Reach 1	3250	1_BU				1.79	403.00	319.30	321.85		322.46	0.002706	3.46	116.38	141.36	0.83	100.00
Reach 1	3250	0p5_BU				1.87	433.00	319.30	321.95		322.58	0.002659	3.54	122.43	144.71	0.83	100.00
Reach 1	3250	0p5-CC-LC_BU				2.34	606.20	319.30	322.45		323.22	0.002410	3.90	155.49	151.00	0.81	100.00
Reach 1	3150	5_BU				1.97	320.00	318.88	321.59		321.87	0.001096	2.35	136.08	104.96	0.54	100.00
Reach 1	3150	1_BU				2.21	403.00	318.88	321.87		322.21	0.001131	2.58	156.06	108.66	0.55	100.00
Reach 1	3150	0p5_BU				2.30	433.00	318.88	321.97		322.33	0.001140	2.66	162.96	109.94	0.56	100.00
Reach 1	3150	0p5-CC-LC_BU				2.83	606.20	318.88	322.50		322.97	0.001114	3.02	201.41	119.42	0.57	99.91
Reach 1	3037	5_BU				2.40	320.00	318.40	321.50		321.76	0.000852	2.26	144.36	81.27	0.46	99.56
Reach 1	3037	1_BU				2.67	403.00	318.40	321.77		322.09	0.000955	2.55	162.16	88.18	0.50	99.24
Reach 1	3037	0p5_BU				2.77	433.00	318.40	321.86		322.21	0.000987	2.64	168.33	91.25	0.51	99.12
Reach 1	3037	0p5-CC-LC_BU				3.26	606.20	318.40	322.35		322.84	0.001122	3.12	202.41	104.55	0.55	98.41
Reach 1	2965	5_BU				2.44	320.00	318.25	321.43	320.38	321.70	0.000798	2.27	141.01	57.82	0.46	100.00
Reach 1	2965	1_BU				2.66	403.00	318.25	321.68	320.65	322.02	0.000965	2.59	155.47	58.53	0.51	100.00
Reach 1	2965	0p5_BU				2.74	433.00	318.25	321.77	320.75	322.14	0.001019	2.70	160.40	58.76	0.52	100.00
Reach 1	2965	0p5-CC-LC_BU				3.18	606.20	318.25	322.21	321.21	322.75	0.001215	3.25	186.98	61.92	0.58	99.98
Reach 1	2946		Bridge														
Reach 1	2919	5_BU				3.35	320.00	317.23	321.47		321.60	0.000212	1.60	200.61	61.77	0.28	99.93
Reach 1	2919	1_BU				3.61	403.00	317.23	321.73		321.90	0.000263	1.87	216.55	62.76	0.31	99.86
Reach 1	2919	0p5_BU				3.70	433.00	317.23	321.81		322.01	0.000280	1.96	222.00	63.13	0.33	99.82
Reach 1	2919	0p5-CC-LC_BU				4.16	606.20	317.23	322.28		322.58	0.000368	2.43	251.87	65.06	0.38	99.56
Reach 1	2850	5_BU				2.57	320.00	318.15	321.36		321.56	0.000543	1.96	163.05	63.56	0.39	100.00
Reach 1	2850	1_BU				2.79	403.00	318.15	321.59		321.85	0.000651	2.27	177.64	64.72	0.43	99.99
Reach 1	2850	0p5_BU				2.86	433.00	318.15	321.66		321.95	0.000687	2.37	182.57	64.87	0.45	99.98
Reach 1	2850	0p5-CC-LC_BU				3.27	606.20	318.15	322.07		322.50	0.000865	2.91	209.02	67.68	0.51	99.90
Reach 1	2800	5_BU				2.23	320.00	317.92	321.34		321.53	0.000642	1.95	186.71	110.81	0.42	97.48
Reach 1	2800	1_BU				2.40	403.00	317.92	321.57		321.81	0.000725	2.20	213.00	114.44	0.45	96.61
Reach 1	2800	0p5_BU				2.47	433.00	317.92	321.65		321.91	0.000751	2.28	222.19	117.36	0.46	96.36
Reach 1	2800	0p5-CC-LC_BU				2.85	606.20	317.92	322.08		322.43	0.000843	2.68	277.17	137.53	0.51	95.16
Reach 1	2770	5_BU				2.07	320.00	317.84	321.29		321.50	0.000792	2.06	165.40	97.03	0.46	98.99
Reach 1	2770	1_BU				2.25	403.00	317.84	321.51		321.78	0.000907	2.33	187.13	99.11	0.50	98.47
Reach 1	2770	0p5_BU				2.32	433.00	317.84	321.58		321.88	0.000940	2.42	194.59	101.02	0.51	98.30
Reach 1	2770	0p5-CC-LC_BU				2.63	606.20	317.84	322.00		322.40	0.001076	2.83	238.00	117.28	0.56	97.44
Reach 1	2750	5_BU				1.91	320.00	318.03	321.25		321.48	0.000939	2.13	150.03	78.47	0.49	100.00
Reach 1	2750	1_BU				2.09	403.00	318.03	321.46		321.76	0.001073	2.42	166.68	79.72	0.53	100.00
Reach 1	2750	0p5_BU				2.15	433.00	318.03	321.53		321.85	0.001114	2.51	172.32	80.00	0.55	100.00
Reach 1	2750	0p5-CC-LC_BU				2.49	606.20	318.03	321.92		322.37	0.001287	2.98	203.85	86.28	0.60	99.99
Reach 1	2700	5_BU				1.68	320.00	318.39	321.21		321.43	0.001072	2.10	152.62	90.75	0.52	100.00
Reach 1	2700	1_BU				1.87	403.00	318.39	321.42		321.70	0.001161	2.34	171.97	92.86	0.55	100.00
Reach 1	2700	0p5_BU				1.94	433.00	318.39	321.49		321.79	0.001186	2.42	178.60	94.20	0.56	100.00

HEC-RAS Plan: KR_Jam_5850 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	2700	0p5-CC-LC_BU				2.34	606.20	318.39	321.89		322.29	0.001245	2.81	215.72	98.83	0.59	99.97
Reach 1	2666	5_BU				1.53	320.00	318.64	321.11		321.38	0.001479	2.31	138.40	90.37	0.60	100.00
Reach 1	2666	1_BU				1.72	403.00	318.64	321.31		321.65	0.001586	2.58	156.22	91.07	0.63	100.00
Reach 1	2666	0p5_BU				1.78	433.00	318.64	321.37		321.74	0.001618	2.67	162.30	91.28	0.64	100.00
Reach 1	2666	0p5-CC-LC_BU				2.14	606.20	318.64	321.76		322.24	0.001679	3.07	197.36	93.08	0.67	100.00
Reach 1	2650	5_BU				1.53	320.00	318.67	321.06		321.36	0.001610	2.41	133.00	94.44	0.62	99.94
Reach 1	2650	1_BU				1.71	403.00	318.67	321.24		321.62	0.001756	2.71	149.44	98.47	0.66	99.81
Reach 1	2650	0p5_BU				1.77	433.00	318.67	321.30		321.71	0.001799	2.81	155.04	99.35	0.67	99.76
Reach 1	2650	0p5-CC-LC_BU				2.13	606.20	318.67	321.66		322.20	0.001892	3.26	187.85	104.90	0.71	99.39
Reach 1	2600	5_BU				1.42	320.00	318.85	321.00		321.27	0.001619	2.31	138.88	129.85	0.62	99.97
Reach 1	2600	1_BU				1.60	403.00	318.85	321.18		321.52	0.001715	2.57	157.21	135.19	0.65	99.92
Reach 1	2600	0p5_BU				1.66	433.00	318.85	321.24		321.60	0.001742	2.65	163.50	136.29	0.66	99.90
Reach 1	2600	0p5-CC-LC_BU				2.04	606.20	318.85	321.62		322.09	0.001716	3.02	201.47	155.84	0.68	99.78
Reach 1	2563	5_BU				1.29	320.00	319.01	320.89		321.20	0.002065	2.44	131.10	102.05	0.69	100.00
Reach 1	2563	1_BU				1.46	403.00	319.01	321.07		321.44	0.002151	2.70	149.22	118.27	0.71	100.00
Reach 1	2563	0p5_BU				1.52	433.00	319.01	321.13		321.53	0.002172	2.78	155.52	122.83	0.72	100.00
Reach 1	2563	0p5-CC-LC_BU				1.91	606.20	319.01	321.54		322.02	0.001948	3.07	197.28	139.18	0.71	99.99
Reach 1	2550	5_BU				1.31	320.00	318.95	320.87		321.17	0.002010	2.43	131.47	127.32	0.68	100.00
Reach 1	2550	1_BU				1.48	403.00	318.95	321.04		321.42	0.002101	2.70	149.12	138.36	0.71	99.99
Reach 1	2550	0p5_BU				1.54	433.00	318.95	321.10		321.50	0.002126	2.79	155.19	142.01	0.72	99.98
Reach 1	2550	0p5-CC-LC_BU				1.95	606.20	318.95	321.51		321.99	0.001914	3.09	196.56	167.31	0.71	99.85
Reach 1	2500	5_BU				1.32	320.00	318.86	320.77		321.07	0.001957	2.42	133.30	104.85	0.67	99.32
Reach 1	2500	1_BU				1.49	403.00	318.86	320.94		321.31	0.002062	2.69	151.14	107.71	0.70	99.03
Reach 1	2500	0p5_BU				1.55	433.00	318.86	321.00		321.39	0.002088	2.78	157.34	109.91	0.71	98.94
Reach 1	2500	0p5-CC-LC_BU				1.98	606.20	318.86	321.43		321.89	0.001792	3.03	202.81	149.69	0.69	98.32
Reach 1	2464	5_BU				1.24	328.00	318.82	320.67		320.99	0.002313	2.51	130.68	110.84	0.72	100.00
Reach 1	2464	1_BU				1.37	413.80	318.82	320.81		321.22	0.002572	2.84	145.77	116.59	0.77	99.99
Reach 1	2464	0p5_BU				1.42	445.00	318.82	320.86		321.30	0.002671	2.96	150.64	116.89	0.79	99.98
Reach 1	2464	0p5-CC-LC_BU				1.89	623.00	318.82	321.34		321.82	0.001970	3.07	203.43	135.25	0.71	99.87
Reach 1	2400	5_BU				1.14	328.00	318.95	320.55		320.83	0.002306	2.33	141.19	126.37	0.70	99.99
Reach 1	2400	1_BU				1.27	413.80	318.95	320.69		321.04	0.002575	2.62	158.57	128.45	0.74	99.94
Reach 1	2400	0p5_BU				1.31	445.00	318.95	320.73		321.11	0.002682	2.72	164.09	129.28	0.76	99.93
Reach 1	2400	0p5-CC-LC_BU				1.91	623.00	318.95	321.33		321.67	0.001575	2.60	254.36	196.55	0.60	99.07
Reach 1	2369	5_BU				0.89	328.00	318.74	320.39	320.30	320.73	0.004225	2.59	127.60	151.30	0.88	99.93
Reach 1	2369	1_BU				1.07	413.80	318.74	320.57	320.45	320.94	0.003674	2.70	155.79	154.57	0.83	99.74
Reach 1	2369	0p5_BU				1.12	445.00	318.74	320.62	320.50	321.01	0.003663	2.77	163.62	155.96	0.84	99.68
Reach 1	2369	0p5-CC-LC_BU				1.83	623.00	318.74	321.33		321.60	0.001444	2.35	288.26	232.45	0.55	98.29
Reach 1	2350	5_BU				1.05	328.00	318.43	320.41		320.64	0.002315	2.13	160.16	160.38	0.66	98.83
Reach 1	2350	1_BU				1.14	413.80	318.43	320.60		320.85	0.002258	2.25	192.84	177.23	0.67	98.50
Reach 1	2350	0p5_BU				1.20	445.00	318.43	320.65		320.92	0.002244	2.30	202.65	177.99	0.67	98.42
Reach 1	2350	0p5-CC-LC_BU				1.90	623.00	318.43	321.36		321.56	0.000959	1.99	353.43	293.10	0.46	96.83
Reach 1	2300	5_BU				1.07	328.00	317.71	320.35		320.51	0.001803	1.78	190.75	187.27	0.55	98.75
Reach 1	2300	1_BU				1.27	413.80	317.71	320.56		320.74	0.001575	1.88	229.25	189.69	0.53	98.52
Reach 1	2300	0p5_BU				1.32	445.00	317.71	320.61		320.80	0.001565	1.94	240.20	190.41	0.54	98.46
Reach 1	2300	0p5-CC-LC_BU				2.06	623.00	317.71	321.36		321.50	0.000662	1.71	414.82	331.33	0.38	97.12
Reach 1	2254	5_BU				1.04	328.00	317.67	319.85	319.85	320.34	0.006168	3.11	109.28	153.24	0.98	99.31
Reach 1	2254	1_BU				1.09	413.80	317.67	320.05	320.05	320.57	0.006361	3.23	134.33	170.39	0.99	98.65
Reach 1	2254	0p5_BU				1.16	445.00	317.67	320.19	320.11	320.65	0.005326	3.06	153.80	180.77	0.91	98.20
Reach 1	2254	0p5-CC-LC_BU				1.90	623.00	317.67	321.30		321.46	0.000982	1.87	416.87	429.81	0.43	93.75
Reach 1	2200	5_BU				0.98	328.00	317.45	319.53	319.54	320.04	0.004941	3.16	103.90	107.93	1.02	99.98
Reach 1	2200	1_BU				1.19	413.80	317.45	319.79	319.72	320.29	0.003839	3.14	132.83	114.78	0.92	99.89
Reach 1	2200	0p5_BU				1.42	445.00	317.45	320.06		320.44	0.002362	2.74	164.60	137.26	0.74	99.78
Reach 1	2200	0p5-CC-LC_BU				1.90	623.00	317.45	321.28		321.41	0.000590	1.64	485.88	444.60	0.38	93.84
Reach 1	2168	5_BU				0.81	328.00	317.62	319.29	319.38	319.85	0.007107	3.32	99.35	130.50	1.18	99.92
Reach 1	2168	1_BU				1.28	413.80	317.62	319.84		320.14	0.002056	2.42	174.00	160.21	0.68	99.56
Reach 1	2168	0p5_BU				1.47	445.00	317.62	320.11		320.34	0.001340	2.14	216.35	200.89	0.56	99.04
Reach 1	2168	0p5-CC-LC_BU				1.95	623.00	317.62	321.30		321.38	0.000323	1.27	622.21	489.61	0.29	91.69
Reach 1	2054	5_BU				1.17	328.00	317.47	319.42	318.95	319.54	0.000992	1.58	215.17	209.07	0.47	93.24
Reach 1	2054	1_BU				1.60	413.80	317.47	319.89		319.98	0.000491	1.37	322.08	246.15	0.35	90.06
Reach 1	2054	0p5_BU				1.83	445.00	317.47	320.15		320.23	0.000330	1.23	389.00	264.65	0.29	87.60
Reach 1	2054	0p5-CC-LC_BU				2.53	623.00	317.47	321.32		321.35	0.000103	0.85	813.50	414.77	0.17	77.51
Reach 1	1884	5_BU				1.76	328.00	315.75	319.08		319.34	0.001167	2.25	148.18	94.59	0.54	99.08
Reach 1	1884	1_BU				2.40	413.80	315.75	319.72		319.89	0.000540	1.88	260.50	212.16	0.39	89.42
Reach 1	1884	0p5_BU				2.72	445.00	315.75	320.05		320.17	0.000356	1.66	333.78	253.74	0.32	83.28
Reach 1	1884	0p5-CC-LC_BU				3.96	623.00	315.75	321.28		321.33	0.000105	1.16	740.48	366.60	0.19	60.50
Reach 1	1760	5_BU				2.29	328.00	315.68	318.93		319.21	0.000959	2.42	151.26	122.64	0.51	94.78
Reach 1	1760	1_BU				2.92	413.80	315.68	319.68		319.83	0.000421	1.88	284.81	212.77	0.35	78.47
Reach 1	1760	0p5_BU				3.26	445.00	315.68	320.02		320.13	0.000278	1.64	362.94	245.81	0.29	71.14
Reach 1	1760	0p5-CC-LC_BU				4.50	623.00	315.68	321.27		321.32	0.000104	1.25	682.98	271.53	0.19	53.45
Reach 1	1639	5_BU				2.24	328.00	314.98	318.93	317.49	319.09	0.000545	1.79	186.85	121.18	0.38	99.54
Reach 1	1639	1_BU				2.96	413.80	314.98	319.65	317.99	319.78	0.000326	1.67	269.30	147.29	0.31	97.18
Reach 1	1639	0p5_BU				3.28	445.00	314.98	319.97	318.08	320.10	0.000258	1.59	313.41	166.63	0.28	95.72
Reach 1	1639	0p5-CC-LC_BU				4.51	623.00	314.98	321.20	318.49	321.30	0.000154	1.52	490.86	219.49	0.23	89.66
Reach 1	1548	5_BU				2.66	328.00	314.79	318.87	317.38	319.04	0.000464	1.85	177.21	83.95	0.36	100.00
Reach 1	1548	1_BU				3.29	413.80	314.79	319.58	317.65	319.75	0.000347	1.84	225.25	98.13	0.32	99.99
Reach 1	1548	0p5_BU				3.61	445.00	314.79	319.90	317.77	320.07	0.000293	1.80	247.96	105.87	0.30	99.95
Reach 1	1548	0p5-CC-LC_BU				4.81	623.00	314.79	321.10	318.24	321.28	0.000218	1.88	338.07	175.40	0.27	99.30
Reach 1	1460	5_BU				2.02	328.00	316.31	318.84	317.89	318.99	0.000559	1.70	213.79	178.90	0.38	96.38
Reach 1	1460	1_BU				2.77	413.80	316.31	319.59	318.08	319.70	0.000289	1.51	322.14	248.68	0.29	93.03
Reach 1	1460	0p5_BU				3.11	445.00	316.31	319.93	318.15	320.02	0.000218	1.42	376.16	266.33	0.26	90.90
Reach 1	1460	0p5-CC-LC_BU				4.33	623.00	316.31	321.16	318.49	321.24	0.000120	1.31	591.46	313.61	0.20	83.90
Reach 1	1371	5_BU				1.85	328.00	315.74	318.81	317.86	318.91	0.000970	1.45	253.27	172.05	0.34	92.50
Reach 1	1371	1_BU				2.63	413.80	315.74	319.59	318.02	319.66	0.000446	1.22	407.50	220.75	0.24	87.72
Reach 1	1371	0p5_BU				2.97	445.00	315.74	319.93	318.08	319.99	0.000319	1.11	483.76	231.38	0.21	84.10
Reach 1	1371	0p5-CC-LC_BU				4.21	623.00	315.74	321.17	318.38	321.21	0.000156	0.97	785.64	341.16	0.15	74.18
Reach 1	1226	5_BU				2.20	328.00	315.18	318.65	317.48	318.77	0.000940	1.58	224.47	124.53	0.34	96.91
Reach 1	1226	1_BU				3.06	413.80	315.18	319.50	317.71	319.59	0.000475	1.37	381.73	218.03	0.25	92.52
Reach 1	1226	0p5_BU				3.42	445.00	315.18	319.86	317.78	319.94	0.000353	1.27	463.56	228.92	0.22	89.01
Reach 1	1226	0p5-CC-LC_BU				4.69	623.00	315.18	321.13	318.14	321.18	0.000193	1.14	770.17	329.62	0.17	78.60
Reach 1	1171	5_BU				2.44	328.00	314.92	318.63	317.20	318.72	0.000593	1.34	302.91	192.44	0.27	92.28
Reach 1	1171	1_BU				3.31	413.80	314.92	319.50	317.44	319.56	0.000296	1.14	501.93	271.23	0.20	84.71
Reach 1	1171	0p5_BU				3.67	445.00	314.92	319.86	317.51	319.91	0.000231	1.08	601.45	278.50	0.18	82.42
Reach 1	1171	0p5-CC-LC_BU				4.94	623.00	314.92	321.13	317.89	321.17	0.000126	0.96	1001.73	369.12	0.14	70.90
Reach 1	1060	5_BU				2.97	328.00	314.65	318.60	316.72	318.66	0.000356	1.17	348.30	210.07	0.22	93.21
Reach 1	1060	1_BU				3.85	413.80	314.65	319.48	316.92	319.53	0.000197	1.04	572.12	330.75	0.17	85.08
Reach 1	1060	0p5_BU				4.22	445.00	314.65	319.85	316.99	319.89	0.000154	0.97	696.52	341.21	0.15	81.43
Reach 1	1060	0p5-CC-LC_BU				5.50	623.00	314.65	321.12	317.35	321.16	0.000093	0.90	1135.77	347.36	0.12	70.10

HEC-RAS Plan: KR_Jam_5850 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	964	5_BU				2.76	328.00	314.83	318.59	316.49	318.63	0.000229	0.89	445.60	284.73	0.17	94.36
Reach 1	964	1_BU				3.66	413.80	314.83	319.48	316.71	319.51	0.000121	0.78	719.47	317.08	0.13	86.67
Reach 1	964	0p5_BU				4.03	445.00	314.83	319.85	316.78	319.87	0.000095	0.74	837.53	326.13	0.12	83.84
Reach 1	964	0p5-CC-LC_BU				5.30	623.00	314.83	321.12	317.15	321.15	0.000062	0.72	1266.49	375.70	0.10	76.63
Reach 1	856	5_BU				2.74	328.00	314.15	318.58	316.32	318.60	0.000164	0.75	563.50	317.43	0.14	86.98
Reach 1	856	1_BU				3.65	413.80	314.15	319.48	316.51	319.50	0.000088	0.66	865.55	387.73	0.11	81.32
Reach 1	856	0p5_BU				4.01	445.00	314.15	319.85	316.58	319.86	0.000070	0.63	993.31	392.91	0.10	78.84
Reach 1	856	0p5-CC-LC_BU				5.29	623.00	314.15	321.12	316.90	321.14	0.000046	0.62	1443.68	438.41	0.09	72.84
Reach 1	746	5_BU				3.12	328.00	313.89	318.57	316.13	318.59	0.000082	0.58	716.97	434.89	0.10	92.69
Reach 1	746	1_BU				4.02	413.80	313.89	319.48	316.27	319.49	0.000046	0.51	1118.86	566.57	0.08	84.21
Reach 1	746	0p5_BU				4.39	445.00	313.89	319.85	316.31	319.86	0.000037	0.49	1288.74	601.50	0.07	81.46
Reach 1	746	0p5-CC-LC_BU				5.67	623.00	313.89	321.12	316.55	321.13	0.000026	0.48	1892.63	664.17	0.06	74.24
Reach 1	638	5_BU				3.16	328.00	313.68	318.57	315.88	318.58	0.000060	0.50	773.57	484.53	0.09	95.79
Reach 1	638	1_BU				4.07	413.80	313.68	319.47	316.05	319.48	0.000035	0.45	1245.00	705.98	0.07	88.42
Reach 1	638	0p5_BU				4.44	445.00	313.68	319.84	316.11	319.85	0.000028	0.43	1450.27	759.64	0.07	85.75
Reach 1	638	0p5-CC-LC_BU				5.72	623.00	313.68	321.12	316.40	321.13	0.000019	0.42	2180.02	873.57	0.06	77.42

HEC-RAS Plan: KR_Jam_12600 River: Klondike River Reach: Reach 1

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	58149	5_BU				0.60	211.80	457.19	459.11	458.78	459.18	0.003960	1.28	176.98	311.40	0.53	69.92
Reach 1	58149	1_BU				0.62	258.70	457.19	459.21	458.88	459.29	0.003968	1.31	209.35	358.41	0.53	68.61
Reach 1	58149	0p5_BU				0.63	274.10	457.19	459.23	458.92	459.31	0.003967	1.34	218.21	365.59	0.54	68.59
Reach 1	58149	0p5-CC-LC_BU				0.78	383.70	457.19	459.40	459.08	459.50	0.003748	1.50	283.35	422.35	0.54	69.68
Reach 1	57145	5_BU				1.56	211.80	454.28	457.10		457.15	0.001219	1.40	307.38	553.20	0.36	51.15
Reach 1	57145	1_BU				1.67	258.70	454.28	457.21		457.26	0.001207	1.46	371.49	616.50	0.36	46.72
Reach 1	57145	0p5_BU				1.70	274.10	454.28	457.24		457.30	0.001201	1.48	392.42	637.56	0.36	45.45
Reach 1	57145	0p5-CC-LC_BU				1.89	383.70	454.28	457.43	456.97	457.49	0.001229	1.60	523.14	758.51	0.37	39.14
Reach 1	56479	5_BU				1.05	240.10	453.12	455.47	455.09	455.51	0.005101	1.12	306.13	656.22	0.35	32.50
Reach 1	56479	1_BU				1.11	296.00	453.12	455.54	455.20	455.58	0.005627	1.22	349.22	708.62	0.37	30.50
Reach 1	56479	0p5_BU				1.13	314.90	453.12	455.55	455.23	455.60	0.005788	1.26	362.46	723.99	0.38	29.88
Reach 1	56479	0p5-CC-LC_BU				1.25	440.90	453.12	455.68	455.34	455.74	0.006242	1.40	463.40	836.79	0.40	26.46
Reach 1	56103	5_BU				1.35	240.10	452.81	454.88	454.59	454.92	0.001233	1.30	480.43	1110.99	0.36	43.21
Reach 1	56103	1_BU				1.48	296.00	452.81	455.00	454.65	455.04	0.001075	1.28	619.04	1250.15	0.34	37.86
Reach 1	56103	0p5_BU				1.51	314.90	452.81	455.04	454.68	455.07	0.001035	1.28	660.65	1276.27	0.33	36.31
Reach 1	56103	0p5-CC-LC_BU				1.72	440.90	452.81	455.25	454.80	455.28	0.000857	1.27	929.03	1384.61	0.31	29.36
Reach 1	54315	5_BU				1.45	240.10	449.60	451.73	451.23	451.91	0.002405	2.04	149.24	151.29	0.54	82.29
Reach 1	54315	1_BU				1.56	296.00	449.60	451.85	451.42	452.08	0.002828	2.28	169.94	189.14	0.58	80.99
Reach 1	54315	0p5_BU				1.60	314.90	449.60	451.89	451.48	452.13	0.002970	2.36	177.13	201.14	0.60	80.66
Reach 1	54315	0p5-CC-LC_BU				1.79	440.90	449.60	452.08	451.78	452.41	0.003875	2.83	223.56	333.53	0.68	77.50
Reach 1	53429	5_BU				1.05	240.10	446.75	449.04	448.76	449.17	0.004087	1.81	160.79	290.59	0.56	64.39
Reach 1	53429	1_BU				1.23	296.00	446.75	449.22	448.87	449.34	0.003287	1.78	219.19	358.12	0.51	60.40
Reach 1	53429	0p5_BU				1.28	314.90	446.75	449.27	448.91	449.39	0.003094	1.78	239.73	373.58	0.50	59.14
Reach 1	53429	0p5-CC-LC_BU				1.57	440.90	446.75	449.61	449.12	449.71	0.002282	1.71	378.63	448.34	0.44	51.57
Reach 1	52840	5_BU				1.89	240.10	445.50	448.33		448.40	0.000706	1.22	225.51	161.57	0.28	91.14
Reach 1	52840	1_BU				2.09	296.00	445.50	448.53		448.61	0.000743	1.34	258.72	170.72	0.30	89.43
Reach 1	52840	0p5_BU				2.15	314.90	445.50	448.59		448.67	0.000755	1.38	269.27	175.04	0.30	88.94
Reach 1	52840	0p5-CC-LC_BU				2.49	440.90	445.50	448.93		449.05	0.000850	1.61	332.21	197.46	0.33	86.24
Reach 1	52279	5_BU				1.55	240.10	445.07	447.57		447.74	0.002219	1.90	140.01	174.63	0.49	97.07
Reach 1	52279	1_BU				1.71	296.00	445.07	447.73		447.93	0.002266	2.05	171.53	236.34	0.50	93.97
Reach 1	52279	0p5_BU				1.76	314.90	445.07	447.78		447.99	0.002290	2.10	182.03	249.32	0.51	92.95
Reach 1	52279	0p5-CC-LC_BU				2.03	440.90	445.07	448.05		448.29	0.002398	2.36	259.18	435.16	0.53	86.14
Reach 1	50899	5_BU				1.15	290.80	441.51	444.17		444.28	0.002637	1.69	262.99	378.00	0.50	75.78
Reach 1	50899	1_BU				1.25	363.60	441.51	444.31		444.43	0.002606	1.77	317.75	413.08	0.51	71.67
Reach 1	50899	0p5_BU				1.29	389.40	441.51	444.35		444.47	0.002582	1.81	336.60	423.60	0.51	70.54
Reach 1	50899	0p5-CC-LC_BU				1.50	545.10	441.51	444.60		444.73	0.002497	1.97	452.29	539.39	0.51	65.49
Reach 1	50334	5_BU				1.02	290.80	440.40	442.61		442.73	0.002914	1.65	216.07	310.43	0.52	89.27
Reach 1	50334	1_BU				1.14	363.60	440.40	442.73		442.88	0.002951	1.79	257.36	333.37	0.53	87.44
Reach 1	50334	0p5_BU				1.18	389.40	440.40	442.77		442.93	0.002979	1.84	271.26	347.22	0.54	86.94
Reach 1	50334	0p5-CC-LC_BU				1.41	545.10	440.40	443.00		443.19	0.003073	2.10	356.59	431.66	0.56	84.15
Reach 1	49973	5_BU				0.95	290.80	439.55	441.75	441.29	441.84	0.002227	1.37	233.64	298.17	0.45	92.65
Reach 1	49973	1_BU				1.06	363.60	439.55	441.89	441.47	441.99	0.002209	1.47	275.80	315.71	0.46	91.24
Reach 1	49973	0p5_BU				1.11	389.40	439.55	441.93	441.50	442.04	0.002190	1.51	289.92	320.11	0.46	90.82
Reach 1	49973	0p5-CC-LC_BU				1.35	545.10	439.55	442.17	441.67	442.30	0.002137	1.70	371.89	372.72	0.47	88.82
Reach 1	49383	5_BU				1.08	290.80	437.54	440.17		440.29	0.002869	1.69	199.86	221.20	0.52	73.70
Reach 1	49383	1_BU				1.22	363.60	437.54	440.35		440.48	0.002705	1.78	241.99	244.73	0.51	72.61
Reach 1	49383	0p5_BU				1.25	389.40	437.54	440.41		440.55	0.002671	1.80	257.13	255.51	0.51	72.07
Reach 1	49383	0p5-CC-LC_BU				1.47	545.10	437.54	440.73		440.88	0.002472	1.92	355.69	365.82	0.51	69.86
Reach 1	49175	5_BU				1.05	290.80	437.30	439.65		439.78	0.001867	1.56	187.04	181.06	0.48	99.97
Reach 1	49175	1_BU				1.14	363.60	437.30	439.86		439.99	0.001806	1.61	226.96	208.03	0.48	99.86
Reach 1	49175	0p5_BU				1.17	389.40	437.30	439.93		440.06	0.001806	1.63	240.54	220.70	0.48	99.82
Reach 1	49175	0p5-CC-LC_BU				1.45	545.10	437.30	440.27		440.42	0.001764	1.74	324.90	263.71	0.46	99.05
Reach 1	49000	5_BU				1.18	290.80	436.74	439.25		439.40	0.002557	1.69	178.29	167.36	0.50	97.96
Reach 1	49000	1_BU				1.28	363.60	436.74	439.48		439.63	0.002432	1.75	219.88	196.73	0.49	97.18
Reach 1	49000	0p5_BU				1.33	389.40	436.74	439.55		439.70	0.002354	1.77	233.67	201.66	0.49	96.85
Reach 1	49000	0p5-CC-LC_BU				1.66	545.10	436.74	439.92		440.09	0.002001	1.89	315.20	239.18	0.47	95.08
Reach 1	48700	5_BU				1.35	290.80	435.90	438.75		438.85	0.001302	1.42	205.87	172.61	0.39	99.96
Reach 1	48700	1_BU				1.58	363.60	435.90	438.98		439.09	0.001309	1.51	241.68	181.33	0.38	99.84
Reach 1	48700	0p5_BU				1.65	389.40	435.90	439.05		439.17	0.001316	1.55	253.42	187.02	0.38	99.78
Reach 1	48700	0p5-CC-LC_BU				2.04	545.10	435.90	439.44		439.60	0.001365	1.74	320.13	249.20	0.39	99.16
Reach 1	48530	5_BU				1.59	290.80	435.46	438.32	437.75	438.54	0.002629	2.09	150.63	142.57	0.53	98.38
Reach 1	48530	1_BU				1.78	363.60	435.46	438.51	437.93	438.77	0.002700	2.28	180.97	168.63	0.55	96.73
Reach 1	48530	0p5_BU				1.85	389.40	435.46	438.58	437.99	438.85	0.002716	2.35	192.06	179.12	0.55	96.07
Reach 1	48530	0p5-CC-LC_BU				2.20	545.10	435.46	438.93	438.40	439.26	0.002704	2.63	266.40	241.42	0.57	91.85
Reach 1	48400	5_BU				1.46	290.80	435.59	438.01		438.20	0.002423	1.95	172.86	184.61	0.52	95.64
Reach 1	48400	1_BU				1.66	363.60	435.59	438.22		438.43	0.002378	2.10	213.74	214.62	0.52	93.57
Reach 1	48400	0p5_BU				1.73	389.40	435.59	438.29		438.50	0.002345	2.13	228.98	222.76	0.52	92.66
Reach 1	48400	0p5-CC-LC_BU				2.12	545.10	435.59	438.68		438.92	0.002109	2.30	327.11	289.27	0.50	87.41
Reach 1	48250	5_BU				1.37	290.80	435.03	437.51		437.76	0.003482	2.20	140.07	144.73	0.60	98.84
Reach 1	48250	1_BU				1.64	363.60	435.03	437.78		438.03	0.002897	2.25	181.47	171.22	0.56	96.52
Reach 1	48250	0p5_BU				1.73	389.40	435.03	437.87		438.12	0.002720	2.26	198.18	198.67	0.55	95.52
Reach 1	48250	0p5-CC-LC_BU				2.23	545.10	435.03	438.37		438.61	0.001971	2.28	312.05	249.54	0.49	88.82
Reach 1	48100	5_BU				1.61	290.80	434.27	437.19		437.36	0.001910	1.85	156.94	97.43	0.47	100.00
Reach 1	48100	1_BU				1.85	363.60	434.27	437.48		437.68	0.001763	1.95	186.56	100.80	0.46	100.00
Reach 1	48100	0p5_BU				1.93	389.40	434.27	437.58		437.78	0.001735	1.98	196.44	101.88	0.46	100.00
Reach 1	48100	0p5-CC-LC_BU				2.36	545.10	434.27	438.10		438.34	0.001592	2.17	250.81	107.83	0.45	99.99
Reach 1	48010	5_BU				1.94	290.80	433.89	436.99		437.19	0.001805	1.98	147.16	75.94	0.45	100.00
Reach 1	48010	1_BU				2.11	363.60	433.89	437.27		437.51	0.001956	2.15	168.83	79.84	0.47	100.00
Reach 1	48010	0p5_BU				2.19	389.40	433.89	437.36		437.61	0.001990	2.21	176.10	80.43	0.48	100.00
Reach 1	48010	0p5-CC-LC_BU				2.60	545.10	433.89	437.84		438.17	0.002150	2.53	215.66	83.57	0.50	100.00
Reach 1	47901	5_BU				2.30	290.80	433.20	436.85		437.02	0.001211	1.82	160.01	70.67	0.38	99.98
Reach 1	47901	1_BU				2.56	363.60	433.20	437.11		437.32	0.001325	2.04	178.42	71.58	0.41	99.93
Reach 1	47901	0p5_BU				2.64	389.40	433.20	437.20		437.42	0.001362	2.12	184.49	71.88	0.42	99.91
Reach 1	47901	0p5-CC-LC_BU				3.08	545.10	433.20	437.64		437.97	0.001583	2.53	216.81	73.45	0.46	99.72
Reach 1	47790	5_BU				2.18	290.80	433.56	436.76		436.88	0.001084	1.58	184.27	84.47	0.34	100.00
Reach 1	47790	1_BU				2.40	363.60	433.56	437.01		437.17	0.001214	1.77	205.87	85.91	0.36	100.00
Reach 1	47790	0p5_BU				2.47	389.40	433.56	437.09		437.26	0.001259	1.83	213.03	86.41	0.37	100.00
Reach 1	47790	0p5-CC-LC_BU				2.85	545.10	433.56	437.53		437.77	0.001494	2.17	251.40	88.35	0.41	100.00
Reach 1	47700	5_BU				1.92	290.80	433.03	436.61	435.48	436.77	0.001328	1.76	165.54	86.19	0.40	100.00
Reach 1	47700	1_BU				2.11	363.60	433.03	436.85	435.72	437.05	0.001455	1.95	186.14	88.07	0.43	100.00
Reach 1	47700	0p5_BU				2.18	389.40	433.03	436.93	435.81	437.14	0.001492	2.02	192.98	88.50	0.44	100.00
Reach 1	47700	0p5-CC-LC_BU				2.53	545.10	433.03	437.33	436.23	437.62	0.001722	2.38	229.29	90.52	0.48	100.00
Reach 1	47550	5_BU				1.58	290.80	433.60	436.34	435.62	436.52	0.002061	1.91	152.11	96.52	0.49	100.00
Reach 1	47550	1_BU				1.72	363.60	433.60	436.56	435.82	436.78	0.002155	2.09	173.91	100.94	0.51	100.00
Reach 1	47550	0p5_BU				1.77	389.40	433.60	436.63	435.88	436.86	0.002193	2.15	181.26	102.69	0.52	100.00
Reach 1	47550	0p5-CC-LC_BU				2.09	545.10	433.60	437.02	436.23	437.32	0.002326	2.45	223.79	114.98	0.54	99.91
Reach 1	47390	5_BU				1.63	290.80	434.08	436.11		436.23	0.001427	1.59	183.42	114.36	0.40	99.99
Reach 1	47390	1_BU				1.81	363.60	434.08	436.31		436.47	0.001529	1.76	207.47	116.78	0.42	99.96

HEC-RAS Plan: KR_Jam_12600 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	47390	0p5_BU				1.88	389.40	434.08	436.38		436.55	0.001561	1.81	215.49	117.95	0.42	99.95
Reach 1	47390	0p5-CC-LC_BU				2.24	545.10	434.08	436.75		436.98	0.001728	2.12	262.25	146.18	0.45	99.77
Reach 1	47300	5_BU				1.43	290.80	433.73	435.91		436.04	0.003485	1.62	179.96	125.61	0.43	100.00
Reach 1	47300	1_BU				1.63	363.60	433.73	436.11		436.27	0.003540	1.77	205.35	126.98	0.44	100.00
Reach 1	47300	0p5_BU				1.70	389.40	433.73	436.18		436.35	0.003556	1.82	213.76	127.58	0.45	99.99
Reach 1	47300	0p5-CC-LC_BU				2.05	545.10	433.73	436.53		436.76	0.003671	2.10	262.15	152.05	0.47	99.82
Reach 1	47150	5_BU				1.40	290.80	433.25	435.27		435.51	0.003443	2.23	149.59	144.87	0.60	94.89
Reach 1	47150	1_BU				1.61	363.60	433.25	435.48		435.75	0.003273	2.38	181.09	159.22	0.60	93.06
Reach 1	47150	0p5_BU				1.68	389.40	433.25	435.55		435.82	0.003222	2.43	192.33	165.15	0.60	92.45
Reach 1	47150	0p5-CC-LC_BU				2.05	545.10	433.25	435.91		436.25	0.003043	2.69	254.56	171.80	0.60	89.19
Reach 1	47000	5_BU				1.44	290.80	432.80	434.82		435.03	0.002826	2.04	149.81	122.95	0.54	98.23
Reach 1	47000	1_BU				1.64	363.60	432.80	435.05		435.29	0.002727	2.19	180.18	148.20	0.55	97.62
Reach 1	47000	0p5_BU				1.70	389.40	432.80	435.12		435.37	0.002716	2.24	191.08	153.99	0.55	97.29
Reach 1	47000	0p5-CC-LC_BU				2.07	545.10	432.80	435.52		435.82	0.002545	2.46	261.54	207.74	0.55	94.50
Reach 1	46850	5_BU				1.56	290.80	432.38	434.53		434.68	0.001816	1.75	174.99	123.07	0.45	97.58
Reach 1	46850	1_BU				1.78	363.60	432.38	434.77		434.94	0.001776	1.88	207.02	144.02	0.45	96.91
Reach 1	46850	0p5_BU				1.85	389.40	432.38	434.84		435.03	0.001767	1.93	218.18	151.02	0.45	96.64
Reach 1	46850	0p5-CC-LC_BU				2.27	545.10	432.38	435.26		435.49	0.001717	2.16	285.75	186.50	0.46	94.81
Reach 1	46700	5_BU				1.60	290.80	431.90	434.11	433.60	434.34	0.002740	2.15	147.10	175.94	0.54	96.00
Reach 1	46700	1_BU				1.77	363.60	431.90	434.34	433.77	434.60	0.002809	2.35	172.41	193.28	0.56	95.38
Reach 1	46700	0p5_BU				1.83	389.40	431.90	434.41	433.84	434.69	0.002806	2.41	181.30	199.81	0.57	95.03
Reach 1	46700	0p5-CC-LC_BU				2.23	545.10	431.90	434.80	434.14	435.15	0.002759	2.71	237.42	254.43	0.58	92.86
Reach 1	46513	5_BU				1.49	290.80	431.49	433.78	433.15	433.97	0.002342	1.91	154.98	120.66	0.50	99.67
Reach 1	46513	1_BU				1.67	363.60	431.49	434.00	433.33	434.22	0.002396	2.06	186.00	172.97	0.51	98.93
Reach 1	46513	0p5_BU				1.73	389.40	431.49	434.08	433.39	434.30	0.002390	2.11	198.88	186.15	0.51	98.50
Reach 1	46513	0p5-CC-LC_BU				2.09	545.10	431.49	434.52	433.73	434.77	0.002211	2.25	283.52	260.90	0.50	95.03
Reach 1	46503		Bridge														
Reach 1	46441	5_BU				1.62	290.80	431.25	433.57		433.76	0.002123	1.92	152.77	112.65	0.48	99.91
Reach 1	46441	1_BU				1.80	363.60	431.25	433.76		433.99	0.002298	2.14	176.62	141.74	0.51	99.31
Reach 1	46441	0p5_BU				1.86	389.40	431.25	433.82		434.07	0.002333	2.20	185.89	152.34	0.52	98.96
Reach 1	46441	0p5-CC-LC_BU				2.23	545.10	431.25	434.19		434.50	0.002366	2.50	251.16	236.92	0.53	95.98
Reach 1	46352	5_BU				1.16	290.80	430.67	432.98		433.26	0.005055	2.36	125.55	123.56	0.70	99.72
Reach 1	46352	1_BU				1.41	363.60	430.67	433.24		433.53	0.004007	2.38	159.15	131.58	0.64	98.94
Reach 1	46352	0p5_BU				1.49	389.40	430.67	433.33		433.61	0.003769	2.40	170.51	134.16	0.63	98.63
Reach 1	46352	0p5-CC-LC_BU				1.94	545.10	430.67	433.79		434.10	0.002896	2.51	238.20	154.35	0.57	96.94
Reach 1	46300	5_BU				1.70	290.80	430.65	432.93		433.08	0.001583	1.71	171.70	119.01	0.42	99.96
Reach 1	46300	1_BU				1.95	363.60	430.65	433.20		433.37	0.001518	1.83	206.94	140.81	0.42	99.34
Reach 1	46300	0p5_BU				2.04	389.40	430.65	433.29		433.46	0.001499	1.87	219.22	142.63	0.42	99.01
Reach 1	46300	0p5-CC-LC_BU				2.49	545.10	430.65	433.75		433.97	0.001428	2.09	287.14	149.14	0.42	97.10
Reach 1	46250	5_BU				1.74	290.80	430.61	432.83		433.00	0.001752	1.82	162.34	105.55	0.44	99.46
Reach 1	46250	1_BU				1.96	363.60	430.61	433.09		433.29	0.001720	1.96	191.40	114.61	0.45	98.65
Reach 1	46250	0p5_BU				2.04	389.40	430.61	433.18		433.38	0.001708	2.00	201.68	122.56	0.45	98.27
Reach 1	46250	0p5-CC-LC_BU				2.51	545.10	430.61	433.65		433.89	0.001595	2.22	261.33	132.53	0.45	95.76
Reach 1	46200	5_BU				1.66	290.80	430.41	432.71		432.90	0.002058	1.92	151.52	91.32	0.48	100.00
Reach 1	46200	1_BU				1.87	363.60	430.41	432.97		433.19	0.002034	2.07	176.33	98.68	0.48	99.95
Reach 1	46200	0p5_BU				1.96	389.40	430.41	433.06		433.29	0.002013	2.12	184.72	100.57	0.48	99.91
Reach 1	46200	0p5-CC-LC_BU				2.41	545.10	430.41	433.51		433.80	0.001946	2.39	235.66	123.76	0.49	99.29
Reach 1	46150	5_BU				1.92	290.80	430.24	432.65		432.81	0.001435	1.74	167.12	89.21	0.40	100.00
Reach 1	46150	1_BU				2.14	363.60	430.24	432.91		433.10	0.001548	1.92	190.29	92.40	0.42	99.95
Reach 1	46150	0p5_BU				2.22	389.40	430.24	432.99		433.19	0.001576	1.98	197.99	93.26	0.42	99.92
Reach 1	46150	0p5-CC-LC_BU				2.62	545.10	430.24	433.44		433.70	0.001723	2.29	242.39	116.91	0.45	99.66
Reach 1	46100	5_BU				1.91	290.80	430.02	432.55		432.73	0.001621	1.87	157.14	85.31	0.43	99.80
Reach 1	46100	1_BU				2.13	363.60	430.02	432.79		433.01	0.001711	2.07	177.99	87.33	0.45	99.69
Reach 1	46100	0p5_BU				2.21	389.40	430.02	432.87		433.10	0.001743	2.13	184.96	93.22	0.46	99.65
Reach 1	46100	0p5-CC-LC_BU				2.64	545.10	430.02	433.30		433.61	0.001859	2.48	239.16	152.57	0.49	98.73
Reach 1	46050	5_BU				1.54	290.80	429.81	432.31		432.60	0.003475	2.38	122.09	81.49	0.61	99.99
Reach 1	46050	1_BU				1.71	363.60	429.81	432.54		432.88	0.003482	2.60	140.55	87.79	0.63	99.92
Reach 1	46050	0p5_BU				1.78	389.40	429.81	432.61		432.97	0.003491	2.67	147.05	91.22	0.64	99.88
Reach 1	46050	0p5-CC-LC_BU				2.14	545.10	429.81	433.01		433.47	0.003473	3.02	190.52	130.22	0.66	99.14
Reach 1	46000	5_BU				1.68	290.80	429.73	432.16		432.44	0.002966	2.33	124.90	74.15	0.57	100.00
Reach 1	46000	1_BU				1.84	363.60	429.73	432.37		432.71	0.003250	2.59	140.85	82.12	0.61	99.99
Reach 1	46000	0p5_BU				1.87	389.40	429.73	432.44		432.80	0.003310	2.67	146.60	88.32	0.62	99.96
Reach 1	46000	0p5-CC-LC_BU				2.22	545.10	429.73	432.81		433.29	0.003592	3.10	184.94	118.94	0.66	99.27
Reach 1	45950	5_BU				1.55	290.80	429.64	432.02		432.28	0.003117	2.26	128.54	82.74	0.58	100.00
Reach 1	45950	1_BU				1.64	363.60	429.64	432.22		432.54	0.003252	2.49	145.75	88.90	0.62	100.00
Reach 1	45950	0p5_BU				1.65	389.40	429.64	432.29		432.63	0.003282	2.56	152.02	91.87	0.64	100.00
Reach 1	45950	0p5-CC-LC_BU				1.60	545.10	429.64	432.68		433.10	0.003370	2.85	192.07	124.34	0.72	99.93
Reach 1	45850	5_BU				1.50	290.80	429.47	431.81		431.99	0.002311	1.90	153.96	111.86	0.50	99.95
Reach 1	45850	1_BU				1.69	363.60	429.47	432.02		432.24	0.002353	2.08	177.77	114.68	0.51	99.74
Reach 1	45850	0p5_BU				1.75	389.40	429.47	432.09		432.32	0.002360	2.13	186.04	116.16	0.51	99.65
Reach 1	45850	0p5-CC-LC_BU				1.99	545.10	429.47	432.49		432.78	0.002380	2.40	235.92	142.88	0.54	99.02
Reach 1	45750	5_BU				1.30	290.80	429.31	431.53		431.73	0.002962	1.96	148.56	114.20	0.55	100.00
Reach 1	45750	1_BU				1.50	363.60	429.31	431.76		431.98	0.002758	2.08	174.90	118.27	0.54	99.99
Reach 1	45750	0p5_BU				1.57	389.40	429.31	431.84		432.07	0.002700	2.12	184.04	120.04	0.54	99.98
Reach 1	45750	0p5-CC-LC_BU				1.94	545.10	429.31	432.25		432.53	0.002553	2.34	235.28	128.54	0.54	99.81
Reach 1	45600	5_BU				1.58	290.80	429.06	431.22		431.38	0.001809	1.75	166.35	105.02	0.44	100.00
Reach 1	45600	1_BU				1.79	363.60	429.06	431.45		431.64	0.001821	1.90	191.18	106.84	0.45	100.00
Reach 1	45600	0p5_BU				1.86	389.40	429.06	431.53		431.73	0.001823	1.95	199.63	107.45	0.46	100.00
Reach 1	45600	0p5-CC-LC_BU				2.18	545.10	429.06	431.93		432.19	0.001938	2.24	244.75	126.33	0.48	99.96
Reach 1	45400	5_BU				1.61	290.80	428.84	430.87		431.02	0.001698	1.71	170.86	115.10	0.43	99.90
Reach 1	45400	1_BU				1.83	363.60	428.84	431.11		431.28	0.001712	1.87	199.12	127.95	0.44	99.65
Reach 1	45400	0p5_BU				1.90	389.40	428.84	431.19		431.37	0.001700	1.91	209.63	132.14	0.44	99.49
Reach 1	45400	0p5-CC-LC_BU				2.26	545.10	428.84	431.57		431.81	0.001794	2.20	266.80	189.94	0.47	98.44
Reach 1	45200	5_BU				1.43	290.80	428.38	430.32		430.56	0.003209	2.18	135.45	102.76	0.58	99.76
Reach 1	45200	1_BU				1.61	363.60	428.38	430.54		430.82	0.003161	2.34	160.71	124.93	0.59	99.35
Reach 1	45200	0p5_BU				1.64	389.40	428.38	430.62		430.91	0.003214	2.38	170.77	134.50	0.59	99.19
Reach 1	45200	0p5-CC-LC_BU				1.96	545.10	428.38	430.99		431.34	0.003119	2.65	237.52	239.32	0.60	97.07
Reach 1	44985	5_BU				1.65	290.80	426.86	429.87		430.03	0.001765	1.77	165.94	114.91	0.44	99.87
Reach 1	44985	1_BU				1.88	363.60	426.86	430.10		430.29	0.001774	1.93	195.49	146.29	0.45	99.38
Reach 1	44985	0p5_BU				1.96	389.40	426.86	430.18		430.38	0.001781	1.99	206.80	162.46	0.45	99.07
Reach 1	44985	0p5-CC-LC_BU				2.34	545.10	426.86	430.56		430.81	0.001812	2.26	286.27	262.27	0.47	96.09
Reach 1	43733	5_BU				1.24	290.80	424.63	427.09		427.26	0.002842	1.85	167.20	154.71	0.53	91.67
Reach 1	43733	1_BU				1.33	363.60	424.63	427.24		427.44	0.002997	2.04	192.56	183.99	0.57	91.08
Reach 1	43733	0p5_BU				1.38	389.40	424.63	427.29		427.50	0.003027	2.10	202.47	195.79	0.57	90.86
Reach 1	43733	0p5-CC-LC_BU				1.64	545.10	424.63	427.56		427.82	0.003218	2.40	261.79	257.03	0.60	88.39
Reach 1	42697	5_BU				1.45	290.80	421.83	425.04	424.42	425.14	0.001612	1.54	289.57	457.65	0.41	77.28
Reach 1	42697	1_BU				1.58	363.60	421.83	425.17	424.76	425.27	0.001628	1.64	352.98	510.00	0.42	71.77

HEC-RAS Plan: KR_Jam_12600 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	42697	0p5_BU				1.62	389.40	421.83	425.21	424.81	425.32	0.001648	1.68	373.47	523.07	0.42	70.25
Reach 1	42697	0p5-CC-LC_BU				1.83	545.10	421.83	425.42	425.03	425.54	0.001731	1.86	487.42	580.10	0.44	62.80
Reach 1	41323	5_BU				0.87	290.80	419.47	421.45		421.64	0.004579	1.95	149.51	170.95	0.66	100.00
Reach 1	41323	1_BU				0.94	363.60	419.47	421.63		421.83	0.004330	1.99	183.53	214.64	0.65	99.96
Reach 1	41323	0p5_BU				0.98	389.40	419.47	421.69		421.90	0.004169	1.99	198.57	264.10	0.64	99.83
Reach 1	41323	0p5-CC-LC_BU				1.08	545.10	419.47	422.01		422.20	0.003660	1.98	308.47	435.93	0.61	95.73
Reach 1	40285	5_BU				1.48	290.80	416.85	419.58		419.62	0.001019	1.23	364.00	463.45	0.32	42.98
Reach 1	40285	1_BU				1.61	363.60	416.85	419.71		419.77	0.001082	1.35	436.90	572.89	0.34	41.14
Reach 1	40285	0p5_BU				1.66	389.40	416.85	419.76		419.81	0.001117	1.40	463.34	605.72	0.35	40.85
Reach 1	40285	0p5-CC-LC_BU				1.86	545.10	416.85	419.96		420.02	0.001281	1.61	590.93	671.87	0.38	37.73
Reach 1	39051	5_BU				0.78	290.80	414.48	417.40		417.47	0.005561	1.25	271.84	600.83	0.45	81.24
Reach 1	39051	1_BU				0.81	363.60	414.48	417.53		417.59	0.005291	1.21	362.97	757.27	0.43	74.59
Reach 1	39051	0p5_BU				0.84	389.40	414.48	417.57		417.63	0.005082	1.21	390.87	792.72	0.42	72.93
Reach 1	39051	0p5-CC-LC_BU				1.01	545.10	414.48	417.76		417.82	0.004222	1.24	561.04	981.88	0.39	65.70
Reach 1	38622	5_BU				0.85	290.80	413.89	416.80		416.82	0.000728	0.71	516.75	959.14	0.25	85.48
Reach 1	38622	1_BU				0.96	363.60	413.89	416.92		416.95	0.000767	0.75	634.79	1138.44	0.24	82.78
Reach 1	38622	0p5_BU				0.99	389.40	413.89	416.96		416.99	0.000780	0.76	674.47	1183.00	0.24	81.85
Reach 1	38622	0p5-CC-LC_BU				1.18	545.10	413.89	417.15		417.18	0.000881	0.85	880.71	1364.67	0.25	77.47
Reach 1	38155	5_BU				1.50	290.80	413.94	415.97	415.74	416.22	0.003668	2.39	195.91	409.83	0.62	85.16
Reach 1	38155	1_BU				1.70	363.60	413.94	416.18	416.00	416.40	0.003031	2.35	297.89	589.59	0.58	76.21
Reach 1	38155	0p5_BU				1.76	389.40	413.94	416.25	416.06	416.45	0.002842	2.33	339.06	658.08	0.56	73.34
Reach 1	38155	0p5-CC-LC_BU				2.07	545.10	413.94	416.57		416.72	0.002045	2.20	577.66	923.21	0.49	58.56
Reach 1	37333	5_BU				1.97	290.80	411.14	413.98		414.18	0.001838	2.03	162.39	147.21	0.46	97.40
Reach 1	37333	1_BU				2.14	363.60	411.14	414.16		414.41	0.002097	2.29	193.70	206.09	0.50	95.78
Reach 1	37333	0p5_BU				2.19	389.40	411.14	414.21		414.48	0.002200	2.38	204.03	216.08	0.51	95.12
Reach 1	37333	0p5-CC-LC_BU				2.42	545.10	411.14	414.43	413.86	414.83	0.002893	2.91	260.90	288.77	0.60	91.88
Reach 1	36316	5_BU				1.61	290.80	409.47	411.96	411.57	412.13	0.002447	2.05	234.55	523.28	0.52	79.39
Reach 1	36316	1_BU				1.70	363.60	409.47	412.13	411.80	412.29	0.002335	2.07	339.93	712.35	0.51	71.16
Reach 1	36316	0p5_BU				1.74	389.40	409.47	412.17		412.33	0.002298	2.09	371.42	742.01	0.51	68.69
Reach 1	36316	0p5-CC-LC_BU				1.96	545.10	409.47	412.41		412.55	0.002050	2.14	565.26	901.25	0.49	57.14
Reach 1	34806	5_BU				1.37	290.80	406.69	408.63		408.76	0.002135	1.72	201.64	182.57	0.47	89.52
Reach 1	34806	1_BU				1.54	363.60	406.69	408.81		408.97	0.002203	1.89	235.91	195.52	0.49	89.16
Reach 1	34806	0p5_BU				1.60	389.40	406.69	408.86		409.04	0.002219	1.94	247.23	198.71	0.49	88.67
Reach 1	34806	0p5-CC-LC_BU				1.88	545.10	406.69	409.18		409.40	0.002331	2.21	311.80	218.53	0.51	86.43
Reach 1	33067	5_BU				1.28	290.80	401.87	404.17	403.67	404.37	0.003085	1.98	147.41	118.96	0.56	99.97
Reach 1	33067	1_BU				1.48	363.60	401.87	404.38	403.86	404.61	0.002932	2.12	173.19	130.78	0.56	99.85
Reach 1	33067	0p5_BU				1.54	389.40	401.87	404.45	403.92	404.69	0.002891	2.17	182.11	155.91	0.56	99.77
Reach 1	33067	0p5-CC-LC_BU				1.92	545.10	401.87	404.83	404.22	405.12	0.002649	2.40	247.57	382.55	0.55	98.64
Reach 1	32800	5_BU				1.52	290.80	401.32	403.49	402.90	403.67	0.002219	1.88	154.88	239.36	0.49	100.00
Reach 1	32800	1_BU				1.73	363.60	401.32	403.71	403.06	403.93	0.002225	2.05	177.45	273.89	0.50	100.00
Reach 1	32800	0p5_BU				1.80	389.40	401.32	403.78	403.11	404.01	0.002229	2.11	184.83	289.60	0.50	100.00
Reach 1	32800	0p5-CC-LC_BU				2.18	545.10	401.32	404.17	403.40	404.47	0.002279	2.43	228.17	557.20	0.52	99.82
Reach 1	32550	5_BU				1.26	290.80	400.66	402.50	402.23	402.84	0.005302	2.57	113.98	152.21	0.73	99.84
Reach 1	32550	1_BU				1.36	363.60	400.66	402.66	402.43	403.07	0.005589	2.84	129.57	179.81	0.78	99.59
Reach 1	32550	0p5_BU				1.39	389.40	400.66	402.71	402.50	403.15	0.005678	2.93	135.02	192.11	0.79	99.49
Reach 1	32550	0p5-CC-LC_BU				1.64	545.10	400.66	402.99	402.85	403.56	0.006127	3.38	167.97	300.80	0.84	98.50
Reach 1	32400	5_BU				1.58	290.80	400.20	402.24	401.71	402.35	0.001660	1.67	221.26	182.99	0.42	66.96
Reach 1	32400	1_BU				1.76	363.60	400.20	402.43	401.83	402.55	0.001686	1.80	255.26	184.97	0.43	64.53
Reach 1	32400	0p5_BU				1.81	389.40	400.20	402.49	401.87	402.62	0.001697	1.85	266.47	185.95	0.44	63.85
Reach 1	32400	0p5-CC-LC_BU				2.12	545.10	400.20	402.81	402.10	402.98	0.001778	2.09	329.62	216.26	0.46	60.88
Reach 1	32250	5_BU				1.31	290.80	399.61	401.80	401.40	402.00	0.003433	2.12	161.25	163.77	0.59	80.23
Reach 1	32250	1_BU				1.46	363.60	399.61	401.98	401.54	402.20	0.003435	2.27	188.69	178.62	0.60	77.91
Reach 1	32250	0p5_BU				1.51	389.40	399.61	402.03	401.59	402.26	0.003452	2.32	198.09	186.55	0.60	77.22
Reach 1	32250	0p5-CC-LC_BU				1.78	545.10	399.61	402.33	401.92	402.61	0.003472	2.57	259.95	255.12	0.61	73.41
Reach 1	32150	5_BU				1.19	290.80	399.22	401.47	401.05	401.64	0.003328	1.96	169.41	184.02	0.57	84.50
Reach 1	32150	1_BU				1.37	363.60	399.22	401.67	401.23	401.85	0.003003	2.05	208.48	212.22	0.56	82.47
Reach 1	32150	0p5_BU				1.44	389.40	399.22	401.73	401.34	401.92	0.002895	2.07	222.40	219.43	0.55	81.55
Reach 1	32150	0p5-CC-LC_BU				1.78	545.10	399.22	402.08	401.60	402.28	0.002452	2.20	308.93	296.86	0.53	76.75
Reach 1	32000	5_BU				1.68	290.80	398.64	400.98	400.53	401.20	0.002630	2.18	159.88	147.63	0.54	87.02
Reach 1	32000	1_BU				1.88	363.60	398.64	401.20	400.72	401.44	0.002538	2.32	194.64	179.98	0.54	83.51
Reach 1	32000	0p5_BU				1.95	389.40	398.64	401.27	400.81	401.52	0.002515	2.36	207.77	195.12	0.54	82.39
Reach 1	32000	0p5-CC-LC_BU				2.32	545.10	398.64	401.66	401.12	401.92	0.002344	2.56	305.75	296.10	0.54	76.30
Reach 1	31850	5_BU				1.59	290.80	398.07	400.43	400.12	400.73	0.003690	2.50	133.22	122.53	0.63	91.60
Reach 1	31850	1_BU				1.72	363.60	398.07	400.59	400.31	400.95	0.004174	2.79	153.89	150.35	0.68	89.63
Reach 1	31850	0p5_BU				1.76	389.40	398.07	400.63	400.38	401.02	0.004321	2.88	161.30	154.87	0.70	88.88
Reach 1	31850	0p5-CC-LC_BU				1.95	545.10	398.07	400.88	400.77	401.39	0.005217	3.40	205.77	217.32	0.78	85.48
Reach 1	31700	5_BU				1.39	290.80	397.52	400.25	399.45	400.34	0.001320	1.37	246.24	267.26	0.37	86.74
Reach 1	31700	1_BU				1.51	363.60	397.52	400.40	399.59	400.51	0.001421	1.52	286.73	308.82	0.39	85.15
Reach 1	31700	0p5_BU				1.55	389.40	397.52	400.45	399.64	400.56	0.001462	1.57	299.96	320.41	0.40	84.69
Reach 1	31700	0p5-CC-LC_BU				1.77	545.10	397.52	400.69	399.93	400.84	0.001682	1.83	374.94	391.65	0.44	81.88
Reach 1	31597	5_BU				0.92	290.80	397.42	400.05	399.59	400.14	0.002506	1.42	235.52	326.55	0.47	74.31
Reach 1	31597	1_BU				1.01	363.60	397.42	400.21	399.70	400.30	0.002423	1.49	289.03	379.21	0.47	72.89
Reach 1	31597	0p5_BU				1.04	389.40	397.42	400.25	399.72	400.35	0.002396	1.51	307.26	399.15	0.47	72.44
Reach 1	31597	0p5-CC-LC_BU				1.25	545.10	397.42	400.49	399.95	400.60	0.002349	1.69	408.41	450.78	0.48	71.28
Reach 1	31500	5_BU				0.78	290.80	398.07	399.86	399.39	399.96	0.002083	1.17	233.01	292.38	0.42	28.63
Reach 1	31500	1_BU				0.88	363.60	398.07	400.00	399.53	400.12	0.002171	1.29	279.31	339.48	0.44	30.07
Reach 1	31500	0p5_BU				0.92	389.40	398.07	400.05	399.58	400.17	0.002194	1.34	295.18	354.10	0.45	30.67
Reach 1	31500	0p5-CC-LC_BU				1.15	545.10	398.07	400.29	399.81	400.42	0.002254	1.57	388.19	427.14	0.47	32.57
Reach 1	31400	5_BU				0.76	290.80	397.82	399.63	399.31	399.78	0.003235	1.39	208.92	300.13	0.51	34.05
Reach 1	31400	1_BU				0.90	363.60	397.82	399.78	399.50	399.93	0.003148	1.49	257.27	350.22	0.50	35.24
Reach 1	31400	0p5_BU				0.94	389.40	397.82	399.83	399.54	399.98	0.003156	1.53	273.08	363.11	0.50	35.42
Reach 1	31400	0p5-CC-LC_BU				1.15	545.10	397.82	400.06	399.75	400.22	0.003275	1.77	368.15	496.94	0.53	36.56
Reach 1	31350	5_BU				0.86	290.80	397.71	399.57	399.10	399.67	0.002272	1.30	241.31	292.39	0.45	39.11
Reach 1	31350	1_BU				0.98	363.60	397.71	399.72	399.25	399.83	0.002271	1.42	286.82	341.85	0.46	40.16
Reach 1	31350	0p5_BU				1.02	389.40	397.71	399.76	399.29	399.87	0.002302	1.47	301.60	360.14	0.46	40.47
Reach 1	31350	0p5-CC-LC_BU				1.23	545.10	397.71	399.98	399.51	400.12	0.002510	1.73	396.98	539.59	0.50	41.54
Reach 1	31300	5_BU				0.80	290.80	397.60	399.41	399.11	399.56	0.003833	1.62	201.57	281.10	0.58	39.00
Reach 1	31300	1_BU				0.81	363.60	397.60	399.56	399.28	399.72	0.003778	1.62	249.77	353.38	0.57	37.78
Reach 1	31300	0p5_BU				0.85	389.40	397.60	399.61	399.32	399.77	0.003707	1.65	266.05	369.11	0.57	38.09
Reach 1	31300	0p5-CC-LC_BU				1.05	545.10	397.60	399.84	399.57	400.01	0.003519	1.86	365.81	526.64	0.58	39.01
Reach 1	31250	5_BU				0.89	290.80	397.53	399.33	398.88	399.43	0.002294	1.36	245.07	340.96	0.46	44.27
Reach 1	31250	1_BU				0.94	363.60	397.53	399.49	399.00	399.59	0.002229	1.41	307.79	460.73	0.46	43.53
Reach 1	31250	0p5_BU				0.98	389.40	397.53	399.54	399.04	399.64	0.002205	1.43	330.34	489.06	0.46	43.50
Reach 1	31250	0p5-CC-LC_BU				1.22	545.10	397.53	399.78	399.30	399.88	0.002139	1.58	465.87	629.21	0.46	42.77
Reach 1	31200	5_BU				1.33	290.80	397.38	399.24	398.63	399.33	0.001518	1.47	254.08	325.28	0.41	56.44
Reach 1	31200	1_BU				1.44	363.60	397.38	399.39	398.78	399.49	0.001553	1.58	310.79	424.91	0.42	54.11
Reach 1	31200	0p5_BU				1.48	389.40	397.38	399.43	398.82	399.54	0.001583	1.62	330.42	458.85	0.42	53.45
Reach 1	31200	0p5-CC-LC_BU				1.70	545.10	397.38	399.66	399.06	399.78	0.001726	1.82	450.87	616.40	0.45	49.44

HEC-RAS Plan: KR_Jam_12600 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	31150	5_BU				1.04	290.80	397.22	399.14	398.64	399.21	0.001741	1.33	257.24	326.91	0.42	52.41
Reach 1	31150	1_BU				1.15	363.60	397.22	399.30	398.77	399.38	0.001641	1.39	321.59	483.50	0.42	50.88
Reach 1	31150	0p5_BU				1.18	389.40	397.22	399.34	398.80	399.42	0.001641	1.42	344.27	532.59	0.42	50.42
Reach 1	31150	0p5-CC-LC_BU				1.40	545.10	397.22	399.56	398.97	399.65	0.001672	1.58	476.07	652.08	0.43	47.47
Reach 1	31100	5_BU				0.99	290.80	397.05	398.70	398.44	398.89	0.004251	1.95	166.74	233.61	0.63	40.59
Reach 1	31100	1_BU				1.06	363.60	397.05	398.85	398.58	399.05	0.004369	2.07	210.37	341.55	0.64	39.98
Reach 1	31100	0p5_BU				1.08	389.40	397.05	398.90	398.64	399.10	0.004300	2.09	228.54	385.70	0.64	39.39
Reach 1	31100	0p5-CC-LC_BU				1.22	545.10	397.05	399.15	398.97	399.33	0.004043	2.20	344.36	565.57	0.63	36.81
Reach 1	31050	5_BU				0.97	290.80	396.94	398.59	398.23	398.71	0.003218	1.68	210.21	326.75	0.54	34.84
Reach 1	31050	1_BU				1.02	363.60	396.94	398.77	398.38	398.88	0.002926	1.70	276.50	455.86	0.54	33.42
Reach 1	31050	0p5_BU				1.03	389.40	396.94	398.82	398.43	398.93	0.002839	1.69	302.51	494.89	0.53	32.78
Reach 1	31050	0p5-CC-LC_BU				1.20	545.10	396.94	399.08	398.66	399.18	0.002458	1.75	448.04	624.49	0.51	30.76
Reach 1	31011	5_BU				1.05	290.80	396.85	398.45	397.94	398.53	0.002083	1.42	228.66	256.32	0.44	31.12
Reach 1	31011	1_BU				1.11	363.60	396.85	398.62	398.07	398.71	0.002190	1.52	278.90	338.29	0.46	31.04
Reach 1	31011	0p5_BU				1.13	389.40	396.85	398.67	398.10	398.76	0.002193	1.54	297.78	362.23	0.46	30.82
Reach 1	31011	0p5-CC-LC_BU				1.33	545.10	396.85	398.93	398.30	399.03	0.002015	1.64	406.26	484.58	0.45	29.22
Reach 1	30950	5_BU				0.97	290.80	396.52	398.25	397.77	398.33	0.001794	1.26	231.49	266.14	0.41	38.07
Reach 1	30950	1_BU				1.12	363.60	396.52	398.41	397.87	398.50	0.001755	1.36	278.52	309.57	0.41	38.62
Reach 1	30950	0p5_BU				1.16	389.40	396.52	398.46	397.91	398.56	0.001774	1.41	295.17	327.39	0.42	38.94
Reach 1	30950	0p5-CC-LC_BU				1.39	545.10	396.52	398.72	398.09	398.83	0.001880	1.63	390.43	406.78	0.44	39.58
Reach 1	30850	5_BU				0.79	290.80	395.91	398.09	397.56	398.16	0.002221	1.21	243.81	299.81	0.44	83.68
Reach 1	30850	1_BU				0.85	363.60	395.91	398.27	397.67	398.34	0.002048	1.22	301.50	348.46	0.42	84.05
Reach 1	30850	0p5_BU				0.88	389.40	395.91	398.32	397.71	398.39	0.001994	1.24	320.52	360.29	0.42	84.26
Reach 1	30850	0p5-CC-LC_BU				1.06	545.10	395.91	398.58	397.92	398.67	0.001840	1.34	427.59	445.43	0.42	86.28
Reach 1	30750	5_BU				0.90	290.80	395.77	397.74	397.37	397.90	0.004050	1.79	164.36	184.96	0.60	71.54
Reach 1	30750	1_BU				0.89	363.60	395.77	397.92	397.55	398.09	0.004136	1.79	201.00	223.13	0.61	70.17
Reach 1	30750	0p5_BU				0.90	389.40	395.77	397.98	397.60	398.15	0.004135	1.80	214.43	241.83	0.61	69.93
Reach 1	30750	0p5-CC-LC_BU				1.04	545.10	395.77	398.27	397.85	398.44	0.003805	1.90	305.91	391.15	0.59	71.76
Reach 1	30650	5_BU				1.18	290.80	395.40	397.49	396.94	397.62	0.002465	1.67	194.99	221.56	0.49	83.41
Reach 1	30650	1_BU				1.28	363.60	395.40	397.68	397.11	397.82	0.002400	1.74	239.44	254.17	0.49	81.09
Reach 1	30650	0p5_BU				1.32	389.40	395.40	397.74	397.16	397.88	0.002357	1.76	255.24	268.13	0.49	80.31
Reach 1	30650	0p5-CC-LC_BU				1.60	545.10	395.40	398.03	397.45	398.19	0.002214	1.95	357.35	439.55	0.49	77.42
Reach 1	30396	5_BU				1.66	290.80	394.21	396.80	396.46	397.02	0.002645	2.21	172.68	188.02	0.55	84.13
Reach 1	30396	1_BU				1.82	363.60	394.21	397.01	396.63	397.23	0.002568	2.31	213.96	220.11	0.55	79.47
Reach 1	30396	0p5_BU				1.89	389.40	394.21	397.08	396.70	397.31	0.002524	2.34	231.02	247.24	0.54	78.03
Reach 1	30396	0p5-CC-LC_BU				2.22	545.10	394.21	397.44	396.98	397.67	0.002348	2.48	343.72	380.74	0.53	70.40
Reach 1	30150	5_BU				1.58	290.80	393.70	396.10	395.64	396.34	0.003033	2.26	148.74	149.69	0.57	92.47
Reach 1	30150	1_BU				1.74	363.60	393.70	396.26	395.91	396.55	0.003242	2.49	174.86	170.30	0.60	89.98
Reach 1	30150	0p5_BU				1.79	389.40	393.70	396.31	395.97	396.62	0.003340	2.58	184.11	178.66	0.61	89.64
Reach 1	30150	0p5-CC-LC_BU				2.09	545.10	393.70	396.61	396.32	396.99	0.003592	2.96	244.33	237.39	0.65	85.36
Reach 1	29887	5_BU				1.03	290.80	393.58	395.39	394.94	395.51	0.002743	1.61	186.54	186.83	0.51	93.32
Reach 1	29887	1_BU				1.18	363.60	393.58	395.55	395.06	395.70	0.002643	1.72	218.27	196.00	0.51	92.95
Reach 1	29887	0p5_BU				1.23	389.40	393.58	395.60	395.11	395.76	0.002622	1.77	228.56	197.08	0.51	92.83
Reach 1	29887	0p5-CC-LC_BU				1.51	545.10	393.58	395.90	395.35	396.09	0.002549	1.98	287.57	206.61	0.51	92.17
Reach 1	29585	5_BU				1.06	290.80	392.36	394.38	394.02	394.56	0.003708	1.90	152.99	148.27	0.59	99.97
Reach 1	29585	1_BU				1.16	363.60	392.36	394.54	394.16	394.75	0.003795	2.05	178.19	158.79	0.61	99.84
Reach 1	29585	0p5_BU				1.21	389.40	392.36	394.59	394.20	394.81	0.003817	2.11	185.94	160.12	0.61	99.79
Reach 1	29585	0p5-CC-LC_BU				1.43	545.10	392.36	394.88	394.48	395.16	0.003775	2.35	234.95	170.80	0.63	99.42
Reach 1	29234	5_BU				1.19	290.80	391.76	393.33	392.89	393.48	0.002557	1.71	174.72	166.81	0.50	99.33
Reach 1	29234	1_BU				1.37	363.60	391.76	393.52	393.02	393.69	0.002432	1.84	206.79	175.25	0.50	98.80
Reach 1	29234	0p5_BU				1.44	389.40	391.76	393.58	393.06	393.76	0.002400	1.88	217.64	177.22	0.50	98.59
Reach 1	29234	0p5-CC-LC_BU				1.77	545.10	391.76	393.92	393.30	394.14	0.002290	2.11	280.91	203.76	0.51	97.62
Reach 1	28752	5_BU				1.40	290.80	389.58	392.10	391.58	392.25	0.002521	1.77	181.42	168.69	0.48	95.80
Reach 1	28752	1_BU				1.56	363.60	389.58	392.27	391.74	392.46	0.002664	1.95	211.99	178.58	0.50	94.78
Reach 1	28752	0p5_BU				1.62	389.40	389.58	392.33	391.79	392.53	0.002710	2.01	222.14	182.22	0.50	94.34
Reach 1	28752	0p5-CC-LC_BU				1.90	545.10	389.58	392.63	392.06	392.88	0.002952	2.30	279.45	201.07	0.53	91.84
Reach 1	27904	5_BU				1.21	290.80	387.11	389.64		389.81	0.003390	1.98	170.90	190.32	0.58	80.82
Reach 1	27904	1_BU				1.37	363.60	387.11	389.80		389.99	0.003247	2.11	203.75	204.39	0.58	78.31
Reach 1	27904	0p5_BU				1.43	389.40	387.11	389.86		390.06	0.003200	2.15	215.04	208.53	0.58	77.48
Reach 1	27904	0p5-CC-LC_BU				1.73	545.10	387.11	390.15		390.38	0.002988	2.36	288.26	296.64	0.57	73.34
Reach 1	27650	5_BU				1.24	290.80	386.21	388.61	388.26	388.83	0.003776	2.14	150.64	151.08	0.61	88.65
Reach 1	27650	1_BU				1.41	363.60	386.21	388.79	388.45	389.04	0.003687	2.30	178.10	158.42	0.62	87.18
Reach 1	27650	0p5_BU				1.47	389.40	386.21	388.85	388.49	389.11	0.003642	2.35	187.85	160.95	0.62	86.72
Reach 1	27650	0p5-CC-LC_BU				1.81	545.10	386.21	389.21	388.75	389.50	0.003283	2.55	260.03	263.35	0.61	83.66
Reach 1	27359	5_BU				1.33	290.80	385.38	387.54	387.14	387.78	0.003540	2.17	134.16	101.12	0.60	100.00
Reach 1	27359	1_BU				1.54	363.60	385.38	387.76	387.30	388.03	0.003304	2.32	157.05	103.33	0.60	100.00
Reach 1	27359	0p5_BU				1.62	389.40	385.38	387.83	387.36	388.12	0.003245	2.37	164.70	104.75	0.59	99.99
Reach 1	27359	0p5-CC-LC_BU				2.03	545.10	385.38	388.25	387.65	388.60	0.002963	2.63	209.90	115.86	0.59	99.77
Reach 1	27150	5_BU				1.76	290.80	383.59	387.01	386.21	387.21	0.002056	2.00	145.82	85.60	0.48	99.98
Reach 1	27150	1_BU				1.95	363.60	383.59	387.21	386.41	387.47	0.002246	2.24	163.45	88.80	0.51	99.90
Reach 1	27150	0p5_BU				2.02	389.40	383.59	387.28	386.49	387.55	0.002305	2.32	169.33	89.72	0.52	99.85
Reach 1	27150	0p5-CC-LC_BU				2.39	545.10	383.59	387.64	386.88	388.02	0.002571	2.74	203.33	97.32	0.57	99.48
Reach 1	26869	5_BU				1.19	290.80	383.32	385.95	385.76	386.28	0.005851	2.58	115.76	105.03	0.76	99.09
Reach 1	26869	1_BU				1.41	363.60	383.32	386.17	385.92	386.54	0.005071	2.70	139.82	108.76	0.72	98.62
Reach 1	26869	0p5_BU				1.49	389.40	383.32	386.25	385.98	386.62	0.004901	2.74	147.80	110.13	0.72	98.44
Reach 1	26869	0p5-CC-LC_BU				1.87	545.10	383.32	386.63	386.27	387.09	0.004355	3.02	191.67	116.18	0.70	97.46
Reach 1	26650	5_BU				2.06	290.80	382.27	385.62	384.53	385.75	0.001116	1.63	184.95	108.85	0.36	98.62
Reach 1	26650	1_BU				2.27	363.60	382.27	385.83	384.73	386.00	0.001253	1.85	208.28	116.04	0.39	98.01
Reach 1	26650	0p5_BU				2.34	389.40	382.27	385.89	384.80	386.08	0.001299	1.92	216.04	117.45	0.40	97.79
Reach 1	26650	0p5-CC-LC_BU				2.69	545.10	382.27	386.24	385.17	386.51	0.001557	2.30	263.14	161.27	0.45	96.53
Reach 1	26500	5_BU				2.02	290.80	382.41	385.47	384.32	385.59	0.001068	1.57	199.61	118.76	0.35	97.11
Reach 1	26500	1_BU				2.20	363.60	382.41	385.65	384.56	385.81	0.001232	1.79	223.44	139.91	0.39	96.58
Reach 1	26500	0p5_BU				2.26	389.40	382.41	385.71	384.64	385.88	0.001288	1.86	231.85	143.68	0.40	96.36
Reach 1	26500	0p5-CC-LC_BU				2.57	545.10	382.41	386.02	384.98	386.27	0.001596	2.26	285.04	212.49	0.45	94.95
Reach 1	26363	5_BU				1.46	290.80	382.60	385.21		385.37	0.002217	1.82	190.65	202.42	0.48	94.44
Reach 1	26363	1_BU				1.62	363.60	382.60	385.37		385.56	0.002333	2.00	225.75	245.53	0.50	92.33
Reach 1	26363	0p5_BU				1.67	389.40	382.60	385.42		385.62	0.002360	2.06	239.74	274.47	0.51	91.55
Reach 1	26363	0p5-CC-LC_BU				1.96	545.10	382.60	385.71	385.21	385.96	0.002461	2.34	338.43	392.24	0.53	87.26
Reach 1	26186	5_BU				1.27	290.80	382.60	384.44	384.30	384.73	0.005572	2.64	138.54	200.60	0.75	78.27
Reach 1	26186	1_BU				1.41	363.60	382.60	384.59	384.50	384.91	0.005502	2.80	171.00	229.70	0.75	74.32
Reach 1	26186	0p5_BU				1.44	389.40	382.60	384.63	384.54	384.96	0.005568	2.87	180.96	240.98	0.76	73.17
Reach 1	26186	0p5-CC-LC_BU				1.63	545.10	382.60	384.85	384.79	385.25	0.006135	3.26	241.78	350.55	0.82	68.24
Reach 1	26100	5_BU				1.43	290.80	382.20	384.35	383.84	384.46	0.001785	1.61	218.82	266.68	0.43	52.58
Reach 1	26100	1_BU				1.52	363.60	382.20	384.51	383.98	384.63	0.001863	1.72	267.68	346.89	0.45	49.97
Reach 1	26100	0p5_BU				1.56	389.40	382.20	384.56	384.02	384.67	0.001895	1.76	283.63	360.06	0.45	49.11
Reach 1	26100	0p5-CC-LC_BU				1.71	545.10	382.20	384.77	384.26	384.92	0.002200	2.02	371.34	461.96	0.49	45.90
Reach 1	25969	5_BU				1.06	290.80	381.43	384.01	383.68	384.17	0.003714	1.91	183.13	271.43	0.59	72.64

HEC-RAS Plan: KR_Jam_12600 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	25969	1_BU				1.20	363.60	381.43	384.20	383.85	384.35	0.003150	1.91	247.06	414.87	0.56	68.88
Reach 1	25969	0p5_BU				1.24	389.40	381.43	384.25	383.95	384.40	0.003123	1.95	266.37	442.54	0.56	68.00
Reach 1	25969	0p5-CC-LC_BU				1.47	545.10	381.43	384.49	384.16	384.64	0.002691	2.02	384.52	525.05	0.53	60.43
Reach 1	25849	5_BU				1.47	290.80	380.61	383.22	383.14	383.66	0.006096	3.04	109.19	114.49	0.80	89.89
Reach 1	25849	1_BU				1.57	363.60	380.61	383.43	383.39	383.89	0.006150	3.19	137.99	159.38	0.81	86.39
Reach 1	25849	0p5_BU				1.60	389.40	380.61	383.50	383.49	383.95	0.005963	3.18	149.97	170.85	0.80	84.34
Reach 1	25849	0p5-CC-LC_BU				1.75	545.10	380.61	383.82	383.80	384.27	0.005659	3.29	215.39	255.25	0.79	75.34
Reach 1	25750	5_BU				1.68	290.80	379.67	383.13	382.59	383.28	0.001855	1.90	204.16	215.40	0.47	82.34
Reach 1	25750	1_BU				1.75	363.60	379.67	383.37	382.79	383.52	0.001721	1.92	266.43	302.58	0.46	76.74
Reach 1	25750	0p5_BU				1.80	389.40	379.67	383.45	382.84	383.60	0.001686	1.92	291.44	350.73	0.46	75.13
Reach 1	25750	0p5-CC-LC_BU				2.12	545.10	379.67	383.82	383.09	383.95	0.001449	1.95	459.90	547.44	0.43	65.55
Reach 1	25700	5_BU				2.04	290.80	379.24	382.84	382.01	383.15	0.002751	2.52	130.86	141.75	0.56	95.98
Reach 1	25700	1_BU				2.15	363.60	379.24	383.05	382.34	383.39	0.002957	2.70	163.50	173.70	0.59	91.04
Reach 1	25700	0p5_BU				2.21	389.40	379.24	383.12	382.55	383.47	0.002939	2.75	176.17	187.98	0.59	89.28
Reach 1	25700	0p5-CC-LC_BU				2.52	545.10	379.24	383.45	383.26	383.83	0.002929	2.99	251.31	269.96	0.60	79.86
Reach 1	25650	5_BU				2.27	290.80	379.37	382.84	381.72	383.02	0.001474	1.99	180.63	202.08	0.42	90.34
Reach 1	25650	1_BU				2.36	363.60	379.37	383.07	381.99	383.25	0.001512	2.07	235.53	279.42	0.43	82.98
Reach 1	25650	0p5_BU				2.36	389.40	379.37	383.15	382.10	383.33	0.001520	2.07	258.39	300.83	0.43	80.21
Reach 1	25650	0p5-CC-LC_BU				2.64	545.10	379.37	383.53	382.97	383.69	0.001314	2.07	382.70	352.01	0.41	66.96
Reach 1	25600	5_BU				2.15	290.80	379.47	382.73	381.76	382.94	0.001797	2.12	164.31	159.32	0.46	89.93
Reach 1	25600	1_BU				2.19	363.60	379.47	382.94	382.19	383.17	0.002016	2.27	200.26	194.66	0.49	84.75
Reach 1	25600	0p5_BU				2.21	389.40	379.47	383.01	382.32	383.25	0.002049	2.30	214.72	209.74	0.50	82.94
Reach 1	25600	0p5-CC-LC_BU				2.53	545.10	379.47	383.36	382.89	383.61	0.002047	2.52	303.82	304.77	0.51	74.84
Reach 1	25550	5_BU				1.75	290.80	379.57	382.76	382.08	382.85	0.001197	1.51	297.50	340.41	0.37	70.01
Reach 1	25550	1_BU				1.97	363.60	379.57	382.99	382.32	383.07	0.001045	1.53	378.98	382.31	0.35	64.04
Reach 1	25550	0p5_BU				2.04	389.40	379.57	383.06	382.46	383.15	0.000992	1.53	408.79	394.04	0.34	62.09
Reach 1	25550	0p5-CC-LC_BU				2.41	545.10	379.57	383.43	382.64	383.52	0.000893	1.62	564.13	460.89	0.33	55.28
Reach 1	25500	5_BU				1.84	290.80	379.67	382.62	381.71	382.77	0.001612	1.82	176.30	136.72	0.43	90.15
Reach 1	25500	1_BU				2.02	363.60	379.67	382.82	382.05	383.00	0.001713	1.99	204.97	150.79	0.45	87.48
Reach 1	25500	0p5_BU				2.08	389.40	379.67	382.88	382.16	383.08	0.001722	2.04	215.47	154.92	0.45	86.49
Reach 1	25500	0p5-CC-LC_BU				2.37	545.10	379.67	383.18	382.51	383.44	0.002027	2.41	268.28	199.68	0.50	83.45
Reach 1	25458	5_BU				1.31	290.80	379.86	382.43	382.17	382.66	0.003940	2.26	142.92	138.20	0.63	78.51
Reach 1	25458	1_BU				1.44	363.60	379.86	382.65	382.32	382.88	0.003585	2.29	174.71	154.29	0.61	74.64
Reach 1	25458	0p5_BU				1.45	389.40	379.86	382.73	382.37	382.96	0.003497	2.27	187.71	173.04	0.60	73.18
Reach 1	25458	0p5-CC-LC_BU				1.74	545.10	379.86	383.06	382.63	383.32	0.003224	2.45	257.78	242.41	0.59	69.47
Reach 1	25400	5_BU				1.66	290.80	379.62	382.24	381.85	382.46	0.002814	2.24	147.71	119.65	0.56	75.05
Reach 1	25400	1_BU				1.79	363.60	379.62	382.46	382.02	382.70	0.002836	2.36	175.03	133.97	0.56	71.54
Reach 1	25400	0p5_BU				1.79	389.40	379.62	382.52	382.09	382.77	0.002962	2.41	183.67	143.52	0.58	70.72
Reach 1	25400	0p5-CC-LC_BU				1.91	545.10	379.62	382.84	382.38	383.13	0.003170	2.61	246.24	241.43	0.60	65.42
Reach 1	25350	5_BU				1.79	290.80	379.52	382.12	381.57	382.29	0.002029	2.00	172.48	147.10	0.48	76.05
Reach 1	25350	1_BU				1.79	363.60	379.52	382.33	381.75	382.51	0.002221	2.09	204.77	171.33	0.50	71.58
Reach 1	25350	0p5_BU				1.84	389.40	379.52	382.38	381.82	382.58	0.002281	2.16	214.89	189.97	0.51	71.09
Reach 1	25350	0p5-CC-LC_BU				2.15	545.10	379.52	382.70	382.18	382.93	0.002294	2.40	285.05	248.00	0.52	66.10
Reach 1	25300	5_BU				1.19	290.80	379.41	382.04	381.37	382.15	0.001984	1.49	197.32	174.06	0.44	99.76
Reach 1	25300	1_BU				1.16	363.60	379.41	382.22	381.53	382.35	0.002342	1.59	232.35	209.83	0.47	99.53
Reach 1	25300	0p5_BU				1.18	389.40	379.41	382.27	381.58	382.41	0.002370	1.62	244.26	215.88	0.48	99.46
Reach 1	25300	0p5-CC-LC_BU				1.30	545.10	379.41	382.59	381.83	382.74	0.002415	1.74	321.20	257.64	0.49	99.01
Reach 1	25250	5_BU				1.11	290.80	379.31	381.97	381.24	382.05	0.001627	1.29	228.58	213.12	0.39	99.66
Reach 1	25250	1_BU				1.28	363.60	379.31	382.15	381.45	382.24	0.001565	1.38	267.92	225.28	0.39	99.48
Reach 1	25250	0p5_BU				1.33	389.40	379.31	382.20	381.51	382.30	0.001553	1.41	280.59	226.66	0.39	99.41
Reach 1	25250	0p5-CC-LC_BU				1.64	545.10	379.31	382.52	381.75	382.64	0.001490	1.60	353.35	246.98	0.40	98.93
Reach 1	25169	5_BU				1.09	290.80	379.70	381.71	381.15	381.87	0.003048	1.76	169.38	157.89	0.54	98.48
Reach 1	25169	1_BU				1.18	363.60	379.70	381.88	381.33	382.06	0.003215	1.90	196.77	169.84	0.56	98.32
Reach 1	25169	0p5_BU				1.23	389.40	379.70	381.93	381.38	382.12	0.003211	1.94	205.67	170.74	0.56	98.30
Reach 1	25169	0p5-CC-LC_BU				1.51	545.10	379.70	382.23	381.73	382.47	0.003104	2.18	262.42	210.25	0.57	98.06
Reach 1	25100	5_BU				1.22	290.80	378.81	381.54	381.04	381.68	0.002378	1.66	181.33	213.67	0.48	97.23
Reach 1	25100	1_BU				1.36	363.60	378.81	381.69	381.19	381.86	0.002558	1.85	203.72	217.45	0.51	97.17
Reach 1	25100	0p5_BU				1.41	389.40	378.81	381.74	381.23	381.92	0.002621	1.92	211.01	218.66	0.52	97.15
Reach 1	25100	0p5-CC-LC_BU				1.68	545.10	378.81	382.01	381.46	382.26	0.002880	2.25	252.85	241.99	0.55	97.05
Reach 1	24950	5_BU				0.92	290.80	378.16	380.88	380.71	381.13	0.006355	2.28	138.26	169.65	0.76	95.91
Reach 1	24950	1_BU				1.10	363.60	378.16	381.08	380.85	381.34	0.005190	2.32	173.77	184.29	0.70	94.94
Reach 1	24950	0p5_BU				1.17	389.40	378.16	381.14	380.89	381.41	0.004897	2.33	185.97	189.18	0.69	94.52
Reach 1	24950	0p5-CC-LC_BU				1.50	545.10	378.16	381.49	381.14	381.78	0.003905	2.46	254.63	222.32	0.64	92.54
Reach 1	24800	5_BU				1.60	290.80	377.37	380.57	379.81	380.69	0.001533	1.58	190.15	132.16	0.40	99.04
Reach 1	24800	1_BU				1.79	363.60	377.37	380.77	379.96	380.92	0.001610	1.75	217.69	143.63	0.42	98.68
Reach 1	24800	0p5_BU				1.86	389.40	377.37	380.83	380.02	381.00	0.001632	1.80	227.38	148.82	0.42	98.51
Reach 1	24800	0p5-CC-LC_BU				2.19	545.10	377.37	381.17	380.30	381.39	0.001804	2.11	283.21	185.34	0.46	97.40
Reach 1	24693	5_BU				0.92	290.80	377.15	379.85	379.85	380.31	0.011123	2.99	97.86	109.68	1.00	99.87
Reach 1	24693	1_BU				1.07	363.60	377.15	380.01	380.01	380.53	0.010483	3.20	114.62	110.88	0.99	99.73
Reach 1	24693	0p5_BU				1.12	389.40	377.15	380.06	380.06	380.60	0.010275	3.27	120.40	111.29	0.99	99.69
Reach 1	24693	0p5-CC-LC_BU				1.62	545.10	377.15	380.57	380.34	381.05	0.005620	3.10	186.09	148.90	0.78	98.59
Reach 1	24600	5_BU				2.57	290.80	376.10	379.65	378.04	379.77	0.000770	1.57	186.26	77.20	0.31	99.97
Reach 1	24600	1_BU				2.83	363.60	376.10	379.96	378.27	380.11	0.000840	1.74	211.47	88.64	0.33	99.80
Reach 1	24600	0p5_BU				2.93	389.40	376.10	380.06	378.36	380.22	0.000858	1.80	220.69	98.74	0.34	99.69
Reach 1	24600	0p5-CC-LC_BU				3.45	545.10	376.10	380.58	378.80	380.80	0.000928	2.09	289.35	147.03	0.36	97.60
Reach 1	24500	5_BU				2.32	290.80	375.69	379.51	378.27	379.67	0.001183	1.81	164.43	84.27	0.38	99.25
Reach 1	24500	1_BU				2.58	363.60	375.69	379.81	378.53	380.01	0.001235	1.99	191.77	96.25	0.39	98.30
Reach 1	24500	0p5_BU				2.67	389.40	375.69	379.91	378.60	380.11	0.001249	2.04	201.25	98.49	0.40	97.94
Reach 1	24500	0p5-CC-LC_BU				3.17	545.10	375.69	380.42	379.03	380.69	0.001305	2.34	260.26	136.36	0.42	95.60
Reach 1	24400	5_BU				2.23	290.80	375.71	379.24	378.32	379.51	0.002067	2.32	126.02	63.01	0.50	99.96
Reach 1	24400	1_BU				2.43	363.60	375.71	379.48	378.58	379.82	0.002382	2.60	142.42	69.92	0.53	99.63
Reach 1	24400	0p5_BU				2.49	389.40	375.71	379.56	378.66	379.93	0.002468	2.69	148.04	71.77	0.54	99.47
Reach 1	24400	0p5-CC-LC_BU				2.83	545.10	375.71	379.97	379.12	380.48	0.002913	3.20	178.94	86.26	0.61	98.35
Reach 1	24350	5_BU				2.29	290.80	375.54	379.18	378.09	379.40	0.001817	2.08	141.19	67.13	0.44	99.81
Reach 1	24350	1_BU				2.47	363.60	375.54	379.42	378.34	379.70	0.002122	2.34	158.94	80.82	0.48	99.42
Reach 1	24350	0p5_BU				2.52	389.40	375.54	379.50	378.41	379.80	0.002222	2.42	165.49	87.12	0.49	99.24
Reach 1	24350	0p5-CC-LC_BU				2.91	545.10	375.54	379.91	378.87	380.32	0.002589	2.87	206.77	116.82	0.54	97.66
Reach 1	24300	5_BU				2.20	290.80	375.93	379.12	378.07	379.31	0.001463	1.94	150.46	75.09	0.42	99.92
Reach 1	24300	1_BU				2.39	363.60	375.93	379.35	378.30	379.59	0.001671	2.19	168.53	82.28	0.45	99.67
Reach 1	24300	0p5_BU				2.44	389.40	375.93	379.42	378.37	379.69	0.001741	2.27	174.85	86.53	0.46	99.56
Reach 1	24300	0p5-CC-LC_BU				2.79	545.10	375.93	379.82	378.78	380.19	0.002067	2.70	214.28	111.96	0.52	98.52
Reach 1	24250	5_BU				2.22	290.80	376.30	379.08	377.96	379.23	0.001133	1.72	173.78	92.13	0.37	99.09
Reach 1	24250	1_BU				2.44	363.60	376.30	379.32	378.16	379.50	0.001266	1.94	196.30	101.16	0.40	98.43
Reach 1	24250	0p5_BU				2.52	389.40	376.30	379.39	378.23	379.59	0.001306	2.01	204.05	103.10	0.40	98.16
Reach 1	24250	0p5-CC-LC_BU				2.91	545.10	376.30	379.80	378.61	380.08	0.001516	2.38	252.69	153.48	0.45	96.65
Reach 1	24200	5_BU				1.92	290.80	376.73	379.00	378.13	379.17	0.001491	1.80	166.58	98.16	0.41	98.92
Reach 1	24200	1_BU				2.12	363.60	376.73	379.23	378.31	379.43	0.001603	1.99	189.60	102.93	0.44	98.26
Reach 1	24200	0p5_BU				2.20	389.40	376.73	379.31	378.37	379.52	0.001634	2.06	197.42	106.93	0.44	98.04

HEC-RAS Plan: KR_Jam_12600 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	24200	0p5-CC-LC_BU				2.60	545.10	376.73	379.71	378.74	380.00	0.001771	2.39	247.88	158.75	0.47	96.49
Reach 1	24150	5_BU				1.65	290.80	376.70	378.87	378.23	379.07	0.002248	2.00	147.33	95.95	0.50	99.58
Reach 1	24150	1_BU				1.87	363.60	376.70	379.09	378.42	379.33	0.002312	2.20	168.64	98.94	0.51	99.17
Reach 1	24150	0p5_BU				1.94	389.40	376.70	379.16	378.47	379.42	0.002333	2.26	175.78	101.03	0.52	99.03
Reach 1	24150	0p5-CC-LC_BU				2.32	545.10	376.70	379.55	378.81	379.89	0.002434	2.61	221.21	137.46	0.55	97.90
Reach 1	24100	5_BU				1.73	290.80	376.59	378.75	378.09	378.96	0.002236	2.05	144.33	93.93	0.50	99.46
Reach 1	24100	1_BU				1.93	363.60	376.59	378.96	378.27	379.22	0.002376	2.28	164.09	99.11	0.52	98.87
Reach 1	24100	0p5_BU				2.00	389.40	376.59	379.02	378.33	379.30	0.002420	2.35	170.87	101.93	0.53	98.65
Reach 1	24100	0p5-CC-LC_BU				2.36	545.10	376.59	379.39	378.71	379.76	0.002641	2.75	211.60	130.45	0.57	97.28
Reach 1	24050	5_BU				1.78	290.80	376.51	378.65	377.94	378.85	0.002068	2.02	146.22	154.30	0.48	99.68
Reach 1	24050	1_BU				1.97	363.60	376.51	378.84	378.13	379.10	0.002266	2.26	165.28	165.48	0.51	99.17
Reach 1	24050	0p5_BU				2.04	389.40	376.51	378.91	378.19	379.18	0.002327	2.34	172.02	171.76	0.52	98.96
Reach 1	24050	0p5-CC-LC_BU				2.39	545.10	376.51	379.25	378.55	379.63	0.002608	2.75	211.67	193.18	0.57	97.41
Reach 1	24000	5_BU				1.80	290.80	376.41	378.55	377.83	378.75	0.002004	1.99	146.70	119.15	0.47	99.96
Reach 1	24000	1_BU				1.97	363.60	376.41	378.73	378.00	378.99	0.002282	2.25	163.94	128.24	0.51	99.63
Reach 1	24000	0p5_BU				2.03	389.40	376.41	378.79	378.07	379.07	0.002379	2.34	169.70	133.86	0.53	99.51
Reach 1	24000	0p5-CC-LC_BU				2.32	545.10	376.41	379.10	378.41	379.49	0.002862	2.81	205.24	189.62	0.59	98.42
Reach 1	23950	5_BU				1.70	290.80	376.45	378.45	377.80	378.64	0.002072	1.95	158.09	149.75	0.48	97.52
Reach 1	23950	1_BU				1.86	363.60	376.45	378.63	377.98	378.86	0.002311	2.19	179.52	160.16	0.51	96.43
Reach 1	23950	0p5_BU				1.92	389.40	376.45	378.68	378.05	378.94	0.002393	2.27	186.74	164.37	0.52	96.09
Reach 1	23950	0p5-CC-LC_BU				2.18	545.10	376.45	378.98	378.40	379.33	0.002851	2.70	231.22	220.12	0.58	94.43
Reach 1	23900	5_BU				1.61	290.80	376.38	378.36	377.74	378.53	0.002005	1.86	166.89	160.21	0.47	95.73
Reach 1	23900	1_BU				1.77	363.60	376.38	378.53	377.91	378.74	0.002248	2.10	188.45	181.46	0.50	95.07
Reach 1	23900	0p5_BU				1.83	389.40	376.38	378.58	377.97	378.81	0.002326	2.18	195.91	190.09	0.51	94.79
Reach 1	23900	0p5-CC-LC_BU				2.11	545.10	376.38	378.86	378.26	379.18	0.002716	2.59	246.61	271.43	0.57	93.04
Reach 1	23850	5_BU				1.54	290.80	376.45	378.27	377.67	378.43	0.002019	1.80	172.45	166.51	0.46	94.47
Reach 1	23850	1_BU				1.68	363.60	376.45	378.42	377.82	378.62	0.002297	2.04	193.09	182.82	0.50	93.77
Reach 1	23850	0p5_BU				1.72	389.40	376.45	378.47	377.87	378.68	0.002394	2.12	199.85	195.75	0.51	93.54
Reach 1	23850	0p5-CC-LC_BU				1.94	545.10	376.45	378.72	378.17	379.03	0.002982	2.56	239.04	259.78	0.59	92.87
Reach 1	23800	5_BU				1.38	290.80	376.34	378.14	377.66	378.31	0.002516	1.87	174.23	198.61	0.51	92.85
Reach 1	23800	1_BU				1.52	363.60	376.34	378.28	377.82	378.49	0.002808	2.11	196.86	217.68	0.55	91.67
Reach 1	23800	0p5_BU				1.56	389.40	376.34	378.32	377.87	378.54	0.002911	2.18	204.27	224.19	0.56	91.27
Reach 1	23800	0p5-CC-LC_BU				1.79	545.10	376.34	378.55	378.16	378.86	0.003472	2.61	245.56	274.10	0.62	89.32
Reach 1	23750	5_BU				1.12	290.80	376.43	378.03	377.61	378.15	0.002562	1.63	219.58	253.72	0.49	79.36
Reach 1	23750	1_BU				1.24	363.60	376.43	378.16	377.73	378.30	0.002786	1.82	254.08	272.79	0.52	78.90
Reach 1	23750	0p5_BU				1.28	389.40	376.43	378.21	377.77	378.36	0.002826	1.86	266.18	283.89	0.53	78.31
Reach 1	23750	0p5-CC-LC_BU				1.50	545.10	376.43	378.45	377.98	378.63	0.002976	2.09	342.61	345.85	0.55	74.87
Reach 1	23700	5_BU				0.80	290.80	376.64	377.87	377.52	377.96	0.003627	1.55	241.39	354.52	0.55	60.76
Reach 1	23700	1_BU				0.93	363.60	376.64	378.01	377.62	378.11	0.003284	1.63	293.67	393.12	0.54	60.18
Reach 1	23700	0p5_BU				0.98	389.40	376.64	378.05	377.62	378.16	0.003165	1.65	312.75	409.28	0.53	59.82
Reach 1	23700	0p5-CC-LC_BU				1.23	545.10	376.64	378.32	377.80	378.43	0.002643	1.74	441.03	574.95	0.50	57.32
Reach 1	23650	5_BU				0.83	290.80	376.40	377.63	377.35	377.74	0.003995	1.67	205.68	310.26	0.58	64.76
Reach 1	23650	1_BU				1.00	363.60	376.40	377.81	377.45	377.92	0.003320	1.71	265.26	368.14	0.55	64.64
Reach 1	23650	0p5_BU				1.05	389.40	376.40	377.86	377.47	377.98	0.003181	1.73	286.04	381.40	0.54	64.45
Reach 1	23650	0p5-CC-LC_BU				1.26	545.10	376.40	378.16	377.65	378.28	0.002676	1.77	418.72	516.32	0.50	61.09
Reach 1	23600	5_BU				0.90	290.80	375.86	377.50	377.06	377.58	0.002473	1.40	256.78	345.39	0.47	60.95
Reach 1	23600	1_BU				1.09	363.60	375.86	377.71	377.15	377.78	0.001993	1.42	332.32	384.93	0.44	61.02
Reach 1	23600	0p5_BU				1.14	389.40	375.86	377.77	377.18	377.84	0.001890	1.43	356.60	400.61	0.43	60.62
Reach 1	23600	0p5-CC-LC_BU				1.37	545.10	375.86	378.08	377.35	378.16	0.001638	1.50	495.28	481.55	0.41	58.27
Reach 1	23550	5_BU				0.95	290.80	375.45	377.39	376.96	377.47	0.002199	1.36	236.27	313.11	0.45	65.21
Reach 1	23550	1_BU				1.17	363.60	375.45	377.62	377.06	377.70	0.001695	1.37	316.38	368.59	0.41	65.69
Reach 1	23550	0p5_BU				1.23	389.40	375.45	377.69	377.10	377.77	0.001631	1.39	340.74	380.78	0.40	65.69
Reach 1	23550	0p5-CC-LC_BU				1.44	545.10	375.45	378.01	377.30	378.09	0.001478	1.47	477.28	479.60	0.39	62.85
Reach 1	23500	5_BU				1.07	290.80	375.07	377.31	376.64	377.38	0.001490	1.20	258.58	270.65	0.37	66.74
Reach 1	23500	1_BU				1.27	363.60	375.07	377.56	376.76	377.63	0.001227	1.22	336.85	351.69	0.35	67.14
Reach 1	23500	0p5_BU				1.32	389.40	375.07	377.63	376.80	377.69	0.001196	1.24	361.00	365.19	0.34	66.90
Reach 1	23500	0p5-CC-LC_BU				1.58	545.10	375.07	377.95	377.02	378.03	0.001140	1.36	489.85	444.86	0.35	65.61
Reach 1	23450	5_BU				1.17	290.80	375.14	377.26	376.42	377.32	0.001048	1.11	285.69	265.50	0.33	72.80
Reach 1	23450	1_BU				1.33	363.60	375.14	377.52	376.54	377.57	0.000933	1.13	359.74	316.14	0.31	72.67
Reach 1	23450	0p5_BU				1.38	389.40	375.14	377.58	376.57	377.64	0.000929	1.16	381.57	331.28	0.31	72.77
Reach 1	23450	0p5-CC-LC_BU				1.47	545.10	375.14	377.91	376.80	377.97	0.001052	1.24	505.98	451.06	0.33	70.01
Reach 1	23400	5_BU				1.23	290.80	375.03	377.21	376.39	377.27	0.000989	1.12	281.06	236.58	0.32	71.29
Reach 1	23400	1_BU				1.31	363.60	375.03	377.47	376.50	377.53	0.000962	1.12	347.35	283.55	0.31	70.00
Reach 1	23400	0p5_BU				1.36	389.40	375.03	377.54	376.53	377.60	0.000952	1.15	366.73	291.92	0.31	70.12
Reach 1	23400	0p5-CC-LC_BU				1.49	545.10	375.03	377.85	376.74	377.92	0.001087	1.28	466.33	368.07	0.33	69.07
Reach 1	23300	5_BU				1.32	290.80	374.20	377.06	376.25	377.16	0.001496	1.40	226.97	196.95	0.39	90.18
Reach 1	23300	1_BU				1.17	363.60	374.20	377.33	376.40	377.41	0.001676	1.37	289.93	277.45	0.40	87.64
Reach 1	23300	0p5_BU				1.21	389.40	374.20	377.40	376.45	377.48	0.001615	1.37	310.26	289.05	0.40	87.39
Reach 1	23300	0p5-CC-LC_BU				1.41	545.10	374.20	377.70	376.71	377.80	0.001624	1.52	403.73	343.56	0.41	86.74
Reach 1	23200	5_BU				1.15	290.80	374.25	376.72	376.38	376.92	0.003629	2.01	150.64	143.99	0.60	94.78
Reach 1	23200	1_BU				1.18	363.60	374.25	376.97	376.53	377.17	0.003575	2.02	188.78	178.35	0.59	93.43
Reach 1	23200	0p5_BU				1.12	389.40	374.25	377.04	376.57	377.24	0.003783	2.01	202.83	198.09	0.61	92.66
Reach 1	23200	0p5-CC-LC_BU				1.23	545.10	374.25	377.32	376.86	377.55	0.003921	2.17	265.29	256.30	0.63	91.26
Reach 1	23016	5_BU				1.26	290.80	373.81	376.26		376.39	0.002152	1.63	198.73	222.39	0.46	84.28
Reach 1	23016	1_BU				1.22	363.60	373.81	376.48		376.60	0.002346	1.67	249.67	291.08	0.48	81.90
Reach 1	23016	0p5_BU				1.24	389.40	373.81	376.54		376.66	0.002319	1.67	266.09	307.22	0.48	80.69
Reach 1	23016	0p5-CC-LC_BU				1.43	545.10	373.81	376.85		376.99	0.002114	1.76	356.72	345.38	0.47	76.40
Reach 1	22900	5_BU				1.10	290.80	373.42	375.67		375.97	0.006033	2.49	123.78	154.32	0.76	94.80
Reach 1	22900	1_BU				1.28	363.60	373.42	375.92		376.21	0.004694	2.43	163.09	199.11	0.69	92.00
Reach 1	22900	0p5_BU				1.35	389.40	373.42	376.00		376.28	0.004366	2.43	176.86	213.80	0.67	90.99
Reach 1	22900	0p5-CC-LC_BU				1.32	545.10	373.42	376.37		376.63	0.004288	2.37	266.02	335.41	0.66	83.72
Reach 1	22750	5_BU				1.31	290.80	372.99	375.22		375.38	0.002450	1.78	163.49	126.86	0.50	100.00
Reach 1	22750	1_BU				1.21	363.60	372.99	375.46		375.63	0.002868	1.83	198.58	172.22	0.53	99.99
Reach 1	22750	0p5_BU				1.17	389.40	372.99	375.55		375.72	0.002982	1.83	213.24	192.08	0.54	99.98
Reach 1	22750	0p5-CC-LC_BU				1.20	545.10	372.99	375.92		376.09	0.002921	1.84	299.14	284.67	0.54	99.31
Reach 1	22584	5_BU				1.37	290.80	372.69	374.84		374.99	0.002172	1.73	168.93	131.58	0.47	99.94
Reach 1	22584	1_BU				1.58	363.60	372.69	375.06		375.23	0.002070	1.86	198.65	149.09	0.47	99.65
Reach 1	22584	0p5_BU				1.65	389.40	372.69	375.12		375.31	0.002056	1.91	209.51	173.56	0.47	99.47
Reach 1	22584	0p5-CC-LC_BU				2.00	545.10	372.69	375.48		375.70	0.001967	2.12	288.44	284.11	0.48	95.88
Reach 1	22500	5_BU				1.54	290.80	372.35	374.65		374.82	0.002012	1.80	168.51	128.37	0.46	98.09
Reach 1	22500	1_BU				1.63	363.60	372.35	374.87		375.06	0.002087	1.95	198.45	151.08	0.49	97.15
Reach 1	22500	0p5_BU				1.68	389.40	372.35	374.93		375.13	0.002093	2.00	208.89	158.67	0.49	96.97
Reach 1	22500	0p5-CC-LC_BU				2.01	545.10	372.35	375.27		375.52	0.002177	2.27	266.76	236.70	0.51	94.50
Reach 1	22400	5_BU				1.60	290.80	372.16	374.45		374.62	0.001956	1.84	159.96	109.70	0.46	98.21
Reach 1	22400	1_BU				1.78	363.60	372.16	374.64		374.85	0.002064	2.03	181.74	134.44	0.49	97.21
Reach 1	22400	0p5_BU				1.83	389.40	372.16	374.70		374.92	0.002102	2.09	189.33	139.15	0.49	96.82
Reach 1	22400	0p5-CC-LC_BU				2.12	545.10	372.16	375.02		375.29	0.002234	2.39	247.67	327.51	0.52	92.89

HEC-RAS Plan: KR_Jam_12600 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	22300	5_BU				1.39	290.80	371.96	374.08		374.35	0.003512	2.29	130.66	118.86	0.62	98.51
Reach 1	22300	1_BU				1.49	363.60	371.96	374.23		374.56	0.003870	2.55	150.16	140.76	0.67	97.21
Reach 1	22300	0p5_BU				1.53	389.40	371.96	374.28		374.62	0.003991	2.64	156.95	150.69	0.68	96.69
Reach 1	22300	0p5-CC-LC_BU				1.73	545.10	371.96	374.50	374.36	374.96	0.004706	3.10	196.71	213.04	0.75	93.00
Reach 1	22200	5_BU				1.32	290.80	371.77	373.91		374.04	0.002049	1.67	179.57	183.13	0.46	93.08
Reach 1	22200	1_BU				1.47	363.60	371.77	374.07		374.22	0.002077	1.80	212.09	217.42	0.47	90.09
Reach 1	22200	0p5_BU				1.53	389.40	371.77	374.12		374.28	0.002057	1.83	224.26	231.27	0.47	88.80
Reach 1	22200	0p5-CC-LC_BU				1.79	545.10	371.77	374.38		374.57	0.002019	2.01	296.98	324.53	0.48	81.43
Reach 1	22094	5_BU				1.06	310.30	371.63	373.58		373.75	0.003438	1.84	170.44	201.19	0.57	92.48
Reach 1	22094	1_BU				1.18	389.90	371.63	373.74		373.93	0.003274	1.92	207.80	253.50	0.57	89.39
Reach 1	22094	0p5_BU				1.21	418.50	371.63	373.80		373.99	0.003208	1.95	223.01	266.72	0.56	88.57
Reach 1	22094	0p5-CC-LC_BU				1.29	586.00	371.63	374.08		374.27	0.003085	1.99	305.59	361.49	0.56	80.32
Reach 1	22050	5_BU				0.97	310.30	371.32	373.41		373.58	0.004083	1.89	178.03	217.83	0.61	94.94
Reach 1	22050	1_BU				1.05	389.90	371.32	373.56		373.76	0.004239	2.03	215.09	274.47	0.63	94.47
Reach 1	22050	0p5_BU				1.06	418.50	371.32	373.62		373.83	0.004262	2.04	232.59	299.37	0.63	93.82
Reach 1	22050	0p5-CC-LC_BU				1.11	586.00	371.32	373.87		374.10	0.004632	2.21	316.69	382.68	0.67	91.25
Reach 1	21950	5_BU				0.85	310.30	370.75	372.91		373.10	0.005049	1.92	160.03	239.44	0.67	85.97
Reach 1	21950	1_BU				0.88	389.90	370.75	373.07		373.27	0.005012	1.96	199.41	288.74	0.67	84.72
Reach 1	21950	0p5_BU				0.89	418.50	370.75	373.13		373.32	0.005164	2.00	213.65	309.83	0.68	85.49
Reach 1	21950	0p5-CC-LC_BU				0.96	586.00	370.75	373.39		373.59	0.004627	1.99	301.48	440.28	0.65	81.19
Reach 1	21825	5_BU				0.84	310.30	370.87	372.60		372.72	0.002103	1.23	221.53	313.03	0.43	63.66
Reach 1	21825	1_BU				0.98	389.90	370.87	372.83		372.92	0.001731	1.24	299.33	413.95	0.40	65.74
Reach 1	21825	0p5_BU				1.03	418.50	370.87	372.90		372.98	0.001616	1.24	325.68	444.97	0.39	65.14
Reach 1	21825	0p5-CC-LC_BU				1.13	586.00	370.87	373.22		373.29	0.001320	1.19	499.06	744.61	0.36	60.26
Reach 1	21700	5_BU				1.29	310.30	369.78	372.29		372.44	0.002466	1.78	191.38	187.43	0.50	95.91
Reach 1	21700	1_BU				1.41	389.90	369.78	372.49		372.67	0.002523	1.90	234.40	283.52	0.51	94.63
Reach 1	21700	0p5_BU				1.41	418.50	369.78	372.55		372.74	0.002600	1.94	251.25	322.29	0.52	94.01
Reach 1	21700	0p5-CC-LC_BU				1.56	586.00	369.78	372.86		373.07	0.002682	2.10	353.60	502.07	0.54	90.12
Reach 1	21600	5_BU				1.22	310.30	369.52	372.01		372.18	0.002828	1.84	187.19	236.34	0.53	94.09
Reach 1	21600	1_BU				1.35	389.90	369.52	372.20		372.39	0.002916	2.00	229.11	287.47	0.55	93.78
Reach 1	21600	0p5_BU				1.39	418.50	369.52	372.25		372.45	0.002958	2.05	242.70	302.43	0.55	93.14
Reach 1	21600	0p5-CC-LC_BU				1.57	586.00	369.52	372.51		372.76	0.003205	2.31	320.06	429.72	0.59	89.91
Reach 1	21530	5_BU				1.18	310.30	369.79	371.83		371.97	0.002667	1.74	219.64	303.44	0.51	88.93
Reach 1	21530	1_BU				1.36	389.90	369.79	372.04		372.18	0.002343	1.79	278.36	385.00	0.49	86.18
Reach 1	21530	0p5_BU				1.41	418.50	369.79	372.09		372.24	0.002347	1.83	294.70	401.41	0.49	85.33
Reach 1	21530	0p5-CC-LC_BU				1.64	586.00	369.79	372.34		372.53	0.002545	2.11	388.74	602.41	0.53	82.63
Reach 1	21450	5_BU				1.20	310.30	368.92	371.65		371.77	0.002301	1.62	233.46	306.20	0.47	89.18
Reach 1	21450	1_BU				1.18	389.90	368.92	371.89		372.00	0.002269	1.60	312.16	520.10	0.47	85.75
Reach 1	21450	0p5_BU				1.24	418.50	368.92	371.95		372.06	0.002193	1.62	338.16	567.84	0.46	85.18
Reach 1	21450	0p5-CC-LC_BU				1.51	586.00	368.92	372.21		372.35	0.002047	1.78	486.72	775.07	0.46	81.24
Reach 1	21319	5_BU				1.19	310.30	368.49	371.18		371.39	0.003856	2.07	164.80	194.82	0.61	95.21
Reach 1	21319	1_BU				1.19	389.90	368.49	371.39		371.61	0.004191	2.16	205.28	285.52	0.63	93.43
Reach 1	21319	0p5_BU				1.18	418.50	368.49	371.45		371.68	0.004310	2.18	220.95	319.66	0.64	92.46
Reach 1	21319	0p5-CC-LC_BU				1.26	586.00	368.49	371.71		371.97	0.004657	2.37	299.25	437.61	0.68	89.27
Reach 1	21250	5_BU				1.10	310.30	368.22	370.93		371.12	0.003850	1.99	170.72	221.85	0.61	94.84
Reach 1	21250	1_BU				1.07	389.90	368.22	371.09		371.31	0.004572	2.13	205.36	286.20	0.66	93.86
Reach 1	21250	0p5_BU				1.07	418.50	368.22	371.15		371.37	0.004632	2.15	219.32	306.44	0.66	93.11
Reach 1	21250	0p5-CC-LC_BU				1.26	586.00	368.22	371.38		371.65	0.004609	2.38	285.11	377.02	0.68	90.67
Reach 1	21200	5_BU				0.94	310.30	368.17	370.81		370.93	0.003153	1.63	216.81	298.77	0.54	89.40
Reach 1	21200	1_BU				1.05	389.90	368.17	370.97		371.11	0.003048	1.72	262.42	343.48	0.54	88.21
Reach 1	21200	0p5_BU				1.09	418.50	368.17	371.03		371.17	0.002987	1.75	280.62	362.62	0.53	87.81
Reach 1	21200	0p5-CC-LC_BU				1.31	586.00	368.17	371.29		371.45	0.002816	1.91	371.38	446.07	0.53	85.43
Reach 1	21150	5_BU				0.92	310.30	368.09	370.60		370.76	0.004098	1.82	192.21	282.37	0.61	87.70
Reach 1	21150	1_BU				1.10	389.90	368.09	370.79		370.95	0.003464	1.89	240.27	344.29	0.58	86.52
Reach 1	21150	0p5_BU				1.16	418.50	368.09	370.85		371.01	0.003315	1.92	258.68	362.75	0.57	86.37
Reach 1	21150	0p5-CC-LC_BU				1.43	586.00	368.09	371.12		371.31	0.003021	2.10	347.37	421.30	0.56	83.23
Reach 1	21100	5_BU				1.15	310.30	368.03	370.49	370.02	370.60	0.002359	1.61	226.33	262.21	0.48	79.91
Reach 1	21100	1_BU				1.21	389.90	368.03	370.68	370.16	370.80	0.002353	1.65	277.41	334.20	0.48	77.11
Reach 1	21100	0p5_BU				1.24	418.50	368.03	370.75	370.20	370.87	0.002356	1.67	297.53	362.11	0.48	76.67
Reach 1	21100	0p5-CC-LC_BU				1.48	586.00	368.03	371.03	370.43	371.17	0.002342	1.86	398.48	463.89	0.49	74.91
Reach 1	21050	5_BU				1.26	310.30	367.97	370.29		370.46	0.002929	1.90	191.00	244.56	0.54	86.30
Reach 1	21050	1_BU				1.36	389.90	367.97	370.46		370.65	0.003134	2.06	229.05	290.77	0.56	84.41
Reach 1	21050	0p5_BU				1.30	418.50	367.97	370.52		370.71	0.003356	2.07	246.08	328.46	0.58	82.77
Reach 1	21050	0p5-CC-LC_BU				1.44	586.00	367.97	370.80		371.01	0.003472	2.23	341.07	441.35	0.59	78.51
Reach 1	21000	5_BU				1.23	310.30	367.91	370.19		370.30	0.002106	1.60	242.64	292.99	0.46	81.07
Reach 1	21000	1_BU				1.37	389.90	367.91	370.35		370.48	0.002107	1.73	288.32	370.42	0.47	79.52
Reach 1	21000	0p5_BU				1.42	418.50	367.91	370.40		370.54	0.002119	1.78	305.39	399.39	0.48	78.96
Reach 1	21000	0p5-CC-LC_BU				1.66	586.00	367.91	370.66		370.83	0.002295	2.05	406.13	525.09	0.51	76.54
Reach 1	20950	5_BU				1.27	310.30	367.85	370.14		370.20	0.001320	1.29	324.70	339.35	0.37	62.22
Reach 1	20950	1_BU				1.44	389.90	367.85	370.31		370.38	0.001337	1.41	385.51	413.89	0.38	61.40
Reach 1	20950	0p5_BU				1.49	418.50	367.85	370.36		370.44	0.001392	1.47	405.84	435.02	0.39	61.79
Reach 1	20950	0p5-CC-LC_BU				1.75	586.00	367.85	370.62		370.72	0.001478	1.69	536.22	634.98	0.41	59.35
Reach 1	20892	5_BU				1.23	310.30	367.84	370.01		370.11	0.002201	1.63	264.10	329.26	0.47	66.04
Reach 1	20892	1_BU				1.38	389.90	367.84	370.19		370.29	0.002131	1.73	325.62	413.64	0.47	63.85
Reach 1	20892	0p5_BU				1.43	418.50	367.84	370.23		370.35	0.002154	1.78	346.12	442.75	0.48	63.24
Reach 1	20892	0p5-CC-LC_BU				1.64	586.00	367.84	370.48		370.62	0.002353	2.04	476.62	669.29	0.51	60.79
Reach 1	20850	5_BU				1.13	310.30	367.74	369.95		370.03	0.002144	1.52	286.16	384.64	0.46	57.10
Reach 1	20850	1_BU				1.24	389.90	367.74	370.12		370.21	0.002205	1.64	359.70	475.29	0.47	56.84
Reach 1	20850	0p5_BU				1.29	418.50	367.74	370.17		370.26	0.002203	1.68	383.36	495.73	0.47	56.45
Reach 1	20850	0p5-CC-LC_BU				1.53	586.00	367.74	370.41		370.53	0.002297	1.92	519.67	681.40	0.50	54.79
Reach 1	20800	5_BU				1.22	310.30	367.71	369.79		369.93	0.003000	1.90	211.67	295.68	0.55	67.72
Reach 1	20800	1_BU				1.36	389.90	367.71	369.94		370.10	0.003213	2.10	261.20	388.81	0.58	67.19
Reach 1	20800	0p5_BU				1.40	418.50	367.71	369.98		370.15	0.003246	2.16	279.53	423.21	0.58	66.45
Reach 1	20800	0p5-CC-LC_BU				1.63	586.00	367.71	370.21		370.42	0.003380	2.44	395.24	594.50	0.61	62.34
Reach 1	20750	5_BU				1.18	310.30	367.67	369.71		369.80	0.002367	1.64	298.34	406.09	0.48	53.49
Reach 1	20750	1_BU				1.27	389.90	367.67	369.86		369.96	0.002613	1.82	362.54	477.33	0.51	53.16
Reach 1	20750	0p5_BU				1.30	418.50	367.67	369.91		370.02	0.002620	1.85	386.02	496.13	0.52	52.37
Reach 1	20750	0p5-CC-LC_BU				1.52	586.00	367.67	370.15		370.27	0.002638	2.05	516.91	629.73	0.53	49.31
Reach 1	20700	5_BU				1.17	310.30	367.63	369.57		369.70	0.003350	1.94	247.59	384.21	0.57	59.65
Reach 1	20700	1_BU				1.26	389.90	367.63	369.72		369.86	0.003394	2.06	310.65	461.34	0.59	56.95
Reach 1	20700	0p5_BU				1.30	418.50	367.63	369.77		369.91	0.003365	2.09	333.78	473.09	0.59	56.06
Reach 1	20700	0p5-CC-LC_BU				1.56	586.00	367.63	370.03		370.18	0.003101	2.26	462.57	567.47	0.58	51.70
Reach 1	20650	5_BU				1.13	310.30	367.50	369.47		369.59	0.003096	1.83	238.08	320.70	0.55	57.86
Reach 1	20650	1_BU				1.27	389.90	367.50	369.62		369.75	0.002991	1.95	289.75	365.50	0.55	55.70
Reach 1	20650	0p5_BU				1.32	418.50	367.50	369.67		369.81	0.002981	1.99	308.13	383.88	0.55	55.21
Reach 1	20650	0p5-CC-LC_BU				1.59	586.00	367.50	369.94		370.09	0.002797	2.18	418.60	484.79	0.55	51.62
Reach 1	20600	5_BU				1.12	310.30	367.38	369.38		369.47	0.002352	1.53	250.84	285.89	0.46	67.71
Reach 1	20600	1_BU				1.25	389.90	367.38	369.53		369.64	0.002396	1.64	296.95	328.47	0.47	66.20

HEC-RAS Plan: KR_Jam_12600 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	20600	0p5_BU				1.29	418.50	367.38	369.58		369.70	0.002415	1.69	313.35	348.73	0.47	65.76
Reach 1	20600	0p5-CC-LC_BU				1.51	586.00	367.38	369.85		369.98	0.002425	1.86	420.00	504.18	0.48	62.79
Reach 1	20550	5_BU				1.14	310.30	367.25	369.20		369.34	0.003036	1.81	226.63	325.75	0.54	77.10
Reach 1	20550	1_BU				1.28	389.90	367.25	369.35		369.51	0.003049	1.97	276.23	374.52	0.55	75.12
Reach 1	20550	0p5_BU				1.33	418.50	367.25	369.40		369.56	0.003040	2.01	294.45	391.52	0.56	74.34
Reach 1	20550	0p5-CC-LC_BU				1.59	586.00	367.25	369.66		369.85	0.002903	2.22	418.04	590.28	0.56	70.06
Reach 1	20400	5_BU				0.94	310.30	366.84	368.57		368.76	0.005556	2.16	170.25	229.54	0.71	63.53
Reach 1	20400	1_BU				1.06	389.90	366.84	368.69		368.92	0.005728	2.37	201.33	261.33	0.74	63.13
Reach 1	20400	0p5_BU				1.09	418.50	366.84	368.73		368.97	0.005845	2.45	211.49	271.49	0.75	62.94
Reach 1	20400	0p5-CC-LC_BU				1.30	586.00	366.84	368.95	368.72	369.25	0.006339	2.86	284.26	409.66	0.80	63.17
Reach 1	20221	5_BU				0.91	310.30	365.65	368.04		368.09	0.001942	1.10	336.42	488.26	0.37	56.84
Reach 1	20221	1_BU				1.03	389.90	365.65	368.18		368.24	0.001936	1.18	410.32	586.86	0.37	56.33
Reach 1	20221	0p5_BU				1.07	418.50	365.65	368.23		368.29	0.001896	1.20	439.59	618.86	0.37	55.74
Reach 1	20221	0p5-CC-LC_BU				1.23	586.00	365.65	368.45		368.51	0.002045	1.33	585.41	787.15	0.38	53.24
Reach 1	19763	5_BU				0.88	310.30	364.71	366.75		366.84	0.004562	1.41	236.51	330.42	0.48	91.75
Reach 1	19763	1_BU				0.92	389.90	364.71	366.97		367.05	0.004076	1.31	327.58	505.95	0.44	87.18
Reach 1	19763	0p5_BU				0.91	418.50	364.71	367.05		367.12	0.004019	1.26	372.38	590.30	0.42	85.23
Reach 1	19763	0p5-CC-LC_BU				1.02	586.00	364.71	367.38		367.43	0.003116	1.11	600.04	814.54	0.35	75.78
Reach 1	19335	5_BU				1.35	310.30	363.23	365.56	364.87	365.66	0.001963	1.49	237.40	275.09	0.41	94.40
Reach 1	19335	1_BU				1.44	389.90	363.23	365.72	365.07	365.85	0.002265	1.62	289.65	352.69	0.43	92.01
Reach 1	19335	0p5_BU				1.48	418.50	363.23	365.78	365.11	365.91	0.002361	1.66	308.71	384.43	0.44	91.44
Reach 1	19335	0p5-CC-LC_BU				1.43	586.00	363.23	366.11	365.35	366.23	0.003271	1.64	487.32	709.56	0.44	80.73
Reach 1	19009	5_BU				0.64	310.30	362.65	364.93	364.42	364.99	0.002114	1.07	296.34	498.95	0.43	99.54
Reach 1	19009	1_BU				0.68	389.90	362.65	365.06	364.53	365.12	0.002120	1.10	366.57	606.34	0.43	99.06
Reach 1	19009	0p5_BU				0.69	418.50	362.65	365.09	364.57	365.16	0.002157	1.11	389.60	639.56	0.43	98.89
Reach 1	19009	0p5-CC-LC_BU				0.79	586.00	362.65	365.28	364.80	365.35	0.002247	1.19	523.19	793.28	0.43	97.63
Reach 1	18575	5_BU				0.63	310.30	361.28	363.68	363.15	363.73	0.004237	1.00	318.76	567.80	0.40	96.79
Reach 1	18575	1_BU				0.68	389.90	361.28	363.82	363.27	363.87	0.004058	0.98	412.11	715.80	0.38	95.68
Reach 1	18575	0p5_BU				0.70	418.50	361.28	363.87	363.31	363.92	0.003946	0.99	443.08	748.03	0.38	95.26
Reach 1	18575	0p5-CC-LC_BU				0.83	586.00	361.28	364.06	363.53	364.11	0.003706	1.05	601.50	931.18	0.37	93.44
Reach 1	18123	5_BU				1.07	310.30	360.36	362.21	361.82	362.32	0.002875	1.69	238.94	334.97	0.52	66.31
Reach 1	18123	1_BU				1.14	389.90	360.36	362.34	361.97	362.46	0.003046	1.81	287.24	396.99	0.54	63.78
Reach 1	18123	0p5_BU				1.13	418.50	360.36	362.39	362.00	362.51	0.003118	1.83	307.15	428.45	0.55	62.49
Reach 1	18123	0p5-CC-LC_BU				1.20	586.00	360.36	362.63	362.22	362.76	0.003193	1.92	442.24	660.85	0.56	58.26
Reach 1	18000	5_BU				0.99	310.30	359.91	361.94	361.48	362.01	0.002860	1.49	296.38	463.08	0.48	49.86
Reach 1	18000	1_BU				1.12	389.90	359.91	362.09	361.68	362.16	0.002638	1.55	367.14	498.75	0.47	47.49
Reach 1	18000	0p5_BU				1.15	418.50	359.91	362.14	361.71	362.21	0.002596	1.57	392.10	526.92	0.47	46.67
Reach 1	18000	0p5-CC-LC_BU				1.10	586.00	359.91	362.40	361.85	362.47	0.002556	1.52	544.36	669.25	0.46	40.46
Reach 1	17900	5_BU				0.95	310.30	359.66	361.67	361.24	361.77	0.003020	1.58	242.42	360.65	0.52	53.91
Reach 1	17900	1_BU				1.08	389.90	359.66	361.84	361.35	361.94	0.002870	1.67	305.84	417.39	0.51	53.27
Reach 1	17900	0p5_BU				1.12	418.50	359.66	361.89	361.43	361.99	0.002853	1.70	327.50	443.60	0.51	53.00
Reach 1	17900	0p5-CC-LC_BU				1.24	586.00	359.66	362.13	361.64	362.25	0.002933	1.83	452.37	582.85	0.53	50.21
Reach 1	17850	5_BU				1.00	310.30	359.56	361.56	361.04	361.65	0.002775	1.59	258.96	344.65	0.51	59.90
Reach 1	17850	1_BU				1.15	389.90	359.56	361.71	361.20	361.82	0.002745	1.73	317.12	402.50	0.52	60.30
Reach 1	17850	0p5_BU				1.19	418.50	359.56	361.76	361.29	361.87	0.002723	1.77	337.42	423.61	0.52	59.92
Reach 1	17850	0p5-CC-LC_BU				1.39	586.00	359.56	361.99	361.50	362.13	0.002816	2.02	448.18	561.09	0.54	57.93
Reach 1	17800	5_BU				1.13	310.30	359.59	361.43	360.93	361.52	0.002534	1.65	276.88	396.20	0.50	58.23
Reach 1	17800	1_BU				1.15	389.90	359.59	361.60	361.11	361.69	0.002519	1.66	356.33	528.23	0.50	54.08
Reach 1	17800	0p5_BU				1.17	418.50	359.59	361.65	361.15	361.74	0.002531	1.69	384.12	556.48	0.50	53.46
Reach 1	17800	0p5-CC-LC_BU				1.38	586.00	359.59	361.89	361.41	361.99	0.002390	1.83	529.28	665.52	0.50	50.10
Reach 1	17750	5_BU				1.16	310.30	359.63	361.22	360.84	361.36	0.003583	1.96	222.48	326.95	0.58	56.67
Reach 1	17750	1_BU				1.27	389.90	359.63	361.38	361.01	361.52	0.003565	2.07	281.34	437.95	0.58	54.20
Reach 1	17750	0p5_BU				1.31	418.50	359.63	361.43	361.06	361.58	0.003552	2.09	304.56	470.02	0.58	53.26
Reach 1	17750	0p5-CC-LC_BU				1.51	586.00	359.63	361.68	361.30	361.83	0.003461	2.25	435.21	607.39	0.58	48.71
Reach 1	17700	5_BU				1.16	310.30	359.33	361.01	360.56	361.13	0.002672	1.73	232.84	346.60	0.51	60.72
Reach 1	17700	1_BU				1.29	389.90	359.33	361.17	360.69	361.29	0.002695	1.86	293.22	448.97	0.52	59.04
Reach 1	17700	0p5_BU				1.34	418.50	359.33	361.22	360.73	361.34	0.002673	1.90	316.70	487.24	0.52	58.16
Reach 1	17700	0p5-CC-LC_BU				1.58	586.00	359.33	361.46	360.96	361.60	0.002646	2.10	448.63	625.66	0.54	54.33
Reach 1	17650	5_BU				1.00	310.30	359.01	360.74	360.23	360.81	0.002061	1.39	277.45	397.42	0.44	55.45
Reach 1	17650	1_BU				1.15	389.90	359.01	360.89	360.35	360.97	0.001979	1.48	347.26	497.90	0.44	54.45
Reach 1	17650	0p5_BU				1.20	418.50	359.01	360.94	360.40	361.02	0.001964	1.51	373.11	529.22	0.44	54.10
Reach 1	17650	0p5-CC-LC_BU				1.41	586.00	359.01	361.17	360.60	361.26	0.002015	1.69	506.96	647.48	0.46	51.56
Reach 1	17600	5_BU				0.90	310.30	358.88	360.60	360.06	360.68	0.002311	1.35	252.03	368.78	0.46	40.29
Reach 1	17600	1_BU				0.97	389.90	358.88	360.76	360.20	360.84	0.002348	1.44	324.30	507.47	0.47	40.71
Reach 1	17600	0p5_BU				1.00	418.50	358.88	360.82	360.24	360.89	0.002333	1.45	352.39	547.99	0.47	40.51
Reach 1	17600	0p5-CC-LC_BU				1.22	586.00	358.88	361.04	360.50	361.13	0.002394	1.68	489.68	672.99	0.49	40.96
Reach 1	17574	5_BU				0.81	310.30	358.84	360.54	360.01	360.61	0.002531	1.31	263.32	416.15	0.47	37.02
Reach 1	17574	1_BU				0.90	389.90	358.84	360.70	360.16	360.77	0.002419	1.38	342.01	516.65	0.46	37.61
Reach 1	17574	0p5_BU				0.93	418.50	358.84	360.76	360.21	360.83	0.002404	1.40	370.27	551.83	0.47	37.87
Reach 1	17574	0p5-CC-LC_BU				1.12	586.00	358.84	360.98	360.47	361.06	0.002421	1.60	502.67	635.09	0.48	38.40
Reach 1	17500	5_BU				0.61	310.30	358.91	360.39	359.88	360.44	0.001799	0.93	310.55	507.82	0.38	26.18
Reach 1	17500	1_BU				0.75	389.90	358.91	360.58	360.01	360.62	0.001497	0.98	422.96	672.17	0.36	29.10
Reach 1	17500	0p5_BU				0.80	418.50	358.91	360.63	360.05	360.68	0.001550	1.04	458.49	710.02	0.37	30.65
Reach 1	17500	0p5-CC-LC_BU				1.03	586.00	358.91	360.87	360.28	360.91	0.001413	1.16	645.66	870.45	0.37	31.75
Reach 1	17450	5_BU				0.79	310.30	359.04	360.34	359.76	360.40	0.001853	1.11	310.59	532.63	0.40	23.84
Reach 1	17450	1_BU				0.97	389.90	359.04	360.53	359.87	360.58	0.001538	1.16	428.40	668.01	0.38	24.81
Reach 1	17450	0p5_BU				1.02	418.50	359.04	360.58	359.91	360.63	0.001499	1.18	462.84	705.97	0.37	24.77
Reach 1	17450	0p5-CC-LC_BU				1.25	586.00	359.04	360.82	360.18	360.87	0.001376	1.30	650.73	862.50	0.37	23.97
Reach 1	17350	5_BU				0.83	310.30	358.05	360.04	359.63	360.21	0.003855	1.51	182.52	224.25	0.53	36.48
Reach 1	17350	1_BU				0.79	389.90	358.05	360.27	359.83	360.42	0.003758	1.47	250.01	405.70	0.53	36.92
Reach 1	17350	0p5_BU				0.80	418.50	358.05	360.34	359.90	360.48	0.003538	1.44	284.05	490.19	0.52	37.23
Reach 1	17350	0p5-CC-LC_BU				0.96	586.00	358.05	360.65	360.32	360.74	0.002816	1.46	487.11	805.07	0.48	38.71
Reach 1	17200	5_BU				0.90	310.30	357.76	359.56	359.23	359.81	0.006161	2.00	148.21	156.56	0.67	45.45
Reach 1	17200	1_BU				1.08	389.90	357.76	359.81	359.38	360.05	0.005085	2.04	191.80	197.05	0.63	47.81
Reach 1	17200	0p5_BU				1.15	418.50	357.76	359.88	359.48	360.13	0.004868	2.07	207.68	236.80	0.62	48.42
Reach 1	17200	0p5-CC-LC_BU				1.53	586.00	357.76	360.27	359.87	360.46	0.003839	2.20	356.12	541.25	0.57	49.03
Reach 1	17050	5_BU				2.08	310.30	356.29	359.31	358.29	359.46	0.001286	1.73	195.75	168.81	0.38	98.42
Reach 1	17050	1_BU				2.28	389.90	356.29	359.52	358.49	359.70	0.001441	1.93	244.64	284.64	0.41	96.30
Reach 1	17050	0p5_BU				2.34	418.50	356.29	359.59	358.56	359.78	0.001482	1.99	264.96	326.43	0.42	95.22
Reach 1	17050	0p5-CC-LC_BU				2.67	586.00	356.29	359.92	358.91	360.15	0.001595	2.25	408.12	557.30	0.44	87.84
Reach 1	16812	5_BU				1.29	310.30	354.74	358.79	358.37	359.00	0.003176	2.03	164.67	172.46	0.57	97.13
Reach 1	16812	1_BU				1.44	389.90	354.74	358.98	358.54	359.22	0.003193	2.21	199.14	203.94	0.59	96.17
Reach 1	16812	0p5_BU				1.50	418.50	354.74	359.04	358.59	359.29	0.003192	2.26	211.79	219.23	0.59	95.61
Reach 1	16812	0p5-CC-LC_BU				1.80	586.00	354.74	359.33	358.94	359.64	0.003263	2.55	288.64	290.27	0.61	92.15
Reach 1	16285	5_BU				1.29	310.30	354.72	357.31	356.83	357.47	0.002544	1.79	186.03	178.06	0.50	96.89
Reach 1	16285	1_BU				1.47	389.90	354.72	357.49	357.00	357.68	0.002533	1.95	219.80	195.26	0.51	95.47
Reach 1	16285	0p5_BU				1.53	418.50	354.72	357.55	357.05	357.75	0.002503	1.99	233.04	213.34	0.51	95.03
Reach 1	16285	0p5-CC-LC_BU				1.89	586.00	354.72	357.91	357.31	358.13	0.002260	2.18	330.56	349.48	0.51	91.31

HEC-RAS Plan: KR_Jam_12600 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	15937	5_BU				1.15	310.30	353.96	356.55	355.99	356.66	0.001993	1.48	213.08	196.51	0.44	99.64
Reach 1	15937	1_BU				1.32	389.90	353.96	356.79	356.15	356.91	0.001754	1.52	262.73	218.22	0.42	99.27
Reach 1	15937	0p5_BU				1.37	418.50	353.96	356.88	356.19	356.99	0.001695	1.53	282.01	231.75	0.42	99.11
Reach 1	15937	0p5-CC-LC_BU				1.53	586.00	353.96	357.31	356.41	357.43	0.001506	1.55	401.68	322.50	0.40	97.68
Reach 1	15657	5_BU				1.80	310.30	352.57	355.89	355.16	356.09	0.002010	2.00	156.61	94.76	0.48	99.89
Reach 1	15657	1_BU				1.98	389.90	352.57	356.08	355.35	356.34	0.002275	2.26	176.09	114.05	0.51	99.71
Reach 1	15657	0p5_BU				2.05	418.50	352.57	356.15	355.42	356.43	0.002332	2.34	184.37	123.72	0.52	99.58
Reach 1	15657	0p5-CC-LC_BU				2.33	586.00	352.57	356.43	355.77	356.84	0.002923	2.86	226.85	196.45	0.60	98.51
Reach 1	15073	5_BU				1.03	310.30	351.49	354.04	353.78	354.29	0.005296	2.22	139.95	136.16	0.70	100.00
Reach 1	15073	1_BU				1.17	389.90	351.49	354.31	353.94	354.55	0.004309	2.18	179.01	153.82	0.64	99.97
Reach 1	15073	0p5_BU				1.19	418.50	351.49	354.41	353.99	354.64	0.004103	2.15	195.19	165.67	0.63	99.95
Reach 1	15073	0p5-CC-LC_BU				1.50	586.00	351.49	354.93	354.28	355.14	0.002689	2.04	288.32	193.38	0.53	99.86
Reach 1	14797	5_BU				1.93	310.30	350.08	353.34	352.47	353.52	0.001645	1.88	165.21	85.47	0.43	100.00
Reach 1	14797	1_BU				2.21	389.90	350.08	353.64	352.66	353.85	0.001635	2.04	190.96	86.58	0.44	100.00
Reach 1	14797	0p5_BU				2.30	418.50	350.08	353.74	352.73	353.96	0.001633	2.10	199.70	86.95	0.44	100.00
Reach 1	14797	0p5-CC-LC_BU				2.79	586.00	350.08	354.27	353.09	354.56	0.001658	2.37	246.92	88.74	0.45	100.00
Reach 1	14088	5_BU				1.83	320.00	349.51	352.06	351.30	352.26	0.001921	1.97	162.31	156.02	0.47	99.97
Reach 1	14088	1_BU				2.01	403.00	349.51	352.24	351.51	352.50	0.002218	2.26	178.76	159.44	0.51	99.92
Reach 1	14088	0p5_BU				2.07	433.00	349.51	352.30	351.57	352.58	0.002321	2.36	184.18	160.98	0.52	99.90
Reach 1	14088	0p5-CC-LC_BU				2.37	606.20	349.51	352.60	351.92	353.02	0.002881	2.88	211.84	189.54	0.60	99.75
Reach 1	14004	5_BU				1.30	320.00	349.38	351.72	351.47	351.98	0.004185	2.33	148.27	397.13	0.65	92.85
Reach 1	14004	1_BU				1.44	403.00	349.38	351.86	351.64	352.18	0.004461	2.58	169.73	419.32	0.68	90.50
Reach 1	14004	0p5_BU				1.49	433.00	349.38	351.91	351.70	352.24	0.004521	2.65	177.21	423.26	0.69	89.76
Reach 1	14004	0p5-CC-LC_BU				1.79	606.20	349.38	352.20	351.96	352.62	0.004482	2.98	221.40	484.95	0.71	86.06
Reach 1	13755	5_BU				1.15	320.00	347.42	350.94	350.38	351.06	0.002204	1.55	209.13	496.27	0.46	64.99
Reach 1	13755	1_BU				1.40	403.00	347.42	351.20	350.54	351.32	0.001790	1.59	263.15	596.46	0.43	64.71
Reach 1	13755	0p5_BU				1.48	433.00	347.42	351.28	350.60	351.40	0.001696	1.61	282.55	611.69	0.42	64.37
Reach 1	13755	0p5-CC-LC_BU				1.89	606.20	347.42	351.68	350.85	351.81	0.001469	1.76	410.99	795.87	0.41	63.98
Reach 1	13404	5_BU				3.22	320.00	346.33	350.89	349.07	350.91	0.000161	0.83	574.64	746.65	0.15	53.87
Reach 1	13404	1_BU				3.48	403.00	346.33	351.15	349.33	351.17	0.000161	0.87	685.74	792.55	0.15	48.70
Reach 1	13404	0p5_BU				3.57	433.00	346.33	351.23	349.38	351.26	0.000162	0.89	722.68	817.40	0.15	47.29
Reach 1	13404	0p5-CC-LC_BU				3.97	606.20	346.33	351.64	349.83	351.67	0.000173	0.99	921.46	921.81	0.16	41.73
Reach 1	13209	5_BU	350.46	0.40	350.86	3.27	320.00	345.37	350.83	348.52	350.85	0.000815	0.74	505.06	617.71	0.13	66.72
Reach 1	13209	1_BU	350.72	0.40	351.12	3.52	403.00	345.37	351.08	348.73	351.11	0.000928	0.83	608.06	728.57	0.14	64.02
Reach 1	13209	0p5_BU	350.80	0.40	351.20	3.61	433.00	345.37	351.16	348.79	351.19	0.000962	0.86	643.60	740.99	0.14	63.02
Reach 1	13209	0p5-CC-LC_BU	351.19	0.40	351.59	4.00	606.20	345.37	351.56	349.11	351.60	0.001127	0.99	822.83	780.27	0.16	57.96
Reach 1	13100	5_BU	348.48	2.38	350.86	1.58	320.00	345.58	350.66	349.58	350.69	0.002609	0.82	445.66	1122.24	0.21	41.13
Reach 1	13100	1_BU	348.42	2.71	351.12	1.51	403.00	345.58	350.89	349.87	350.93	0.002990	0.85	524.94	1157.89	0.22	32.61
Reach 1	13100	0p5_BU	348.39	2.81	351.20	1.49	433.00	345.58	350.97	349.96	351.00	0.003096	0.86	550.63	1163.65	0.22	30.07
Reach 1	13100	0p5-CC-LC_BU	348.22	3.38	351.61	1.32	606.20	345.58	351.32	350.46	351.37	0.003720	0.87	675.79	1223.02	0.24	19.32
Reach 1	13000	5_BU	347.57	2.96	350.54	1.29	320.00	345.10	350.29	349.66	350.36	0.008970	1.33	268.82	891.92	0.37	39.60
Reach 1	13000	1_BU	347.58	3.20	350.78	1.30	403.00	345.10	350.51	349.85	350.59	0.008986	1.34	336.13	952.01	0.37	31.79
Reach 1	13000	0p5_BU	347.58	3.28	350.86	1.30	433.00	345.10	350.58	349.92	350.66	0.009042	1.34	358.40	964.98	0.38	29.60
Reach 1	13000	0p5-CC-LC_BU	347.56	3.67	351.23	1.29	606.20	345.10	350.92	350.32	351.01	0.009017	1.33	469.80	998.16	0.37	20.70
Reach 1	12950	5_BU	347.11	3.30	350.41	1.48	320.00	344.85	350.13	349.11	350.16	0.002609	0.79	453.29	1007.32	0.21	48.22
Reach 1	12950	1_BU	347.12	3.52	350.64	1.49	403.00	344.85	350.34	349.34	350.37	0.003015	0.85	524.44	1044.66	0.22	41.48
Reach 1	12950	0p5_BU	347.12	3.59	350.71	1.49	433.00	344.85	350.41	349.40	350.44	0.003137	0.86	547.82	1047.55	0.23	39.41
Reach 1	12950	0p5-CC-LC_BU	347.13	3.93	351.06	1.49	606.20	344.85	350.73	349.69	350.77	0.003739	0.95	668.39	1089.31	0.25	30.87
Reach 1	12887	5_BU	346.59	3.65	350.24	0.72	320.00	344.53	349.93	349.26	349.98	0.006053	0.74	336.39	746.42	0.28	16.35
Reach 1	12887	1_BU	346.56	3.89	350.45	0.70	403.00	344.53	350.12	349.38	350.18	0.006412	0.75	391.08	811.42	0.29	12.65
Reach 1	12887	0p5_BU	346.56	3.95	350.51	0.70	433.00	344.53	350.18	349.40	350.24	0.006489	0.75	412.21	831.20	0.29	11.81
Reach 1	12887	0p5-CC-LC_BU	346.55	4.29	350.84	0.70	606.20	344.53	350.48	349.64	350.56	0.006765	0.76	524.95	881.90	0.29	8.44
Reach 1	12850	5_BU	345.65	4.00	349.65	0.58	320.00	344.40	349.31	349.14	349.51	0.036813	1.57	167.18	642.00	0.66	8.46
Reach 1	12850	1_BU	345.61	4.20	349.81	0.59	403.00	344.40	349.46	349.26	349.69	0.035663	1.57	194.70	651.95	0.65	6.30
Reach 1	12850	0p5_BU	345.62	4.26	349.88	0.59	433.00	344.40	349.52	349.29	349.76	0.033102	1.51	208.81	657.65	0.63	5.74
Reach 1	12850	0p5-CC-LC_BU	345.63	4.57	350.20	0.58	606.20	344.40	349.82	349.54	350.08	0.028414	1.39	275.97	717.54	0.58	3.85
Reach 1	12800	5_BU	345.06	4.17	349.23	0.55	320.00	343.70	348.88	348.19	348.94	0.006522	0.64	317.67	885.68	0.28	3.52
Reach 1	12800	1_BU	345.18	4.28	349.47	0.60	403.00	343.70	349.11	348.32	349.16	0.005614	0.63	389.15	942.65	0.26	3.40
Reach 1	12800	0p5_BU	345.20	4.34	349.54	0.61	433.00	343.70	349.18	348.36	349.24	0.005751	0.64	411.11	948.95	0.26	3.33
Reach 1	12800	0p5-CC-LC_BU	345.33	4.58	349.91	0.63	606.20	343.70	349.53	348.57	349.60	0.005308	0.63	526.29	986.10	0.25	2.86
Reach 1	12735	5_BU	345.34	3.72	349.06	1.86	320.00	340.98	348.75	347.43	348.77	0.001844	0.77	524.08	883.45	0.18	44.00
Reach 1	12735	1_BU	345.47	3.82	349.29	1.73	403.00	340.98	348.97	347.59	348.99	0.002053	0.77	618.45	937.08	0.19	37.85
Reach 1	12735	0p5_BU	345.48	3.88	349.36	1.73	433.00	340.98	349.04	347.67	349.06	0.002098	0.78	644.59	943.77	0.19	35.94
Reach 1	12735	0p5-CC-LC_BU	345.64	4.10	349.74	1.71	606.20	340.98	349.39	347.93	349.42	0.002235	0.80	793.26	981.05	0.19	28.65
Reach 1	12700	5_BU	345.29	3.64	348.93	1.37	320.00	342.78	348.62	347.35	348.64	0.001757	0.61	540.10	992.23	0.17	21.33
Reach 1	12700	1_BU	345.34	3.80	349.15	1.41	403.00	342.78	348.83	347.49	348.85	0.002012	0.67	629.98	1074.71	0.18	19.24
Reach 1	12700	0p5_BU	345.35	3.86	349.21	1.41	433.00	342.78	348.89	347.55	348.91	0.002063	0.68	658.56	1084.68	0.18	18.28
Reach 1	12700	0p5-CC-LC_BU	345.45	4.12	349.57	1.48	606.20	342.78	349.22	347.82	349.25	0.002370	0.75	829.88	1200.81	0.20	15.44
Reach 1	12650	5_BU	345.12	3.63	348.75	1.31	320.00	342.92	348.45	347.41	348.48	0.003594	0.85	437.35	977.11	0.24	21.49
Reach 1	12650	1_BU	345.12	3.83	348.95	1.31	403.00	342.92	348.63	347.62	348.66	0.003853	0.88	519.28	1075.20	0.24	17.60
Reach 1	12650	0p5_BU	345.13	3.89	349.02	1.31	433.00	342.92	348.69	347.68	348.72	0.003843	0.88	549.64	1107.90	0.24	16.55
Reach 1	12650	0p5-CC-LC_BU	345.16	4.20	349.36	1.33	606.20	342.92	349.00	347.97	349.04	0.004140	0.92	733.64	1226.65	0.25	12.72
Reach 1	12600	5_BU	343.59	3.95	347.54	0.31	320.00	342.87	347.21	347.21	347.75	0.050636	1.21	101.01	266.94	0.70	2.16
Reach 1	12600	1_BU	343.78	4.17	347.95	0.40	403.00	342.87	347.60	347.60	347.96	0.036229	1.22	155.17	481.04	0.62	3.01
Reach 1	12600	0p5_BU	343.78	4.22	348.00	0.40	433.00	342.87	347.65	347.65	348.02	0.037504	1.24	164.42	496.86	0.63	2.86
Reach 1	12600	0p5-CC-LC_BU	343.81	4.51	348.32	0.41	606.20	342.87	347.94	347.94	348.28	0.041778	1.34	239.20	682.77	0.67	2.33
Reach 1	12550	5_BU	346.64	0.40	347.04	2.32	320.00	343.00	347.01	345.66	347.08	0.001017	1.31	299.06	578.83	0.27	80.73
Reach 1	12550	1_BU	346.97	0.40	347.37	2.65	403.00	343.00	347.34	346.02	347.41	0.000848	1.30	399.91	702.01	0.26	73.07
Reach 1	12550	0p5_BU	347.09	0.40	347.49	2.77	433.00	343.00	347.46	346.12	347.52	0.000784	1.29	441.69	729.26	0.25	70.27
Reach 1	12550	0p5-CC-LC_BU	347.62	0.40	348.02	3.30	606.20	343.00	347.99	346.49	348.05	0.000623	1.29	666.28	916.31	0.23	59.94
Reach 1	12500	5_BU	346.54	0.40	346.94	1.49	320.00	343.14	346.91	346.10	347.00	0.002006	1.37	244.75	395.32	0.36	97.93
Reach 1	12500	1_BU	346.88	0.40	347.28	1.82	403.00	343.14	347.25	346.27	347.34	0.001589	1.39	312.31	464.61	0.33	96.65
Reach 1	12500	0p5_BU	347.00	0.40	347.40	1.93	433.00	343.14	347.36	346.32	347.46	0.001479	1.40	344.76	539.67	0.32	96.29
Reach 1	12500	0p5-CC-LC_BU	347.54	0.40	347.94	2.48	606.20	343.14	347.91	346.57	348.00	0.001042	1.38	627.38	986.93	0.28	87.40
Reach 1	12436	5_BU	345.78	0.40	346.18	1.89	320.00	343.08	346.15	345.89	346.72	0.008875	3.36	98.89	186.08	0.78	99.10
Reach 1	12436	1_BU	345.97	0.40	346.37	2.08	403.00	343.08	346.33	346.19	347.07	0.010197	3.83	111.17	200.17	0.85	98.38
Reach 1	12436	0p5_BU	346.02	0.40	346.42	2.13	433.00	343.08	346.39	346.28	347.19	0.010723	3.99	115.05	214.28	0.87	98.13
Reach 1	12436	0p5-CC-LC_BU	346.62	0.40	347.02	2.73	606.20	343.08	346.99	346.99	347.78	0.008098	4.10	180.72	350.01	0.79	92.20
Reach 1	12300	5_BU	345.30	0.40	345.70	1.74	320.00	342.78	345.67	344.97	345.87	0.003616	2.04	174.24	376.78	0.49	96.14
Reach 1	12300	1_BU	345.53	0.40	345.93	1.96	403.00	342.78	345.89	345.21	346.13	0.003639	2.21	210.77	423.07	0.50	93.62
Reach 1	12300	0p5_BU	345.60	0.40	346.00	2.03	433.00	342.78	345.96	345.28	346.21	0.003675	2.27	222.74	436.05	0.51	92.81
Reach 1	12300	0p5-CC-LC_BU	345.92	0.40	346.32	2.36	606.20	342.78	346.29	345.70	346.60	0.004004	2.62	287.52	499.67	0.54	88.70
Reach 1	11788	5_BU				1.50	320.00	342.07	344.28	343.70	344.43	0.002150	1.82	189.03	494.22	0.48	86.94
Reach 1	11788	1_BU				1.62	403.00	342.07	344.49	343.86	344.66	0.002202	1.95	229.44	547.83	0.49	84.21
Reach 1	11788	0p5_BU				1.67	433.00	342.07	344.56	343.91	344.74	0.002202	1.99	244.34	563.24	0.49	83.35
Reach 1	11788	0p5-CC-LC_BU				2.00	606.20	342.07	344.92	344.21	345.12	0.002044	2.16	352.36	733.30	0.49	79.07
Reach 1	11514	5_BU				1.15	320.00	340.85	343.20	342.96	343.52	0.005754	2.52	128.50	248.30	0.75	99.68

HEC-RAS Plan: KR_Jam_12600 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	11514	1_BU				1.36	403.00	340.85	343.42	343.16	343.78	0.005136	2.66	154.38	314.65	0.73	99.50
Reach 1	11514	0p5_BU				1.45	433.00	340.85	343.51	343.22	343.87	0.004825	2.68	165.34	351.59	0.71	99.39
Reach 1	11514	0p5-CC-LC_BU				1.78	606.20	340.85	343.85	343.51	344.31	0.004636	3.01	212.99	435.24	0.72	98.71
Reach 1	11034	5_BU				1.76	320.00	338.63	342.19		342.31	0.001320	1.59	209.27	299.51	0.38	94.76
Reach 1	11034	1_BU				1.93	403.00	338.63	342.47		342.61	0.001325	1.69	251.35	377.96	0.39	93.19
Reach 1	11034	0p5_BU				1.98	433.00	338.63	342.56		342.71	0.001354	1.75	268.42	405.64	0.40	93.69
Reach 1	11034	0p5-CC-LC_BU				2.26	606.20	338.63	342.98		343.15	0.001355	1.90	360.09	514.44	0.40	89.06
Reach 1	10544	5_BU				1.58	320.00	337.82	341.05		341.33	0.003273	2.34	141.82	282.87	0.59	99.16
Reach 1	10544	1_BU				1.78	403.00	337.82	341.26		341.60	0.003387	2.57	172.41	350.27	0.62	98.37
Reach 1	10544	0p5_BU				1.84	433.00	337.82	341.34		341.69	0.003379	2.63	185.52	373.13	0.62	97.77
Reach 1	10544	0p5-CC-LC_BU				2.20	606.20	337.82	341.71	341.25	342.12	0.003315	2.93	271.67	504.87	0.63	93.42
Reach 1	9771	5_BU				1.38	320.00	336.80	339.07		339.22	0.002221	1.77	189.58	510.56	0.48	97.49
Reach 1	9771	1_BU				1.55	403.00	336.80	339.26		339.45	0.002237	1.92	223.17	623.30	0.49	96.22
Reach 1	9771	0p5_BU				1.60	433.00	336.80	339.32		339.51	0.002286	1.98	233.28	646.96	0.50	95.80
Reach 1	9771	0p5-CC-LC_BU				1.88	606.20	336.80	339.60		339.85	0.002519	2.31	288.66	741.62	0.54	93.50
Reach 1	8903	5_BU				1.72	320.00	333.65	336.76		337.04	0.003232	2.44	148.51	322.20	0.60	85.53
Reach 1	8903	1_BU				1.92	403.00	333.65	337.00		337.30	0.003173	2.61	184.71	433.04	0.60	82.48
Reach 1	8903	0p5_BU				1.98	433.00	333.65	337.08		337.38	0.003097	2.63	200.13	459.69	0.60	80.85
Reach 1	8903	0p5-CC-LC_BU				2.30	606.20	333.65	337.45		337.77	0.002871	2.80	281.96	539.53	0.59	73.03
Reach 1	8300	5_BU				1.67	320.00	332.67	335.37		335.54	0.001933	1.87	190.29	318.02	0.46	95.51
Reach 1	8300	1_BU				1.88	403.00	332.67	335.59		335.80	0.001993	2.05	228.56	385.20	0.48	94.26
Reach 1	8300	0p5_BU				1.95	433.00	332.67	335.67		335.89	0.002032	2.12	243.02	414.95	0.48	94.36
Reach 1	8300	0p5-CC-LC_BU				2.26	606.20	332.67	336.02		336.29	0.002172	2.42	337.32	603.59	0.51	90.96
Reach 1	7514	5_BU				1.32	320.00	330.29	332.85		333.20	0.005065	2.66	128.63	313.89	0.74	96.68
Reach 1	7514	1_BU				1.51	403.00	330.29	333.08		333.47	0.004723	2.82	154.62	334.68	0.73	96.09
Reach 1	7514	0p5_BU				1.60	433.00	330.29	333.17		333.57	0.004548	2.86	165.75	356.64	0.72	95.82
Reach 1	7514	0p5-CC-LC_BU				2.02	606.20	330.29	333.61	333.21	334.05	0.003875	3.03	252.49	501.78	0.68	92.72
Reach 1	6800	5_BU				2.02	320.00	327.67	330.75		330.99	0.002035	2.16	147.90	172.09	0.49	100.00
Reach 1	6800	1_BU				2.33	403.00	327.67	331.06		331.34	0.001996	2.35	171.92	243.05	0.49	99.91
Reach 1	6800	0p5_BU				2.41	433.00	327.67	331.15		331.45	0.002033	2.44	178.94	252.79	0.50	99.83
Reach 1	6800	0p5-CC-LC_BU				2.93	606.20	327.67	331.67		332.06	0.002055	2.79	221.65	291.32	0.52	99.07
Reach 1	6650	5_BU				1.60	320.00	327.66	330.43		330.64	0.002467	2.03	158.71	302.71	0.51	99.89
Reach 1	6650	1_BU				1.57	403.00	327.66	330.77		330.99	0.002542	2.05	199.90	354.43	0.52	99.73
Reach 1	6650	0p5_BU				1.69	433.00	327.66	330.89		331.10	0.002334	2.05	214.63	358.43	0.50	99.68
Reach 1	6650	0p5-CC-LC_BU				2.32	606.20	327.66	331.52		331.74	0.001561	2.08	301.19	407.70	0.44	99.31
Reach 1	6563	5_BU				1.40	320.00	327.63	330.23		330.41	0.002627	1.93	176.49	189.07	0.52	97.70
Reach 1	6563	1_BU				1.72	403.00	327.63	330.61		330.79	0.001910	1.89	227.44	208.58	0.46	97.52
Reach 1	6563	0p5_BU				1.85	433.00	327.63	330.74		330.91	0.001737	1.89	244.99	217.47	0.44	97.49
Reach 1	6563	0p5-CC-LC_BU				2.54	606.20	327.63	331.43		331.61	0.001173	1.92	341.61	284.75	0.38	97.24
Reach 1	6400	5_BU				2.29	320.00	325.72	329.86		330.05	0.001947	1.92	166.92	132.56	0.40	100.00
Reach 1	6400	1_BU				2.65	403.00	325.72	330.26		330.47	0.001901	2.06	196.05	146.94	0.40	100.00
Reach 1	6400	0p5_BU				2.77	433.00	325.72	330.39		330.61	0.001896	2.10	205.88	153.61	0.40	100.00
Reach 1	6400	0p5-CC-LC_BU				3.39	606.20	325.72	331.09		331.37	0.001858	2.35	258.58	287.63	0.41	100.00
Reach 1	6300	5_BU				2.38	320.00	325.66	329.61		329.86	0.001694	2.21	145.14	95.39	0.46	100.00
Reach 1	6300	1_BU				2.77	403.00	325.66	330.00		330.29	0.001625	2.39	169.14	102.40	0.46	99.95
Reach 1	6300	0p5_BU				2.89	433.00	325.66	330.12		330.43	0.001614	2.45	177.16	105.93	0.46	99.92
Reach 1	6300	0p5-CC-LC_BU				3.56	606.20	325.66	330.79		331.18	0.001569	2.78	222.80	173.04	0.47	99.49
Reach 1	6200	5_BU				2.36	320.00	325.60	329.47		329.68	0.001592	2.04	157.10	139.61	0.42	100.00
Reach 1	6200	1_BU				2.72	403.00	325.60	329.87		330.12	0.001557	2.19	183.94	158.25	0.42	100.00
Reach 1	6200	0p5_BU				2.85	433.00	325.60	330.00		330.26	0.001536	2.25	193.11	171.60	0.42	99.98
Reach 1	6200	0p5-CC-LC_BU				3.54	606.20	325.60	330.69		331.01	0.001451	2.52	248.46	264.26	0.43	99.50
Reach 1	6150	5_BU				2.57	320.00	325.56	329.35		329.60	0.001556	2.22	144.41	104.58	0.44	100.00
Reach 1	6150	1_BU				2.91	403.00	325.56	329.73		330.03	0.001591	2.43	165.98	108.70	0.45	100.00
Reach 1	6150	0p5_BU				3.03	433.00	325.56	329.86		330.17	0.001598	2.50	173.24	110.26	0.46	99.99
Reach 1	6150	0p5-CC-LC_BU				3.68	606.20	325.56	330.50		330.92	0.001635	2.88	212.09	130.38	0.48	99.77
Reach 1	6100	5_BU				2.48	320.00	325.53	329.25		329.52	0.001771	2.31	138.70	83.86	0.47	100.00
Reach 1	6100	1_BU				2.81	403.00	325.53	329.62		329.95	0.001798	2.52	159.92	95.73	0.48	100.00
Reach 1	6100	0p5_BU				2.93	433.00	325.53	329.75		330.09	0.001800	2.59	167.02	103.57	0.48	100.00
Reach 1	6100	0p5-CC-LC_BU				3.57	606.20	325.53	330.39		330.84	0.001821	2.98	204.72	173.34	0.50	99.88
Reach 1	6050	5_BU				2.52	320.00	325.50	329.18		329.43	0.001591	2.21	144.84	126.35	0.44	100.00
Reach 1	6050	1_BU				2.90	403.00	325.50	329.55		329.85	0.001582	2.42	167.03	135.47	0.45	99.95
Reach 1	6050	0p5_BU				3.02	433.00	325.50	329.68		330.00	0.001586	2.49	174.48	138.46	0.46	99.92
Reach 1	6050	0p5-CC-LC_BU				3.66	606.20	325.50	330.32		330.74	0.001626	2.87	213.65	153.50	0.48	99.68
Reach 1	6000	5_BU				2.45	320.00	325.48	329.06		329.34	0.001814	2.32	138.05	100.17	0.47	100.00
Reach 1	6000	1_BU				2.78	403.00	325.48	329.44		329.76	0.001928	2.53	159.14	127.11	0.48	100.00
Reach 1	6000	0p5_BU				2.90	433.00	325.48	329.56		329.90	0.001974	2.61	166.24	129.90	0.49	99.99
Reach 1	6000	0p5-CC-LC_BU				3.52	606.20	325.48	330.19		330.65	0.002059	2.99	203.93	147.08	0.51	99.82
Reach 1	5950	5_BU				2.38	320.00	325.47	328.93		329.24	0.002133	2.47	129.81	72.91	0.51	100.00
Reach 1	5950	1_BU				2.69	403.00	325.47	329.28		329.65	0.002283	2.70	149.50	87.64	0.52	100.00
Reach 1	5950	0p5_BU				2.81	433.00	325.47	329.40		329.79	0.002293	2.78	156.05	89.09	0.53	100.00
Reach 1	5950	0p5-CC-LC_BU				3.42	606.20	325.47	330.01		330.53	0.002322	3.19	191.29	103.34	0.55	99.90
Reach 1	5900	5_BU				2.34	320.00	325.42	328.83		329.13	0.002117	2.43	131.43	88.62	0.51	100.00
Reach 1	5900	1_BU				2.69	403.00	325.42	329.18		329.54	0.002107	2.66	151.51	113.13	0.52	99.98
Reach 1	5900	0p5_BU				2.81	433.00	325.42	329.30		329.68	0.002108	2.74	158.30	114.20	0.52	99.95
Reach 1	5900	0p5-CC-LC_BU				3.43	606.20	325.42	329.91		330.42	0.002127	3.14	194.50	124.30	0.54	99.71
Reach 1	5850	5_BU				2.21	320.00	325.40	328.54		328.98	0.003336	2.94	108.82	69.00	0.63	100.00
Reach 1	5850	1_BU				2.49	403.00	325.40	328.86		329.39	0.003472	3.24	124.38	73.42	0.66	100.00
Reach 1	5850	0p5_BU				2.59	433.00	325.40	328.96		329.53	0.003510	3.34	129.50	77.94	0.66	99.99
Reach 1	5850	0p5-CC-LC_BU				3.11	606.20	325.40	329.48		330.25	0.003735	3.90	156.20	110.07	0.71	99.89
Reach 1	5800	5_BU				2.17	320.00	325.36	328.42		328.81	0.003002	2.76	116.10	102.42	0.60	100.00
Reach 1	5800	1_BU				2.46	403.00	325.36	328.74		329.21	0.003064	3.02	133.40	111.65	0.62	100.00
Reach 1	5800	0p5_BU				2.55	433.00	325.36	328.85		329.34	0.003095	3.11	139.13	119.28	0.62	99.99
Reach 1	5800	0p5-CC-LC_BU				3.08	606.20	325.36	329.38		330.04	0.003221	3.60	169.15	158.82	0.66	99.94
Reach 1	5750	5_BU				2.12	320.00	325.34	328.25		328.65	0.003181	2.80	114.16	159.30	0.61	100.00
Reach 1	5750	1_BU				2.39	403.00	325.34	328.57		329.05	0.003270	3.07	131.16	168.35	0.63	100.00
Reach 1	5750	0p5_BU				2.49	433.00	325.34	328.67		329.18	0.003301	3.17	136.76	171.04	0.64	100.00
Reach 1	5750	0p5-CC-LC_BU				3.01	606.20	325.34	329.20		329.88	0.003400	3.65	166.79	193.07	0.67	99.87
Reach 1	5724	5_BU				2.16	320.00	325.30	328.22		328.56	0.002684	2.60	123.18	81.33	0.56	100.00
Reach 1	5724	1_BU				2.46	403.00	325.30	328.54		328.95	0.002717	2.85	141.55	111.38	0.58	99.99
Reach 1	5724	0p5_BU				2.56	433.00	325.30	328.64		329.08	0.002735	2.94	147.59	124.27	0.59	99.98
Reach 1	5724	0p5-CC-LC_BU				3.10	606.20	325.30	329.18		329.77	0.002825	3.39	179.66	172.58	0.61	99.85
Reach 1	5650	5_BU				2.10	320.00	325.13	327.97		328.35	0.003057	2.73	117.18	81.77	0.60	100.00
Reach 1	5650	1_BU				2.37	403.00	325.13	328.27		328.73	0.003157	3.00	134.28	85.55	0.62	100.00
Reach 1	5650	0p5_BU				2.47	433.00	325.13	328.37		328.86	0.003183	3.10	139.88	93.37	0.63	100.00
Reach 1	5650	0p5-CC-LC_BU				2.98	606.20	325.13	328.88		329.54	0.003342	3.59	169.41	135.41	0.66	99.88
Reach 1	5550	5_BU				1.98	320.00	324.87	327.59		328.01	0.003607	2.85	112.09	71.61	0.65	100.00
Reach 1	5550	1_BU				2.23	403.00	324.87	327.88		328.38	0.003749	3.14	128.17	86.49	0.67	100.00
Reach 1	5550	0p5_BU				2.32	433.00	324.87	327.97		328.50	0.003799	3.25	133.42	90.24	0.68	99.99

HEC-RAS Plan: KR_Jam_12600 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	5550	0p5-CC-LC_BU				2.76	606.20	324.87	328.41		329.15	0.004132	3.81	159.57	112.47	0.73	99.93
Reach 1	5400	5_BU				1.93	320.00	324.48	327.24		327.52	0.002514	2.34	136.52	109.54	0.54	100.00
Reach 1	5400	1_BU				2.17	403.00	324.48	327.53		327.87	0.002556	2.56	157.68	118.37	0.55	100.00
Reach 1	5400	0p5_BU				2.25	433.00	324.48	327.63		327.98	0.002574	2.63	164.68	121.11	0.56	100.00
Reach 1	5400	0p5-CC-LC_BU				2.68	606.20	324.48	328.10		328.57	0.002710	3.03	200.13	133.57	0.59	99.95
Reach 1	5200	5_BU				2.14	320.00	323.95	326.96		327.13	0.001346	1.84	174.18	147.28	0.40	100.00
Reach 1	5200	1_BU				2.38	403.00	323.95	327.24		327.45	0.001437	2.04	197.79	158.87	0.42	100.00
Reach 1	5200	0p5_BU				2.46	433.00	323.95	327.33		327.56	0.001473	2.11	205.48	161.95	0.43	100.00
Reach 1	5200	0p5-CC-LC_BU				2.86	606.20	323.95	327.79		328.10	0.001671	2.48	244.14	180.17	0.47	100.00
Reach 1	4950	5_BU				1.74	320.00	323.31	326.48		326.70	0.002239	2.06	167.42	179.76	0.50	98.31
Reach 1	4950	1_BU				1.86	403.00	323.31	326.74		326.99	0.002395	2.23	197.79	228.08	0.52	97.76
Reach 1	4950	0p5_BU				1.92	433.00	323.31	326.83		327.09	0.002417	2.29	208.52	243.88	0.53	97.61
Reach 1	4950	0p5-CC-LC_BU				2.33	606.20	323.31	327.28		327.61	0.002374	2.57	271.12	340.15	0.54	96.92
Reach 1	4694	5_BU				1.61	320.00	322.84	326.02		326.17	0.001753	1.73	191.54	371.95	0.44	99.55
Reach 1	4694	1_BU				1.89	403.00	322.84	326.30		326.47	0.001612	1.84	230.30	393.36	0.43	99.03
Reach 1	4694	0p5_BU				1.98	433.00	322.84	326.40		326.58	0.001574	1.88	243.58	397.53	0.43	98.85
Reach 1	4694	0p5-CC-LC_BU				2.48	606.20	322.84	326.90		327.11	0.001433	2.09	315.21	433.58	0.42	97.91
Reach 1	4150	5_BU				1.93	320.00	322.29	324.97		325.17	0.001922	1.99	160.79	187.71	0.46	100.00
Reach 1	4150	1_BU				2.15	403.00	322.29	325.20		325.46	0.002150	2.24	180.21	208.64	0.49	100.00
Reach 1	4150	0p5_BU				2.23	433.00	322.29	325.28		325.55	0.002239	2.32	186.43	221.04	0.50	100.00
Reach 1	4150	0p5-CC-LC_BU				2.59	606.20	322.29	325.65		326.05	0.002716	2.78	218.13	251.44	0.55	99.99
Reach 1	3843	5_BU				1.08	320.00	322.07	323.61	323.54	324.05	0.008683	2.95	108.45	175.59	0.91	100.00
Reach 1	3843	1_BU				1.29	403.00	322.07	323.84	323.71	324.32	0.007441	3.07	131.42	179.92	0.86	100.00
Reach 1	3843	0p5_BU				1.37	433.00	322.07	323.92		324.41	0.006974	3.09	140.13	181.35	0.84	99.99
Reach 1	3843	0p5-CC-LC_BU				1.82	606.20	322.07	324.41		324.93	0.005028	3.17	191.67	190.38	0.75	99.88
Reach 1	3700	5_BU				1.43	320.00	320.95	323.51		323.60	0.001117	1.28	250.48	236.57	0.34	100.00
Reach 1	3700	1_BU				1.73	403.00	320.95	323.81		323.90	0.000943	1.33	302.94	251.63	0.32	100.00
Reach 1	3700	0p5_BU				1.83	433.00	320.95	323.92		324.01	0.000895	1.35	321.25	260.23	0.32	100.00
Reach 1	3700	0p5-CC-LC_BU				2.40	606.20	320.95	324.48		324.59	0.000721	1.45	420.26	288.09	0.30	99.95
Reach 1	3600	5_BU				1.60	320.00	320.47	323.08		323.39	0.003779	2.49	138.75	171.33	0.63	98.27
Reach 1	3600	1_BU				1.90	403.00	320.47	323.38		323.72	0.003346	2.62	168.55	179.59	0.61	97.56
Reach 1	3600	0p5_BU				2.00	433.00	320.47	323.48		323.83	0.003239	2.67	178.79	182.01	0.60	97.37
Reach 1	3600	0p5-CC-LC_BU				2.53	606.20	320.47	324.01		324.43	0.002842	2.93	233.97	199.34	0.59	96.31
Reach 1	3500	5_BU				2.02	320.00	320.12	322.84		323.08	0.002241	2.18	149.01	144.00	0.49	99.80
Reach 1	3500	1_BU				2.32	403.00	320.12	323.15		323.43	0.002216	2.37	173.88	151.87	0.50	99.59
Reach 1	3500	0p5_BU				2.42	433.00	320.12	323.25		323.55	0.002210	2.44	182.62	155.28	0.50	99.49
Reach 1	3500	0p5-CC-LC_BU				2.95	606.20	320.12	323.78		324.17	0.002188	2.77	237.82	215.92	0.52	98.61
Reach 1	3450	5_BU				1.96	320.00	319.97	322.62		322.94	0.003189	2.55	140.03	170.62	0.58	96.55
Reach 1	3450	1_BU				2.24	403.00	319.97	322.94		323.30	0.003111	2.70	170.26	196.02	0.58	94.74
Reach 1	3450	0p5_BU				2.34	433.00	319.97	323.05		323.41	0.003095	2.75	180.66	205.57	0.58	94.17
Reach 1	3450	0p5-CC-LC_BU				2.87	606.20	319.97	323.60		324.04	0.002903	3.04	240.27	255.50	0.57	91.90
Reach 1	3400	5_BU				1.86	320.00	319.80	322.38		322.76	0.003795	2.75	116.90	78.31	0.64	99.97
Reach 1	3400	1_BU				2.10	403.00	319.80	322.65		323.11	0.003970	3.00	135.61	84.04	0.66	99.82
Reach 1	3400	0p5_BU				2.19	433.00	319.80	322.74		323.23	0.003983	3.09	142.01	85.47	0.67	99.75
Reach 1	3400	0p5-CC-LC_BU				2.67	606.20	319.80	323.22		323.85	0.003994	3.53	177.99	100.85	0.69	99.23
Reach 1	3350	5_BU				1.88	320.00	319.64	322.25		322.57	0.003199	2.53	128.75	92.65	0.59	99.49
Reach 1	3350	1_BU				2.14	403.00	319.64	322.52		322.91	0.003298	2.77	148.61	96.70	0.61	99.39
Reach 1	3350	0p5_BU				2.23	433.00	319.64	322.61		323.03	0.003325	2.85	155.59	97.68	0.61	99.30
Reach 1	3350	0p5-CC-LC_BU				2.69	606.20	319.64	323.11		323.64	0.003421	3.25	193.88	107.25	0.63	98.79
Reach 1	3300	5_BU				1.74	320.00	319.48	321.96		322.38	0.004342	2.87	121.38	98.84	0.70	98.22
Reach 1	3300	1_BU				1.98	403.00	319.48	322.24		322.72	0.004236	3.09	145.48	104.84	0.70	97.46
Reach 1	3300	0p5_BU				2.06	433.00	319.48	322.34		322.83	0.004198	3.16	154.07	107.06	0.70	97.22
Reach 1	3300	0p5-CC-LC_BU				2.55	606.20	319.48	322.86		323.45	0.003851	3.48	203.86	121.37	0.70	96.06
Reach 1	3275	5_BU				1.47	320.00	319.45	321.68	321.54	322.23	0.007153	3.29	97.17	147.83	0.87	100.00
Reach 1	3275	1_BU				1.71	403.00	319.45	321.95	321.77	322.57	0.007017	3.49	115.43	155.14	0.85	100.00
Reach 1	3275	0p5_BU				1.79	433.00	319.45	322.04		322.69	0.006939	3.56	121.71	157.82	0.85	100.00
Reach 1	3275	0p5-CC-LC_BU				2.26	606.20	319.45	322.56		323.32	0.006449	3.85	157.41	167.42	0.82	100.00
Reach 1	3250	5_BU				1.54	320.00	319.30	321.58		322.12	0.002874	3.24	98.77	123.23	0.83	100.00
Reach 1	3250	1_BU				1.79	403.00	319.30	321.85		322.46	0.002706	3.46	116.38	141.36	0.83	100.00
Reach 1	3250	0p5_BU				1.87	433.00	319.30	321.95		322.58	0.002659	3.54	122.43	144.71	0.83	100.00
Reach 1	3250	0p5-CC-LC_BU				2.34	606.20	319.30	322.45		323.22	0.002410	3.90	155.49	151.00	0.81	100.00
Reach 1	3150	5_BU				1.97	320.00	318.88	321.59		321.87	0.001096	2.35	136.08	104.96	0.54	100.00
Reach 1	3150	1_BU				2.21	403.00	318.88	321.87		322.21	0.001131	2.58	156.06	108.66	0.55	100.00
Reach 1	3150	0p5_BU				2.30	433.00	318.88	321.97		322.33	0.001140	2.66	162.96	109.94	0.56	100.00
Reach 1	3150	0p5-CC-LC_BU				2.83	606.20	318.88	322.50		322.97	0.001114	3.02	201.41	119.42	0.57	99.91
Reach 1	3037	5_BU				2.40	320.00	318.40	321.50		321.76	0.000852	2.26	144.36	81.27	0.46	99.56
Reach 1	3037	1_BU				2.67	403.00	318.40	321.77		322.09	0.000955	2.55	162.16	88.18	0.50	99.24
Reach 1	3037	0p5_BU				2.77	433.00	318.40	321.86		322.21	0.000987	2.64	168.33	91.25	0.51	99.12
Reach 1	3037	0p5-CC-LC_BU				3.26	606.20	318.40	322.35		322.84	0.001122	3.12	202.41	104.55	0.55	98.41
Reach 1	2965	5_BU				2.44	320.00	318.25	321.43	320.38	321.70	0.000798	2.27	141.01	57.82	0.46	100.00
Reach 1	2965	1_BU				2.66	403.00	318.25	321.68	320.65	322.02	0.000965	2.59	155.47	58.53	0.51	100.00
Reach 1	2965	0p5_BU				2.74	433.00	318.25	321.77	320.75	322.14	0.001019	2.70	160.40	58.76	0.52	100.00
Reach 1	2965	0p5-CC-LC_BU				3.18	606.20	318.25	322.21	321.21	322.75	0.001215	3.25	186.98	61.92	0.58	99.98
Reach 1	2946		Bridge														
Reach 1	2919	5_BU				3.35	320.00	317.23	321.47		321.60	0.000212	1.60	200.61	61.77	0.28	99.93
Reach 1	2919	1_BU				3.61	403.00	317.23	321.73		321.90	0.000263	1.87	216.55	62.76	0.31	99.86
Reach 1	2919	0p5_BU				3.70	433.00	317.23	321.81		322.01	0.000280	1.96	222.00	63.13	0.33	99.82
Reach 1	2919	0p5-CC-LC_BU				4.16	606.20	317.23	322.28		322.58	0.000368	2.43	251.87	65.06	0.38	99.56
Reach 1	2850	5_BU				2.57	320.00	318.15	321.36		321.56	0.000543	1.96	163.05	63.56	0.39	100.00
Reach 1	2850	1_BU				2.79	403.00	318.15	321.59		321.85	0.000651	2.27	177.64	64.72	0.43	99.99
Reach 1	2850	0p5_BU				2.86	433.00	318.15	321.66		321.95	0.000687	2.37	182.57	64.87	0.45	99.98
Reach 1	2850	0p5-CC-LC_BU				3.27	606.20	318.15	322.07		322.50	0.000865	2.91	209.02	67.68	0.51	99.90
Reach 1	2800	5_BU				2.23	320.00	317.92	321.34		321.53	0.000642	1.95	186.71	110.81	0.42	97.48
Reach 1	2800	1_BU				2.40	403.00	317.92	321.57		321.81	0.000725	2.20	213.00	114.44	0.45	96.61
Reach 1	2800	0p5_BU				2.47	433.00	317.92	321.65		321.91	0.000751	2.28	222.19	117.36	0.46	96.36
Reach 1	2800	0p5-CC-LC_BU				2.85	606.20	317.92	322.08		322.43	0.000843	2.68	277.17	137.53	0.51	95.16
Reach 1	2770	5_BU				2.07	320.00	317.84	321.29		321.50	0.000792	2.06	165.40	97.03	0.46	98.99
Reach 1	2770	1_BU				2.25	403.00	317.84	321.51		321.78	0.000907	2.33	187.13	99.11	0.50	98.47
Reach 1	2770	0p5_BU				2.32	433.00	317.84	321.58		321.88	0.000940	2.42	194.59	101.02	0.51	98.30
Reach 1	2770	0p5-CC-LC_BU				2.63	606.20	317.84	322.00		322.40	0.001076	2.83	238.00	117.28	0.56	97.44
Reach 1	2750	5_BU				1.91	320.00	318.03	321.25		321.48	0.000939	2.13	150.03	78.47	0.49	100.00
Reach 1	2750	1_BU				2.09	403.00	318.03	321.46		321.76	0.001073	2.42	166.68	79.72	0.53	100.00
Reach 1	2750	0p5_BU				2.15	433.00	318.03	321.53		321.85	0.001114	2.51	172.32	80.00	0.55	100.00
Reach 1	2750	0p5-CC-LC_BU				2.49	606.20	318.03	321.92		322.37	0.001287	2.98	203.85	86.28	0.60	99.99
Reach 1	2700	5_BU				1.68	320.00	318.39	321.21		321.43	0.001072	2.10	152.62	90.75	0.52	100.00
Reach 1	2700	1_BU				1.87	403.00	318.39	321.42		321.70	0.001161	2.34	171.97	92.86	0.55	100.00
Reach 1	2700	0p5_BU				1.94	433.00	318.39	321.49		321.79	0.001186	2.42	178.60	94.20	0.56	100.00

HEC-RAS Plan: KR_Jam_12600 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	2700	0p5-CC-LC_BU				2.34	606.20	318.39	321.89		322.29	0.001245	2.81	215.72	98.83	0.59	99.97
Reach 1	2666	5_BU				1.53	320.00	318.64	321.11		321.38	0.001479	2.31	138.40	90.37	0.60	100.00
Reach 1	2666	1_BU				1.72	403.00	318.64	321.31		321.65	0.001586	2.58	156.22	91.07	0.63	100.00
Reach 1	2666	0p5_BU				1.78	433.00	318.64	321.37		321.74	0.001618	2.67	162.30	91.28	0.64	100.00
Reach 1	2666	0p5-CC-LC_BU				2.14	606.20	318.64	321.76		322.24	0.001679	3.07	197.36	93.08	0.67	100.00
Reach 1	2650	5_BU				1.53	320.00	318.67	321.06		321.36	0.001610	2.41	133.00	94.44	0.62	99.94
Reach 1	2650	1_BU				1.71	403.00	318.67	321.24		321.62	0.001756	2.71	149.44	98.47	0.66	99.81
Reach 1	2650	0p5_BU				1.77	433.00	318.67	321.30		321.71	0.001799	2.81	155.04	99.35	0.67	99.76
Reach 1	2650	0p5-CC-LC_BU				2.13	606.20	318.67	321.66		322.20	0.001892	3.26	187.85	104.90	0.71	99.39
Reach 1	2600	5_BU				1.42	320.00	318.85	321.00		321.27	0.001619	2.31	138.88	129.85	0.62	99.97
Reach 1	2600	1_BU				1.60	403.00	318.85	321.18		321.52	0.001715	2.57	157.21	135.19	0.65	99.92
Reach 1	2600	0p5_BU				1.66	433.00	318.85	321.24		321.60	0.001742	2.65	163.50	136.29	0.66	99.90
Reach 1	2600	0p5-CC-LC_BU				2.04	606.20	318.85	321.62		322.09	0.001716	3.02	201.47	155.84	0.68	99.78
Reach 1	2563	5_BU				1.29	320.00	319.01	320.89		321.20	0.002065	2.44	131.10	102.05	0.69	100.00
Reach 1	2563	1_BU				1.46	403.00	319.01	321.07		321.44	0.002151	2.70	149.22	118.27	0.71	100.00
Reach 1	2563	0p5_BU				1.52	433.00	319.01	321.13		321.53	0.002172	2.78	155.52	122.83	0.72	100.00
Reach 1	2563	0p5-CC-LC_BU				1.91	606.20	319.01	321.54		322.02	0.001948	3.07	197.28	139.18	0.71	99.99
Reach 1	2550	5_BU				1.31	320.00	318.95	320.87		321.17	0.002010	2.43	131.47	127.32	0.68	100.00
Reach 1	2550	1_BU				1.48	403.00	318.95	321.04		321.42	0.002101	2.70	149.12	138.36	0.71	99.99
Reach 1	2550	0p5_BU				1.54	433.00	318.95	321.10		321.50	0.002126	2.79	155.19	142.01	0.72	99.98
Reach 1	2550	0p5-CC-LC_BU				1.95	606.20	318.95	321.51		321.99	0.001914	3.09	196.56	167.31	0.71	99.85
Reach 1	2500	5_BU				1.32	320.00	318.86	320.77		321.07	0.001957	2.42	133.30	104.85	0.67	99.32
Reach 1	2500	1_BU				1.49	403.00	318.86	320.94		321.31	0.002062	2.69	151.14	107.71	0.70	99.03
Reach 1	2500	0p5_BU				1.55	433.00	318.86	321.00		321.39	0.002088	2.78	157.34	109.91	0.71	98.94
Reach 1	2500	0p5-CC-LC_BU				1.98	606.20	318.86	321.43		321.89	0.001792	3.03	202.81	149.69	0.69	98.32
Reach 1	2464	5_BU				1.24	328.00	318.82	320.67		320.99	0.002313	2.51	130.68	110.84	0.72	100.00
Reach 1	2464	1_BU				1.37	413.80	318.82	320.81		321.22	0.002572	2.84	145.77	116.59	0.77	99.99
Reach 1	2464	0p5_BU				1.42	445.00	318.82	320.86		321.30	0.002671	2.96	150.64	116.89	0.79	99.98
Reach 1	2464	0p5-CC-LC_BU				1.89	623.00	318.82	321.34		321.82	0.001970	3.07	203.43	135.25	0.71	99.87
Reach 1	2400	5_BU				1.14	328.00	318.95	320.55		320.83	0.002306	2.33	141.19	126.37	0.70	99.99
Reach 1	2400	1_BU				1.27	413.80	318.95	320.69		321.04	0.002575	2.62	158.57	128.45	0.74	99.94
Reach 1	2400	0p5_BU				1.31	445.00	318.95	320.73		321.11	0.002682	2.72	164.09	129.28	0.76	99.93
Reach 1	2400	0p5-CC-LC_BU				1.91	623.00	318.95	321.33		321.67	0.001575	2.60	254.36	196.55	0.60	99.07
Reach 1	2369	5_BU				0.89	328.00	318.74	320.39	320.30	320.73	0.004225	2.59	127.60	151.30	0.88	99.93
Reach 1	2369	1_BU				1.07	413.80	318.74	320.57	320.45	320.94	0.003674	2.70	155.79	154.57	0.83	99.74
Reach 1	2369	0p5_BU				1.12	445.00	318.74	320.62	320.50	321.01	0.003663	2.77	163.62	155.96	0.84	99.68
Reach 1	2369	0p5-CC-LC_BU				1.83	623.00	318.74	321.33		321.60	0.001444	2.35	288.26	232.45	0.55	98.29
Reach 1	2350	5_BU				1.05	328.00	318.43	320.41		320.64	0.002315	2.13	160.16	160.38	0.66	98.83
Reach 1	2350	1_BU				1.14	413.80	318.43	320.60		320.85	0.002258	2.25	192.84	177.23	0.67	98.50
Reach 1	2350	0p5_BU				1.20	445.00	318.43	320.65		320.92	0.002244	2.30	202.65	177.99	0.67	98.42
Reach 1	2350	0p5-CC-LC_BU				1.90	623.00	318.43	321.36		321.56	0.000959	1.99	353.43	293.10	0.46	96.83
Reach 1	2300	5_BU				1.07	328.00	317.71	320.35		320.51	0.001803	1.78	190.75	187.27	0.55	98.75
Reach 1	2300	1_BU				1.27	413.80	317.71	320.56		320.74	0.001575	1.88	229.25	189.69	0.53	98.52
Reach 1	2300	0p5_BU				1.32	445.00	317.71	320.61		320.80	0.001565	1.94	240.20	190.41	0.54	98.46
Reach 1	2300	0p5-CC-LC_BU				2.06	623.00	317.71	321.36		321.50	0.000662	1.71	414.82	331.33	0.38	97.12
Reach 1	2254	5_BU				1.04	328.00	317.67	319.85	319.85	320.34	0.006168	3.11	109.28	153.24	0.98	99.31
Reach 1	2254	1_BU				1.09	413.80	317.67	320.05	320.05	320.57	0.006361	3.23	134.33	170.39	0.99	98.65
Reach 1	2254	0p5_BU				1.16	445.00	317.67	320.19	320.11	320.65	0.005326	3.06	153.80	180.77	0.91	98.20
Reach 1	2254	0p5-CC-LC_BU				1.90	623.00	317.67	321.30		321.46	0.000982	1.87	416.87	429.81	0.43	93.75
Reach 1	2200	5_BU				0.98	328.00	317.45	319.54	319.54	320.04	0.004867	3.15	104.43	108.04	1.01	99.98
Reach 1	2200	1_BU				1.19	413.80	317.45	319.79	319.72	320.29	0.003839	3.14	132.83	114.78	0.92	99.89
Reach 1	2200	0p5_BU				1.42	445.00	317.45	320.06		320.44	0.002362	2.74	164.60	137.26	0.74	99.78
Reach 1	2200	0p5-CC-LC_BU				1.90	623.00	317.45	321.28		321.41	0.000590	1.64	485.88	444.60	0.38	93.84
Reach 1	2168	5_BU				0.81	328.00	317.62	319.29	319.38	319.85	0.007136	3.32	99.23	130.47	1.18	99.92
Reach 1	2168	1_BU				1.28	413.80	317.62	319.84		320.14	0.002056	2.42	174.00	160.21	0.68	99.56
Reach 1	2168	0p5_BU				1.47	445.00	317.62	320.11		320.34	0.001340	2.14	216.35	200.89	0.56	99.04
Reach 1	2168	0p5-CC-LC_BU				1.95	623.00	317.62	321.30		321.38	0.000323	1.27	622.21	489.61	0.29	91.69
Reach 1	2054	5_BU				1.17	328.00	317.47	319.42	318.95	319.54	0.000992	1.58	215.17	209.07	0.47	93.24
Reach 1	2054	1_BU				1.60	413.80	317.47	319.89		319.98	0.000491	1.37	322.08	246.15	0.35	90.06
Reach 1	2054	0p5_BU				1.83	445.00	317.47	320.15		320.23	0.000330	1.23	389.00	264.65	0.29	87.60
Reach 1	2054	0p5-CC-LC_BU				2.53	623.00	317.47	321.32		321.35	0.000103	0.85	813.50	414.77	0.17	77.51
Reach 1	1884	5_BU				1.76	328.00	315.75	319.08		319.34	0.001167	2.25	148.18	94.59	0.54	99.08
Reach 1	1884	1_BU				2.40	413.80	315.75	319.72		319.89	0.000540	1.88	260.50	212.16	0.39	89.42
Reach 1	1884	0p5_BU				2.72	445.00	315.75	320.05		320.17	0.000356	1.66	333.78	253.74	0.32	83.28
Reach 1	1884	0p5-CC-LC_BU				3.96	623.00	315.75	321.28		321.33	0.000105	1.16	740.48	366.60	0.19	60.50
Reach 1	1760	5_BU				2.29	328.00	315.68	318.93		319.21	0.000959	2.42	151.26	122.64	0.51	94.78
Reach 1	1760	1_BU				2.92	413.80	315.68	319.68		319.83	0.000421	1.88	284.81	212.77	0.35	78.47
Reach 1	1760	0p5_BU				3.26	445.00	315.68	320.02		320.13	0.000278	1.64	362.94	245.81	0.29	71.14
Reach 1	1760	0p5-CC-LC_BU				4.50	623.00	315.68	321.27		321.32	0.000104	1.25	682.98	271.53	0.19	53.45
Reach 1	1639	5_BU				2.24	328.00	314.98	318.93	317.49	319.09	0.000545	1.79	186.85	121.18	0.38	99.54
Reach 1	1639	1_BU				2.96	413.80	314.98	319.65	317.99	319.78	0.000326	1.67	269.30	147.29	0.31	97.18
Reach 1	1639	0p5_BU				3.28	445.00	314.98	319.97	318.08	320.10	0.000258	1.59	313.41	166.63	0.28	95.72
Reach 1	1639	0p5-CC-LC_BU				4.51	623.00	314.98	321.20	318.49	321.30	0.000154	1.52	490.86	219.49	0.23	89.66
Reach 1	1548	5_BU				2.66	328.00	314.79	318.87	317.38	319.04	0.000464	1.85	177.21	83.95	0.36	100.00
Reach 1	1548	1_BU				3.29	413.80	314.79	319.58	317.65	319.75	0.000347	1.84	225.25	98.13	0.32	99.99
Reach 1	1548	0p5_BU				3.61	445.00	314.79	319.90	317.77	320.07	0.000293	1.80	247.96	105.87	0.30	99.95
Reach 1	1548	0p5-CC-LC_BU				4.81	623.00	314.79	321.10	318.24	321.28	0.000218	1.88	338.07	175.40	0.27	99.30
Reach 1	1460	5_BU				2.02	328.00	316.31	318.84	317.89	318.99	0.000559	1.70	213.79	178.90	0.38	96.38
Reach 1	1460	1_BU				2.77	413.80	316.31	319.59	318.08	319.70	0.000289	1.51	322.14	248.68	0.29	93.03
Reach 1	1460	0p5_BU				3.11	445.00	316.31	319.93	318.15	320.02	0.000218	1.42	376.16	266.33	0.26	90.90
Reach 1	1460	0p5-CC-LC_BU				4.33	623.00	316.31	321.16	318.49	321.24	0.000120	1.31	591.46	313.61	0.20	83.90
Reach 1	1371	5_BU				1.85	328.00	315.74	318.81	317.86	318.91	0.000970	1.45	253.27	172.05	0.34	92.50
Reach 1	1371	1_BU				2.63	413.80	315.74	319.59	318.02	319.66	0.000446	1.22	407.50	220.75	0.24	87.72
Reach 1	1371	0p5_BU				2.97	445.00	315.74	319.93	318.08	319.99	0.000319	1.11	483.76	231.38	0.21	84.10
Reach 1	1371	0p5-CC-LC_BU				4.21	623.00	315.74	321.17	318.38	321.21	0.000156	0.97	785.64	341.16	0.15	74.18
Reach 1	1226	5_BU				2.20	328.00	315.18	318.65	317.48	318.77	0.000940	1.58	224.47	124.53	0.34	96.91
Reach 1	1226	1_BU				3.06	413.80	315.18	319.50	317.71	319.59	0.000475	1.37	381.73	218.03	0.25	92.52
Reach 1	1226	0p5_BU				3.42	445.00	315.18	319.86	317.78	319.94	0.000353	1.27	463.56	228.92	0.22	89.01
Reach 1	1226	0p5-CC-LC_BU				4.69	623.00	315.18	321.13	318.14	321.18	0.000193	1.14	770.17	329.62	0.17	78.60
Reach 1	1171	5_BU				2.44	328.00	314.92	318.63	317.20	318.72	0.000593	1.34	302.91	192.44	0.27	92.28
Reach 1	1171	1_BU				3.31	413.80	314.92	319.50	317.44	319.56	0.000296	1.14	501.93	271.23	0.20	84.71
Reach 1	1171	0p5_BU				3.67	445.00	314.92	319.86	317.51	319.91	0.000231	1.08	601.45	278.50	0.18	82.42
Reach 1	1171	0p5-CC-LC_BU				4.94	623.00	314.92	321.13	317.89	321.17	0.000126	0.96	1001.73	369.12	0.14	70.90
Reach 1	1060	5_BU				2.97	328.00	314.65	318.60	316.72	318.66	0.000356	1.17	348.30	210.07	0.22	93.21
Reach 1	1060	1_BU				3.85	413.80	314.65	319.48	316.92	319.53	0.000197	1.04	572.12	330.75	0.17	85.08
Reach 1	1060	0p5_BU				4.22	445.00	314.65	319.85	316.99	319.89	0.000154	0.97	696.52	341.21	0.15	81.43
Reach 1	1060	0p5-CC-LC_BU				5.50	623.00	314.65	321.12	317.35	321.16	0.000093	0.90	1135.77	347.36	0.12	70.10

HEC-RAS Plan: KR_Jam_12600 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	964	5_BU				2.76	328.00	314.83	318.59	316.49	318.63	0.000229	0.89	445.60	284.73	0.17	94.36
Reach 1	964	1_BU				3.66	413.80	314.83	319.48	316.71	319.51	0.000121	0.78	719.47	317.08	0.13	86.67
Reach 1	964	0p5_BU				4.03	445.00	314.83	319.85	316.78	319.87	0.000095	0.74	837.53	326.13	0.12	83.84
Reach 1	964	0p5-CC-LC_BU				5.30	623.00	314.83	321.12	317.15	321.15	0.000062	0.72	1266.49	375.70	0.10	76.63
Reach 1	856	5_BU				2.74	328.00	314.15	318.58	316.32	318.60	0.000164	0.75	563.50	317.43	0.14	86.98
Reach 1	856	1_BU				3.65	413.80	314.15	319.48	316.51	319.50	0.000088	0.66	865.55	387.73	0.11	81.32
Reach 1	856	0p5_BU				4.01	445.00	314.15	319.85	316.58	319.86	0.000070	0.63	993.31	392.91	0.10	78.84
Reach 1	856	0p5-CC-LC_BU				5.29	623.00	314.15	321.12	316.90	321.14	0.000046	0.62	1443.68	438.41	0.09	72.84
Reach 1	746	5_BU				3.12	328.00	313.89	318.57	316.13	318.59	0.000082	0.58	716.97	434.89	0.10	92.69
Reach 1	746	1_BU				4.02	413.80	313.89	319.48	316.27	319.49	0.000046	0.51	1118.86	566.57	0.08	84.21
Reach 1	746	0p5_BU				4.39	445.00	313.89	319.85	316.31	319.86	0.000037	0.49	1288.74	601.50	0.07	81.46
Reach 1	746	0p5-CC-LC_BU				5.67	623.00	313.89	321.12	316.55	321.13	0.000026	0.48	1892.63	664.17	0.06	74.24
Reach 1	638	5_BU				3.16	328.00	313.68	318.57	315.88	318.58	0.000060	0.50	773.57	484.53	0.09	95.79
Reach 1	638	1_BU				4.07	413.80	313.68	319.47	316.05	319.48	0.000035	0.45	1245.00	705.98	0.07	88.42
Reach 1	638	0p5_BU				4.44	445.00	313.68	319.84	316.11	319.85	0.000028	0.43	1450.27	759.64	0.07	85.75
Reach 1	638	0p5-CC-LC_BU				5.72	623.00	313.68	321.12	316.40	321.13	0.000019	0.42	2180.02	873.57	0.06	77.42

HEC-RAS Plan: KR_Jam_17574 River: Klondike River Reach: Reach 1

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	58149	5_BU				0.60	211.80	457.19	459.11	458.78	459.18	0.003960	1.28	176.98	311.40	0.53	69.92
Reach 1	58149	1_BU				0.62	258.70	457.19	459.21	458.88	459.29	0.003968	1.31	209.35	358.41	0.53	68.61
Reach 1	58149	0p5_BU				0.63	274.10	457.19	459.23	458.92	459.31	0.003967	1.34	218.21	365.59	0.54	68.59
Reach 1	58149	0p5-CC-LC_BU				0.78	383.70	457.19	459.40	459.08	459.50	0.003748	1.50	283.35	422.35	0.54	69.68
Reach 1	57145	5_BU				1.56	211.80	454.28	457.10		457.15	0.001219	1.40	307.38	553.20	0.36	51.15
Reach 1	57145	1_BU				1.67	258.70	454.28	457.21		457.26	0.001207	1.46	371.49	616.50	0.36	46.72
Reach 1	57145	0p5_BU				1.70	274.10	454.28	457.24		457.30	0.001201	1.48	392.42	637.56	0.36	45.45
Reach 1	57145	0p5-CC-LC_BU				1.89	383.70	454.28	457.43	456.97	457.49	0.001229	1.60	523.14	758.51	0.37	39.14
Reach 1	56479	5_BU				1.05	240.10	453.12	455.47	455.09	455.51	0.005101	1.12	306.13	656.22	0.35	32.50
Reach 1	56479	1_BU				1.11	296.00	453.12	455.54	455.20	455.58	0.005627	1.22	349.22	708.62	0.37	30.50
Reach 1	56479	0p5_BU				1.13	314.90	453.12	455.55	455.23	455.60	0.005788	1.26	362.46	723.99	0.38	29.88
Reach 1	56479	0p5-CC-LC_BU				1.25	440.90	453.12	455.68	455.34	455.74	0.006242	1.40	463.40	836.79	0.40	26.46
Reach 1	56103	5_BU				1.35	240.10	452.81	454.88	454.59	454.92	0.001233	1.30	480.43	1110.99	0.36	43.21
Reach 1	56103	1_BU				1.48	296.00	452.81	455.00	454.65	455.04	0.001075	1.28	619.04	1250.15	0.34	37.86
Reach 1	56103	0p5_BU				1.51	314.90	452.81	455.04	454.68	455.07	0.001035	1.28	660.65	1276.27	0.33	36.31
Reach 1	56103	0p5-CC-LC_BU				1.72	440.90	452.81	455.25	454.80	455.28	0.000857	1.27	929.03	1384.61	0.31	29.36
Reach 1	54315	5_BU				1.45	240.10	449.60	451.73	451.23	451.91	0.002405	2.04	149.24	151.29	0.54	82.29
Reach 1	54315	1_BU				1.56	296.00	449.60	451.85	451.42	452.08	0.002828	2.28	169.94	189.14	0.58	80.99
Reach 1	54315	0p5_BU				1.60	314.90	449.60	451.89	451.48	452.13	0.002970	2.36	177.13	201.14	0.60	80.66
Reach 1	54315	0p5-CC-LC_BU				1.79	440.90	449.60	452.08	451.78	452.41	0.003875	2.83	223.56	333.53	0.68	77.50
Reach 1	53429	5_BU				1.05	240.10	446.75	449.04	448.76	449.17	0.004087	1.81	160.79	290.59	0.56	64.39
Reach 1	53429	1_BU				1.23	296.00	446.75	449.22	448.87	449.34	0.003287	1.78	219.19	358.12	0.51	60.40
Reach 1	53429	0p5_BU				1.28	314.90	446.75	449.27	448.91	449.39	0.003094	1.78	239.73	373.58	0.50	59.14
Reach 1	53429	0p5-CC-LC_BU				1.57	440.90	446.75	449.61	449.12	449.71	0.002282	1.71	378.63	448.34	0.44	51.57
Reach 1	52840	5_BU				1.89	240.10	445.50	448.33		448.40	0.000706	1.22	225.51	161.57	0.28	91.14
Reach 1	52840	1_BU				2.09	296.00	445.50	448.53		448.61	0.000743	1.34	258.72	170.72	0.30	89.43
Reach 1	52840	0p5_BU				2.15	314.90	445.50	448.59		448.67	0.000755	1.38	269.27	175.04	0.30	88.94
Reach 1	52840	0p5-CC-LC_BU				2.49	440.90	445.50	448.93		449.05	0.000850	1.61	332.21	197.46	0.33	86.24
Reach 1	52279	5_BU				1.55	240.10	445.07	447.57		447.74	0.002219	1.90	140.01	174.63	0.49	97.07
Reach 1	52279	1_BU				1.71	296.00	445.07	447.73		447.93	0.002266	2.05	171.53	236.34	0.50	93.97
Reach 1	52279	0p5_BU				1.76	314.90	445.07	447.78		447.99	0.002290	2.10	182.03	249.32	0.51	92.95
Reach 1	52279	0p5-CC-LC_BU				2.03	440.90	445.07	448.05		448.29	0.002398	2.36	259.18	435.16	0.53	86.14
Reach 1	50899	5_BU				1.15	290.80	441.51	444.17		444.28	0.002637	1.69	262.99	378.00	0.50	75.78
Reach 1	50899	1_BU				1.25	363.60	441.51	444.31		444.43	0.002606	1.77	317.75	413.08	0.51	71.67
Reach 1	50899	0p5_BU				1.29	389.40	441.51	444.35		444.47	0.002582	1.81	336.60	423.60	0.51	70.54
Reach 1	50899	0p5-CC-LC_BU				1.50	545.10	441.51	444.60		444.73	0.002497	1.97	452.29	539.39	0.51	65.49
Reach 1	50334	5_BU				1.02	290.80	440.40	442.61		442.73	0.002914	1.65	216.07	310.43	0.52	89.27
Reach 1	50334	1_BU				1.14	363.60	440.40	442.73		442.88	0.002951	1.79	257.36	333.37	0.53	87.44
Reach 1	50334	0p5_BU				1.18	389.40	440.40	442.77		442.93	0.002979	1.84	271.26	347.22	0.54	86.94
Reach 1	50334	0p5-CC-LC_BU				1.41	545.10	440.40	443.00		443.19	0.003073	2.10	356.59	431.66	0.56	84.15
Reach 1	49973	5_BU				0.95	290.80	439.55	441.75	441.29	441.84	0.002227	1.37	233.64	298.17	0.45	92.65
Reach 1	49973	1_BU				1.06	363.60	439.55	441.89	441.47	441.99	0.002209	1.47	275.80	315.71	0.46	91.24
Reach 1	49973	0p5_BU				1.11	389.40	439.55	441.93	441.50	442.04	0.002190	1.51	289.92	320.11	0.46	90.82
Reach 1	49973	0p5-CC-LC_BU				1.35	545.10	439.55	442.17	441.67	442.30	0.002137	1.70	371.89	372.72	0.47	88.82
Reach 1	49383	5_BU				1.08	290.80	437.54	440.17		440.29	0.002869	1.69	199.86	221.20	0.52	73.70
Reach 1	49383	1_BU				1.22	363.60	437.54	440.35		440.48	0.002705	1.78	241.99	244.73	0.51	72.61
Reach 1	49383	0p5_BU				1.25	389.40	437.54	440.41		440.55	0.002671	1.80	257.13	255.51	0.51	72.07
Reach 1	49383	0p5-CC-LC_BU				1.47	545.10	437.54	440.73		440.88	0.002472	1.92	355.69	365.82	0.51	69.86
Reach 1	49175	5_BU				1.05	290.80	437.30	439.65		439.78	0.001867	1.56	187.04	181.06	0.48	99.97
Reach 1	49175	1_BU				1.14	363.60	437.30	439.86		439.99	0.001806	1.61	226.96	208.03	0.48	99.86
Reach 1	49175	0p5_BU				1.17	389.40	437.30	439.93		440.06	0.001806	1.63	240.54	220.70	0.48	99.82
Reach 1	49175	0p5-CC-LC_BU				1.45	545.10	437.30	440.27		440.42	0.001764	1.74	324.90	263.71	0.46	99.05
Reach 1	49000	5_BU				1.18	290.80	436.74	439.25		439.40	0.002557	1.69	178.29	167.36	0.50	97.96
Reach 1	49000	1_BU				1.28	363.60	436.74	439.48		439.63	0.002432	1.75	219.88	196.73	0.49	97.18
Reach 1	49000	0p5_BU				1.33	389.40	436.74	439.55		439.70	0.002354	1.77	233.67	201.66	0.49	96.85
Reach 1	49000	0p5-CC-LC_BU				1.66	545.10	436.74	439.92		440.09	0.002001	1.89	315.20	239.18	0.47	95.08
Reach 1	48700	5_BU				1.35	290.80	435.90	438.75		438.85	0.001302	1.42	205.87	172.61	0.39	99.96
Reach 1	48700	1_BU				1.58	363.60	435.90	438.98		439.09	0.001309	1.51	241.68	181.33	0.38	99.84
Reach 1	48700	0p5_BU				1.65	389.40	435.90	439.05		439.17	0.001316	1.55	253.42	187.02	0.38	99.78
Reach 1	48700	0p5-CC-LC_BU				2.04	545.10	435.90	439.44		439.60	0.001365	1.74	320.13	249.20	0.39	99.16
Reach 1	48530	5_BU				1.59	290.80	435.46	438.32	437.75	438.54	0.002629	2.09	150.63	142.57	0.53	98.38
Reach 1	48530	1_BU				1.78	363.60	435.46	438.51	437.93	438.77	0.002700	2.28	180.97	168.63	0.55	96.73
Reach 1	48530	0p5_BU				1.85	389.40	435.46	438.58	437.99	438.85	0.002716	2.35	192.06	179.12	0.55	96.07
Reach 1	48530	0p5-CC-LC_BU				2.20	545.10	435.46	438.93	438.40	439.26	0.002704	2.63	266.40	241.42	0.57	91.85
Reach 1	48400	5_BU				1.46	290.80	435.59	438.01		438.20	0.002423	1.95	172.86	184.61	0.52	95.64
Reach 1	48400	1_BU				1.66	363.60	435.59	438.22		438.43	0.002378	2.10	213.74	214.62	0.52	93.57
Reach 1	48400	0p5_BU				1.73	389.40	435.59	438.29		438.50	0.002345	2.13	228.98	222.76	0.52	92.66
Reach 1	48400	0p5-CC-LC_BU				2.12	545.10	435.59	438.68		438.92	0.002109	2.30	327.11	289.27	0.50	87.41
Reach 1	48250	5_BU				1.37	290.80	435.03	437.51		437.76	0.003482	2.20	140.07	144.73	0.60	98.84
Reach 1	48250	1_BU				1.64	363.60	435.03	437.78		438.03	0.002897	2.25	181.47	171.22	0.56	96.52
Reach 1	48250	0p5_BU				1.73	389.40	435.03	437.87		438.12	0.002720	2.26	198.18	198.67	0.55	95.52
Reach 1	48250	0p5-CC-LC_BU				2.23	545.10	435.03	438.37		438.61	0.001971	2.28	312.05	249.54	0.49	88.82
Reach 1	48100	5_BU				1.61	290.80	434.27	437.19		437.36	0.001910	1.85	156.94	97.43	0.47	100.00
Reach 1	48100	1_BU				1.85	363.60	434.27	437.48		437.68	0.001763	1.95	186.56	100.80	0.46	100.00
Reach 1	48100	0p5_BU				1.93	389.40	434.27	437.58		437.78	0.001735	1.98	196.44	101.88	0.46	100.00
Reach 1	48100	0p5-CC-LC_BU				2.36	545.10	434.27	438.10		438.34	0.001592	2.17	250.81	107.83	0.45	99.99
Reach 1	48010	5_BU				1.94	290.80	433.89	436.99		437.19	0.001805	1.98	147.16	75.94	0.45	100.00
Reach 1	48010	1_BU				2.11	363.60	433.89	437.27		437.51	0.001956	2.15	168.83	79.84	0.47	100.00
Reach 1	48010	0p5_BU				2.19	389.40	433.89	437.36		437.61	0.001990	2.21	176.10	80.43	0.48	100.00
Reach 1	48010	0p5-CC-LC_BU				2.60	545.10	433.89	437.84		438.17	0.002150	2.53	215.66	83.57	0.50	100.00
Reach 1	47901	5_BU				2.30	290.80	433.20	436.85		437.02	0.001211	1.82	160.01	70.67	0.38	99.98
Reach 1	47901	1_BU				2.56	363.60	433.20	437.11		437.32	0.001325	2.04	178.42	71.58	0.41	99.93
Reach 1	47901	0p5_BU				2.64	389.40	433.20	437.20		437.42	0.001362	2.12	184.49	71.88	0.42	99.91
Reach 1	47901	0p5-CC-LC_BU				3.08	545.10	433.20	437.64		437.97	0.001583	2.53	216.81	73.45	0.46	99.72
Reach 1	47790	5_BU				2.18	290.80	433.56	436.76		436.88	0.001084	1.58	184.27	84.47	0.34	100.00
Reach 1	47790	1_BU				2.40	363.60	433.56	437.01		437.17	0.001214	1.77	205.87	85.91	0.36	100.00
Reach 1	47790	0p5_BU				2.47	389.40	433.56	437.09		437.26	0.001259	1.83	213.03	86.41	0.37	100.00
Reach 1	47790	0p5-CC-LC_BU				2.85	545.10	433.56	437.53		437.77	0.001494	2.17	251.40	88.35	0.41	100.00
Reach 1	47700	5_BU				1.92	290.80	433.03	436.61	435.48	436.77	0.001328	1.76	165.54	86.19	0.40	100.00
Reach 1	47700	1_BU				2.11	363.60	433.03	436.85	435.72	437.05	0.001455	1.95	186.14	88.07	0.43	100.00
Reach 1	47700	0p5_BU				2.18	389.40	433.03	436.93	435.81	437.14	0.001492	2.02	192.98	88.50	0.44	100.00
Reach 1	47700	0p5-CC-LC_BU				2.53	545.10	433.03	437.33	436.23	437.62	0.001722	2.38	229.29	90.52	0.48	100.00
Reach 1	47550	5_BU				1.58	290.80	433.60	436.34	435.62	436.52	0.002061	1.91	152.11	96.52	0.49	100.00
Reach 1	47550	1_BU				1.72	363.60	433.60	436.56	435.82	436.78	0.002155	2.09	173.91	100.94	0.51	100.00
Reach 1	47550	0p5_BU				1.77	389.40	433.60	436.63	435.88	436.86	0.002193	2.15	181.26	102.69	0.52	100.00
Reach 1	47550	0p5-CC-LC_BU				2.09	545.10	433.60	437.02	436.23	437.32	0.002326	2.45	223.79	114.98	0.54	99.91
Reach 1	47390	5_BU				1.63	290.80	434.08	436.11		436.23	0.001427	1.59	183.42	114.36	0.40	99.99
Reach 1	47390	1_BU				1.81	363.60	434.08	436.31		436.47	0.001529	1.76	207.47	116.78	0.42	99.96

HEC-RAS Plan: KR_Jam_17574 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	47390	0p5_BU				1.88	389.40	434.08	436.38		436.55	0.001561	1.81	215.49	117.95	0.42	99.95
Reach 1	47390	0p5-CC-LC_BU				2.24	545.10	434.08	436.75		436.98	0.001728	2.12	262.25	146.18	0.45	99.77
Reach 1	47300	5_BU				1.43	290.80	433.73	435.91		436.04	0.003485	1.62	179.96	125.61	0.43	100.00
Reach 1	47300	1_BU				1.63	363.60	433.73	436.11		436.27	0.003540	1.77	205.35	126.98	0.44	100.00
Reach 1	47300	0p5_BU				1.70	389.40	433.73	436.18		436.35	0.003556	1.82	213.76	127.58	0.45	99.99
Reach 1	47300	0p5-CC-LC_BU				2.05	545.10	433.73	436.53		436.76	0.003671	2.10	262.15	152.05	0.47	99.82
Reach 1	47150	5_BU				1.40	290.80	433.25	435.27		435.51	0.003443	2.23	149.59	144.87	0.60	94.89
Reach 1	47150	1_BU				1.61	363.60	433.25	435.48		435.75	0.003273	2.38	181.09	159.22	0.60	93.06
Reach 1	47150	0p5_BU				1.68	389.40	433.25	435.55		435.82	0.003222	2.43	192.33	165.15	0.60	92.45
Reach 1	47150	0p5-CC-LC_BU				2.05	545.10	433.25	435.91		436.25	0.003043	2.69	254.56	171.80	0.60	89.19
Reach 1	47000	5_BU				1.44	290.80	432.80	434.82		435.03	0.002826	2.04	149.81	122.95	0.54	98.23
Reach 1	47000	1_BU				1.64	363.60	432.80	435.05		435.29	0.002727	2.19	180.18	148.20	0.55	97.62
Reach 1	47000	0p5_BU				1.70	389.40	432.80	435.12		435.37	0.002716	2.24	191.08	153.99	0.55	97.29
Reach 1	47000	0p5-CC-LC_BU				2.07	545.10	432.80	435.52		435.82	0.002545	2.46	261.54	207.74	0.55	94.50
Reach 1	46850	5_BU				1.56	290.80	432.38	434.53		434.68	0.001816	1.75	174.99	123.07	0.45	97.58
Reach 1	46850	1_BU				1.78	363.60	432.38	434.77		434.94	0.001776	1.88	207.02	144.02	0.45	96.91
Reach 1	46850	0p5_BU				1.85	389.40	432.38	434.84		435.03	0.001767	1.93	218.18	151.02	0.45	96.64
Reach 1	46850	0p5-CC-LC_BU				2.27	545.10	432.38	435.26		435.49	0.001717	2.16	285.75	186.50	0.46	94.81
Reach 1	46700	5_BU				1.60	290.80	431.90	434.11	433.60	434.34	0.002740	2.15	147.10	175.94	0.54	96.00
Reach 1	46700	1_BU				1.77	363.60	431.90	434.34	433.77	434.60	0.002809	2.35	172.41	193.28	0.56	95.38
Reach 1	46700	0p5_BU				1.83	389.40	431.90	434.41	433.84	434.69	0.002806	2.41	181.30	199.81	0.57	95.03
Reach 1	46700	0p5-CC-LC_BU				2.23	545.10	431.90	434.80	434.14	435.15	0.002759	2.71	237.42	254.43	0.58	92.86
Reach 1	46513	5_BU				1.49	290.80	431.49	433.78	433.15	433.97	0.002342	1.91	154.98	120.66	0.50	99.67
Reach 1	46513	1_BU				1.67	363.60	431.49	434.00	433.33	434.22	0.002396	2.06	186.00	172.97	0.51	98.93
Reach 1	46513	0p5_BU				1.73	389.40	431.49	434.08	433.39	434.30	0.002390	2.11	198.88	186.15	0.51	98.50
Reach 1	46513	0p5-CC-LC_BU				2.09	545.10	431.49	434.52	433.73	434.77	0.002211	2.25	283.52	260.90	0.50	95.03
Reach 1	46503		Bridge														
Reach 1	46441	5_BU				1.62	290.80	431.25	433.57		433.76	0.002123	1.92	152.77	112.65	0.48	99.91
Reach 1	46441	1_BU				1.80	363.60	431.25	433.76		433.99	0.002298	2.14	176.62	141.74	0.51	99.31
Reach 1	46441	0p5_BU				1.86	389.40	431.25	433.82		434.07	0.002333	2.20	185.89	152.34	0.52	98.96
Reach 1	46441	0p5-CC-LC_BU				2.23	545.10	431.25	434.19		434.50	0.002366	2.50	251.16	236.92	0.53	95.98
Reach 1	46352	5_BU				1.16	290.80	430.67	432.98		433.26	0.005055	2.36	125.55	123.56	0.70	99.72
Reach 1	46352	1_BU				1.41	363.60	430.67	433.24		433.53	0.004007	2.38	159.15	131.58	0.64	98.94
Reach 1	46352	0p5_BU				1.49	389.40	430.67	433.33		433.61	0.003769	2.40	170.51	134.16	0.63	98.63
Reach 1	46352	0p5-CC-LC_BU				1.94	545.10	430.67	433.79		434.10	0.002896	2.51	238.20	154.35	0.57	96.94
Reach 1	46300	5_BU				1.70	290.80	430.65	432.93		433.08	0.001583	1.71	171.70	119.01	0.42	99.96
Reach 1	46300	1_BU				1.95	363.60	430.65	433.20		433.37	0.001518	1.83	206.94	140.81	0.42	99.34
Reach 1	46300	0p5_BU				2.04	389.40	430.65	433.29		433.46	0.001499	1.87	219.22	142.63	0.42	99.01
Reach 1	46300	0p5-CC-LC_BU				2.49	545.10	430.65	433.75		433.97	0.001428	2.09	287.14	149.14	0.42	97.10
Reach 1	46250	5_BU				1.74	290.80	430.61	432.83		433.00	0.001752	1.82	162.34	105.55	0.44	99.46
Reach 1	46250	1_BU				1.96	363.60	430.61	433.09		433.29	0.001720	1.96	191.40	114.61	0.45	98.65
Reach 1	46250	0p5_BU				2.04	389.40	430.61	433.18		433.38	0.001708	2.00	201.68	122.56	0.45	98.27
Reach 1	46250	0p5-CC-LC_BU				2.51	545.10	430.61	433.65		433.89	0.001595	2.22	261.33	132.53	0.45	95.76
Reach 1	46200	5_BU				1.66	290.80	430.41	432.71		432.90	0.002058	1.92	151.52	91.32	0.48	100.00
Reach 1	46200	1_BU				1.87	363.60	430.41	432.97		433.19	0.002034	2.07	176.33	98.68	0.48	99.95
Reach 1	46200	0p5_BU				1.96	389.40	430.41	433.06		433.29	0.002013	2.12	184.72	100.57	0.48	99.91
Reach 1	46200	0p5-CC-LC_BU				2.41	545.10	430.41	433.51		433.80	0.001946	2.39	235.66	123.76	0.49	99.29
Reach 1	46150	5_BU				1.92	290.80	430.24	432.65		432.81	0.001435	1.74	167.12	89.21	0.40	100.00
Reach 1	46150	1_BU				2.14	363.60	430.24	432.91		433.10	0.001548	1.92	190.29	92.40	0.42	99.95
Reach 1	46150	0p5_BU				2.22	389.40	430.24	432.99		433.19	0.001576	1.98	197.99	93.26	0.42	99.92
Reach 1	46150	0p5-CC-LC_BU				2.62	545.10	430.24	433.44		433.70	0.001723	2.29	242.39	116.91	0.45	99.66
Reach 1	46100	5_BU				1.91	290.80	430.02	432.55		432.73	0.001621	1.87	157.14	85.31	0.43	99.80
Reach 1	46100	1_BU				2.13	363.60	430.02	432.79		433.01	0.001711	2.07	177.99	87.33	0.45	99.69
Reach 1	46100	0p5_BU				2.21	389.40	430.02	432.87		433.10	0.001743	2.13	184.96	93.22	0.46	99.65
Reach 1	46100	0p5-CC-LC_BU				2.64	545.10	430.02	433.30		433.61	0.001859	2.48	239.16	152.57	0.49	98.73
Reach 1	46050	5_BU				1.54	290.80	429.81	432.31		432.60	0.003475	2.38	122.09	81.49	0.61	99.99
Reach 1	46050	1_BU				1.71	363.60	429.81	432.54		432.88	0.003482	2.60	140.55	87.79	0.63	99.92
Reach 1	46050	0p5_BU				1.78	389.40	429.81	432.61		432.97	0.003491	2.67	147.05	91.22	0.64	99.88
Reach 1	46050	0p5-CC-LC_BU				2.14	545.10	429.81	433.01		433.47	0.003473	3.02	190.52	130.22	0.66	99.14
Reach 1	46000	5_BU				1.68	290.80	429.73	432.16		432.44	0.002966	2.33	124.90	74.15	0.57	100.00
Reach 1	46000	1_BU				1.84	363.60	429.73	432.37		432.71	0.003250	2.59	140.85	82.12	0.61	99.99
Reach 1	46000	0p5_BU				1.87	389.40	429.73	432.44		432.80	0.003310	2.67	146.60	88.32	0.62	99.96
Reach 1	46000	0p5-CC-LC_BU				2.22	545.10	429.73	432.81		433.29	0.003592	3.10	184.94	118.94	0.66	99.27
Reach 1	45950	5_BU				1.55	290.80	429.64	432.02		432.28	0.003117	2.26	128.54	82.74	0.58	100.00
Reach 1	45950	1_BU				1.64	363.60	429.64	432.22		432.54	0.003252	2.49	145.75	88.90	0.62	100.00
Reach 1	45950	0p5_BU				1.65	389.40	429.64	432.29		432.63	0.003282	2.56	152.02	91.87	0.64	100.00
Reach 1	45950	0p5-CC-LC_BU				1.60	545.10	429.64	432.68		433.10	0.003370	2.85	192.07	124.34	0.72	99.93
Reach 1	45850	5_BU				1.50	290.80	429.47	431.81		431.99	0.002311	1.90	153.96	111.86	0.50	99.95
Reach 1	45850	1_BU				1.69	363.60	429.47	432.02		432.24	0.002353	2.08	177.77	114.68	0.51	99.74
Reach 1	45850	0p5_BU				1.75	389.40	429.47	432.09		432.32	0.002360	2.13	186.04	116.16	0.51	99.65
Reach 1	45850	0p5-CC-LC_BU				1.99	545.10	429.47	432.49		432.78	0.002380	2.40	235.92	142.88	0.54	99.02
Reach 1	45750	5_BU				1.30	290.80	429.31	431.53		431.73	0.002962	1.96	148.56	114.20	0.55	100.00
Reach 1	45750	1_BU				1.50	363.60	429.31	431.76		431.98	0.002758	2.08	174.90	118.27	0.54	99.99
Reach 1	45750	0p5_BU				1.57	389.40	429.31	431.84		432.07	0.002700	2.12	184.04	120.04	0.54	99.98
Reach 1	45750	0p5-CC-LC_BU				1.94	545.10	429.31	432.25		432.53	0.002553	2.34	235.28	128.54	0.54	99.81
Reach 1	45600	5_BU				1.58	290.80	429.06	431.22		431.38	0.001809	1.75	166.35	105.02	0.44	100.00
Reach 1	45600	1_BU				1.79	363.60	429.06	431.45		431.64	0.001821	1.90	191.18	106.84	0.45	100.00
Reach 1	45600	0p5_BU				1.86	389.40	429.06	431.53		431.73	0.001823	1.95	199.63	107.45	0.46	100.00
Reach 1	45600	0p5-CC-LC_BU				2.18	545.10	429.06	431.93		432.19	0.001938	2.24	244.75	126.33	0.48	99.96
Reach 1	45400	5_BU				1.61	290.80	428.84	430.87		431.02	0.001698	1.71	170.86	115.10	0.43	99.90
Reach 1	45400	1_BU				1.83	363.60	428.84	431.11		431.28	0.001712	1.87	199.12	127.95	0.44	99.65
Reach 1	45400	0p5_BU				1.90	389.40	428.84	431.19		431.37	0.001700	1.91	209.63	132.14	0.44	99.49
Reach 1	45400	0p5-CC-LC_BU				2.26	545.10	428.84	431.57		431.81	0.001794	2.20	266.80	189.94	0.47	98.44
Reach 1	45200	5_BU				1.43	290.80	428.38	430.32		430.56	0.003209	2.18	135.45	102.76	0.58	99.76
Reach 1	45200	1_BU				1.61	363.60	428.38	430.54		430.82	0.003161	2.34	160.71	124.93	0.59	99.35
Reach 1	45200	0p5_BU				1.64	389.40	428.38	430.62		430.91	0.003214	2.38	170.77	134.50	0.59	99.19
Reach 1	45200	0p5-CC-LC_BU				1.96	545.10	428.38	430.99		431.34	0.003119	2.65	237.52	239.32	0.60	97.07
Reach 1	44985	5_BU				1.65	290.80	426.86	429.87		430.03	0.001765	1.77	165.94	114.91	0.44	99.87
Reach 1	44985	1_BU				1.88	363.60	426.86	430.10		430.29	0.001774	1.93	195.49	146.29	0.45	99.38
Reach 1	44985	0p5_BU				1.96	389.40	426.86	430.18		430.38	0.001781	1.99	206.80	162.46	0.45	99.07
Reach 1	44985	0p5-CC-LC_BU				2.34	545.10	426.86	430.56		430.81	0.001812	2.26	286.27	262.27	0.47	96.09
Reach 1	43733	5_BU				1.24	290.80	424.63	427.09		427.26	0.002842	1.85	167.20	154.71	0.53	91.67
Reach 1	43733	1_BU				1.33	363.60	424.63	427.24		427.44	0.002997	2.04	192.56	183.99	0.57	91.08
Reach 1	43733	0p5_BU				1.38	389.40	424.63	427.29		427.50	0.003027	2.10	202.47	195.79	0.57	90.86
Reach 1	43733	0p5-CC-LC_BU				1.64	545.10	424.63	427.56		427.82	0.003218	2.40	261.79	257.03	0.60	88.39
Reach 1	42697	5_BU				1.45	290.80	421.83	425.04	424.42	425.14	0.001612	1.54	289.57	457.65	0.41	77.28
Reach 1	42697	1_BU				1.58	363.60	421.83	425.17	424.76	425.27	0.001628	1.64	352.98	510.00	0.42	71.77

HEC-RAS Plan: KR_Jam_17574 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	42697	0p5_BU				1.62	389.40	421.83	425.21	424.81	425.32	0.001648	1.68	373.47	523.07	0.42	70.25
Reach 1	42697	0p5-CC-LC_BU				1.83	545.10	421.83	425.42	425.03	425.54	0.001731	1.86	487.42	580.10	0.44	62.80
Reach 1	41323	5_BU				0.87	290.80	419.47	421.45		421.64	0.004579	1.95	149.51	170.95	0.66	100.00
Reach 1	41323	1_BU				0.94	363.60	419.47	421.63		421.83	0.004330	1.99	183.53	214.64	0.65	99.96
Reach 1	41323	0p5_BU				0.98	389.40	419.47	421.69		421.90	0.004169	1.99	198.57	264.10	0.64	99.83
Reach 1	41323	0p5-CC-LC_BU				1.08	545.10	419.47	422.01		422.20	0.003660	1.98	308.47	435.93	0.61	95.73
Reach 1	40285	5_BU				1.48	290.80	416.85	419.58		419.62	0.001019	1.23	364.00	463.45	0.32	42.98
Reach 1	40285	1_BU				1.61	363.60	416.85	419.71		419.77	0.001082	1.35	436.90	572.89	0.34	41.14
Reach 1	40285	0p5_BU				1.66	389.40	416.85	419.76		419.81	0.001117	1.40	463.34	605.72	0.35	40.85
Reach 1	40285	0p5-CC-LC_BU				1.86	545.10	416.85	419.96		420.02	0.001281	1.61	590.93	671.87	0.38	37.73
Reach 1	39051	5_BU				0.78	290.80	414.48	417.40		417.47	0.005561	1.25	271.84	600.83	0.45	81.24
Reach 1	39051	1_BU				0.81	363.60	414.48	417.53		417.59	0.005291	1.21	362.97	757.27	0.43	74.59
Reach 1	39051	0p5_BU				0.84	389.40	414.48	417.57		417.63	0.005082	1.21	390.87	792.72	0.42	72.93
Reach 1	39051	0p5-CC-LC_BU				1.01	545.10	414.48	417.76		417.82	0.004222	1.24	561.04	981.88	0.39	65.70
Reach 1	38622	5_BU				0.85	290.80	413.89	416.80		416.82	0.000728	0.71	516.75	959.14	0.25	85.48
Reach 1	38622	1_BU				0.96	363.60	413.89	416.92		416.95	0.000767	0.75	634.79	1138.44	0.24	82.78
Reach 1	38622	0p5_BU				0.99	389.40	413.89	416.96		416.99	0.000780	0.76	674.47	1183.00	0.24	81.85
Reach 1	38622	0p5-CC-LC_BU				1.18	545.10	413.89	417.15		417.18	0.000881	0.85	880.71	1364.67	0.25	77.47
Reach 1	38155	5_BU				1.50	290.80	413.94	415.97	415.74	416.22	0.003668	2.39	195.91	409.83	0.62	85.16
Reach 1	38155	1_BU				1.70	363.60	413.94	416.18	416.00	416.40	0.003031	2.35	297.89	589.59	0.58	76.21
Reach 1	38155	0p5_BU				1.76	389.40	413.94	416.25	416.06	416.45	0.002842	2.33	339.06	658.08	0.56	73.34
Reach 1	38155	0p5-CC-LC_BU				2.07	545.10	413.94	416.57		416.72	0.002045	2.20	577.66	923.21	0.49	58.56
Reach 1	37333	5_BU				1.97	290.80	411.14	413.98		414.18	0.001838	2.03	162.39	147.21	0.46	97.40
Reach 1	37333	1_BU				2.14	363.60	411.14	414.16		414.41	0.002097	2.29	193.70	206.09	0.50	95.78
Reach 1	37333	0p5_BU				2.19	389.40	411.14	414.21		414.48	0.002200	2.38	204.03	216.08	0.51	95.12
Reach 1	37333	0p5-CC-LC_BU				2.42	545.10	411.14	414.43	413.86	414.83	0.002893	2.91	260.90	288.77	0.60	91.88
Reach 1	36316	5_BU				1.61	290.80	409.47	411.96	411.57	412.13	0.002447	2.05	234.55	523.28	0.52	79.39
Reach 1	36316	1_BU				1.70	363.60	409.47	412.13	411.80	412.29	0.002335	2.07	339.93	712.35	0.51	71.16
Reach 1	36316	0p5_BU				1.74	389.40	409.47	412.17		412.33	0.002298	2.09	371.42	742.01	0.51	68.69
Reach 1	36316	0p5-CC-LC_BU				1.96	545.10	409.47	412.41		412.55	0.002050	2.14	565.26	901.25	0.49	57.14
Reach 1	34806	5_BU				1.37	290.80	406.69	408.63		408.76	0.002135	1.72	201.64	182.57	0.47	89.52
Reach 1	34806	1_BU				1.54	363.60	406.69	408.81		408.97	0.002203	1.89	235.91	195.52	0.49	89.16
Reach 1	34806	0p5_BU				1.60	389.40	406.69	408.86		409.04	0.002219	1.94	247.23	198.71	0.49	88.67
Reach 1	34806	0p5-CC-LC_BU				1.88	545.10	406.69	409.18		409.40	0.002331	2.21	311.80	218.53	0.51	86.43
Reach 1	33067	5_BU				1.28	290.80	401.87	404.17	403.67	404.37	0.003085	1.98	147.41	118.96	0.56	99.97
Reach 1	33067	1_BU				1.48	363.60	401.87	404.38	403.86	404.61	0.002932	2.12	173.19	130.78	0.56	99.85
Reach 1	33067	0p5_BU				1.54	389.40	401.87	404.45	403.92	404.69	0.002891	2.17	182.11	155.91	0.56	99.77
Reach 1	33067	0p5-CC-LC_BU				1.92	545.10	401.87	404.83	404.22	405.12	0.002649	2.40	247.57	382.55	0.55	98.64
Reach 1	32800	5_BU				1.52	290.80	401.32	403.49	402.90	403.67	0.002219	1.88	154.88	239.36	0.49	100.00
Reach 1	32800	1_BU				1.73	363.60	401.32	403.71	403.06	403.93	0.002225	2.05	177.45	273.89	0.50	100.00
Reach 1	32800	0p5_BU				1.80	389.40	401.32	403.78	403.11	404.01	0.002229	2.11	184.83	289.60	0.50	100.00
Reach 1	32800	0p5-CC-LC_BU				2.18	545.10	401.32	404.17	403.40	404.47	0.002279	2.43	228.17	557.20	0.52	99.82
Reach 1	32550	5_BU				1.26	290.80	400.66	402.50	402.23	402.84	0.005302	2.57	113.98	152.21	0.73	99.84
Reach 1	32550	1_BU				1.36	363.60	400.66	402.66	402.43	403.07	0.005589	2.84	129.57	179.81	0.78	99.59
Reach 1	32550	0p5_BU				1.39	389.40	400.66	402.71	402.50	403.15	0.005678	2.93	135.02	192.11	0.79	99.49
Reach 1	32550	0p5-CC-LC_BU				1.64	545.10	400.66	402.99	402.85	403.56	0.006127	3.38	167.97	300.80	0.84	98.50
Reach 1	32400	5_BU				1.58	290.80	400.20	402.24	401.71	402.35	0.001660	1.67	221.26	182.99	0.42	66.96
Reach 1	32400	1_BU				1.76	363.60	400.20	402.43	401.83	402.55	0.001686	1.80	255.26	184.97	0.43	64.53
Reach 1	32400	0p5_BU				1.81	389.40	400.20	402.49	401.87	402.62	0.001697	1.85	266.47	185.95	0.44	63.85
Reach 1	32400	0p5-CC-LC_BU				2.12	545.10	400.20	402.81	402.10	402.98	0.001778	2.09	329.62	216.26	0.46	60.88
Reach 1	32250	5_BU				1.31	290.80	399.61	401.80	401.40	402.00	0.003433	2.12	161.25	163.77	0.59	80.23
Reach 1	32250	1_BU				1.46	363.60	399.61	401.98	401.54	402.20	0.003435	2.27	188.69	178.62	0.60	77.91
Reach 1	32250	0p5_BU				1.51	389.40	399.61	402.03	401.59	402.26	0.003452	2.32	198.09	186.55	0.60	77.22
Reach 1	32250	0p5-CC-LC_BU				1.78	545.10	399.61	402.33	401.92	402.61	0.003472	2.57	259.95	255.12	0.61	73.41
Reach 1	32150	5_BU				1.19	290.80	399.22	401.47	401.05	401.64	0.003328	1.96	169.41	184.02	0.57	84.50
Reach 1	32150	1_BU				1.37	363.60	399.22	401.67	401.23	401.85	0.003003	2.05	208.48	212.22	0.56	82.47
Reach 1	32150	0p5_BU				1.44	389.40	399.22	401.73	401.34	401.92	0.002895	2.07	222.40	219.43	0.55	81.55
Reach 1	32150	0p5-CC-LC_BU				1.78	545.10	399.22	402.08	401.60	402.28	0.002452	2.20	308.93	296.86	0.53	76.75
Reach 1	32000	5_BU				1.68	290.80	398.64	400.98	400.53	401.20	0.002630	2.18	159.88	147.63	0.54	87.02
Reach 1	32000	1_BU				1.88	363.60	398.64	401.20	400.72	401.44	0.002538	2.32	194.64	179.98	0.54	83.51
Reach 1	32000	0p5_BU				1.95	389.40	398.64	401.27	400.81	401.52	0.002515	2.36	207.77	195.12	0.54	82.39
Reach 1	32000	0p5-CC-LC_BU				2.32	545.10	398.64	401.66	401.12	401.92	0.002344	2.56	305.75	296.10	0.54	76.30
Reach 1	31850	5_BU				1.59	290.80	398.07	400.43	400.12	400.73	0.003690	2.50	133.22	122.53	0.63	91.60
Reach 1	31850	1_BU				1.72	363.60	398.07	400.59	400.31	400.95	0.004174	2.79	153.89	150.35	0.68	89.63
Reach 1	31850	0p5_BU				1.76	389.40	398.07	400.63	400.38	401.02	0.004321	2.88	161.30	154.87	0.70	88.88
Reach 1	31850	0p5-CC-LC_BU				1.95	545.10	398.07	400.88	400.77	401.39	0.005217	3.40	205.77	217.32	0.78	85.48
Reach 1	31700	5_BU				1.39	290.80	397.52	400.25	399.45	400.34	0.001320	1.37	246.24	267.26	0.37	86.74
Reach 1	31700	1_BU				1.51	363.60	397.52	400.40	399.59	400.51	0.001421	1.52	286.73	308.82	0.39	85.15
Reach 1	31700	0p5_BU				1.55	389.40	397.52	400.45	399.64	400.56	0.001462	1.57	299.96	320.41	0.40	84.69
Reach 1	31700	0p5-CC-LC_BU				1.77	545.10	397.52	400.69	399.93	400.84	0.001682	1.83	374.94	391.65	0.44	81.88
Reach 1	31597	5_BU				0.92	290.80	397.42	400.05	399.59	400.14	0.002506	1.42	235.52	326.55	0.47	74.31
Reach 1	31597	1_BU				1.01	363.60	397.42	400.21	399.70	400.30	0.002423	1.49	289.03	379.21	0.47	72.89
Reach 1	31597	0p5_BU				1.04	389.40	397.42	400.25	399.72	400.35	0.002396	1.51	307.26	399.15	0.47	72.44
Reach 1	31597	0p5-CC-LC_BU				1.25	545.10	397.42	400.49	399.95	400.60	0.002349	1.69	408.41	450.78	0.48	71.28
Reach 1	31500	5_BU				0.78	290.80	398.07	399.86	399.39	399.96	0.002083	1.17	233.01	292.38	0.42	28.63
Reach 1	31500	1_BU				0.88	363.60	398.07	400.00	399.53	400.12	0.002171	1.29	279.31	339.48	0.44	30.07
Reach 1	31500	0p5_BU				0.92	389.40	398.07	400.05	399.58	400.17	0.002194	1.34	295.18	354.10	0.45	30.67
Reach 1	31500	0p5-CC-LC_BU				1.15	545.10	398.07	400.29	399.81	400.42	0.002254	1.57	388.19	427.14	0.47	32.57
Reach 1	31400	5_BU				0.76	290.80	397.82	399.63	399.31	399.78	0.003235	1.39	208.92	300.13	0.51	34.05
Reach 1	31400	1_BU				0.90	363.60	397.82	399.78	399.50	399.93	0.003148	1.49	257.27	350.22	0.50	35.24
Reach 1	31400	0p5_BU				0.94	389.40	397.82	399.83	399.54	399.98	0.003156	1.53	273.08	363.11	0.50	35.42
Reach 1	31400	0p5-CC-LC_BU				1.15	545.10	397.82	400.06	399.75	400.22	0.003275	1.77	368.15	496.94	0.53	36.56
Reach 1	31350	5_BU				0.86	290.80	397.71	399.57	399.10	399.67	0.002272	1.30	241.31	292.39	0.45	39.11
Reach 1	31350	1_BU				0.98	363.60	397.71	399.72	399.25	399.83	0.002271	1.42	286.82	341.85	0.46	40.16
Reach 1	31350	0p5_BU				1.02	389.40	397.71	399.76	399.29	399.87	0.002302	1.47	301.60	360.14	0.46	40.47
Reach 1	31350	0p5-CC-LC_BU				1.23	545.10	397.71	399.98	399.51	400.12	0.002510	1.73	396.98	539.59	0.50	41.54
Reach 1	31300	5_BU				0.80	290.80	397.60	399.41	399.11	399.56	0.003833	1.62	201.57	281.10	0.58	39.00
Reach 1	31300	1_BU				0.81	363.60	397.60	399.56	399.28	399.72	0.003778	1.62	249.77	353.38	0.57	37.78
Reach 1	31300	0p5_BU				0.85	389.40	397.60	399.61	399.32	399.77	0.003707	1.65	266.05	369.11	0.57	38.09
Reach 1	31300	0p5-CC-LC_BU				1.05	545.10	397.60	399.84	399.57	400.01	0.003519	1.86	365.81	526.64	0.58	39.01
Reach 1	31250	5_BU				0.89	290.80	397.53	399.33	398.88	399.43	0.002294	1.36	245.07	340.96	0.46	44.27
Reach 1	31250	1_BU				0.94	363.60	397.53	399.49	399.00	399.59	0.002229	1.41	307.79	460.73	0.46	43.53
Reach 1	31250	0p5_BU				0.98	389.40	397.53	399.54	399.04	399.64	0.002205	1.43	330.34	489.06	0.46	43.50
Reach 1	31250	0p5-CC-LC_BU				1.22	545.10	397.53	399.78	399.30	399.88	0.002139	1.58	465.87	629.21	0.46	42.77
Reach 1	31200	5_BU				1.33	290.80	397.38	399.24	398.63	399.33	0.001518	1.47	254.08	325.28	0.41	56.44
Reach 1	31200	1_BU				1.44	363.60	397.38	399.39	398.78	399.49	0.001553	1.58	310.79	424.91	0.42	54.11
Reach 1	31200	0p5_BU				1.48	389.40	397.38	399.43	398.82	399.54	0.001583	1.62	330.42	458.85	0.42	53.45
Reach 1	31200	0p5-CC-LC_BU				1.70	545.10	397.38	399.66	399.06	399.78	0.001726	1.82	450.87	616.40	0.45	49.44

HEC-RAS Plan: KR_Jam_17574 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	31150	5_BU				1.04	290.80	397.22	399.14	398.64	399.21	0.001741	1.33	257.24	326.91	0.42	52.41
Reach 1	31150	1_BU				1.15	363.60	397.22	399.30	398.77	399.38	0.001641	1.39	321.59	483.50	0.42	50.88
Reach 1	31150	0p5_BU				1.18	389.40	397.22	399.34	398.80	399.42	0.001641	1.42	344.27	532.59	0.42	50.42
Reach 1	31150	0p5-CC-LC_BU				1.40	545.10	397.22	399.56	398.97	399.65	0.001672	1.58	476.07	652.08	0.43	47.47
Reach 1	31100	5_BU				0.99	290.80	397.05	398.70	398.44	398.89	0.004251	1.95	166.74	233.61	0.63	40.59
Reach 1	31100	1_BU				1.06	363.60	397.05	398.85	398.58	399.05	0.004369	2.07	210.37	341.55	0.64	39.98
Reach 1	31100	0p5_BU				1.08	389.40	397.05	398.90	398.64	399.10	0.004300	2.09	228.54	385.70	0.64	39.39
Reach 1	31100	0p5-CC-LC_BU				1.22	545.10	397.05	399.15	398.97	399.33	0.004043	2.20	344.36	565.57	0.63	36.81
Reach 1	31050	5_BU				0.97	290.80	396.94	398.59	398.23	398.71	0.003218	1.68	210.21	326.75	0.54	34.84
Reach 1	31050	1_BU				1.02	363.60	396.94	398.77	398.38	398.88	0.002926	1.70	276.50	455.86	0.54	33.42
Reach 1	31050	0p5_BU				1.03	389.40	396.94	398.82	398.43	398.93	0.002839	1.69	302.51	494.89	0.53	32.78
Reach 1	31050	0p5-CC-LC_BU				1.20	545.10	396.94	399.08	398.66	399.18	0.002458	1.75	448.04	624.49	0.51	30.76
Reach 1	31011	5_BU				1.05	290.80	396.85	398.45	397.94	398.53	0.002083	1.42	228.66	256.32	0.44	31.12
Reach 1	31011	1_BU				1.11	363.60	396.85	398.62	398.07	398.71	0.002190	1.52	278.90	338.29	0.46	31.04
Reach 1	31011	0p5_BU				1.13	389.40	396.85	398.67	398.10	398.76	0.002193	1.54	297.78	362.23	0.46	30.82
Reach 1	31011	0p5-CC-LC_BU				1.33	545.10	396.85	398.93	398.30	399.03	0.002015	1.64	406.26	484.58	0.45	29.22
Reach 1	30950	5_BU				0.97	290.80	396.52	398.25	397.77	398.33	0.001794	1.26	231.49	266.14	0.41	38.07
Reach 1	30950	1_BU				1.12	363.60	396.52	398.41	397.87	398.50	0.001755	1.36	278.52	309.57	0.41	38.62
Reach 1	30950	0p5_BU				1.16	389.40	396.52	398.46	397.91	398.56	0.001774	1.41	295.17	327.39	0.42	38.94
Reach 1	30950	0p5-CC-LC_BU				1.39	545.10	396.52	398.72	398.09	398.83	0.001880	1.63	390.43	406.78	0.44	39.58
Reach 1	30850	5_BU				0.79	290.80	395.91	398.09	397.56	398.16	0.002221	1.21	243.81	299.81	0.44	83.68
Reach 1	30850	1_BU				0.85	363.60	395.91	398.27	397.67	398.34	0.002048	1.22	301.50	348.46	0.42	84.05
Reach 1	30850	0p5_BU				0.88	389.40	395.91	398.32	397.71	398.39	0.001994	1.24	320.52	360.29	0.42	84.26
Reach 1	30850	0p5-CC-LC_BU				1.06	545.10	395.91	398.58	397.92	398.67	0.001840	1.34	427.59	445.43	0.42	86.28
Reach 1	30750	5_BU				0.90	290.80	395.77	397.74	397.37	397.90	0.004050	1.79	164.36	184.96	0.60	71.54
Reach 1	30750	1_BU				0.89	363.60	395.77	397.92	397.55	398.09	0.004136	1.79	201.00	223.13	0.61	70.17
Reach 1	30750	0p5_BU				0.90	389.40	395.77	397.98	397.60	398.15	0.004135	1.80	214.43	241.83	0.61	69.93
Reach 1	30750	0p5-CC-LC_BU				1.04	545.10	395.77	398.27	397.85	398.44	0.003805	1.90	305.91	391.15	0.59	71.76
Reach 1	30650	5_BU				1.18	290.80	395.40	397.49	396.94	397.62	0.002465	1.67	194.99	221.56	0.49	83.41
Reach 1	30650	1_BU				1.28	363.60	395.40	397.68	397.11	397.82	0.002400	1.74	239.44	254.17	0.49	81.09
Reach 1	30650	0p5_BU				1.32	389.40	395.40	397.74	397.16	397.88	0.002357	1.76	255.24	268.13	0.49	80.31
Reach 1	30650	0p5-CC-LC_BU				1.60	545.10	395.40	398.03	397.45	398.19	0.002214	1.95	357.35	439.55	0.49	77.42
Reach 1	30396	5_BU				1.66	290.80	394.21	396.80	396.46	397.02	0.002645	2.21	172.68	188.02	0.55	84.13
Reach 1	30396	1_BU				1.82	363.60	394.21	397.01	396.63	397.23	0.002568	2.31	213.96	220.11	0.55	79.47
Reach 1	30396	0p5_BU				1.89	389.40	394.21	397.08	396.70	397.31	0.002524	2.34	231.02	247.24	0.54	78.03
Reach 1	30396	0p5-CC-LC_BU				2.22	545.10	394.21	397.44	396.98	397.67	0.002348	2.48	343.72	380.74	0.53	70.40
Reach 1	30150	5_BU				1.58	290.80	393.70	396.10	395.64	396.34	0.003033	2.26	148.74	149.69	0.57	92.47
Reach 1	30150	1_BU				1.74	363.60	393.70	396.26	395.91	396.55	0.003242	2.49	174.86	170.30	0.60	89.98
Reach 1	30150	0p5_BU				1.79	389.40	393.70	396.31	395.97	396.62	0.003340	2.58	184.11	178.66	0.61	89.64
Reach 1	30150	0p5-CC-LC_BU				2.09	545.10	393.70	396.61	396.32	396.99	0.003592	2.96	244.33	237.39	0.65	85.36
Reach 1	29887	5_BU				1.03	290.80	393.58	395.39	394.94	395.51	0.002743	1.61	186.54	186.83	0.51	93.32
Reach 1	29887	1_BU				1.18	363.60	393.58	395.55	395.06	395.70	0.002643	1.72	218.27	196.00	0.51	92.95
Reach 1	29887	0p5_BU				1.23	389.40	393.58	395.60	395.11	395.76	0.002622	1.77	228.56	197.08	0.51	92.83
Reach 1	29887	0p5-CC-LC_BU				1.51	545.10	393.58	395.90	395.35	396.09	0.002549	1.98	287.57	206.61	0.51	92.17
Reach 1	29585	5_BU				1.06	290.80	392.36	394.38	394.02	394.56	0.003708	1.90	152.99	148.27	0.59	99.97
Reach 1	29585	1_BU				1.16	363.60	392.36	394.54	394.16	394.75	0.003795	2.05	178.19	158.79	0.61	99.84
Reach 1	29585	0p5_BU				1.21	389.40	392.36	394.59	394.20	394.81	0.003817	2.11	185.94	160.12	0.61	99.79
Reach 1	29585	0p5-CC-LC_BU				1.43	545.10	392.36	394.88	394.48	395.16	0.003775	2.35	234.95	170.80	0.63	99.42
Reach 1	29234	5_BU				1.19	290.80	391.76	393.33	392.89	393.48	0.002557	1.71	174.72	166.81	0.50	99.33
Reach 1	29234	1_BU				1.37	363.60	391.76	393.52	393.02	393.69	0.002432	1.84	206.79	175.25	0.50	98.80
Reach 1	29234	0p5_BU				1.44	389.40	391.76	393.58	393.06	393.76	0.002400	1.88	217.64	177.22	0.50	98.59
Reach 1	29234	0p5-CC-LC_BU				1.77	545.10	391.76	393.92	393.30	394.14	0.002290	2.11	280.91	203.76	0.51	97.62
Reach 1	28752	5_BU				1.40	290.80	389.58	392.10	391.58	392.25	0.002521	1.77	181.42	168.69	0.48	95.80
Reach 1	28752	1_BU				1.56	363.60	389.58	392.27	391.74	392.46	0.002664	1.95	211.99	178.58	0.50	94.78
Reach 1	28752	0p5_BU				1.62	389.40	389.58	392.33	391.79	392.53	0.002710	2.01	222.14	182.22	0.50	94.34
Reach 1	28752	0p5-CC-LC_BU				1.90	545.10	389.58	392.63	392.06	392.88	0.002952	2.30	279.45	201.07	0.53	91.84
Reach 1	27904	5_BU				1.21	290.80	387.11	389.64		389.81	0.003390	1.98	170.90	190.32	0.58	80.82
Reach 1	27904	1_BU				1.37	363.60	387.11	389.80		389.99	0.003247	2.11	203.75	204.39	0.58	78.31
Reach 1	27904	0p5_BU				1.43	389.40	387.11	389.86		390.06	0.003200	2.15	215.04	208.53	0.58	77.48
Reach 1	27904	0p5-CC-LC_BU				1.73	545.10	387.11	390.15		390.38	0.002988	2.36	288.26	296.64	0.57	73.34
Reach 1	27650	5_BU				1.24	290.80	386.21	388.61	388.26	388.83	0.003776	2.14	150.64	151.08	0.61	88.65
Reach 1	27650	1_BU				1.41	363.60	386.21	388.79	388.45	389.04	0.003687	2.30	178.10	158.42	0.62	87.18
Reach 1	27650	0p5_BU				1.47	389.40	386.21	388.85	388.49	389.11	0.003642	2.35	187.85	160.95	0.62	86.72
Reach 1	27650	0p5-CC-LC_BU				1.81	545.10	386.21	389.21	388.75	389.50	0.003283	2.55	260.03	263.35	0.61	83.66
Reach 1	27359	5_BU				1.33	290.80	385.38	387.54	387.14	387.78	0.003540	2.17	134.16	101.12	0.60	100.00
Reach 1	27359	1_BU				1.54	363.60	385.38	387.76	387.30	388.03	0.003304	2.32	157.05	103.33	0.60	100.00
Reach 1	27359	0p5_BU				1.62	389.40	385.38	387.83	387.36	388.12	0.003245	2.37	164.70	104.75	0.59	99.99
Reach 1	27359	0p5-CC-LC_BU				2.03	545.10	385.38	388.25	387.65	388.60	0.002963	2.63	209.90	115.86	0.59	99.77
Reach 1	27150	5_BU				1.76	290.80	383.59	387.01	386.21	387.21	0.002056	2.00	145.82	85.60	0.48	99.98
Reach 1	27150	1_BU				1.95	363.60	383.59	387.21	386.41	387.47	0.002246	2.24	163.45	88.80	0.51	99.90
Reach 1	27150	0p5_BU				2.02	389.40	383.59	387.28	386.49	387.55	0.002305	2.32	169.33	89.72	0.52	99.85
Reach 1	27150	0p5-CC-LC_BU				2.39	545.10	383.59	387.64	386.88	388.02	0.002571	2.74	203.33	97.32	0.57	99.48
Reach 1	26869	5_BU				1.19	290.80	383.32	385.95	385.76	386.28	0.005851	2.58	115.76	105.03	0.76	99.09
Reach 1	26869	1_BU				1.41	363.60	383.32	386.17	385.92	386.54	0.005071	2.70	139.82	108.76	0.72	98.62
Reach 1	26869	0p5_BU				1.49	389.40	383.32	386.25	385.98	386.62	0.004901	2.74	147.80	110.13	0.72	98.44
Reach 1	26869	0p5-CC-LC_BU				1.87	545.10	383.32	386.63	386.27	387.09	0.004355	3.02	191.67	116.18	0.70	97.46
Reach 1	26650	5_BU				2.06	290.80	382.27	385.62	384.53	385.75	0.001116	1.63	184.95	108.85	0.36	98.62
Reach 1	26650	1_BU				2.27	363.60	382.27	385.83	384.73	386.00	0.001253	1.85	208.28	116.04	0.39	98.01
Reach 1	26650	0p5_BU				2.34	389.40	382.27	385.89	384.80	386.08	0.001299	1.92	216.04	117.45	0.40	97.79
Reach 1	26650	0p5-CC-LC_BU				2.69	545.10	382.27	386.24	385.17	386.51	0.001557	2.30	263.14	161.27	0.45	96.53
Reach 1	26500	5_BU				2.02	290.80	382.41	385.47	384.32	385.59	0.001068	1.57	199.61	118.76	0.35	97.11
Reach 1	26500	1_BU				2.20	363.60	382.41	385.65	384.56	385.81	0.001232	1.79	223.44	139.91	0.39	96.58
Reach 1	26500	0p5_BU				2.26	389.40	382.41	385.71	384.64	385.88	0.001288	1.86	231.85	143.68	0.40	96.36
Reach 1	26500	0p5-CC-LC_BU				2.57	545.10	382.41	386.02	384.98	386.27	0.001596	2.26	285.04	212.49	0.45	94.95
Reach 1	26363	5_BU				1.46	290.80	382.60	385.21		385.37	0.002217	1.82	190.65	202.42	0.48	94.44
Reach 1	26363	1_BU				1.62	363.60	382.60	385.37		385.56	0.002333	2.00	225.75	245.53	0.50	92.33
Reach 1	26363	0p5_BU				1.67	389.40	382.60	385.42		385.62	0.002360	2.06	239.74	274.47	0.51	91.55
Reach 1	26363	0p5-CC-LC_BU				1.96	545.10	382.60	385.71	385.21	385.96	0.002461	2.34	338.43	392.24	0.53	87.26
Reach 1	26186	5_BU				1.27	290.80	382.60	384.44	384.30	384.73	0.005572	2.64	138.54	200.60	0.75	78.27
Reach 1	26186	1_BU				1.41	363.60	382.60	384.59	384.50	384.91	0.005502	2.80	171.00	229.70	0.75	74.32
Reach 1	26186	0p5_BU				1.44	389.40	382.60	384.63	384.54	384.96	0.005568	2.87	180.96	240.98	0.76	73.17
Reach 1	26186	0p5-CC-LC_BU				1.63	545.10	382.60	384.85	384.79	385.25	0.006135	3.26	241.78	350.55	0.82	68.24
Reach 1	26100	5_BU				1.43	290.80	382.20	384.35	383.84	384.46	0.001785	1.61	218.82	266.68	0.43	52.58
Reach 1	26100	1_BU				1.52	363.60	382.20	384.51	383.98	384.63	0.001863	1.72	267.68	346.89	0.45	49.97
Reach 1	26100	0p5_BU				1.56	389.40	382.20	384.56	384.02	384.67	0.001895	1.76	283.63	360.06	0.45	49.11
Reach 1	26100	0p5-CC-LC_BU				1.71	545.10	382.20	384.77	384.26	384.92	0.002200	2.02	371.34	461.96	0.49	45.90
Reach 1	25969	5_BU				1.06	290.80	381.43	384.01	383.68	384.17	0.003714	1.91	183.13	271.43	0.59	72.64

HEC-RAS Plan: KR_Jam_17574 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	25969	1_BU				1.20	363.60	381.43	384.20	383.85	384.35	0.003150	1.91	247.06	414.87	0.56	68.88
Reach 1	25969	0p5_BU				1.24	389.40	381.43	384.25	383.95	384.40	0.003123	1.95	266.37	442.54	0.56	68.00
Reach 1	25969	0p5-CC-LC_BU				1.47	545.10	381.43	384.49	384.16	384.64	0.002691	2.02	384.52	525.05	0.53	60.43
Reach 1	25849	5_BU				1.47	290.80	380.61	383.22	383.14	383.66	0.006096	3.04	109.19	114.49	0.80	89.89
Reach 1	25849	1_BU				1.57	363.60	380.61	383.43	383.39	383.89	0.006150	3.19	137.99	159.38	0.81	86.39
Reach 1	25849	0p5_BU				1.60	389.40	380.61	383.50	383.49	383.95	0.005963	3.18	149.97	170.85	0.80	84.34
Reach 1	25849	0p5-CC-LC_BU				1.75	545.10	380.61	383.82	383.80	384.27	0.005659	3.29	215.39	255.25	0.79	75.34
Reach 1	25750	5_BU				1.68	290.80	379.67	383.13	382.59	383.28	0.001855	1.90	204.16	215.40	0.47	82.34
Reach 1	25750	1_BU				1.75	363.60	379.67	383.37	382.79	383.52	0.001721	1.92	266.43	302.58	0.46	76.74
Reach 1	25750	0p5_BU				1.80	389.40	379.67	383.45	382.84	383.60	0.001686	1.92	291.44	350.73	0.46	75.13
Reach 1	25750	0p5-CC-LC_BU				2.12	545.10	379.67	383.82	383.09	383.95	0.001449	1.95	459.90	547.44	0.43	65.55
Reach 1	25700	5_BU				2.04	290.80	379.24	382.84	382.01	383.15	0.002751	2.52	130.86	141.75	0.56	95.98
Reach 1	25700	1_BU				2.15	363.60	379.24	383.05	382.34	383.39	0.002957	2.70	163.50	173.70	0.59	91.04
Reach 1	25700	0p5_BU				2.21	389.40	379.24	383.12	382.55	383.47	0.002939	2.75	176.17	187.98	0.59	89.28
Reach 1	25700	0p5-CC-LC_BU				2.52	545.10	379.24	383.45	383.26	383.83	0.002929	2.99	251.31	269.96	0.60	79.86
Reach 1	25650	5_BU				2.27	290.80	379.37	382.84	381.72	383.02	0.001474	1.99	180.63	202.08	0.42	90.34
Reach 1	25650	1_BU				2.36	363.60	379.37	383.07	381.99	383.25	0.001512	2.07	235.53	279.42	0.43	82.98
Reach 1	25650	0p5_BU				2.36	389.40	379.37	383.15	382.10	383.33	0.001520	2.07	258.39	300.83	0.43	80.21
Reach 1	25650	0p5-CC-LC_BU				2.64	545.10	379.37	383.53	382.97	383.69	0.001314	2.07	382.70	352.01	0.41	66.96
Reach 1	25600	5_BU				2.15	290.80	379.47	382.73	381.76	382.94	0.001797	2.12	164.31	159.32	0.46	89.93
Reach 1	25600	1_BU				2.19	363.60	379.47	382.94	382.19	383.17	0.002016	2.27	200.26	194.66	0.49	84.75
Reach 1	25600	0p5_BU				2.21	389.40	379.47	383.01	382.32	383.25	0.002049	2.30	214.72	209.74	0.50	82.94
Reach 1	25600	0p5-CC-LC_BU				2.53	545.10	379.47	383.36	382.89	383.61	0.002047	2.52	303.82	304.77	0.51	74.84
Reach 1	25550	5_BU				1.75	290.80	379.57	382.76	382.08	382.85	0.001197	1.51	297.50	340.41	0.37	70.01
Reach 1	25550	1_BU				1.97	363.60	379.57	382.99	382.32	383.07	0.001045	1.53	378.98	382.31	0.35	64.04
Reach 1	25550	0p5_BU				2.04	389.40	379.57	383.06	382.46	383.15	0.000992	1.53	408.79	394.04	0.34	62.09
Reach 1	25550	0p5-CC-LC_BU				2.41	545.10	379.57	383.43	382.64	383.52	0.000893	1.62	564.13	460.89	0.33	55.28
Reach 1	25500	5_BU				1.84	290.80	379.67	382.62	381.71	382.77	0.001612	1.82	176.30	136.72	0.43	90.15
Reach 1	25500	1_BU				2.02	363.60	379.67	382.82	382.05	383.00	0.001713	1.99	204.97	150.79	0.45	87.48
Reach 1	25500	0p5_BU				2.08	389.40	379.67	382.88	382.16	383.08	0.001722	2.04	215.47	154.92	0.45	86.49
Reach 1	25500	0p5-CC-LC_BU				2.37	545.10	379.67	383.18	382.51	383.44	0.002027	2.41	268.28	199.68	0.50	83.45
Reach 1	25458	5_BU				1.31	290.80	379.86	382.43	382.17	382.66	0.003940	2.26	142.92	138.20	0.63	78.51
Reach 1	25458	1_BU				1.44	363.60	379.86	382.65	382.32	382.88	0.003585	2.29	174.71	154.29	0.61	74.64
Reach 1	25458	0p5_BU				1.45	389.40	379.86	382.73	382.37	382.96	0.003497	2.27	187.71	173.04	0.60	73.18
Reach 1	25458	0p5-CC-LC_BU				1.74	545.10	379.86	383.06	382.63	383.32	0.003224	2.45	257.78	242.41	0.59	69.47
Reach 1	25400	5_BU				1.66	290.80	379.62	382.24	381.85	382.46	0.002814	2.24	147.71	119.65	0.56	75.05
Reach 1	25400	1_BU				1.79	363.60	379.62	382.46	382.02	382.70	0.002836	2.36	175.03	133.97	0.56	71.54
Reach 1	25400	0p5_BU				1.79	389.40	379.62	382.52	382.09	382.77	0.002962	2.41	183.67	143.52	0.58	70.72
Reach 1	25400	0p5-CC-LC_BU				1.91	545.10	379.62	382.84	382.38	383.13	0.003170	2.61	246.24	241.43	0.60	65.42
Reach 1	25350	5_BU				1.79	290.80	379.52	382.12	381.57	382.29	0.002029	2.00	172.48	147.10	0.48	76.05
Reach 1	25350	1_BU				1.79	363.60	379.52	382.33	381.75	382.51	0.002221	2.09	204.77	171.33	0.50	71.58
Reach 1	25350	0p5_BU				1.84	389.40	379.52	382.38	381.82	382.58	0.002281	2.16	214.89	189.97	0.51	71.09
Reach 1	25350	0p5-CC-LC_BU				2.15	545.10	379.52	382.70	382.18	382.93	0.002294	2.40	285.05	248.00	0.52	66.10
Reach 1	25300	5_BU				1.19	290.80	379.41	382.04	381.37	382.15	0.001984	1.49	197.32	174.06	0.44	99.76
Reach 1	25300	1_BU				1.16	363.60	379.41	382.22	381.53	382.35	0.002342	1.59	232.35	209.83	0.47	99.53
Reach 1	25300	0p5_BU				1.18	389.40	379.41	382.27	381.58	382.41	0.002370	1.62	244.26	215.88	0.48	99.46
Reach 1	25300	0p5-CC-LC_BU				1.30	545.10	379.41	382.59	381.83	382.74	0.002415	1.74	321.20	257.64	0.49	99.01
Reach 1	25250	5_BU				1.11	290.80	379.31	381.97	381.24	382.05	0.001627	1.29	228.58	213.12	0.39	99.66
Reach 1	25250	1_BU				1.28	363.60	379.31	382.15	381.45	382.24	0.001565	1.38	267.92	225.28	0.39	99.48
Reach 1	25250	0p5_BU				1.33	389.40	379.31	382.20	381.51	382.30	0.001553	1.41	280.59	226.66	0.39	99.41
Reach 1	25250	0p5-CC-LC_BU				1.64	545.10	379.31	382.52	381.75	382.64	0.001490	1.60	353.35	246.98	0.40	98.93
Reach 1	25169	5_BU				1.09	290.80	379.70	381.71	381.15	381.87	0.003048	1.76	169.38	157.89	0.54	98.48
Reach 1	25169	1_BU				1.18	363.60	379.70	381.88	381.33	382.06	0.003215	1.90	196.77	169.84	0.56	98.32
Reach 1	25169	0p5_BU				1.23	389.40	379.70	381.93	381.38	382.12	0.003211	1.94	205.67	170.74	0.56	98.30
Reach 1	25169	0p5-CC-LC_BU				1.51	545.10	379.70	382.23	381.73	382.47	0.003104	2.18	262.42	210.25	0.57	98.06
Reach 1	25100	5_BU				1.22	290.80	378.81	381.54	381.04	381.68	0.002378	1.66	181.33	213.67	0.48	97.23
Reach 1	25100	1_BU				1.36	363.60	378.81	381.69	381.19	381.86	0.002558	1.85	203.72	217.45	0.51	97.17
Reach 1	25100	0p5_BU				1.41	389.40	378.81	381.74	381.23	381.92	0.002621	1.92	211.01	218.66	0.52	97.15
Reach 1	25100	0p5-CC-LC_BU				1.68	545.10	378.81	382.01	381.46	382.26	0.002880	2.25	252.85	241.99	0.55	97.05
Reach 1	24950	5_BU				0.92	290.80	378.16	380.88	380.71	381.13	0.006355	2.28	138.26	169.65	0.76	95.91
Reach 1	24950	1_BU				1.10	363.60	378.16	381.08	380.85	381.34	0.005190	2.32	173.77	184.29	0.70	94.94
Reach 1	24950	0p5_BU				1.17	389.40	378.16	381.14	380.89	381.41	0.004897	2.33	185.97	189.18	0.69	94.52
Reach 1	24950	0p5-CC-LC_BU				1.50	545.10	378.16	381.49	381.14	381.78	0.003905	2.46	254.63	222.32	0.64	92.54
Reach 1	24800	5_BU				1.60	290.80	377.37	380.57	379.81	380.69	0.001533	1.58	190.15	132.16	0.40	99.04
Reach 1	24800	1_BU				1.79	363.60	377.37	380.77	379.96	380.92	0.001610	1.75	217.69	143.63	0.42	98.68
Reach 1	24800	0p5_BU				1.86	389.40	377.37	380.83	380.02	381.00	0.001632	1.80	227.38	148.82	0.42	98.51
Reach 1	24800	0p5-CC-LC_BU				2.19	545.10	377.37	381.17	380.30	381.39	0.001804	2.11	283.21	185.34	0.46	97.40
Reach 1	24693	5_BU				0.92	290.80	377.15	379.85	379.85	380.31	0.011123	2.99	97.86	109.68	1.00	99.87
Reach 1	24693	1_BU				1.07	363.60	377.15	380.01	380.01	380.53	0.010483	3.20	114.62	110.88	0.99	99.73
Reach 1	24693	0p5_BU				1.12	389.40	377.15	380.06	380.06	380.60	0.010275	3.27	120.40	111.29	0.99	99.69
Reach 1	24693	0p5-CC-LC_BU				1.62	545.10	377.15	380.57	380.34	381.05	0.005620	3.10	186.09	148.90	0.78	98.59
Reach 1	24600	5_BU				2.57	290.80	376.10	379.65	378.04	379.77	0.000770	1.57	186.26	77.20	0.31	99.97
Reach 1	24600	1_BU				2.83	363.60	376.10	379.96	378.27	380.11	0.000840	1.74	211.47	88.64	0.33	99.80
Reach 1	24600	0p5_BU				2.93	389.40	376.10	380.06	378.36	380.22	0.000858	1.80	220.69	98.74	0.34	99.69
Reach 1	24600	0p5-CC-LC_BU				3.45	545.10	376.10	380.58	378.80	380.80	0.000928	2.09	289.35	147.03	0.36	97.60
Reach 1	24500	5_BU				2.32	290.80	375.69	379.51	378.27	379.67	0.001183	1.81	164.43	84.27	0.38	99.25
Reach 1	24500	1_BU				2.58	363.60	375.69	379.81	378.53	380.01	0.001235	1.99	191.77	96.25	0.39	98.30
Reach 1	24500	0p5_BU				2.67	389.40	375.69	379.91	378.60	380.11	0.001249	2.04	201.25	98.49	0.40	97.94
Reach 1	24500	0p5-CC-LC_BU				3.17	545.10	375.69	380.42	379.03	380.69	0.001305	2.34	260.26	136.36	0.42	95.60
Reach 1	24400	5_BU				2.23	290.80	375.71	379.24	378.32	379.51	0.002067	2.32	126.02	63.01	0.50	99.96
Reach 1	24400	1_BU				2.43	363.60	375.71	379.48	378.58	379.82	0.002382	2.60	142.42	69.92	0.53	99.63
Reach 1	24400	0p5_BU				2.49	389.40	375.71	379.56	378.66	379.93	0.002468	2.69	148.04	71.77	0.54	99.47
Reach 1	24400	0p5-CC-LC_BU				2.83	545.10	375.71	379.97	379.12	380.48	0.002913	3.20	178.94	86.26	0.61	98.35
Reach 1	24350	5_BU				2.29	290.80	375.54	379.18	378.09	379.40	0.001817	2.08	141.19	67.13	0.44	99.81
Reach 1	24350	1_BU				2.47	363.60	375.54	379.42	378.34	379.70	0.002122	2.34	158.94	80.82	0.48	99.42
Reach 1	24350	0p5_BU				2.52	389.40	375.54	379.50	378.41	379.80	0.002222	2.42	165.49	87.12	0.49	99.24
Reach 1	24350	0p5-CC-LC_BU				2.91	545.10	375.54	379.91	378.87	380.32	0.002589	2.87	206.77	116.82	0.54	97.66
Reach 1	24300	5_BU				2.20	290.80	375.93	379.12	378.07	379.31	0.001463	1.94	150.46	75.09	0.42	99.92
Reach 1	24300	1_BU				2.39	363.60	375.93	379.35	378.30	379.59	0.001671	2.19	168.53	82.28	0.45	99.67
Reach 1	24300	0p5_BU				2.44	389.40	375.93	379.42	378.37	379.69	0.001741	2.27	174.85	86.53	0.46	99.56
Reach 1	24300	0p5-CC-LC_BU				2.79	545.10	375.93	379.82	378.78	380.19	0.002067	2.70	214.28	111.96	0.52	98.52
Reach 1	24250	5_BU				2.22	290.80	376.30	379.08	377.96	379.23	0.001133	1.72	173.78	92.13	0.37	99.09
Reach 1	24250	1_BU				2.44	363.60	376.30	379.32	378.16	379.50	0.001266	1.94	196.30	101.16	0.40	98.43
Reach 1	24250	0p5_BU				2.52	389.40	376.30	379.39	378.23	379.59	0.001306	2.01	204.05	103.10	0.40	98.16
Reach 1	24250	0p5-CC-LC_BU				2.91	545.10	376.30	379.80	378.61	380.08	0.001516	2.38	252.69	153.48	0.45	96.65
Reach 1	24200	5_BU				1.92	290.80	376.73	379.00	378.13	379.17	0.001491	1.80	166.58	98.16	0.41	98.92
Reach 1	24200	1_BU				2.12	363.60	376.73	379.23	378.31	379.43	0.001603	1.99	189.60	102.93	0.44	98.26
Reach 1	24200	0p5_BU				2.20	389.40	376.73	379.31	378.37	379.52	0.001634	2.06	197.42	106.93	0.44	98.04

HEC-RAS Plan: KR_Jam_17574 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	24200	0p5-CC-LC_BU				2.60	545.10	376.73	379.71	378.74	380.00	0.001771	2.39	247.88	158.75	0.47	96.49
Reach 1	24150	5_BU				1.65	290.80	376.70	378.87	378.23	379.07	0.002248	2.00	147.33	95.95	0.50	99.58
Reach 1	24150	1_BU				1.87	363.60	376.70	379.09	378.42	379.33	0.002312	2.20	168.64	98.94	0.51	99.17
Reach 1	24150	0p5_BU				1.94	389.40	376.70	379.16	378.47	379.42	0.002333	2.26	175.78	101.03	0.52	99.03
Reach 1	24150	0p5-CC-LC_BU				2.32	545.10	376.70	379.55	378.81	379.89	0.002434	2.61	221.21	137.46	0.55	97.90
Reach 1	24100	5_BU				1.73	290.80	376.59	378.75	378.09	378.96	0.002236	2.05	144.33	93.93	0.50	99.46
Reach 1	24100	1_BU				1.93	363.60	376.59	378.96	378.27	379.22	0.002376	2.28	164.09	99.11	0.52	98.87
Reach 1	24100	0p5_BU				2.00	389.40	376.59	379.02	378.33	379.30	0.002420	2.35	170.87	101.93	0.53	98.65
Reach 1	24100	0p5-CC-LC_BU				2.36	545.10	376.59	379.39	378.71	379.76	0.002641	2.75	211.60	130.45	0.57	97.28
Reach 1	24050	5_BU				1.78	290.80	376.51	378.65	377.94	378.85	0.002068	2.02	146.22	154.30	0.48	99.68
Reach 1	24050	1_BU				1.97	363.60	376.51	378.84	378.13	379.10	0.002266	2.26	165.28	165.48	0.51	99.17
Reach 1	24050	0p5_BU				2.04	389.40	376.51	378.91	378.19	379.18	0.002327	2.34	172.02	171.76	0.52	98.96
Reach 1	24050	0p5-CC-LC_BU				2.39	545.10	376.51	379.25	378.55	379.63	0.002608	2.75	211.67	193.18	0.57	97.41
Reach 1	24000	5_BU				1.80	290.80	376.41	378.55	377.83	378.75	0.002004	1.99	146.70	119.15	0.47	99.96
Reach 1	24000	1_BU				1.97	363.60	376.41	378.73	378.00	378.99	0.002282	2.25	163.94	128.24	0.51	99.63
Reach 1	24000	0p5_BU				2.03	389.40	376.41	378.79	378.07	379.07	0.002379	2.34	169.70	133.86	0.53	99.51
Reach 1	24000	0p5-CC-LC_BU				2.32	545.10	376.41	379.10	378.41	379.49	0.002862	2.81	205.24	189.62	0.59	98.42
Reach 1	23950	5_BU				1.70	290.80	376.45	378.45	377.80	378.64	0.002072	1.95	158.09	149.75	0.48	97.52
Reach 1	23950	1_BU				1.86	363.60	376.45	378.63	377.98	378.86	0.002311	2.19	179.52	160.16	0.51	96.43
Reach 1	23950	0p5_BU				1.92	389.40	376.45	378.68	378.05	378.94	0.002393	2.27	186.74	164.37	0.52	96.09
Reach 1	23950	0p5-CC-LC_BU				2.18	545.10	376.45	378.98	378.40	379.33	0.002851	2.70	231.22	220.12	0.58	94.43
Reach 1	23900	5_BU				1.61	290.80	376.38	378.36	377.74	378.53	0.002005	1.86	166.89	160.21	0.47	95.73
Reach 1	23900	1_BU				1.77	363.60	376.38	378.53	377.91	378.74	0.002248	2.10	188.45	181.46	0.50	95.07
Reach 1	23900	0p5_BU				1.83	389.40	376.38	378.58	377.97	378.81	0.002326	2.18	195.91	190.09	0.51	94.79
Reach 1	23900	0p5-CC-LC_BU				2.11	545.10	376.38	378.86	378.26	379.18	0.002716	2.59	246.61	271.43	0.57	93.04
Reach 1	23850	5_BU				1.54	290.80	376.45	378.27	377.67	378.43	0.002019	1.80	172.45	166.51	0.46	94.47
Reach 1	23850	1_BU				1.68	363.60	376.45	378.42	377.82	378.62	0.002297	2.04	193.09	182.82	0.50	93.77
Reach 1	23850	0p5_BU				1.72	389.40	376.45	378.47	377.87	378.68	0.002394	2.12	199.85	195.75	0.51	93.54
Reach 1	23850	0p5-CC-LC_BU				1.94	545.10	376.45	378.72	378.17	379.03	0.002982	2.56	239.04	259.78	0.59	92.87
Reach 1	23800	5_BU				1.38	290.80	376.34	378.14	377.66	378.31	0.002516	1.87	174.23	198.61	0.51	92.85
Reach 1	23800	1_BU				1.52	363.60	376.34	378.28	377.82	378.49	0.002808	2.11	196.86	217.68	0.55	91.67
Reach 1	23800	0p5_BU				1.56	389.40	376.34	378.32	377.87	378.54	0.002911	2.18	204.27	224.19	0.56	91.27
Reach 1	23800	0p5-CC-LC_BU				1.79	545.10	376.34	378.55	378.16	378.86	0.003472	2.61	245.56	274.10	0.62	89.32
Reach 1	23750	5_BU				1.12	290.80	376.43	378.03	377.61	378.15	0.002562	1.63	219.58	253.72	0.49	79.36
Reach 1	23750	1_BU				1.24	363.60	376.43	378.16	377.73	378.30	0.002786	1.82	254.08	272.79	0.52	78.90
Reach 1	23750	0p5_BU				1.28	389.40	376.43	378.21	377.77	378.36	0.002826	1.86	266.18	283.89	0.53	78.31
Reach 1	23750	0p5-CC-LC_BU				1.50	545.10	376.43	378.45	377.98	378.63	0.002976	2.09	342.61	345.85	0.55	74.87
Reach 1	23700	5_BU				0.80	290.80	376.64	377.87	377.52	377.96	0.003627	1.55	241.39	354.52	0.55	60.76
Reach 1	23700	1_BU				0.93	363.60	376.64	378.01	377.62	378.11	0.003284	1.63	293.67	393.12	0.54	60.18
Reach 1	23700	0p5_BU				0.98	389.40	376.64	378.05	377.62	378.16	0.003165	1.65	312.75	409.28	0.53	59.82
Reach 1	23700	0p5-CC-LC_BU				1.23	545.10	376.64	378.32	377.80	378.43	0.002643	1.74	441.03	574.95	0.50	57.32
Reach 1	23650	5_BU				0.83	290.80	376.40	377.63	377.35	377.74	0.003995	1.67	205.68	310.26	0.58	64.76
Reach 1	23650	1_BU				1.00	363.60	376.40	377.81	377.45	377.92	0.003320	1.71	265.26	368.14	0.55	64.64
Reach 1	23650	0p5_BU				1.05	389.40	376.40	377.86	377.47	377.98	0.003181	1.73	286.04	381.40	0.54	64.45
Reach 1	23650	0p5-CC-LC_BU				1.26	545.10	376.40	378.16	377.65	378.28	0.002676	1.77	418.72	516.32	0.50	61.09
Reach 1	23600	5_BU				0.90	290.80	375.86	377.50	377.06	377.58	0.002473	1.40	256.78	345.39	0.47	60.95
Reach 1	23600	1_BU				1.09	363.60	375.86	377.71	377.15	377.78	0.001993	1.42	332.32	384.93	0.44	61.02
Reach 1	23600	0p5_BU				1.14	389.40	375.86	377.77	377.18	377.84	0.001890	1.43	356.60	400.61	0.43	60.62
Reach 1	23600	0p5-CC-LC_BU				1.37	545.10	375.86	378.08	377.35	378.16	0.001638	1.50	495.28	481.55	0.41	58.27
Reach 1	23550	5_BU				0.95	290.80	375.45	377.39	376.96	377.47	0.002199	1.36	236.27	313.11	0.45	65.21
Reach 1	23550	1_BU				1.17	363.60	375.45	377.62	377.06	377.70	0.001695	1.37	316.38	368.59	0.41	65.69
Reach 1	23550	0p5_BU				1.23	389.40	375.45	377.69	377.10	377.77	0.001631	1.39	340.74	380.78	0.40	65.69
Reach 1	23550	0p5-CC-LC_BU				1.44	545.10	375.45	378.01	377.30	378.09	0.001478	1.47	477.28	479.60	0.39	62.85
Reach 1	23500	5_BU				1.07	290.80	375.07	377.31	376.64	377.38	0.001490	1.20	258.58	270.65	0.37	66.74
Reach 1	23500	1_BU				1.27	363.60	375.07	377.56	376.76	377.63	0.001227	1.22	336.85	351.69	0.35	67.14
Reach 1	23500	0p5_BU				1.32	389.40	375.07	377.63	376.80	377.69	0.001196	1.24	361.00	365.19	0.34	66.90
Reach 1	23500	0p5-CC-LC_BU				1.58	545.10	375.07	377.95	377.02	378.03	0.001140	1.36	489.85	444.86	0.35	65.61
Reach 1	23450	5_BU				1.17	290.80	375.14	377.26	376.42	377.32	0.001048	1.11	285.69	265.50	0.33	72.80
Reach 1	23450	1_BU				1.33	363.60	375.14	377.52	376.54	377.57	0.000933	1.13	359.74	316.14	0.31	72.67
Reach 1	23450	0p5_BU				1.38	389.40	375.14	377.58	376.57	377.64	0.000929	1.16	381.57	331.28	0.31	72.77
Reach 1	23450	0p5-CC-LC_BU				1.47	545.10	375.14	377.91	376.80	377.97	0.001052	1.24	505.98	451.06	0.33	70.01
Reach 1	23400	5_BU				1.23	290.80	375.03	377.21	376.39	377.27	0.000989	1.12	281.06	236.58	0.32	71.29
Reach 1	23400	1_BU				1.31	363.60	375.03	377.47	376.50	377.53	0.000962	1.12	347.35	283.55	0.31	70.00
Reach 1	23400	0p5_BU				1.36	389.40	375.03	377.54	376.53	377.60	0.000952	1.15	366.73	291.92	0.31	70.12
Reach 1	23400	0p5-CC-LC_BU				1.49	545.10	375.03	377.85	376.74	377.92	0.001087	1.28	466.33	368.07	0.33	69.07
Reach 1	23300	5_BU				1.32	290.80	374.20	377.06	376.25	377.16	0.001496	1.40	226.97	196.95	0.39	90.18
Reach 1	23300	1_BU				1.17	363.60	374.20	377.33	376.40	377.41	0.001676	1.37	289.93	277.45	0.40	87.64
Reach 1	23300	0p5_BU				1.21	389.40	374.20	377.40	376.45	377.48	0.001615	1.37	310.26	289.05	0.40	87.39
Reach 1	23300	0p5-CC-LC_BU				1.41	545.10	374.20	377.70	376.71	377.80	0.001624	1.52	403.73	343.56	0.41	86.74
Reach 1	23200	5_BU				1.15	290.80	374.25	376.72	376.38	376.92	0.003629	2.01	150.64	143.99	0.60	94.78
Reach 1	23200	1_BU				1.18	363.60	374.25	376.97	376.53	377.17	0.003575	2.02	188.78	178.35	0.59	93.43
Reach 1	23200	0p5_BU				1.12	389.40	374.25	377.04	376.57	377.24	0.003783	2.01	202.83	198.09	0.61	92.66
Reach 1	23200	0p5-CC-LC_BU				1.23	545.10	374.25	377.32	376.86	377.55	0.003921	2.17	265.29	256.30	0.63	91.26
Reach 1	23016	5_BU				1.26	290.80	373.81	376.26		376.39	0.002152	1.63	198.73	222.39	0.46	84.28
Reach 1	23016	1_BU				1.22	363.60	373.81	376.48		376.60	0.002346	1.67	249.67	291.08	0.48	81.90
Reach 1	23016	0p5_BU				1.24	389.40	373.81	376.54		376.66	0.002319	1.67	266.09	307.22	0.48	80.69
Reach 1	23016	0p5-CC-LC_BU				1.43	545.10	373.81	376.85		376.99	0.002114	1.76	356.72	345.38	0.47	76.40
Reach 1	22900	5_BU				1.10	290.80	373.42	375.67		375.97	0.006033	2.49	123.78	154.32	0.76	94.80
Reach 1	22900	1_BU				1.28	363.60	373.42	375.92		376.21	0.004694	2.43	163.09	199.11	0.69	92.00
Reach 1	22900	0p5_BU				1.35	389.40	373.42	376.00		376.28	0.004366	2.43	176.86	213.80	0.67	90.99
Reach 1	22900	0p5-CC-LC_BU				1.32	545.10	373.42	376.37		376.63	0.004288	2.37	266.02	335.41	0.66	83.72
Reach 1	22750	5_BU				1.31	290.80	372.99	375.22		375.38	0.002450	1.78	163.49	126.86	0.50	100.00
Reach 1	22750	1_BU				1.21	363.60	372.99	375.46		375.63	0.002868	1.83	198.58	172.22	0.53	99.99
Reach 1	22750	0p5_BU				1.17	389.40	372.99	375.55		375.72	0.002982	1.83	213.24	192.08	0.54	99.98
Reach 1	22750	0p5-CC-LC_BU				1.20	545.10	372.99	375.92		376.09	0.002921	1.84	299.14	284.67	0.54	99.31
Reach 1	22584	5_BU				1.37	290.80	372.69	374.84		374.99	0.002172	1.73	168.93	131.58	0.47	99.94
Reach 1	22584	1_BU				1.58	363.60	372.69	375.06		375.23	0.002070	1.86	198.65	149.09	0.47	99.65
Reach 1	22584	0p5_BU				1.65	389.40	372.69	375.12		375.31	0.002056	1.91	209.51	173.56	0.47	99.47
Reach 1	22584	0p5-CC-LC_BU				2.00	545.10	372.69	375.48		375.70	0.001967	2.12	288.44	284.11	0.48	95.88
Reach 1	22500	5_BU				1.54	290.80	372.35	374.65		374.82	0.002012	1.80	168.51	128.37	0.46	98.09
Reach 1	22500	1_BU				1.63	363.60	372.35	374.87		375.06	0.002087	1.95	198.45	151.08	0.49	97.15
Reach 1	22500	0p5_BU				1.68	389.40	372.35	374.93		375.13	0.002093	2.00	208.89	158.67	0.49	96.97
Reach 1	22500	0p5-CC-LC_BU				2.01	545.10	372.35	375.27		375.52	0.002177	2.27	266.76	236.70	0.51	94.50
Reach 1	22400	5_BU				1.60	290.80	372.16	374.45		374.62	0.001956	1.84	159.96	109.70	0.46	98.21
Reach 1	22400	1_BU				1.78	363.60	372.16	374.64		374.85	0.002064	2.03	181.74	134.44	0.49	97.21
Reach 1	22400	0p5_BU				1.83	389.40	372.16	374.70		374.92	0.002102	2.09	189.33	139.15	0.49	96.82
Reach 1	22400	0p5-CC-LC_BU				2.12	545.10	372.16	375.02		375.29	0.002234	2.39	247.67	327.51	0.52	92.89

HEC-RAS Plan: KR_Jam_17574 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	22300	5_BU				1.39	290.80	371.96	374.08		374.35	0.003512	2.29	130.66	118.86	0.62	98.51
Reach 1	22300	1_BU				1.49	363.60	371.96	374.23		374.56	0.003870	2.55	150.16	140.76	0.67	97.21
Reach 1	22300	0p5_BU				1.53	389.40	371.96	374.28		374.62	0.003991	2.64	156.95	150.69	0.68	96.69
Reach 1	22300	0p5-CC-LC_BU				1.73	545.10	371.96	374.50	374.36	374.96	0.004706	3.10	196.71	213.04	0.75	93.00
Reach 1	22200	5_BU				1.32	290.80	371.77	373.91		374.04	0.002049	1.67	179.57	183.13	0.46	93.08
Reach 1	22200	1_BU				1.47	363.60	371.77	374.07		374.22	0.002077	1.80	212.09	217.42	0.47	90.09
Reach 1	22200	0p5_BU				1.53	389.40	371.77	374.12		374.28	0.002057	1.83	224.26	231.27	0.47	88.80
Reach 1	22200	0p5-CC-LC_BU				1.79	545.10	371.77	374.38		374.57	0.002019	2.01	296.98	324.53	0.48	81.43
Reach 1	22094	5_BU				1.06	310.30	371.63	373.58		373.75	0.003438	1.84	170.44	201.19	0.57	92.48
Reach 1	22094	1_BU				1.18	389.90	371.63	373.74		373.93	0.003274	1.92	207.80	253.50	0.57	89.39
Reach 1	22094	0p5_BU				1.21	418.50	371.63	373.80		373.99	0.003208	1.95	223.01	266.72	0.56	88.57
Reach 1	22094	0p5-CC-LC_BU				1.29	586.00	371.63	374.08		374.27	0.003085	1.99	305.59	361.49	0.56	80.32
Reach 1	22050	5_BU				0.97	310.30	371.32	373.41		373.58	0.004083	1.89	178.03	217.83	0.61	94.94
Reach 1	22050	1_BU				1.05	389.90	371.32	373.56		373.76	0.004239	2.03	215.09	274.47	0.63	94.47
Reach 1	22050	0p5_BU				1.06	418.50	371.32	373.62		373.83	0.004262	2.04	232.59	299.37	0.63	93.82
Reach 1	22050	0p5-CC-LC_BU				1.11	586.00	371.32	373.87		374.10	0.004632	2.21	316.69	382.68	0.67	91.25
Reach 1	21950	5_BU				0.85	310.30	370.75	372.91		373.10	0.005049	1.92	160.03	239.44	0.67	85.97
Reach 1	21950	1_BU				0.88	389.90	370.75	373.07		373.27	0.005012	1.96	199.41	288.74	0.67	84.72
Reach 1	21950	0p5_BU				0.89	418.50	370.75	373.13		373.32	0.005164	2.00	213.65	309.83	0.68	85.49
Reach 1	21950	0p5-CC-LC_BU				0.96	586.00	370.75	373.39		373.59	0.004627	1.99	301.48	440.28	0.65	81.19
Reach 1	21825	5_BU				0.84	310.30	370.87	372.60		372.72	0.002103	1.23	221.53	313.03	0.43	63.66
Reach 1	21825	1_BU				0.98	389.90	370.87	372.83		372.92	0.001731	1.24	299.33	413.95	0.40	65.74
Reach 1	21825	0p5_BU				1.03	418.50	370.87	372.90		372.98	0.001616	1.24	325.68	444.97	0.39	65.14
Reach 1	21825	0p5-CC-LC_BU				1.13	586.00	370.87	373.22		373.29	0.001320	1.19	499.06	744.61	0.36	60.26
Reach 1	21700	5_BU				1.29	310.30	369.78	372.29		372.44	0.002466	1.78	191.38	187.43	0.50	95.91
Reach 1	21700	1_BU				1.41	389.90	369.78	372.49		372.67	0.002523	1.90	234.40	283.52	0.51	94.63
Reach 1	21700	0p5_BU				1.41	418.50	369.78	372.55		372.74	0.002600	1.94	251.25	322.29	0.52	94.01
Reach 1	21700	0p5-CC-LC_BU				1.56	586.00	369.78	372.86		373.07	0.002682	2.10	353.60	502.07	0.54	90.12
Reach 1	21600	5_BU				1.22	310.30	369.52	372.01		372.18	0.002828	1.84	187.19	236.34	0.53	94.09
Reach 1	21600	1_BU				1.35	389.90	369.52	372.20		372.39	0.002916	2.00	229.11	287.47	0.55	93.78
Reach 1	21600	0p5_BU				1.39	418.50	369.52	372.25		372.45	0.002958	2.05	242.70	302.43	0.55	93.14
Reach 1	21600	0p5-CC-LC_BU				1.57	586.00	369.52	372.51		372.76	0.003205	2.31	320.06	429.72	0.59	89.91
Reach 1	21530	5_BU				1.18	310.30	369.79	371.83		371.97	0.002667	1.74	219.64	303.44	0.51	88.93
Reach 1	21530	1_BU				1.36	389.90	369.79	372.04		372.18	0.002343	1.79	278.36	385.00	0.49	86.18
Reach 1	21530	0p5_BU				1.41	418.50	369.79	372.09		372.24	0.002347	1.83	294.70	401.41	0.49	85.33
Reach 1	21530	0p5-CC-LC_BU				1.64	586.00	369.79	372.34		372.53	0.002545	2.11	388.74	602.41	0.53	82.63
Reach 1	21450	5_BU				1.20	310.30	368.92	371.65		371.77	0.002301	1.62	233.46	306.20	0.47	89.18
Reach 1	21450	1_BU				1.18	389.90	368.92	371.89		372.00	0.002269	1.60	312.16	520.10	0.47	85.75
Reach 1	21450	0p5_BU				1.24	418.50	368.92	371.95		372.06	0.002193	1.62	338.16	567.84	0.46	85.18
Reach 1	21450	0p5-CC-LC_BU				1.51	586.00	368.92	372.21		372.35	0.002047	1.78	486.72	775.07	0.46	81.24
Reach 1	21319	5_BU				1.19	310.30	368.49	371.18		371.39	0.003856	2.07	164.80	194.82	0.61	95.21
Reach 1	21319	1_BU				1.19	389.90	368.49	371.39		371.61	0.004191	2.16	205.28	285.52	0.63	93.43
Reach 1	21319	0p5_BU				1.18	418.50	368.49	371.45		371.68	0.004310	2.18	220.95	319.66	0.64	92.46
Reach 1	21319	0p5-CC-LC_BU				1.26	586.00	368.49	371.71		371.97	0.004657	2.37	299.25	437.61	0.68	89.27
Reach 1	21250	5_BU				1.10	310.30	368.22	370.93		371.12	0.003850	1.99	170.72	221.85	0.61	94.84
Reach 1	21250	1_BU				1.07	389.90	368.22	371.09		371.31	0.004572	2.13	205.36	286.20	0.66	93.86
Reach 1	21250	0p5_BU				1.07	418.50	368.22	371.15		371.37	0.004632	2.15	219.32	306.44	0.66	93.11
Reach 1	21250	0p5-CC-LC_BU				1.26	586.00	368.22	371.38		371.65	0.004609	2.38	285.11	377.02	0.68	90.67
Reach 1	21200	5_BU				0.94	310.30	368.17	370.81		370.93	0.003153	1.63	216.81	298.77	0.54	89.40
Reach 1	21200	1_BU				1.05	389.90	368.17	370.97		371.11	0.003048	1.72	262.42	343.48	0.54	88.21
Reach 1	21200	0p5_BU				1.09	418.50	368.17	371.03		371.17	0.002987	1.75	280.62	362.62	0.53	87.81
Reach 1	21200	0p5-CC-LC_BU				1.31	586.00	368.17	371.29		371.45	0.002816	1.91	371.38	446.07	0.53	85.43
Reach 1	21150	5_BU				0.92	310.30	368.09	370.60		370.76	0.004098	1.82	192.21	282.37	0.61	87.70
Reach 1	21150	1_BU				1.10	389.90	368.09	370.79		370.95	0.003464	1.89	240.27	344.29	0.58	86.52
Reach 1	21150	0p5_BU				1.16	418.50	368.09	370.85		371.01	0.003315	1.92	258.68	362.75	0.57	86.37
Reach 1	21150	0p5-CC-LC_BU				1.43	586.00	368.09	371.12		371.31	0.003021	2.10	347.37	421.30	0.56	83.23
Reach 1	21100	5_BU				1.15	310.30	368.03	370.49	370.02	370.60	0.002359	1.61	226.33	262.21	0.48	79.91
Reach 1	21100	1_BU				1.21	389.90	368.03	370.68	370.16	370.80	0.002353	1.65	277.41	334.20	0.48	77.11
Reach 1	21100	0p5_BU				1.24	418.50	368.03	370.75	370.20	370.87	0.002356	1.67	297.53	362.11	0.48	76.67
Reach 1	21100	0p5-CC-LC_BU				1.48	586.00	368.03	371.03	370.43	371.17	0.002342	1.86	398.48	463.89	0.49	74.91
Reach 1	21050	5_BU				1.26	310.30	367.97	370.29		370.46	0.002929	1.90	191.00	244.56	0.54	86.30
Reach 1	21050	1_BU				1.36	389.90	367.97	370.46		370.65	0.003134	2.06	229.05	290.77	0.56	84.41
Reach 1	21050	0p5_BU				1.30	418.50	367.97	370.52		370.71	0.003356	2.07	246.08	328.46	0.58	82.77
Reach 1	21050	0p5-CC-LC_BU				1.44	586.00	367.97	370.80		371.01	0.003472	2.23	341.07	441.35	0.59	78.51
Reach 1	21000	5_BU				1.23	310.30	367.91	370.19		370.30	0.002106	1.60	242.64	292.99	0.46	81.07
Reach 1	21000	1_BU				1.37	389.90	367.91	370.35		370.48	0.002107	1.73	288.32	370.42	0.47	79.52
Reach 1	21000	0p5_BU				1.42	418.50	367.91	370.40		370.54	0.002119	1.78	305.39	399.39	0.48	78.96
Reach 1	21000	0p5-CC-LC_BU				1.66	586.00	367.91	370.66		370.83	0.002295	2.05	406.13	525.09	0.51	76.54
Reach 1	20950	5_BU				1.27	310.30	367.85	370.14		370.20	0.001320	1.29	324.70	339.35	0.37	62.22
Reach 1	20950	1_BU				1.44	389.90	367.85	370.31		370.38	0.001337	1.41	385.51	413.89	0.38	61.40
Reach 1	20950	0p5_BU				1.49	418.50	367.85	370.36		370.44	0.001392	1.47	405.84	435.02	0.39	61.79
Reach 1	20950	0p5-CC-LC_BU				1.75	586.00	367.85	370.62		370.72	0.001478	1.69	536.22	634.98	0.41	59.35
Reach 1	20892	5_BU				1.23	310.30	367.84	370.01		370.11	0.002201	1.63	264.10	329.26	0.47	66.04
Reach 1	20892	1_BU				1.38	389.90	367.84	370.19		370.29	0.002131	1.73	325.62	413.64	0.47	63.85
Reach 1	20892	0p5_BU				1.43	418.50	367.84	370.23		370.35	0.002154	1.78	346.12	442.75	0.48	63.24
Reach 1	20892	0p5-CC-LC_BU				1.64	586.00	367.84	370.48		370.62	0.002353	2.04	476.62	669.29	0.51	60.79
Reach 1	20850	5_BU				1.13	310.30	367.74	369.95		370.03	0.002144	1.52	286.16	384.64	0.46	57.10
Reach 1	20850	1_BU				1.24	389.90	367.74	370.12		370.21	0.002205	1.64	359.70	475.29	0.47	56.84
Reach 1	20850	0p5_BU				1.29	418.50	367.74	370.17		370.26	0.002203	1.68	383.36	495.73	0.47	56.45
Reach 1	20850	0p5-CC-LC_BU				1.53	586.00	367.74	370.41		370.53	0.002297	1.92	519.67	681.40	0.50	54.79
Reach 1	20800	5_BU				1.22	310.30	367.71	369.79		369.93	0.003000	1.90	211.68	295.70	0.55	67.72
Reach 1	20800	1_BU				1.36	389.90	367.71	369.94		370.10	0.003213	2.10	261.20	388.81	0.58	67.19
Reach 1	20800	0p5_BU				1.40	418.50	367.71	369.98		370.15	0.003246	2.16	279.53	423.21	0.58	66.45
Reach 1	20800	0p5-CC-LC_BU				1.63	586.00	367.71	370.21		370.42	0.003380	2.44	395.24	594.50	0.61	62.34
Reach 1	20750	5_BU				1.18	310.30	367.67	369.71		369.80	0.002366	1.64	298.36	406.11	0.48	53.49
Reach 1	20750	1_BU				1.27	389.90	367.67	369.86		369.96	0.002613	1.82	362.54	477.33	0.51	53.16
Reach 1	20750	0p5_BU				1.30	418.50	367.67	369.91		370.02	0.002620	1.85	386.02	496.13	0.52	52.37
Reach 1	20750	0p5-CC-LC_BU				1.52	586.00	367.67	370.15		370.27	0.002638	2.05	516.93	629.76	0.53	49.31
Reach 1	20700	5_BU				1.17	310.30	367.63	369.57		369.70	0.003349	1.94	247.62	384.25	0.57	59.64
Reach 1	20700	1_BU				1.26	389.90	367.63	369.72		369.86	0.003394	2.06	310.65	461.34	0.59	56.95
Reach 1	20700	0p5_BU				1.30	418.50	367.63	369.77		369.91	0.003365	2.09	333.78	473.09	0.59	56.06
Reach 1	20700	0p5-CC-LC_BU				1.56	586.00	367.63	370.03		370.18	0.003101	2.26	462.61	567.50	0.58	51.70
Reach 1	20650	5_BU				1.13	310.30	367.50	369.47		369.59	0.003095	1.83	238.10	320.71	0.55	57.86
Reach 1	20650	1_BU				1.27	389.90	367.50	369.62		369.75	0.002991	1.95	289.75	365.50	0.55	55.70
Reach 1	20650	0p5_BU				1.32	418.50	367.50	369.67		369.81	0.002981	1.99	308.13	383.88	0.55	55.21
Reach 1	20650	0p5-CC-LC_BU				1.59	586.00	367.50	369.94		370.09	0.002797	2.18	418.62	484.81	0.55	51.62
Reach 1	20600	5_BU				1.12	310.30	367.38	369.38		369.47	0.002352	1.53	250.88	285.91	0.46	67.71
Reach 1	20600	1_BU				1.25	389.90	367.38	369.53		369.64	0.002396	1.64	296.95	328.47	0.47	66.20

HEC-RAS Plan: KR_Jam_17574 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	20600	0p5_BU				1.29	418.50	367.38	369.58		369.70	0.002415	1.69	313.35	348.73	0.47	65.76
Reach 1	20600	0p5-CC-LC_BU				1.51	586.00	367.38	369.85		369.98	0.002425	1.86	420.05	504.26	0.48	62.79
Reach 1	20550	5_BU				1.14	310.30	367.25	369.20		369.34	0.003034	1.81	226.69	325.81	0.54	77.10
Reach 1	20550	1_BU				1.28	389.90	367.25	369.35		369.51	0.003049	1.97	276.22	374.51	0.55	75.12
Reach 1	20550	0p5_BU				1.33	418.50	367.25	369.40		369.56	0.003040	2.01	294.46	391.54	0.56	74.34
Reach 1	20550	0p5-CC-LC_BU				1.59	586.00	367.25	369.66		369.85	0.002901	2.22	418.19	590.55	0.56	70.05
Reach 1	20400	5_BU				0.94	310.30	366.84	368.57		368.76	0.005573	2.16	170.04	229.26	0.71	63.53
Reach 1	20400	1_BU				1.06	389.90	366.84	368.69		368.92	0.005727	2.37	201.35	261.35	0.74	63.13
Reach 1	20400	0p5_BU				1.09	418.50	366.84	368.73		368.97	0.005849	2.45	211.42	271.39	0.75	62.94
Reach 1	20400	0p5-CC-LC_BU				1.30	586.00	366.84	368.95	368.72	369.25	0.006356	2.87	283.90	409.15	0.80	63.18
Reach 1	20221	5_BU				0.92	310.30	365.65	368.05		368.09	0.001923	1.09	337.71	489.60	0.36	56.81
Reach 1	20221	1_BU				1.03	389.90	365.65	368.18		368.24	0.001938	1.18	410.20	586.67	0.37	56.33
Reach 1	20221	0p5_BU				1.07	418.50	365.65	368.23		368.29	0.001892	1.20	440.02	619.39	0.37	55.73
Reach 1	20221	0p5-CC-LC_BU				1.23	586.00	365.65	368.45		368.51	0.002027	1.32	587.78	789.86	0.38	53.17
Reach 1	19763	5_BU				0.88	310.30	364.71	366.74		366.84	0.004700	1.42	233.10	325.24	0.49	91.88
Reach 1	19763	1_BU				0.92	389.90	364.71	366.96		367.04	0.004118	1.32	324.20	498.94	0.44	87.38
Reach 1	19763	0p5_BU				0.91	418.50	364.71	367.04		367.12	0.004126	1.27	366.51	580.17	0.43	85.40
Reach 1	19763	0p5-CC-LC_BU				1.02	586.00	364.71	367.37		367.42	0.003218	1.13	591.54	807.79	0.36	76.08
Reach 1	19335	5_BU				1.36	310.30	363.23	365.58	364.87	365.68	0.001867	1.46	243.13	282.44	0.40	94.16
Reach 1	19335	1_BU				1.46	389.90	363.23	365.75	365.07	365.87	0.002153	1.58	300.24	371.89	0.42	91.92
Reach 1	19335	0p5_BU				1.50	418.50	363.23	365.81	365.11	365.93	0.002230	1.62	320.44	401.45	0.42	90.76
Reach 1	19335	0p5-CC-LC_BU				1.44	586.00	363.23	366.16	365.35	366.26	0.002973	1.55	521.54	753.62	0.41	78.73
Reach 1	19009	5_BU				0.63	310.30	362.65	364.84	364.42	364.92	0.002969	1.23	255.20	429.40	0.49	99.78
Reach 1	19009	1_BU				0.65	389.90	362.65	364.95	364.53	365.04	0.003042	1.29	309.07	513.72	0.51	99.45
Reach 1	19009	0p5_BU				0.67	418.50	362.65	364.99	364.57	365.08	0.003060	1.30	329.34	541.55	0.51	99.32
Reach 1	19009	0p5-CC-LC_BU				0.72	586.00	362.65	365.17	364.80	365.27	0.003240	1.39	441.54	695.71	0.52	98.37
Reach 1	18575	5_BU				0.75	310.30	361.28	363.95	363.15	363.97	0.001624	0.66	504.01	824.10	0.24	95.12
Reach 1	18575	1_BU				0.84	389.90	361.28	364.07	363.27	364.10	0.001568	0.69	613.36	943.42	0.24	93.30
Reach 1	18575	0p5_BU				0.86	418.50	361.28	364.12	363.31	364.14	0.001556	0.70	652.94	987.26	0.24	92.60
Reach 1	18575	0p5-CC-LC_BU				1.05	586.00	361.28	364.33	363.53	364.36	0.001419	0.75	881.66	1188.76	0.24	89.49
Reach 1	18123	5_BU	362.89	0.40	363.29	1.36	310.30	360.36	363.26	362.17	363.28	0.002060	0.66	643.96	847.19	0.18	46.32
Reach 1	18123	1_BU	363.05	0.40	363.45	1.51	389.90	360.36	363.42	362.31	363.43	0.002020	0.70	780.32	915.84	0.18	43.75
Reach 1	18123	0p5_BU	363.10	0.40	363.50	1.56	418.50	360.36	363.47	362.34	363.48	0.002007	0.71	826.49	946.47	0.18	42.87
Reach 1	18123	0p5-CC-LC_BU	363.35	0.40	363.75	1.81	586.00	360.36	363.72	362.56	363.74	0.002050	0.80	1088.91	1165.53	0.19	39.64
Reach 1	18000	5_BU	361.27	1.96	363.23	0.61	310.30	359.91	363.06	362.17	363.08	0.002620	0.42	620.95	801.10	0.17	6.06
Reach 1	18000	1_BU	361.33	2.07	363.39	0.66	389.90	359.91	363.22	362.26	363.23	0.002657	0.45	747.74	908.87	0.18	5.65
Reach 1	18000	0p5_BU	361.35	2.10	363.45	0.68	418.50	359.91	363.27	362.29	363.29	0.002647	0.45	792.22	947.33	0.18	5.47
Reach 1	18000	0p5-CC-LC_BU	361.38	2.33	363.71	0.71	586.00	359.91	363.52	362.43	363.53	0.002783	0.48	1029.08	1145.46	0.18	4.34
Reach 1	17900	5_BU	361.02	2.03	363.05	0.66	310.30	359.66	362.88	362.04	362.89	0.002797	0.77	568.61	838.18	0.30	11.99
Reach 1	17900	1_BU	361.10	2.11	363.21	0.71	389.90	359.66	363.04	362.16	363.05	0.002770	0.80	705.17	957.03	0.30	11.20
Reach 1	17900	0p5_BU	361.12	2.15	363.27	0.72	418.50	359.66	363.09	362.19	363.10	0.002886	0.82	749.77	1009.08	0.31	10.96
Reach 1	17900	0p5-CC-LC_BU	361.20	2.32	363.52	0.77	586.00	359.66	363.32	362.37	363.34	0.002971	0.87	993.00	1170.64	0.32	9.17
Reach 1	17850	5_BU	360.90	2.05	362.96	0.79	310.30	359.56	362.78	361.89	362.80	0.003308	0.58	606.99	884.06	0.21	10.18
Reach 1	17850	1_BU	360.99	2.14	363.12	0.84	389.90	359.56	362.95	362.01	362.96	0.003183	0.59	753.74	1025.23	0.21	9.23
Reach 1	17850	0p5_BU	361.00	2.18	363.18	0.84	418.50	359.56	362.99	362.05	363.01	0.003147	0.59	799.53	1061.39	0.21	8.69
Reach 1	17850	0p5-CC-LC_BU	361.09	2.34	363.43	0.86	586.00	359.56	363.23	362.26	363.25	0.003064	0.59	1049.97	1195.16	0.20	6.86
Reach 1	17800	5_BU	360.81	2.03	362.84	0.76	310.30	359.59	362.67	361.71	362.68	0.002002	0.44	723.16	935.86	0.16	8.22
Reach 1	17800	1_BU	360.90	2.11	363.01	0.84	389.90	359.59	362.83	361.81	362.84	0.002093	0.48	874.86	1037.11	0.17	8.03
Reach 1	17800	0p5_BU	360.91	2.14	363.06	0.86	418.50	359.59	362.88	361.85	362.89	0.002099	0.49	922.26	1065.07	0.17	7.69
Reach 1	17800	0p5-CC-LC_BU	361.00	2.30	363.31	0.93	586.00	359.59	363.11	362.01	363.13	0.002222	0.53	1173.76	1184.26	0.18	6.61
Reach 1	17750	5_BU	360.67	2.06	362.73	0.66	310.30	359.63	362.55	361.61	362.56	0.001919	0.64	719.96	969.09	0.25	9.86
Reach 1	17750	1_BU	360.76	2.13	362.89	0.75	389.90	359.63	362.71	361.75	362.72	0.001937	0.69	873.36	1045.66	0.26	9.70
Reach 1	17750	0p5_BU	360.77	2.17	362.94	0.76	418.50	359.63	362.76	361.78	362.77	0.001959	0.70	920.52	1064.17	0.26	9.28
Reach 1	17750	0p5-CC-LC_BU	360.87	2.32	363.19	0.84	586.00	359.63	362.99	361.94	363.01	0.001962	0.75	1165.65	1134.56	0.26	8.02
Reach 1	17700	5_BU	360.38	2.18	362.56	0.59	310.30	359.33	362.38	361.46	362.39	0.001660	0.34	781.48	1067.95	0.14	5.72
Reach 1	17700	1_BU	360.47	2.26	362.73	0.68	389.90	359.33	362.54	361.57	362.55	0.001672	0.37	942.62	1104.01	0.14	5.70
Reach 1	17700	0p5_BU	360.48	2.30	362.78	0.68	418.50	359.33	362.58	361.60	362.59	0.001684	0.38	988.52	1119.40	0.15	5.42
Reach 1	17700	0p5-CC-LC_BU	360.58	2.44	363.02	0.77	586.00	359.33	362.81	361.73	362.83	0.001714	0.41	1236.93	1171.12	0.15	4.88
Reach 1	17650	5_BU	359.46	2.56	362.02	0.19	310.30	359.01	361.80	361.03	361.82	0.003893	0.25	495.06	697.76	0.18	0.48
Reach 1	17650	1_BU	359.48	2.70	362.18	0.20	389.90	359.01	361.95	361.17	361.98	0.004003	0.25	604.62	805.71	0.18	0.44
Reach 1	17650	0p5_BU	359.48	2.75	362.23	0.20	418.50	359.01	362.00	361.21	362.02	0.004008	0.25	639.84	835.94	0.18	0.41
Reach 1	17650	0p5-CC-LC_BU	359.53	2.95	362.48	0.21	586.00	359.01	362.23	361.36	362.26	0.004016	0.26	845.10	982.87	0.18	0.39
Reach 1	17600	5_BU	359.18	2.46	361.64	0.16	310.30	358.88	361.44	360.72	361.47	0.006831	0.29	367.54	586.59	0.23	0.26
Reach 1	17600	1_BU	359.20	2.60	361.80	0.18	389.90	358.88	361.58	361.01	361.62	0.006763	0.30	455.94	643.23	0.23	0.25
Reach 1	17600	0p5_BU	359.21	2.64	361.85	0.18	418.50	358.88	361.63	361.04	361.67	0.006768	0.31	483.93	663.50	0.23	0.24
Reach 1	17600	0p5-CC-LC_BU	359.24	2.85	362.09	0.20	586.00	358.88	361.85	361.23	361.90	0.006998	0.34	641.62	765.89	0.24	0.23
Reach 1	17574	5_BU	359.19	2.12	361.32	0.25	310.30	358.84	361.14	360.72	361.21	0.012889	0.53	268.01	452.48	0.34	0.65
Reach 1	17574	1_BU	359.25	2.23	361.48	0.29	389.90	358.84	361.29	360.85	361.36	0.012525	0.58	341.14	505.65	0.34	0.69
Reach 1	17574	0p5_BU	359.26	2.27	361.53	0.30	418.50	358.84	361.34	360.92	361.41	0.012509	0.59	363.22	522.65	0.35	0.68
Reach 1	17574	0p5-CC-LC_BU	359.27	2.49	361.76	0.28	586.00	358.84	361.55	361.09	361.63	0.013161	0.58	480.11	629.26	0.35	0.49
Reach 1	17500	5_BU	360.47	0.40	360.87	0.66	310.30	358.91	360.84	360.24	360.88	0.002124	0.83	353.91	583.72	0.33	26.53
Reach 1	17500	1_BU	360.64	0.40	361.04	0.81	389.90	358.91	361.01	360.38	361.05	0.001996	0.92	467.63	718.96	0.33	29.63
Reach 1	17500	0p5_BU	360.70	0.40	361.10	0.86	418.50	358.91	361.06	360.42	361.10	0.001927	0.94	506.56	765.45	0.32	29.97
Reach 1	17500	0p5-CC-LC_BU	360.91	0.40	361.31	1.07	586.00	358.91	361.27	360.66	361.31	0.001916	1.07	681.41	894.09	0.33	30.50
Reach 1	17450	5_BU	360.41	0.40	360.81	0.85	310.30	359.04	360.78	360.12	360.82	0.002235	0.99	349.80	584.77	0.34	23.24
Reach 1	17450	1_BU	360.59	0.40	360.99	1.02	389.90	359.04	360.95	360.24	360.99	0.001971	1.05	463.73	706.77	0.33	23.66
Reach 1	17450	0p5_BU	360.64	0.40	361.04	1.07	418.50	359.04	361.01	360.28	361.05	0.001903	1.07	503.35	747.07	0.33	23.59
Reach 1	17450	0p5-CC-LC_BU	360.85	0.40	361.25	1.27	586.00	359.04	361.22	360.55	361.26	0.001925	1.20	673.42	875.66	0.34	22.73
Reach 1	17350	5_BU	359.75	0.40	360.15	0.68	310.30	358.05	360.12	360.03	360.50	0.013220	1.52	132.20	147.51	0.59	25.17
Reach 1	17350	1_BU	359.95	0.40	360.35	0.80	389.90	358.05	360.32	360.25	360.69	0.013023	1.70	164.09	188.69	0.61	29.30
Reach 1	17350	0p5_BU	360.01	0.40	360.41	0.82	418.50	358.05	360.38	360.33	360.75	0.012981	1.73	176.67	213.10	0.61	29.96
Reach 1	17350	0p5-CC-LC_BU	360.39	0.40	360.79	0.81	586.00	358.05	360.76	360.76	361.00	0.010432	1.59	310.14	539.47	0.56	31.12
Reach 1	17200	5_BU				0.90	310.30	357.76	359.56	359.23	359.81	0.006161	2.00	148.21	156.56	0.67	45.45
Reach 1	17200	1_BU				1.08	389.90	357.76	359.81	359.38	360.05	0.005085	2.04	191.80	197.05	0.63	47.81
Reach 1	17200	0p5_BU				1.15	418.50	357.76	359.88	359.48	360.13	0.004868	2.07	207.68	236.80	0.62	48.42
Reach 1	17200	0p5-CC-LC_BU				1.53	586.00	357.76	360.27	359.87	360.46	0.003839	2.20	356.12	541.25	0.57	49.03
Reach 1	17050	5_BU				2.08	310.30	356.29	359.31	358.29	359.46	0.001286	1.73	195.75	168.81	0.38	98.42
Reach 1	17050	1_BU				2.28	389.90	356.29	359.52	358.49	359.70	0.001441	1.93	244.64	284.64	0.41	96.30
Reach 1	17050	0p5_BU				2.34	418.50	356.29	359.59	358.56	359.78	0.001482	1.99	264.96	326.43	0.42	95.22
Reach 1	17050	0p5-CC-LC_BU				2.67	586.00	356.29	359.92	358.91	360.15	0.001595	2.25	408.12	557.30	0.44	87.84
Reach 1	16812	5_BU				1.29	310.30	354.74	358.79	358.37	359.00	0.003176	2.03	164.67	172.46	0.57	97.13
Reach 1	16812	1_BU				1.44	389.90	354.74	358.98	358.54	359.22	0.003193	2.21	199.14	203.94	0.59	96.17
Reach 1	16812	0p5_BU				1.50	418.50	354.74	359.04	358.59	359.29	0.003192	2.26	211.79	219.23	0.59	95.61
Reach 1	16812	0p5-CC-LC_BU				1.80	586.00	354.74	359.33	358.94	359.64	0.003263	2.55	288.64	290.27	0.61	92.15
Reach 1	16285	5_BU				1.29	310.30	354.72	357.31	356.83	357.47	0.002544	1.79	186.03	178.06	0.50	96.89
Reach 1	16285	1_BU				1.47	389.90	354.72	357.49	357.00	357.68	0.002533	1.95	219.80	195.26	0.51	95.47
Reach 1	16285	0p5_BU				1.53	418.50	354.72	357.55	357.05	357.75	0.002503	1.99	233.03	213.33	0.51	95.03
Reach 1	16285	0p5-CC-LC_BU				1.89	586.00	354.72	357.91	357.31	358.13	0.002260	2.18	330.56	349.48	0.51	91.31

HEC-RAS Plan: KR_Jam_17574 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	15937	5_BU				1.15	310.30	353.96	356.55	355.99	356.66	0.001993	1.48	213.08	196.51	0.44	99.64
Reach 1	15937	1_BU				1.32	389.90	353.96	356.79	356.15	356.91	0.001754	1.52	262.73	218.22	0.42	99.27
Reach 1	15937	0p5_BU				1.37	418.50	353.96	356.88	356.19	356.99	0.001694	1.53	282.03	231.75	0.42	99.11
Reach 1	15937	0p5-CC-LC_BU				1.53	586.00	353.96	357.31	356.41	357.43	0.001506	1.55	401.68	322.50	0.40	97.68
Reach 1	15657	5_BU				1.80	310.30	352.57	355.89	355.16	356.09	0.002009	2.00	156.62	94.77	0.48	99.89
Reach 1	15657	1_BU				1.98	389.90	352.57	356.08	355.35	356.34	0.002275	2.26	176.12	114.07	0.51	99.71
Reach 1	15657	0p5_BU				2.05	418.50	352.57	356.15	355.42	356.43	0.002331	2.34	184.40	123.76	0.52	99.58
Reach 1	15657	0p5-CC-LC_BU				2.33	586.00	352.57	356.43	355.77	356.84	0.002921	2.86	226.94	196.65	0.60	98.51
Reach 1	15073	5_BU				1.03	310.30	351.49	354.04	353.78	354.29	0.005298	2.22	139.94	136.15	0.70	100.00
Reach 1	15073	1_BU				1.17	389.90	351.49	354.31	353.94	354.55	0.004314	2.18	178.93	153.78	0.64	99.97
Reach 1	15073	0p5_BU				1.18	418.50	351.49	354.41	353.99	354.64	0.004107	2.15	195.11	165.66	0.63	99.95
Reach 1	15073	0p5-CC-LC_BU				1.50	586.00	351.49	354.93	354.28	355.14	0.002695	2.04	288.09	193.33	0.53	99.86
Reach 1	14797	5_BU				1.93	310.30	350.08	353.33	352.47	353.51	0.001652	1.88	164.99	85.46	0.43	100.00
Reach 1	14797	1_BU				2.20	389.90	350.08	353.63	352.66	353.85	0.001641	2.04	190.74	86.57	0.44	100.00
Reach 1	14797	0p5_BU				2.29	418.50	350.08	353.73	352.73	353.96	0.001638	2.10	199.49	86.94	0.44	100.00
Reach 1	14797	0p5-CC-LC_BU				2.79	586.00	350.08	354.27	353.09	354.56	0.001665	2.38	246.59	88.73	0.45	100.00
Reach 1	14088	5_BU				1.84	320.00	349.51	352.07	351.30	352.26	0.001887	1.96	163.20	156.19	0.46	99.97
Reach 1	14088	1_BU				2.02	403.00	349.51	352.25	351.51	352.51	0.002188	2.25	179.49	159.65	0.51	99.92
Reach 1	14088	0p5_BU				2.08	433.00	349.51	352.31	351.57	352.59	0.002293	2.35	184.87	161.17	0.52	99.90
Reach 1	14088	0p5-CC-LC_BU				2.38	606.20	349.51	352.61	351.92	353.03	0.002826	2.86	213.11	193.90	0.59	99.75
Reach 1	14004	5_BU				1.34	320.00	349.38	351.76	351.47	352.00	0.003720	2.24	154.58	406.98	0.62	92.14
Reach 1	14004	1_BU				1.49	403.00	349.38	351.91	351.64	352.20	0.003913	2.47	177.25	423.28	0.64	89.75
Reach 1	14004	0p5_BU				1.55	433.00	349.38	351.96	351.70	352.27	0.003966	2.54	185.01	430.68	0.65	89.02
Reach 1	14004	0p5-CC-LC_BU				1.83	606.20	349.38	352.25	351.96	352.64	0.004070	2.88	228.44	498.77	0.68	85.56
Reach 1	13755	5_BU				1.05	320.00	347.42	350.84	350.38	350.98	0.003002	1.70	188.76	474.85	0.53	64.78
Reach 1	13755	1_BU				1.24	403.00	347.42	351.03	350.54	351.19	0.002746	1.81	226.33	538.97	0.52	64.86
Reach 1	13755	0p5_BU				1.30	433.00	347.42	351.09	350.60	351.26	0.002685	1.85	239.27	563.02	0.52	64.75
Reach 1	13755	0p5-CC-LC_BU				1.55	606.20	347.42	351.35	350.85	351.56	0.002842	2.14	299.78	633.83	0.55	64.09
Reach 1	13404	5_BU				1.57	320.00	346.33	349.21	349.07	349.66	0.005546	3.02	115.39	194.73	0.77	94.39
Reach 1	13404	1_BU				1.74	403.00	346.33	349.40	349.33	349.91	0.005810	3.30	137.39	221.46	0.80	91.30
Reach 1	13404	0p5_BU				1.79	433.00	346.33	349.45	349.38	349.99	0.005889	3.39	145.42	228.79	0.81	90.21
Reach 1	13404	0p5-CC-LC_BU				2.16	606.20	346.33	349.83	349.83	350.36	0.004970	3.53	215.55	338.32	0.77	81.10
Reach 1	13209	5_BU				1.59	320.00	345.37	348.73	348.16	348.91	0.002341	1.98	180.57	298.16	0.50	85.41
Reach 1	13209	1_BU				1.81	403.00	345.37	348.95	348.37	349.15	0.002256	2.11	215.61	311.89	0.50	82.40
Reach 1	13209	0p5_BU				1.88	433.00	345.37	349.01	348.43	349.22	0.002251	2.16	226.31	313.19	0.50	81.27
Reach 1	13209	0p5-CC-LC_BU				2.20	606.20	345.37	349.34	348.74	349.60	0.002308	2.43	279.56	329.02	0.52	76.65
Reach 1	13100	5_BU				1.53	320.00	345.58	348.43	347.89	348.63	0.002530	2.01	167.58	550.93	0.52	98.07
Reach 1	13100	1_BU				1.77	403.00	345.58	348.67	348.07	348.89	0.002289	2.11	209.49	615.83	0.51	94.73
Reach 1	13100	0p5_BU				1.83	433.00	345.58	348.74	348.14	348.96	0.002283	2.16	221.36	629.43	0.51	93.59
Reach 1	13100	0p5-CC-LC_BU				2.15	606.20	345.58	349.06	348.54	349.33	0.002344	2.44	279.88	723.48	0.53	88.46
Reach 1	13000	5_BU				1.26	320.00	345.10	347.52	347.52	348.15	0.009954	3.51	91.13	184.47	1.00	100.00
Reach 1	13000	1_BU				1.10	403.00	345.10	347.92	347.92	348.45	0.009925	3.20	126.89	334.53	0.98	99.70
Reach 1	13000	0p5_BU				1.13	433.00	345.10	347.98	347.98	348.52	0.009856	3.26	134.58	348.55	0.98	99.52
Reach 1	13000	0p5-CC-LC_BU				1.39	606.20	345.10	348.30	348.30	348.91	0.008577	3.49	179.40	435.98	0.94	97.90
Reach 1	12950	5_BU				1.56	320.00	344.85	347.63	346.40	347.70	0.000835	1.17	272.75	503.53	0.30	100.00
Reach 1	12950	1_BU				1.66	403.00	344.85	347.80	346.56	347.89	0.000973	1.32	305.77	538.18	0.33	99.98
Reach 1	12950	0p5_BU				1.71	433.00	344.85	347.86	346.62	347.96	0.001003	1.37	317.47	549.79	0.33	99.94
Reach 1	12950	0p5-CC-LC_BU				1.96	606.20	344.85	348.13	346.89	348.27	0.001205	1.64	378.37	663.55	0.37	99.25
Reach 1	12887	5_BU				1.05	320.00	344.53	347.45	346.95	347.60	0.003024	1.71	188.96	348.90	0.53	99.38
Reach 1	12887	1_BU				1.12	403.00	344.53	347.61	347.12	347.78	0.003235	1.85	220.56	373.70	0.56	98.99
Reach 1	12887	0p5_BU				1.12	433.00	344.53	347.67	347.17	347.85	0.003372	1.88	232.13	386.49	0.57	98.84
Reach 1	12887	0p5-CC-LC_BU				1.30	606.20	344.53	347.91	347.47	348.14	0.003542	2.14	290.23	441.36	0.60	98.40
Reach 1	12850	5_BU				0.76	320.00	344.40	347.00	347.00	347.38	0.011768	2.72	117.56	295.82	1.00	100.00
Reach 1	12850	1_BU				0.80	403.00	344.40	347.16	347.16	347.56	0.011472	2.79	144.67	346.12	0.99	99.99
Reach 1	12850	0p5_BU				0.82	433.00	344.40	347.21	347.21	347.62	0.011356	2.81	154.13	358.77	0.99	99.99
Reach 1	12850	0p5-CC-LC_BU				1.09	606.20	344.40	347.72	347.45	347.98	0.005000	2.27	269.33	498.23	0.69	99.76
Reach 1	12800	5_BU				1.13	320.00	343.70	346.67	346.29	346.89	0.003993	2.07	154.86	251.95	0.62	99.97
Reach 1	12800	1_BU				1.28	403.00	343.70	347.03	346.45	347.20	0.002820	1.89	224.02	434.02	0.53	97.70
Reach 1	12800	0p5_BU				1.35	433.00	343.70	347.15	346.51	347.31	0.002411	1.81	257.43	471.65	0.50	96.01
Reach 1	12800	0p5-CC-LC_BU				1.75	606.20	343.70	347.71	346.89	347.83	0.001281	1.57	438.76	681.63	0.38	86.22
Reach 1	12735	5_BU				2.19	320.00	340.98	346.75	344.02	346.79	0.000263	0.82	402.63	365.39	0.18	98.81
Reach 1	12735	1_BU				2.47	403.00	340.98	347.09	344.27	347.12	0.000252	0.87	499.59	441.45	0.18	96.04
Reach 1	12735	0p5_BU				2.58	433.00	340.98	347.20	344.35	347.24	0.000243	0.89	536.95	473.84	0.18	94.89
Reach 1	12735	0p5-CC-LC_BU				3.12	606.20	340.98	347.73	344.85	347.78	0.000223	0.96	722.68	586.00	0.17	88.70
Reach 1	12700	5_BU				2.13	320.00	342.78	346.71	345.06	346.77	0.000501	1.12	324.08	394.09	0.24	90.32
Reach 1	12700	1_BU				2.41	403.00	342.78	347.05	345.27	347.11	0.000448	1.15	413.64	483.39	0.24	85.30
Reach 1	12700	0p5_BU				2.51	433.00	342.78	347.17	345.35	347.23	0.000421	1.14	448.20	502.05	0.23	83.11
Reach 1	12700	0p5-CC-LC_BU				3.04	606.20	342.78	347.70	345.79	347.76	0.000363	1.21	622.72	670.36	0.22	75.88
Reach 1	12650	5_BU				2.32	320.00	342.92	346.64	345.22	346.74	0.000753	1.45	252.50	325.79	0.30	87.31
Reach 1	12650	1_BU				2.63	403.00	342.92	346.97	345.47	347.07	0.000695	1.51	309.47	403.37	0.30	82.88
Reach 1	12650	0p5_BU				2.75	433.00	342.92	347.09	345.57	347.19	0.000691	1.55	332.99	441.04	0.30	82.55
Reach 1	12650	0p5-CC-LC_BU				3.28	606.20	342.92	347.62	346.15	347.73	0.000608	1.64	479.16	631.62	0.29	74.44
Reach 1	12600	5_BU				2.36	320.00	342.87	346.55	345.54	346.68	0.001093	1.76	208.72	234.29	0.37	73.79
Reach 1	12600	1_BU				2.61	403.00	342.87	346.88	345.81	347.02	0.001060	1.85	251.57	323.60	0.37	70.31
Reach 1	12600	0p5_BU				2.73	433.00	342.87	346.99	345.88	347.14	0.001026	1.87	269.15	380.40	0.36	69.28
Reach 1	12600	0p5-CC-LC_BU				3.26	606.20	342.87	347.53	346.23	347.68	0.000949	2.03	405.92	672.93	0.36	64.17
Reach 1	12550	5_BU				2.22	320.00	343.00	346.54	345.29	346.63	0.000725	1.38	273.46	527.51	0.30	81.65
Reach 1	12550	1_BU				2.56	403.00	343.00	346.88	345.65	346.96	0.000605	1.39	369.71	661.56	0.28	75.28
Reach 1	12550	0p5_BU				2.69	433.00	343.00	347.01	345.75	347.08	0.000549	1.37	412.02	715.94	0.27	72.24
Reach 1	12550	0p5-CC-LC_BU				3.24	606.20	343.00	347.56	346.12	347.63	0.000408	1.34	637.26	878.19	0.24	60.83
Reach 1	12500	5_BU				1.42	320.00	343.14	346.46	345.73	346.57	0.001454	1.46	229.44	387.16	0.39	98.48
Reach 1	12500	1_BU				1.75	403.00	343.14	346.81	345.90	346.92	0.001097	1.45	296.87	431.74	0.35	97.33
Reach 1	12500	0p5_BU				1.87	433.00	343.14	346.93	345.95	347.04	0.001007	1.46	326.27	500.79	0.34	97.19
Reach 1	12500	0p5-CC-LC_BU				2.43	606.20	343.14	347.49	346.20	347.59	0.000702	1.45	595.49	952.06	0.30	89.77
Reach 1	12436	5_BU				1.61	320.00	343.08	345.50	345.50	346.31	0.009314	3.97	81.44	159.70	1.00	99.85
Reach 1	12436	1_BU				1.92	403.00	343.08	345.82	345.82	346.69	0.008060	4.16	100.94	189.19	0.96	99.10
Reach 1	12436	0p5_BU				2.01	433.00	343.08	345.90	345.90	346.82	0.007976	4.26	106.77	192.24	0.96	98.80
Reach 1	12436	0p5-CC-LC_BU				2.73	606.20	343.08	346.62	346.62	347.43	0.004947	4.12	180.63	349.80	0.79	92.64
Reach 1	12300	5_BU				1.78	320.00	342.78	345.33	344.60	345.53	0.002035	2.00	179.61	385.48	0.48	96.16
Reach 1	12300	1_BU				1.99	403.00	342.78	345.56	344.84	345.79	0.002081	2.18	216.40	427.85	0.49	93.92
Reach 1	12300	0p5_BU				2.07	433.00	342.78	345.63	344.92	345.87	0.002104	2.24	228.89	446.49	0.50	93.18
Reach 1	12300	0p5-CC-LC_BU				2.41	606.20	342.78	345.97	345.33	346.28	0.002280	2.58	297.98	508.88	0.53	89.32
Reach 1	11788	5_BU				1.50	320.00	342.07	344.28	343.70	344.43	0.002150	1.82	189.03	494.22	0.48	86.94
Reach 1	11788	1_BU				1.62	403.00	342.07	344.49	343.86	344.66	0.002202	1.95	229.44	547.83	0.49	84.21
Reach 1	11788	0p5_BU				1.67	433.00	342.07	344.56	343.91	344.74	0.002202	1.99	244.34	563.24	0.49	83.35
Reach 1	11788	0p5-CC-LC_BU				2.00	606.20	342.07	344.92	344.21	345.12	0.002044	2.16	352.36	733.30	0.49	79.07
Reach 1	11514	5_BU				1.15	320.00	340.85	343.20	342.96	343.52	0.005754	2.52	128.50	248.30	0.75	99.68

HEC-RAS Plan: KR_Jam_17574 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	11514	1_BU				1.36	403.00	340.85	343.42	343.16	343.78	0.005136	2.66	154.38	314.65	0.73	99.50
Reach 1	11514	0p5_BU				1.45	433.00	340.85	343.51	343.22	343.87	0.004825	2.68	165.34	351.59	0.71	99.39
Reach 1	11514	0p5-CC-LC_BU				1.78	606.20	340.85	343.85	343.51	344.31	0.004636	3.01	212.99	435.24	0.72	98.71
Reach 1	11034	5_BU				1.76	320.00	338.63	342.19		342.31	0.001320	1.59	209.27	299.51	0.38	94.76
Reach 1	11034	1_BU				1.93	403.00	338.63	342.47		342.61	0.001325	1.69	251.35	377.96	0.39	93.19
Reach 1	11034	0p5_BU				1.98	433.00	338.63	342.56		342.71	0.001354	1.75	268.42	405.64	0.40	93.69
Reach 1	11034	0p5-CC-LC_BU				2.26	606.20	338.63	342.98		343.15	0.001355	1.90	360.09	514.44	0.40	89.06
Reach 1	10544	5_BU				1.58	320.00	337.82	341.05		341.33	0.003273	2.34	141.82	282.87	0.59	99.16
Reach 1	10544	1_BU				1.78	403.00	337.82	341.26		341.60	0.003387	2.57	172.41	350.27	0.62	98.37
Reach 1	10544	0p5_BU				1.84	433.00	337.82	341.34		341.69	0.003379	2.63	185.52	373.13	0.62	97.77
Reach 1	10544	0p5-CC-LC_BU				2.20	606.20	337.82	341.71	341.25	342.12	0.003315	2.93	271.67	504.87	0.63	93.42
Reach 1	9771	5_BU				1.38	320.00	336.80	339.07		339.22	0.002221	1.77	189.58	510.56	0.48	97.49
Reach 1	9771	1_BU				1.55	403.00	336.80	339.26		339.45	0.002237	1.92	223.17	623.30	0.49	96.22
Reach 1	9771	0p5_BU				1.60	433.00	336.80	339.32		339.51	0.002286	1.98	233.28	646.96	0.50	95.80
Reach 1	9771	0p5-CC-LC_BU				1.88	606.20	336.80	339.60		339.85	0.002519	2.31	288.66	741.62	0.54	93.50
Reach 1	8903	5_BU				1.72	320.00	333.65	336.76		337.04	0.003232	2.44	148.51	322.20	0.60	85.53
Reach 1	8903	1_BU				1.92	403.00	333.65	337.00		337.30	0.003173	2.61	184.71	433.04	0.60	82.48
Reach 1	8903	0p5_BU				1.98	433.00	333.65	337.08		337.38	0.003097	2.63	200.13	459.69	0.60	80.85
Reach 1	8903	0p5-CC-LC_BU				2.30	606.20	333.65	337.45		337.77	0.002871	2.80	281.96	539.53	0.59	73.03
Reach 1	8300	5_BU				1.67	320.00	332.67	335.37		335.54	0.001933	1.87	190.29	318.02	0.46	95.51
Reach 1	8300	1_BU				1.88	403.00	332.67	335.59		335.80	0.001993	2.05	228.56	385.20	0.48	94.26
Reach 1	8300	0p5_BU				1.95	433.00	332.67	335.67		335.89	0.002032	2.12	243.02	414.95	0.48	94.36
Reach 1	8300	0p5-CC-LC_BU				2.26	606.20	332.67	336.02		336.29	0.002172	2.42	337.32	603.59	0.51	90.96
Reach 1	7514	5_BU				1.32	320.00	330.29	332.85		333.20	0.005065	2.66	128.63	313.89	0.74	96.68
Reach 1	7514	1_BU				1.51	403.00	330.29	333.08		333.47	0.004723	2.82	154.62	334.68	0.73	96.09
Reach 1	7514	0p5_BU				1.60	433.00	330.29	333.17		333.57	0.004548	2.86	165.75	356.64	0.72	95.82
Reach 1	7514	0p5-CC-LC_BU				2.02	606.20	330.29	333.61	333.21	334.05	0.003875	3.03	252.49	501.78	0.68	92.72
Reach 1	6800	5_BU				2.02	320.00	327.67	330.75		330.99	0.002035	2.16	147.90	172.09	0.49	100.00
Reach 1	6800	1_BU				2.33	403.00	327.67	331.06		331.34	0.001996	2.35	171.92	243.05	0.49	99.91
Reach 1	6800	0p5_BU				2.41	433.00	327.67	331.15		331.45	0.002033	2.44	178.94	252.79	0.50	99.83
Reach 1	6800	0p5-CC-LC_BU				2.93	606.20	327.67	331.67		332.06	0.002055	2.79	221.65	291.32	0.52	99.07
Reach 1	6650	5_BU				1.60	320.00	327.66	330.43		330.64	0.002467	2.03	158.71	302.71	0.51	99.89
Reach 1	6650	1_BU				1.57	403.00	327.66	330.77		330.99	0.002542	2.05	199.90	354.43	0.52	99.73
Reach 1	6650	0p5_BU				1.69	433.00	327.66	330.89		331.10	0.002334	2.05	214.63	358.43	0.50	99.68
Reach 1	6650	0p5-CC-LC_BU				2.32	606.20	327.66	331.52		331.74	0.001561	2.08	301.19	407.70	0.44	99.31
Reach 1	6563	5_BU				1.40	320.00	327.63	330.23		330.41	0.002627	1.93	176.49	189.07	0.52	97.70
Reach 1	6563	1_BU				1.72	403.00	327.63	330.61		330.79	0.001910	1.89	227.44	208.58	0.46	97.52
Reach 1	6563	0p5_BU				1.85	433.00	327.63	330.74		330.91	0.001737	1.89	244.99	217.47	0.44	97.49
Reach 1	6563	0p5-CC-LC_BU				2.54	606.20	327.63	331.43		331.61	0.001173	1.92	341.61	284.75	0.38	97.24
Reach 1	6400	5_BU				2.29	320.00	325.72	329.86		330.05	0.001947	1.92	166.92	132.56	0.40	100.00
Reach 1	6400	1_BU				2.65	403.00	325.72	330.26		330.47	0.001901	2.06	196.05	146.94	0.40	100.00
Reach 1	6400	0p5_BU				2.77	433.00	325.72	330.39		330.61	0.001896	2.10	205.88	153.61	0.40	100.00
Reach 1	6400	0p5-CC-LC_BU				3.39	606.20	325.72	331.09		331.37	0.001858	2.35	258.58	287.63	0.41	100.00
Reach 1	6300	5_BU				2.38	320.00	325.66	329.61		329.86	0.001694	2.21	145.14	95.39	0.46	100.00
Reach 1	6300	1_BU				2.77	403.00	325.66	330.00		330.29	0.001625	2.39	169.14	102.40	0.46	99.95
Reach 1	6300	0p5_BU				2.89	433.00	325.66	330.12		330.43	0.001614	2.45	177.16	105.93	0.46	99.92
Reach 1	6300	0p5-CC-LC_BU				3.56	606.20	325.66	330.79		331.18	0.001569	2.78	222.80	173.04	0.47	99.49
Reach 1	6200	5_BU				2.36	320.00	325.60	329.47		329.68	0.001592	2.04	157.10	139.61	0.42	100.00
Reach 1	6200	1_BU				2.72	403.00	325.60	329.87		330.12	0.001557	2.19	183.94	158.25	0.42	100.00
Reach 1	6200	0p5_BU				2.85	433.00	325.60	330.00		330.26	0.001536	2.25	193.11	171.60	0.42	99.98
Reach 1	6200	0p5-CC-LC_BU				3.54	606.20	325.60	330.69		331.01	0.001451	2.52	248.46	264.26	0.43	99.50
Reach 1	6150	5_BU				2.57	320.00	325.56	329.35		329.60	0.001556	2.22	144.41	104.58	0.44	100.00
Reach 1	6150	1_BU				2.91	403.00	325.56	329.73		330.03	0.001591	2.43	165.98	108.70	0.45	100.00
Reach 1	6150	0p5_BU				3.03	433.00	325.56	329.86		330.17	0.001598	2.50	173.24	110.26	0.46	99.99
Reach 1	6150	0p5-CC-LC_BU				3.68	606.20	325.56	330.50		330.92	0.001635	2.88	212.09	130.38	0.48	99.77
Reach 1	6100	5_BU				2.48	320.00	325.53	329.25		329.52	0.001771	2.31	138.70	83.86	0.47	100.00
Reach 1	6100	1_BU				2.81	403.00	325.53	329.62		329.95	0.001798	2.52	159.92	95.73	0.48	100.00
Reach 1	6100	0p5_BU				2.93	433.00	325.53	329.75		330.09	0.001800	2.59	167.02	103.57	0.48	100.00
Reach 1	6100	0p5-CC-LC_BU				3.57	606.20	325.53	330.39		330.84	0.001821	2.98	204.72	173.34	0.50	99.88
Reach 1	6050	5_BU				2.52	320.00	325.50	329.18		329.43	0.001591	2.21	144.84	126.35	0.44	100.00
Reach 1	6050	1_BU				2.90	403.00	325.50	329.55		329.85	0.001582	2.42	167.03	135.47	0.45	99.95
Reach 1	6050	0p5_BU				3.02	433.00	325.50	329.68		330.00	0.001586	2.49	174.48	138.46	0.46	99.92
Reach 1	6050	0p5-CC-LC_BU				3.66	606.20	325.50	330.32		330.74	0.001626	2.87	213.65	153.50	0.48	99.68
Reach 1	6000	5_BU				2.45	320.00	325.48	329.06		329.34	0.001814	2.32	138.05	100.17	0.47	100.00
Reach 1	6000	1_BU				2.78	403.00	325.48	329.44		329.76	0.001928	2.53	159.14	127.11	0.48	100.00
Reach 1	6000	0p5_BU				2.90	433.00	325.48	329.56		329.90	0.001974	2.61	166.24	129.90	0.49	99.99
Reach 1	6000	0p5-CC-LC_BU				3.52	606.20	325.48	330.19		330.65	0.002059	2.99	203.93	147.08	0.51	99.82
Reach 1	5950	5_BU				2.38	320.00	325.47	328.93		329.24	0.002133	2.47	129.81	72.91	0.51	100.00
Reach 1	5950	1_BU				2.69	403.00	325.47	329.28		329.65	0.002283	2.70	149.50	87.64	0.52	100.00
Reach 1	5950	0p5_BU				2.81	433.00	325.47	329.40		329.79	0.002293	2.78	156.05	89.09	0.53	100.00
Reach 1	5950	0p5-CC-LC_BU				3.42	606.20	325.47	330.01		330.53	0.002322	3.19	191.29	103.34	0.55	99.90
Reach 1	5900	5_BU				2.34	320.00	325.42	328.83		329.13	0.002117	2.43	131.43	88.62	0.51	100.00
Reach 1	5900	1_BU				2.69	403.00	325.42	329.18		329.54	0.002107	2.66	151.51	113.13	0.52	99.98
Reach 1	5900	0p5_BU				2.81	433.00	325.42	329.30		329.68	0.002108	2.74	158.30	114.20	0.52	99.95
Reach 1	5900	0p5-CC-LC_BU				3.43	606.20	325.42	329.91		330.42	0.002127	3.14	194.50	124.30	0.54	99.71
Reach 1	5850	5_BU				2.21	320.00	325.40	328.54		328.98	0.003336	2.94	108.82	69.00	0.63	100.00
Reach 1	5850	1_BU				2.49	403.00	325.40	328.86		329.39	0.003472	3.24	124.38	73.42	0.66	100.00
Reach 1	5850	0p5_BU				2.59	433.00	325.40	328.96		329.53	0.003510	3.34	129.50	77.94	0.66	99.99
Reach 1	5850	0p5-CC-LC_BU				3.11	606.20	325.40	329.48		330.25	0.003735	3.90	156.20	110.07	0.71	99.89
Reach 1	5800	5_BU				2.17	320.00	325.36	328.42		328.81	0.003002	2.76	116.10	102.42	0.60	100.00
Reach 1	5800	1_BU				2.46	403.00	325.36	328.74		329.21	0.003064	3.02	133.40	111.65	0.62	100.00
Reach 1	5800	0p5_BU				2.55	433.00	325.36	328.85		329.34	0.003095	3.11	139.13	119.28	0.62	99.99
Reach 1	5800	0p5-CC-LC_BU				3.08	606.20	325.36	329.38		330.04	0.003221	3.60	169.15	158.82	0.66	99.94
Reach 1	5750	5_BU				2.12	320.00	325.34	328.25		328.65	0.003181	2.80	114.16	159.30	0.61	100.00
Reach 1	5750	1_BU				2.39	403.00	325.34	328.57		329.05	0.003270	3.07	131.16	168.35	0.63	100.00
Reach 1	5750	0p5_BU				2.49	433.00	325.34	328.67		329.18	0.003301	3.17	136.76	171.04	0.64	100.00
Reach 1	5750	0p5-CC-LC_BU				3.01	606.20	325.34	329.20		329.88	0.003400	3.65	166.79	193.07	0.67	99.87
Reach 1	5724	5_BU				2.16	320.00	325.30	328.22		328.56	0.002684	2.60	123.18	81.33	0.56	100.00
Reach 1	5724	1_BU				2.46	403.00	325.30	328.54		328.95	0.002717	2.85	141.55	111.38	0.58	99.99
Reach 1	5724	0p5_BU				2.56	433.00	325.30	328.64		329.08	0.002735	2.94	147.59	124.27	0.59	99.98
Reach 1	5724	0p5-CC-LC_BU				3.10	606.20	325.30	329.18		329.77	0.002825	3.39	179.66	172.58	0.61	99.85
Reach 1	5650	5_BU				2.10	320.00	325.13	327.97		328.35	0.003057	2.73	117.18	81.77	0.60	100.00
Reach 1	5650	1_BU				2.37	403.00	325.13	328.27		328.73	0.003157	3.00	134.28	85.55	0.62	100.00
Reach 1	5650	0p5_BU				2.47	433.00	325.13	328.37		328.86	0.003183	3.10	139.88	93.37	0.63	100.00
Reach 1	5650	0p5-CC-LC_BU				2.98	606.20	325.13	328.88		329.54	0.003342	3.59	169.41	135.41	0.66	99.88
Reach 1	5550	5_BU				1.98	320.00	324.87	327.59		328.01	0.003607	2.85	112.09	71.61	0.65	100.00
Reach 1	5550	1_BU				2.23	403.00	324.87	327.88		328.38	0.003749	3.14	128.17	86.49	0.67	100.00
Reach 1	5550	0p5_BU				2.32	433.00	324.87	327.97		328.50	0.003799	3.25	133.42	90.24	0.68	99.99

HEC-RAS Plan: KR_Jam_17574 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	5550	0p5-CC-LC_BU				2.76	606.20	324.87	328.41		329.15	0.004132	3.81	159.57	112.47	0.73	99.93
Reach 1	5400	5_BU				1.93	320.00	324.48	327.24		327.52	0.002514	2.34	136.52	109.54	0.54	100.00
Reach 1	5400	1_BU				2.17	403.00	324.48	327.53		327.87	0.002556	2.56	157.68	118.37	0.55	100.00
Reach 1	5400	0p5_BU				2.25	433.00	324.48	327.63		327.98	0.002574	2.63	164.68	121.11	0.56	100.00
Reach 1	5400	0p5-CC-LC_BU				2.68	606.20	324.48	328.10		328.57	0.002710	3.03	200.13	133.57	0.59	99.95
Reach 1	5200	5_BU				2.14	320.00	323.95	326.96		327.13	0.001346	1.84	174.18	147.28	0.40	100.00
Reach 1	5200	1_BU				2.38	403.00	323.95	327.24		327.45	0.001437	2.04	197.79	158.87	0.42	100.00
Reach 1	5200	0p5_BU				2.46	433.00	323.95	327.33		327.56	0.001473	2.11	205.48	161.95	0.43	100.00
Reach 1	5200	0p5-CC-LC_BU				2.86	606.20	323.95	327.79		328.10	0.001671	2.48	244.14	180.17	0.47	100.00
Reach 1	4950	5_BU				1.74	320.00	323.31	326.48		326.70	0.002239	2.06	167.42	179.76	0.50	98.31
Reach 1	4950	1_BU				1.86	403.00	323.31	326.74		326.99	0.002395	2.23	197.79	228.08	0.52	97.76
Reach 1	4950	0p5_BU				1.92	433.00	323.31	326.83		327.09	0.002417	2.29	208.52	243.88	0.53	97.61
Reach 1	4950	0p5-CC-LC_BU				2.33	606.20	323.31	327.28		327.61	0.002374	2.57	271.12	340.15	0.54	96.92
Reach 1	4694	5_BU				1.61	320.00	322.84	326.02		326.17	0.001753	1.73	191.54	371.95	0.44	99.55
Reach 1	4694	1_BU				1.89	403.00	322.84	326.30		326.47	0.001612	1.84	230.30	393.36	0.43	99.03
Reach 1	4694	0p5_BU				1.98	433.00	322.84	326.40		326.58	0.001574	1.88	243.58	397.53	0.43	98.85
Reach 1	4694	0p5-CC-LC_BU				2.48	606.20	322.84	326.90		327.11	0.001433	2.09	315.21	433.58	0.42	97.91
Reach 1	4150	5_BU				1.93	320.00	322.29	324.97		325.17	0.001922	1.99	160.79	187.71	0.46	100.00
Reach 1	4150	1_BU				2.15	403.00	322.29	325.20		325.46	0.002150	2.24	180.21	208.64	0.49	100.00
Reach 1	4150	0p5_BU				2.23	433.00	322.29	325.28		325.55	0.002239	2.32	186.43	221.04	0.50	100.00
Reach 1	4150	0p5-CC-LC_BU				2.59	606.20	322.29	325.65		326.05	0.002716	2.78	218.13	251.44	0.55	99.99
Reach 1	3843	5_BU				1.08	320.00	322.07	323.61	323.54	324.05	0.008683	2.95	108.45	175.59	0.91	100.00
Reach 1	3843	1_BU				1.29	403.00	322.07	323.84	323.71	324.32	0.007441	3.07	131.42	179.92	0.86	100.00
Reach 1	3843	0p5_BU				1.37	433.00	322.07	323.92		324.41	0.006974	3.09	140.13	181.35	0.84	99.99
Reach 1	3843	0p5-CC-LC_BU				1.82	606.20	322.07	324.41		324.93	0.005028	3.17	191.67	190.38	0.75	99.88
Reach 1	3700	5_BU				1.43	320.00	320.95	323.51		323.60	0.001117	1.28	250.48	236.57	0.34	100.00
Reach 1	3700	1_BU				1.73	403.00	320.95	323.81		323.90	0.000943	1.33	302.94	251.63	0.32	100.00
Reach 1	3700	0p5_BU				1.83	433.00	320.95	323.92		324.01	0.000895	1.35	321.25	260.23	0.32	100.00
Reach 1	3700	0p5-CC-LC_BU				2.40	606.20	320.95	324.48		324.59	0.000721	1.45	420.26	288.09	0.30	99.95
Reach 1	3600	5_BU				1.60	320.00	320.47	323.08		323.39	0.003779	2.49	138.75	171.33	0.63	98.27
Reach 1	3600	1_BU				1.90	403.00	320.47	323.38		323.72	0.003346	2.62	168.55	179.59	0.61	97.56
Reach 1	3600	0p5_BU				2.00	433.00	320.47	323.48		323.83	0.003239	2.67	178.79	182.01	0.60	97.37
Reach 1	3600	0p5-CC-LC_BU				2.53	606.20	320.47	324.01		324.43	0.002842	2.93	233.97	199.34	0.59	96.31
Reach 1	3500	5_BU				2.02	320.00	320.12	322.84		323.08	0.002241	2.18	149.01	144.00	0.49	99.80
Reach 1	3500	1_BU				2.32	403.00	320.12	323.15		323.43	0.002216	2.37	173.88	151.87	0.50	99.59
Reach 1	3500	0p5_BU				2.42	433.00	320.12	323.25		323.55	0.002210	2.44	182.62	155.28	0.50	99.49
Reach 1	3500	0p5-CC-LC_BU				2.95	606.20	320.12	323.78		324.17	0.002188	2.77	237.82	215.92	0.52	98.61
Reach 1	3450	5_BU				1.96	320.00	319.97	322.62		322.94	0.003189	2.55	140.03	170.62	0.58	96.55
Reach 1	3450	1_BU				2.24	403.00	319.97	322.94		323.30	0.003111	2.70	170.26	196.02	0.58	94.74
Reach 1	3450	0p5_BU				2.34	433.00	319.97	323.05		323.41	0.003095	2.75	180.66	205.57	0.58	94.17
Reach 1	3450	0p5-CC-LC_BU				2.87	606.20	319.97	323.60		324.04	0.002903	3.04	240.27	255.50	0.57	91.90
Reach 1	3400	5_BU				1.86	320.00	319.80	322.38		322.76	0.003795	2.75	116.90	78.31	0.64	99.97
Reach 1	3400	1_BU				2.10	403.00	319.80	322.65		323.11	0.003970	3.00	135.61	84.04	0.66	99.82
Reach 1	3400	0p5_BU				2.19	433.00	319.80	322.74		323.23	0.003983	3.09	142.01	85.47	0.67	99.75
Reach 1	3400	0p5-CC-LC_BU				2.67	606.20	319.80	323.22		323.85	0.003994	3.53	177.99	100.85	0.69	99.23
Reach 1	3350	5_BU				1.88	320.00	319.64	322.25		322.57	0.003199	2.53	128.75	92.65	0.59	99.49
Reach 1	3350	1_BU				2.14	403.00	319.64	322.52		322.91	0.003298	2.77	148.61	96.70	0.61	99.39
Reach 1	3350	0p5_BU				2.23	433.00	319.64	322.61		323.03	0.003325	2.85	155.59	97.68	0.61	99.30
Reach 1	3350	0p5-CC-LC_BU				2.69	606.20	319.64	323.11		323.64	0.003421	3.25	193.88	107.25	0.63	98.79
Reach 1	3300	5_BU				1.74	320.00	319.48	321.96		322.38	0.004342	2.87	121.38	98.84	0.70	98.22
Reach 1	3300	1_BU				1.98	403.00	319.48	322.24		322.72	0.004236	3.09	145.48	104.84	0.70	97.46
Reach 1	3300	0p5_BU				2.06	433.00	319.48	322.34		322.83	0.004198	3.16	154.07	107.06	0.70	97.22
Reach 1	3300	0p5-CC-LC_BU				2.55	606.20	319.48	322.86		323.45	0.003851	3.48	203.86	121.37	0.70	96.06
Reach 1	3275	5_BU				1.47	320.00	319.45	321.68	321.54	322.23	0.007153	3.29	97.17	147.83	0.87	100.00
Reach 1	3275	1_BU				1.71	403.00	319.45	321.95	321.77	322.57	0.007017	3.49	115.43	155.14	0.85	100.00
Reach 1	3275	0p5_BU				1.79	433.00	319.45	322.04		322.69	0.006939	3.56	121.71	157.82	0.85	100.00
Reach 1	3275	0p5-CC-LC_BU				2.26	606.20	319.45	322.56		323.32	0.006449	3.85	157.41	167.42	0.82	100.00
Reach 1	3250	5_BU				1.54	320.00	319.30	321.58		322.12	0.002874	3.24	98.77	123.23	0.83	100.00
Reach 1	3250	1_BU				1.79	403.00	319.30	321.85		322.46	0.002706	3.46	116.38	141.36	0.83	100.00
Reach 1	3250	0p5_BU				1.87	433.00	319.30	321.95		322.58	0.002659	3.54	122.43	144.71	0.83	100.00
Reach 1	3250	0p5-CC-LC_BU				2.34	606.20	319.30	322.45		323.22	0.002410	3.90	155.49	151.00	0.81	100.00
Reach 1	3150	5_BU				1.97	320.00	318.88	321.59		321.87	0.001096	2.35	136.08	104.96	0.54	100.00
Reach 1	3150	1_BU				2.21	403.00	318.88	321.87		322.21	0.001131	2.58	156.06	108.66	0.55	100.00
Reach 1	3150	0p5_BU				2.30	433.00	318.88	321.97		322.33	0.001140	2.66	162.96	109.94	0.56	100.00
Reach 1	3150	0p5-CC-LC_BU				2.83	606.20	318.88	322.50		322.97	0.001114	3.02	201.41	119.42	0.57	99.91
Reach 1	3037	5_BU				2.40	320.00	318.40	321.50		321.76	0.000852	2.26	144.36	81.27	0.46	99.56
Reach 1	3037	1_BU				2.67	403.00	318.40	321.77		322.09	0.000955	2.55	162.16	88.18	0.50	99.24
Reach 1	3037	0p5_BU				2.77	433.00	318.40	321.86		322.21	0.000987	2.64	168.33	91.25	0.51	99.12
Reach 1	3037	0p5-CC-LC_BU				3.26	606.20	318.40	322.35		322.84	0.001122	3.12	202.41	104.55	0.55	98.41
Reach 1	2965	5_BU				2.44	320.00	318.25	321.43	320.38	321.70	0.000798	2.27	141.01	57.82	0.46	100.00
Reach 1	2965	1_BU				2.66	403.00	318.25	321.68	320.65	322.02	0.000965	2.59	155.47	58.53	0.51	100.00
Reach 1	2965	0p5_BU				2.74	433.00	318.25	321.77	320.75	322.14	0.001019	2.70	160.40	58.76	0.52	100.00
Reach 1	2965	0p5-CC-LC_BU				3.18	606.20	318.25	322.21	321.21	322.75	0.001215	3.25	186.98	61.92	0.58	99.98
Reach 1	2946		Bridge														
Reach 1	2919	5_BU				3.35	320.00	317.23	321.47		321.60	0.000212	1.60	200.61	61.77	0.28	99.93
Reach 1	2919	1_BU				3.61	403.00	317.23	321.73		321.90	0.000263	1.87	216.55	62.76	0.31	99.86
Reach 1	2919	0p5_BU				3.70	433.00	317.23	321.81		322.01	0.000280	1.96	222.00	63.13	0.33	99.82
Reach 1	2919	0p5-CC-LC_BU				4.16	606.20	317.23	322.28		322.58	0.000368	2.43	251.87	65.06	0.38	99.56
Reach 1	2850	5_BU				2.57	320.00	318.15	321.36		321.56	0.000543	1.96	163.05	63.56	0.39	100.00
Reach 1	2850	1_BU				2.79	403.00	318.15	321.59		321.85	0.000651	2.27	177.64	64.72	0.43	99.99
Reach 1	2850	0p5_BU				2.86	433.00	318.15	321.66		321.95	0.000687	2.37	182.57	64.87	0.45	99.98
Reach 1	2850	0p5-CC-LC_BU				3.27	606.20	318.15	322.07		322.50	0.000865	2.91	209.02	67.68	0.51	99.90
Reach 1	2800	5_BU				2.23	320.00	317.92	321.34		321.53	0.000642	1.95	186.71	110.81	0.42	97.48
Reach 1	2800	1_BU				2.40	403.00	317.92	321.57		321.81	0.000725	2.20	213.00	114.44	0.45	96.61
Reach 1	2800	0p5_BU				2.47	433.00	317.92	321.65		321.91	0.000751	2.28	222.19	117.36	0.46	96.36
Reach 1	2800	0p5-CC-LC_BU				2.85	606.20	317.92	322.08		322.43	0.000843	2.68	277.17	137.53	0.51	95.16
Reach 1	2770	5_BU				2.07	320.00	317.84	321.29		321.50	0.000792	2.06	165.40	97.03	0.46	98.99
Reach 1	2770	1_BU				2.25	403.00	317.84	321.51		321.78	0.000907	2.33	187.13	99.11	0.50	98.47
Reach 1	2770	0p5_BU				2.32	433.00	317.84	321.58		321.88	0.000940	2.42	194.59	101.02	0.51	98.30
Reach 1	2770	0p5-CC-LC_BU				2.63	606.20	317.84	322.00		322.40	0.001076	2.83	238.00	117.28	0.56	97.44
Reach 1	2750	5_BU				1.91	320.00	318.03	321.25		321.48	0.000939	2.13	150.03	78.47	0.49	100.00
Reach 1	2750	1_BU				2.09	403.00	318.03	321.46		321.76	0.001073	2.42	166.68	79.72	0.53	100.00
Reach 1	2750	0p5_BU				2.15	433.00	318.03	321.53		321.85	0.001114	2.51	172.32	80.00	0.55	100.00
Reach 1	2750	0p5-CC-LC_BU				2.49	606.20	318.03	321.92		322.37	0.001287	2.98	203.85	86.28	0.60	99.99
Reach 1	2700	5_BU				1.68	320.00	318.39	321.21		321.43	0.001072	2.10	152.62	90.75	0.52	100.00
Reach 1	2700	1_BU				1.87	403.00	318.39	321.42		321.70	0.001161	2.34	171.97	92.86	0.55	100.00
Reach 1	2700	0p5_BU				1.94	433.00	318.39	321.49		321.79	0.001186	2.42	178.60	94.20	0.56	100.00

HEC-RAS Plan: KR_Jam_17574 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	2700	0p5-CC-LC_BU				2.34	606.20	318.39	321.89		322.29	0.001245	2.81	215.72	98.83	0.59	99.97
Reach 1	2666	5_BU				1.53	320.00	318.64	321.11		321.38	0.001479	2.31	138.40	90.37	0.60	100.00
Reach 1	2666	1_BU				1.72	403.00	318.64	321.31		321.65	0.001586	2.58	156.22	91.07	0.63	100.00
Reach 1	2666	0p5_BU				1.78	433.00	318.64	321.37		321.74	0.001618	2.67	162.30	91.28	0.64	100.00
Reach 1	2666	0p5-CC-LC_BU				2.14	606.20	318.64	321.76		322.24	0.001679	3.07	197.36	93.08	0.67	100.00
Reach 1	2650	5_BU				1.53	320.00	318.67	321.06		321.36	0.001610	2.41	133.00	94.44	0.62	99.94
Reach 1	2650	1_BU				1.71	403.00	318.67	321.24		321.62	0.001756	2.71	149.44	98.47	0.66	99.81
Reach 1	2650	0p5_BU				1.77	433.00	318.67	321.30		321.71	0.001799	2.81	155.04	99.35	0.67	99.76
Reach 1	2650	0p5-CC-LC_BU				2.13	606.20	318.67	321.66		322.20	0.001892	3.26	187.85	104.90	0.71	99.39
Reach 1	2600	5_BU				1.42	320.00	318.85	321.00		321.27	0.001619	2.31	138.88	129.85	0.62	99.97
Reach 1	2600	1_BU				1.60	403.00	318.85	321.18		321.52	0.001715	2.57	157.21	135.19	0.65	99.92
Reach 1	2600	0p5_BU				1.66	433.00	318.85	321.24		321.60	0.001742	2.65	163.50	136.29	0.66	99.90
Reach 1	2600	0p5-CC-LC_BU				2.04	606.20	318.85	321.62		322.09	0.001716	3.02	201.47	155.84	0.68	99.78
Reach 1	2563	5_BU				1.29	320.00	319.01	320.89		321.20	0.002065	2.44	131.10	102.05	0.69	100.00
Reach 1	2563	1_BU				1.46	403.00	319.01	321.07		321.44	0.002151	2.70	149.22	118.27	0.71	100.00
Reach 1	2563	0p5_BU				1.52	433.00	319.01	321.13		321.53	0.002172	2.78	155.52	122.83	0.72	100.00
Reach 1	2563	0p5-CC-LC_BU				1.91	606.20	319.01	321.54		322.02	0.001948	3.07	197.28	139.18	0.71	99.99
Reach 1	2550	5_BU				1.31	320.00	318.95	320.87		321.17	0.002010	2.43	131.47	127.32	0.68	100.00
Reach 1	2550	1_BU				1.48	403.00	318.95	321.04		321.42	0.002101	2.70	149.12	138.36	0.71	99.99
Reach 1	2550	0p5_BU				1.54	433.00	318.95	321.10		321.50	0.002126	2.79	155.19	142.01	0.72	99.98
Reach 1	2550	0p5-CC-LC_BU				1.95	606.20	318.95	321.51		321.99	0.001914	3.09	196.56	167.31	0.71	99.85
Reach 1	2500	5_BU				1.32	320.00	318.86	320.77		321.07	0.001957	2.42	133.30	104.85	0.67	99.32
Reach 1	2500	1_BU				1.49	403.00	318.86	320.94		321.31	0.002062	2.69	151.14	107.71	0.70	99.03
Reach 1	2500	0p5_BU				1.55	433.00	318.86	321.00		321.39	0.002088	2.78	157.34	109.91	0.71	98.94
Reach 1	2500	0p5-CC-LC_BU				1.98	606.20	318.86	321.43		321.89	0.001792	3.03	202.81	149.69	0.69	98.32
Reach 1	2464	5_BU				1.24	328.00	318.82	320.67		320.99	0.002313	2.51	130.68	110.84	0.72	100.00
Reach 1	2464	1_BU				1.37	413.80	318.82	320.81		321.22	0.002572	2.84	145.77	116.59	0.77	99.99
Reach 1	2464	0p5_BU				1.42	445.00	318.82	320.86		321.30	0.002671	2.96	150.64	116.89	0.79	99.98
Reach 1	2464	0p5-CC-LC_BU				1.89	623.00	318.82	321.34		321.82	0.001970	3.07	203.43	135.25	0.71	99.87
Reach 1	2400	5_BU				1.14	328.00	318.95	320.55		320.83	0.002306	2.33	141.19	126.37	0.70	99.99
Reach 1	2400	1_BU				1.27	413.80	318.95	320.69		321.04	0.002575	2.62	158.57	128.45	0.74	99.94
Reach 1	2400	0p5_BU				1.31	445.00	318.95	320.73		321.11	0.002682	2.72	164.09	129.28	0.76	99.93
Reach 1	2400	0p5-CC-LC_BU				1.91	623.00	318.95	321.33		321.67	0.001575	2.60	254.36	196.55	0.60	99.07
Reach 1	2369	5_BU				0.89	328.00	318.74	320.39	320.30	320.73	0.004225	2.59	127.60	151.30	0.88	99.93
Reach 1	2369	1_BU				1.07	413.80	318.74	320.57	320.45	320.94	0.003674	2.70	155.79	154.57	0.83	99.74
Reach 1	2369	0p5_BU				1.12	445.00	318.74	320.62	320.50	321.01	0.003663	2.77	163.62	155.96	0.84	99.68
Reach 1	2369	0p5-CC-LC_BU				1.83	623.00	318.74	321.33		321.60	0.001444	2.35	288.26	232.45	0.55	98.29
Reach 1	2350	5_BU				1.05	328.00	318.43	320.41		320.64	0.002315	2.13	160.16	160.38	0.66	98.83
Reach 1	2350	1_BU				1.14	413.80	318.43	320.60		320.85	0.002258	2.25	192.84	177.23	0.67	98.50
Reach 1	2350	0p5_BU				1.20	445.00	318.43	320.65		320.92	0.002244	2.30	202.65	177.99	0.67	98.42
Reach 1	2350	0p5-CC-LC_BU				1.90	623.00	318.43	321.36		321.56	0.000959	1.99	353.43	293.10	0.46	96.83
Reach 1	2300	5_BU				1.07	328.00	317.71	320.35		320.51	0.001803	1.78	190.75	187.27	0.55	98.75
Reach 1	2300	1_BU				1.27	413.80	317.71	320.56		320.74	0.001575	1.88	229.25	189.69	0.53	98.52
Reach 1	2300	0p5_BU				1.32	445.00	317.71	320.61		320.80	0.001565	1.94	240.20	190.41	0.54	98.46
Reach 1	2300	0p5-CC-LC_BU				2.06	623.00	317.71	321.36		321.50	0.000662	1.71	414.82	331.33	0.38	97.12
Reach 1	2254	5_BU				1.04	328.00	317.67	319.85	319.85	320.34	0.006168	3.11	109.28	153.24	0.98	99.31
Reach 1	2254	1_BU				1.09	413.80	317.67	320.05	320.05	320.57	0.006361	3.23	134.33	170.39	0.99	98.65
Reach 1	2254	0p5_BU				1.16	445.00	317.67	320.19	320.11	320.65	0.005326	3.06	153.80	180.77	0.91	98.20
Reach 1	2254	0p5-CC-LC_BU				1.90	623.00	317.67	321.30		321.46	0.000982	1.87	416.87	429.81	0.43	93.75
Reach 1	2200	5_BU				0.98	328.00	317.45	319.53	319.54	320.04	0.004941	3.16	103.90	107.93	1.02	99.98
Reach 1	2200	1_BU				1.19	413.80	317.45	319.79	319.72	320.29	0.003839	3.14	132.83	114.78	0.92	99.89
Reach 1	2200	0p5_BU				1.42	445.00	317.45	320.06		320.44	0.002362	2.74	164.60	137.26	0.74	99.78
Reach 1	2200	0p5-CC-LC_BU				1.90	623.00	317.45	321.28		321.41	0.000590	1.64	485.88	444.60	0.38	93.84
Reach 1	2168	5_BU				0.81	328.00	317.62	319.29	319.38	319.85	0.007107	3.32	99.35	130.50	1.18	99.92
Reach 1	2168	1_BU				1.28	413.80	317.62	319.84		320.14	0.002056	2.42	174.00	160.21	0.68	99.56
Reach 1	2168	0p5_BU				1.47	445.00	317.62	320.11		320.34	0.001340	2.14	216.35	200.89	0.56	99.04
Reach 1	2168	0p5-CC-LC_BU				1.95	623.00	317.62	321.30		321.38	0.000323	1.27	622.21	489.61	0.29	91.69
Reach 1	2054	5_BU				1.17	328.00	317.47	319.42	318.95	319.54	0.000992	1.58	215.17	209.07	0.47	93.24
Reach 1	2054	1_BU				1.60	413.80	317.47	319.89		319.98	0.000491	1.37	322.08	246.15	0.35	90.06
Reach 1	2054	0p5_BU				1.83	445.00	317.47	320.15		320.23	0.000330	1.23	389.00	264.65	0.29	87.60
Reach 1	2054	0p5-CC-LC_BU				2.53	623.00	317.47	321.32		321.35	0.000103	0.85	813.50	414.77	0.17	77.51
Reach 1	1884	5_BU				1.76	328.00	315.75	319.08		319.34	0.001167	2.25	148.18	94.59	0.54	99.08
Reach 1	1884	1_BU				2.40	413.80	315.75	319.72		319.89	0.000540	1.88	260.50	212.16	0.39	89.42
Reach 1	1884	0p5_BU				2.72	445.00	315.75	320.05		320.17	0.000356	1.66	333.78	253.74	0.32	83.28
Reach 1	1884	0p5-CC-LC_BU				3.96	623.00	315.75	321.28		321.33	0.000105	1.16	740.48	366.60	0.19	60.50
Reach 1	1760	5_BU				2.29	328.00	315.68	318.93		319.21	0.000959	2.42	151.26	122.64	0.51	94.78
Reach 1	1760	1_BU				2.92	413.80	315.68	319.68		319.83	0.000421	1.88	284.81	212.77	0.35	78.47
Reach 1	1760	0p5_BU				3.26	445.00	315.68	320.02		320.13	0.000278	1.64	362.94	245.81	0.29	71.14
Reach 1	1760	0p5-CC-LC_BU				4.50	623.00	315.68	321.27		321.32	0.000104	1.25	682.98	271.53	0.19	53.45
Reach 1	1639	5_BU				2.24	328.00	314.98	318.93	317.49	319.09	0.000545	1.79	186.85	121.18	0.38	99.54
Reach 1	1639	1_BU				2.96	413.80	314.98	319.65	317.99	319.78	0.000326	1.67	269.30	147.29	0.31	97.18
Reach 1	1639	0p5_BU				3.28	445.00	314.98	319.97	318.08	320.10	0.000258	1.59	313.41	166.63	0.28	95.72
Reach 1	1639	0p5-CC-LC_BU				4.51	623.00	314.98	321.20	318.49	321.30	0.000154	1.52	490.86	219.49	0.23	89.66
Reach 1	1548	5_BU				2.66	328.00	314.79	318.87	317.38	319.04	0.000464	1.85	177.21	83.95	0.36	100.00
Reach 1	1548	1_BU				3.29	413.80	314.79	319.58	317.65	319.75	0.000347	1.84	225.25	98.13	0.32	99.99
Reach 1	1548	0p5_BU				3.61	445.00	314.79	319.90	317.77	320.07	0.000293	1.80	247.96	105.87	0.30	99.95
Reach 1	1548	0p5-CC-LC_BU				4.81	623.00	314.79	321.10	318.24	321.28	0.000218	1.88	338.07	175.40	0.27	99.30
Reach 1	1460	5_BU				2.02	328.00	316.31	318.84	317.89	318.99	0.000559	1.70	213.79	178.90	0.38	96.38
Reach 1	1460	1_BU				2.77	413.80	316.31	319.59	318.08	319.70	0.000289	1.51	322.14	248.68	0.29	93.03
Reach 1	1460	0p5_BU				3.11	445.00	316.31	319.93	318.15	320.02	0.000218	1.42	376.16	266.33	0.26	90.90
Reach 1	1460	0p5-CC-LC_BU				4.33	623.00	316.31	321.16	318.49	321.24	0.000120	1.31	591.46	313.61	0.20	83.90
Reach 1	1371	5_BU				1.85	328.00	315.74	318.81	317.86	318.91	0.000970	1.45	253.27	172.05	0.34	92.50
Reach 1	1371	1_BU				2.63	413.80	315.74	319.59	318.02	319.66	0.000446	1.22	407.50	220.75	0.24	87.72
Reach 1	1371	0p5_BU				2.97	445.00	315.74	319.93	318.08	319.99	0.000319	1.11	483.76	231.38	0.21	84.10
Reach 1	1371	0p5-CC-LC_BU				4.21	623.00	315.74	321.17	318.38	321.21	0.000156	0.97	785.64	341.16	0.15	74.18
Reach 1	1226	5_BU				2.20	328.00	315.18	318.65	317.48	318.77	0.000940	1.58	224.47	124.53	0.34	96.91
Reach 1	1226	1_BU				3.06	413.80	315.18	319.50	317.71	319.59	0.000475	1.37	381.73	218.03	0.25	92.52
Reach 1	1226	0p5_BU				3.42	445.00	315.18	319.86	317.78	319.94	0.000353	1.27	463.56	228.92	0.22	89.01
Reach 1	1226	0p5-CC-LC_BU				4.69	623.00	315.18	321.13	318.14	321.18	0.000193	1.14	770.17	329.62	0.17	78.60
Reach 1	1171	5_BU				2.44	328.00	314.92	318.63	317.20	318.72	0.000593	1.34	302.91	192.44	0.27	92.28
Reach 1	1171	1_BU				3.31	413.80	314.92	319.50	317.44	319.56	0.000296	1.14	501.93	271.23	0.20	84.71
Reach 1	1171	0p5_BU				3.67	445.00	314.92	319.86	317.51	319.91	0.000231	1.08	601.45	278.50	0.18	82.42
Reach 1	1171	0p5-CC-LC_BU				4.94	623.00	314.92	321.13	317.89	321.17	0.000126	0.96	1001.73	369.12	0.14	70.90
Reach 1	1060	5_BU				2.97	328.00	314.65	318.60	316.72	318.66	0.000356	1.17	348.30	210.07	0.22	93.21
Reach 1	1060	1_BU				3.85	413.80	314.65	319.48	316.92	319.53	0.000197	1.04	572.12	330.75	0.17	85.08
Reach 1	1060	0p5_BU				4.22	445.00	314.65	319.85	316.99	319.89	0.000154	0.97	696.52	341.21	0.15	81.43
Reach 1	1060	0p5-CC-LC_BU				5.50	623.00	314.65	321.12	317.35	321.16	0.000093	0.90	1135.77	347.36	0.12	70.10

HEC-RAS Plan: KR_Jam_17574 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	964	5_BU				2.76	328.00	314.83	318.59	316.49	318.63	0.000229	0.89	445.60	284.73	0.17	94.36
Reach 1	964	1_BU				3.66	413.80	314.83	319.48	316.71	319.51	0.000121	0.78	719.47	317.08	0.13	86.67
Reach 1	964	0p5_BU				4.03	445.00	314.83	319.85	316.78	319.87	0.000095	0.74	837.53	326.13	0.12	83.84
Reach 1	964	0p5-CC-LC_BU				5.30	623.00	314.83	321.12	317.15	321.15	0.000062	0.72	1266.49	375.70	0.10	76.63
Reach 1	856	5_BU				2.74	328.00	314.15	318.58	316.32	318.60	0.000164	0.75	563.50	317.43	0.14	86.98
Reach 1	856	1_BU				3.65	413.80	314.15	319.48	316.51	319.50	0.000088	0.66	865.55	387.73	0.11	81.32
Reach 1	856	0p5_BU				4.01	445.00	314.15	319.85	316.58	319.86	0.000070	0.63	993.31	392.91	0.10	78.84
Reach 1	856	0p5-CC-LC_BU				5.29	623.00	314.15	321.12	316.90	321.14	0.000046	0.62	1443.68	438.41	0.09	72.84
Reach 1	746	5_BU				3.12	328.00	313.89	318.57	316.13	318.59	0.000082	0.58	716.97	434.89	0.10	92.69
Reach 1	746	1_BU				4.02	413.80	313.89	319.48	316.27	319.49	0.000046	0.51	1118.86	566.57	0.08	84.21
Reach 1	746	0p5_BU				4.39	445.00	313.89	319.85	316.31	319.86	0.000037	0.49	1288.74	601.50	0.07	81.46
Reach 1	746	0p5-CC-LC_BU				5.67	623.00	313.89	321.12	316.55	321.13	0.000026	0.48	1892.63	664.17	0.06	74.24
Reach 1	638	5_BU				3.16	328.00	313.68	318.57	315.88	318.58	0.000060	0.50	773.57	484.53	0.09	95.79
Reach 1	638	1_BU				4.07	413.80	313.68	319.47	316.05	319.48	0.000035	0.45	1245.00	705.98	0.07	88.42
Reach 1	638	0p5_BU				4.44	445.00	313.68	319.84	316.11	319.85	0.000028	0.43	1450.27	759.64	0.07	85.75
Reach 1	638	0p5-CC-LC_BU				5.72	623.00	313.68	321.12	316.40	321.13	0.000019	0.42	2180.02	873.57	0.06	77.42

HEC-RAS Plan: KR_Jam_20600 River: Klondike River Reach: Reach 1

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	58149	5_BU				0.60	211.80	457.19	459.11	458.78	459.18	0.003960	1.28	176.98	311.40	0.53	69.92
Reach 1	58149	1_BU				0.62	258.70	457.19	459.21	458.88	459.29	0.003968	1.31	209.35	358.41	0.53	68.61
Reach 1	58149	0p5_BU				0.63	274.10	457.19	459.23	458.92	459.31	0.003967	1.34	218.21	365.59	0.54	68.59
Reach 1	58149	0p5-CC-LC_BU				0.78	383.70	457.19	459.40	459.08	459.50	0.003748	1.50	283.35	422.35	0.54	69.68
Reach 1	57145	5_BU				1.56	211.80	454.28	457.10		457.15	0.001219	1.40	307.38	553.20	0.36	51.15
Reach 1	57145	1_BU				1.67	258.70	454.28	457.21		457.26	0.001207	1.46	371.49	616.50	0.36	46.72
Reach 1	57145	0p5_BU				1.70	274.10	454.28	457.24		457.30	0.001201	1.48	392.42	637.56	0.36	45.45
Reach 1	57145	0p5-CC-LC_BU				1.89	383.70	454.28	457.43	456.97	457.49	0.001229	1.60	523.14	758.51	0.37	39.14
Reach 1	56479	5_BU				1.05	240.10	453.12	455.47	455.09	455.51	0.005101	1.12	306.13	656.22	0.35	32.50
Reach 1	56479	1_BU				1.11	296.00	453.12	455.54	455.20	455.58	0.005627	1.22	349.22	708.62	0.37	30.50
Reach 1	56479	0p5_BU				1.13	314.90	453.12	455.55	455.23	455.60	0.005788	1.26	362.46	723.99	0.38	29.88
Reach 1	56479	0p5-CC-LC_BU				1.25	440.90	453.12	455.68	455.34	455.74	0.006242	1.40	463.40	836.79	0.40	26.46
Reach 1	56103	5_BU				1.35	240.10	452.81	454.88	454.59	454.92	0.001233	1.30	480.43	1110.99	0.36	43.21
Reach 1	56103	1_BU				1.48	296.00	452.81	455.00	454.65	455.04	0.001075	1.28	619.04	1250.15	0.34	37.86
Reach 1	56103	0p5_BU				1.51	314.90	452.81	455.04	454.68	455.07	0.001035	1.28	660.65	1276.27	0.33	36.31
Reach 1	56103	0p5-CC-LC_BU				1.72	440.90	452.81	455.25	454.80	455.28	0.000857	1.27	929.03	1384.61	0.31	29.36
Reach 1	54315	5_BU				1.45	240.10	449.60	451.73	451.23	451.91	0.002405	2.04	149.24	151.29	0.54	82.29
Reach 1	54315	1_BU				1.56	296.00	449.60	451.85	451.42	452.08	0.002828	2.28	169.94	189.14	0.58	80.99
Reach 1	54315	0p5_BU				1.60	314.90	449.60	451.89	451.48	452.13	0.002970	2.36	177.13	201.14	0.60	80.66
Reach 1	54315	0p5-CC-LC_BU				1.79	440.90	449.60	452.08	451.78	452.41	0.003875	2.83	223.56	333.53	0.68	77.50
Reach 1	53429	5_BU				1.05	240.10	446.75	449.04	448.76	449.17	0.004087	1.81	160.79	290.59	0.56	64.39
Reach 1	53429	1_BU				1.23	296.00	446.75	449.22	448.87	449.34	0.003287	1.78	219.19	358.12	0.51	60.40
Reach 1	53429	0p5_BU				1.28	314.90	446.75	449.27	448.91	449.39	0.003094	1.78	239.73	373.58	0.50	59.14
Reach 1	53429	0p5-CC-LC_BU				1.57	440.90	446.75	449.61	449.12	449.71	0.002282	1.71	378.63	448.34	0.44	51.57
Reach 1	52840	5_BU				1.89	240.10	445.50	448.33		448.40	0.000706	1.22	225.51	161.57	0.28	91.14
Reach 1	52840	1_BU				2.09	296.00	445.50	448.53		448.61	0.000743	1.34	258.72	170.72	0.30	89.43
Reach 1	52840	0p5_BU				2.15	314.90	445.50	448.59		448.67	0.000755	1.38	269.27	175.04	0.30	88.94
Reach 1	52840	0p5-CC-LC_BU				2.49	440.90	445.50	448.93		449.05	0.000850	1.61	332.21	197.46	0.33	86.24
Reach 1	52279	5_BU				1.55	240.10	445.07	447.57		447.74	0.002219	1.90	140.01	174.63	0.49	97.07
Reach 1	52279	1_BU				1.71	296.00	445.07	447.73		447.93	0.002266	2.05	171.53	236.34	0.50	93.97
Reach 1	52279	0p5_BU				1.76	314.90	445.07	447.78		447.99	0.002290	2.10	182.03	249.32	0.51	92.95
Reach 1	52279	0p5-CC-LC_BU				2.03	440.90	445.07	448.05		448.29	0.002398	2.36	259.18	435.16	0.53	86.14
Reach 1	50899	5_BU				1.15	290.80	441.51	444.17		444.28	0.002637	1.69	262.99	378.00	0.50	75.78
Reach 1	50899	1_BU				1.25	363.60	441.51	444.31		444.43	0.002606	1.77	317.75	413.08	0.51	71.67
Reach 1	50899	0p5_BU				1.29	389.40	441.51	444.35		444.47	0.002582	1.81	336.60	423.60	0.51	70.54
Reach 1	50899	0p5-CC-LC_BU				1.50	545.10	441.51	444.60		444.73	0.002497	1.97	452.29	539.39	0.51	65.49
Reach 1	50334	5_BU				1.02	290.80	440.40	442.61		442.73	0.002914	1.65	216.07	310.43	0.52	89.27
Reach 1	50334	1_BU				1.14	363.60	440.40	442.73		442.88	0.002951	1.79	257.36	333.37	0.53	87.44
Reach 1	50334	0p5_BU				1.18	389.40	440.40	442.77		442.93	0.002979	1.84	271.26	347.22	0.54	86.94
Reach 1	50334	0p5-CC-LC_BU				1.41	545.10	440.40	443.00		443.19	0.003073	2.10	356.59	431.66	0.56	84.15
Reach 1	49973	5_BU				0.95	290.80	439.55	441.75	441.29	441.84	0.002227	1.37	233.64	298.17	0.45	92.65
Reach 1	49973	1_BU				1.06	363.60	439.55	441.89	441.47	441.99	0.002209	1.47	275.80	315.71	0.46	91.24
Reach 1	49973	0p5_BU				1.11	389.40	439.55	441.93	441.50	442.04	0.002190	1.51	289.92	320.11	0.46	90.82
Reach 1	49973	0p5-CC-LC_BU				1.35	545.10	439.55	442.17	441.67	442.30	0.002137	1.70	371.89	372.72	0.47	88.82
Reach 1	49383	5_BU				1.08	290.80	437.54	440.17		440.29	0.002869	1.69	199.86	221.20	0.52	73.70
Reach 1	49383	1_BU				1.22	363.60	437.54	440.35		440.48	0.002705	1.78	241.99	244.73	0.51	72.61
Reach 1	49383	0p5_BU				1.25	389.40	437.54	440.41		440.55	0.002671	1.80	257.13	255.51	0.51	72.07
Reach 1	49383	0p5-CC-LC_BU				1.47	545.10	437.54	440.73		440.88	0.002472	1.92	355.69	365.82	0.51	69.86
Reach 1	49175	5_BU				1.05	290.80	437.30	439.65		439.78	0.001867	1.56	187.04	181.06	0.48	99.97
Reach 1	49175	1_BU				1.14	363.60	437.30	439.86		439.99	0.001806	1.61	226.96	208.03	0.48	99.86
Reach 1	49175	0p5_BU				1.17	389.40	437.30	439.93		440.06	0.001806	1.63	240.54	220.70	0.48	99.82
Reach 1	49175	0p5-CC-LC_BU				1.45	545.10	437.30	440.27		440.42	0.001764	1.74	324.90	263.71	0.46	99.05
Reach 1	49000	5_BU				1.18	290.80	436.74	439.25		439.40	0.002557	1.69	178.29	167.36	0.50	97.96
Reach 1	49000	1_BU				1.28	363.60	436.74	439.48		439.63	0.002432	1.75	219.88	196.73	0.49	97.18
Reach 1	49000	0p5_BU				1.33	389.40	436.74	439.55		439.70	0.002354	1.77	233.67	201.66	0.49	96.85
Reach 1	49000	0p5-CC-LC_BU				1.66	545.10	436.74	439.92		440.09	0.002001	1.89	315.20	239.18	0.47	95.08
Reach 1	48700	5_BU				1.35	290.80	435.90	438.75		438.85	0.001302	1.42	205.87	172.61	0.39	99.96
Reach 1	48700	1_BU				1.58	363.60	435.90	438.98		439.09	0.001309	1.51	241.68	181.33	0.38	99.84
Reach 1	48700	0p5_BU				1.65	389.40	435.90	439.05		439.17	0.001316	1.55	253.42	187.02	0.38	99.78
Reach 1	48700	0p5-CC-LC_BU				2.04	545.10	435.90	439.44		439.60	0.001365	1.74	320.13	249.20	0.39	99.16
Reach 1	48530	5_BU				1.59	290.80	435.46	438.32	437.75	438.54	0.002629	2.09	150.63	142.57	0.53	98.38
Reach 1	48530	1_BU				1.78	363.60	435.46	438.51	437.93	438.77	0.002700	2.28	180.97	168.63	0.55	96.73
Reach 1	48530	0p5_BU				1.85	389.40	435.46	438.58	437.99	438.85	0.002716	2.35	192.06	179.12	0.55	96.07
Reach 1	48530	0p5-CC-LC_BU				2.20	545.10	435.46	438.93	438.40	439.26	0.002704	2.63	266.40	241.42	0.57	91.85
Reach 1	48400	5_BU				1.46	290.80	435.59	438.01		438.20	0.002423	1.95	172.86	184.61	0.52	95.64
Reach 1	48400	1_BU				1.66	363.60	435.59	438.22		438.43	0.002378	2.10	213.74	214.62	0.52	93.57
Reach 1	48400	0p5_BU				1.73	389.40	435.59	438.29		438.50	0.002345	2.13	228.98	222.76	0.52	92.66
Reach 1	48400	0p5-CC-LC_BU				2.12	545.10	435.59	438.68		438.92	0.002109	2.30	327.11	289.27	0.50	87.41
Reach 1	48250	5_BU				1.37	290.80	435.03	437.51		437.76	0.003482	2.20	140.07	144.73	0.60	98.84
Reach 1	48250	1_BU				1.64	363.60	435.03	437.78		438.03	0.002897	2.25	181.47	171.22	0.56	96.52
Reach 1	48250	0p5_BU				1.73	389.40	435.03	437.87		438.12	0.002720	2.26	198.18	198.67	0.55	95.52
Reach 1	48250	0p5-CC-LC_BU				2.23	545.10	435.03	438.37		438.61	0.001971	2.28	312.05	249.54	0.49	88.82
Reach 1	48100	5_BU				1.61	290.80	434.27	437.19		437.36	0.001910	1.85	156.94	97.43	0.47	100.00
Reach 1	48100	1_BU				1.85	363.60	434.27	437.48		437.68	0.001763	1.95	186.56	100.80	0.46	100.00
Reach 1	48100	0p5_BU				1.93	389.40	434.27	437.58		437.78	0.001735	1.98	196.44	101.88	0.46	100.00
Reach 1	48100	0p5-CC-LC_BU				2.36	545.10	434.27	438.10		438.34	0.001592	2.17	250.81	107.83	0.45	99.99
Reach 1	48010	5_BU				1.94	290.80	433.89	436.99		437.19	0.001805	1.98	147.16	75.94	0.45	100.00
Reach 1	48010	1_BU				2.11	363.60	433.89	437.27		437.51	0.001956	2.15	168.83	79.84	0.47	100.00
Reach 1	48010	0p5_BU				2.19	389.40	433.89	437.36		437.61	0.001990	2.21	176.10	80.43	0.48	100.00
Reach 1	48010	0p5-CC-LC_BU				2.60	545.10	433.89	437.84		438.17	0.002150	2.53	215.66	83.57	0.50	100.00
Reach 1	47901	5_BU				2.30	290.80	433.20	436.85		437.02	0.001211	1.82	160.01	70.67	0.38	99.98
Reach 1	47901	1_BU				2.56	363.60	433.20	437.11		437.32	0.001325	2.04	178.42	71.58	0.41	99.93
Reach 1	47901	0p5_BU				2.64	389.40	433.20	437.20		437.42	0.001362	2.12	184.49	71.88	0.42	99.91
Reach 1	47901	0p5-CC-LC_BU				3.08	545.10	433.20	437.64		437.97	0.001583	2.53	216.81	73.45	0.46	99.72
Reach 1	47790	5_BU				2.18	290.80	433.56	436.76		436.88	0.001084	1.58	184.27	84.47	0.34	100.00
Reach 1	47790	1_BU				2.40	363.60	433.56	437.01		437.17	0.001214	1.77	205.87	85.91	0.36	100.00
Reach 1	47790	0p5_BU				2.47	389.40	433.56	437.09		437.26	0.001259	1.83	213.03	86.41	0.37	100.00
Reach 1	47790	0p5-CC-LC_BU				2.85	545.10	433.56	437.53		437.77	0.001494	2.17	251.40	88.35	0.41	100.00
Reach 1	47700	5_BU				1.92	290.80	433.03	436.61	435.48	436.77	0.001328	1.76	165.54	86.19	0.40	100.00
Reach 1	47700	1_BU				2.11	363.60	433.03	436.85	435.72	437.05	0.001455	1.95	186.14	88.07	0.43	100.00
Reach 1	47700	0p5_BU				2.18	389.40	433.03	436.93	435.81	437.14	0.001492	2.02	192.98	88.50	0.44	100.00
Reach 1	47700	0p5-CC-LC_BU				2.53	545.10	433.03	437.33	436.23	437.62	0.001722	2.38	229.29	90.52	0.48	100.00
Reach 1	47550	5_BU				1.58	290.80	433.60	436.34	435.62	436.52	0.002061	1.91	152.11	96.52	0.49	100.00
Reach 1	47550	1_BU				1.72	363.60	433.60	436.56	435.82	436.78	0.002155	2.09	173.91	100.94	0.51	100.00
Reach 1	47550	0p5_BU				1.77	389.40	433.60	436.63	435.88	436.86	0.002193	2.15	181.26	102.69	0.52	100.00
Reach 1	47550	0p5-CC-LC_BU				2.09	545.10	433.60	437.02	436.23	437.32	0.002326	2.45	223.79	114.98	0.54	99.91
Reach 1	47390	5_BU				1.63	290.80	434.08	436.11		436.23	0.001427	1.59	183.42	114.36	0.40	99.99
Reach 1	47390	1_BU				1.81	363.60	434.08	436.31		436.47	0.001529	1.76	207.47	116.78	0.42	99.96

HEC-RAS Plan: KR_Jam_20600 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	47390	0p5_BU				1.88	389.40	434.08	436.38		436.55	0.001561	1.81	215.49	117.95	0.42	99.95
Reach 1	47390	0p5-CC-LC_BU				2.24	545.10	434.08	436.75		436.98	0.001728	2.12	262.25	146.18	0.45	99.77
Reach 1	47300	5_BU				1.43	290.80	433.73	435.91		436.04	0.003485	1.62	179.96	125.61	0.43	100.00
Reach 1	47300	1_BU				1.63	363.60	433.73	436.11		436.27	0.003540	1.77	205.35	126.98	0.44	100.00
Reach 1	47300	0p5_BU				1.70	389.40	433.73	436.18		436.35	0.003556	1.82	213.76	127.58	0.45	99.99
Reach 1	47300	0p5-CC-LC_BU				2.05	545.10	433.73	436.53		436.76	0.003671	2.10	262.15	152.05	0.47	99.82
Reach 1	47150	5_BU				1.40	290.80	433.25	435.27		435.51	0.003443	2.23	149.59	144.87	0.60	94.89
Reach 1	47150	1_BU				1.61	363.60	433.25	435.48		435.75	0.003273	2.38	181.09	159.22	0.60	93.06
Reach 1	47150	0p5_BU				1.68	389.40	433.25	435.55		435.82	0.003222	2.43	192.33	165.15	0.60	92.45
Reach 1	47150	0p5-CC-LC_BU				2.05	545.10	433.25	435.91		436.25	0.003043	2.69	254.56	171.80	0.60	89.19
Reach 1	47000	5_BU				1.44	290.80	432.80	434.82		435.03	0.002826	2.04	149.81	122.95	0.54	98.23
Reach 1	47000	1_BU				1.64	363.60	432.80	435.05		435.29	0.002727	2.19	180.18	148.20	0.55	97.62
Reach 1	47000	0p5_BU				1.70	389.40	432.80	435.12		435.37	0.002716	2.24	191.08	153.99	0.55	97.29
Reach 1	47000	0p5-CC-LC_BU				2.07	545.10	432.80	435.52		435.82	0.002545	2.46	261.54	207.74	0.55	94.50
Reach 1	46850	5_BU				1.56	290.80	432.38	434.53		434.68	0.001816	1.75	174.99	123.07	0.45	97.58
Reach 1	46850	1_BU				1.78	363.60	432.38	434.77		434.94	0.001776	1.88	207.02	144.02	0.45	96.91
Reach 1	46850	0p5_BU				1.85	389.40	432.38	434.84		435.03	0.001767	1.93	218.18	151.02	0.45	96.64
Reach 1	46850	0p5-CC-LC_BU				2.27	545.10	432.38	435.26		435.49	0.001717	2.16	285.75	186.50	0.46	94.81
Reach 1	46700	5_BU				1.60	290.80	431.90	434.11	433.60	434.34	0.002740	2.15	147.10	175.94	0.54	96.00
Reach 1	46700	1_BU				1.77	363.60	431.90	434.34	433.77	434.60	0.002809	2.35	172.41	193.28	0.56	95.38
Reach 1	46700	0p5_BU				1.83	389.40	431.90	434.41	433.84	434.69	0.002806	2.41	181.30	199.81	0.57	95.03
Reach 1	46700	0p5-CC-LC_BU				2.23	545.10	431.90	434.80	434.14	435.15	0.002759	2.71	237.42	254.43	0.58	92.86
Reach 1	46513	5_BU				1.49	290.80	431.49	433.78	433.15	433.97	0.002342	1.91	154.98	120.66	0.50	99.67
Reach 1	46513	1_BU				1.67	363.60	431.49	434.00	433.33	434.22	0.002396	2.06	186.00	172.97	0.51	98.93
Reach 1	46513	0p5_BU				1.73	389.40	431.49	434.08	433.39	434.30	0.002390	2.11	198.88	186.15	0.51	98.50
Reach 1	46513	0p5-CC-LC_BU				2.09	545.10	431.49	434.52	433.73	434.77	0.002211	2.25	283.52	260.90	0.50	95.03
Reach 1	46503		Bridge														
Reach 1	46441	5_BU				1.62	290.80	431.25	433.57		433.76	0.002123	1.92	152.77	112.65	0.48	99.91
Reach 1	46441	1_BU				1.80	363.60	431.25	433.76		433.99	0.002298	2.14	176.62	141.74	0.51	99.31
Reach 1	46441	0p5_BU				1.86	389.40	431.25	433.82		434.07	0.002333	2.20	185.89	152.34	0.52	98.96
Reach 1	46441	0p5-CC-LC_BU				2.23	545.10	431.25	434.19		434.50	0.002366	2.50	251.16	236.92	0.53	95.98
Reach 1	46352	5_BU				1.16	290.80	430.67	432.98		433.26	0.005055	2.36	125.55	123.56	0.70	99.72
Reach 1	46352	1_BU				1.41	363.60	430.67	433.24		433.53	0.004007	2.38	159.15	131.58	0.64	98.94
Reach 1	46352	0p5_BU				1.49	389.40	430.67	433.33		433.61	0.003769	2.40	170.51	134.16	0.63	98.63
Reach 1	46352	0p5-CC-LC_BU				1.94	545.10	430.67	433.79		434.10	0.002896	2.51	238.20	154.35	0.57	96.94
Reach 1	46300	5_BU				1.70	290.80	430.65	432.93		433.08	0.001583	1.71	171.70	119.01	0.42	99.96
Reach 1	46300	1_BU				1.95	363.60	430.65	433.20		433.37	0.001518	1.83	206.94	140.81	0.42	99.34
Reach 1	46300	0p5_BU				2.04	389.40	430.65	433.29		433.46	0.001499	1.87	219.22	142.63	0.42	99.01
Reach 1	46300	0p5-CC-LC_BU				2.49	545.10	430.65	433.75		433.97	0.001428	2.09	287.14	149.14	0.42	97.10
Reach 1	46250	5_BU				1.74	290.80	430.61	432.83		433.00	0.001752	1.82	162.34	105.55	0.44	99.46
Reach 1	46250	1_BU				1.96	363.60	430.61	433.09		433.29	0.001720	1.96	191.40	114.61	0.45	98.65
Reach 1	46250	0p5_BU				2.04	389.40	430.61	433.18		433.38	0.001708	2.00	201.68	122.56	0.45	98.27
Reach 1	46250	0p5-CC-LC_BU				2.51	545.10	430.61	433.65		433.89	0.001595	2.22	261.33	132.53	0.45	95.76
Reach 1	46200	5_BU				1.66	290.80	430.41	432.71		432.90	0.002058	1.92	151.52	91.32	0.48	100.00
Reach 1	46200	1_BU				1.87	363.60	430.41	432.97		433.19	0.002034	2.07	176.33	98.68	0.48	99.95
Reach 1	46200	0p5_BU				1.96	389.40	430.41	433.06		433.29	0.002013	2.12	184.72	100.57	0.48	99.91
Reach 1	46200	0p5-CC-LC_BU				2.41	545.10	430.41	433.51		433.80	0.001946	2.39	235.66	123.76	0.49	99.29
Reach 1	46150	5_BU				1.92	290.80	430.24	432.65		432.81	0.001435	1.74	167.12	89.21	0.40	100.00
Reach 1	46150	1_BU				2.14	363.60	430.24	432.91		433.10	0.001548	1.92	190.29	92.40	0.42	99.95
Reach 1	46150	0p5_BU				2.22	389.40	430.24	432.99		433.19	0.001576	1.98	197.99	93.26	0.42	99.92
Reach 1	46150	0p5-CC-LC_BU				2.62	545.10	430.24	433.44		433.70	0.001723	2.29	242.39	116.91	0.45	99.66
Reach 1	46100	5_BU				1.91	290.80	430.02	432.55		432.73	0.001621	1.87	157.14	85.31	0.43	99.80
Reach 1	46100	1_BU				2.13	363.60	430.02	432.79		433.01	0.001711	2.07	177.99	87.33	0.45	99.69
Reach 1	46100	0p5_BU				2.21	389.40	430.02	432.87		433.10	0.001743	2.13	184.96	93.22	0.46	99.65
Reach 1	46100	0p5-CC-LC_BU				2.64	545.10	430.02	433.30		433.61	0.001859	2.48	239.16	152.57	0.49	98.73
Reach 1	46050	5_BU				1.54	290.80	429.81	432.31		432.60	0.003475	2.38	122.09	81.49	0.61	99.99
Reach 1	46050	1_BU				1.71	363.60	429.81	432.54		432.88	0.003482	2.60	140.55	87.79	0.63	99.92
Reach 1	46050	0p5_BU				1.78	389.40	429.81	432.61		432.97	0.003491	2.67	147.05	91.22	0.64	99.88
Reach 1	46050	0p5-CC-LC_BU				2.14	545.10	429.81	433.01		433.47	0.003473	3.02	190.52	130.22	0.66	99.14
Reach 1	46000	5_BU				1.68	290.80	429.73	432.16		432.44	0.002966	2.33	124.90	74.15	0.57	100.00
Reach 1	46000	1_BU				1.84	363.60	429.73	432.37		432.71	0.003250	2.59	140.85	82.12	0.61	99.99
Reach 1	46000	0p5_BU				1.87	389.40	429.73	432.44		432.80	0.003310	2.67	146.60	88.32	0.62	99.96
Reach 1	46000	0p5-CC-LC_BU				2.22	545.10	429.73	432.81		433.29	0.003592	3.10	184.94	118.94	0.66	99.27
Reach 1	45950	5_BU				1.55	290.80	429.64	432.02		432.28	0.003117	2.26	128.54	82.74	0.58	100.00
Reach 1	45950	1_BU				1.64	363.60	429.64	432.22		432.54	0.003252	2.49	145.75	88.90	0.62	100.00
Reach 1	45950	0p5_BU				1.65	389.40	429.64	432.29		432.63	0.003282	2.56	152.02	91.87	0.64	100.00
Reach 1	45950	0p5-CC-LC_BU				1.60	545.10	429.64	432.68		433.10	0.003370	2.85	192.07	124.34	0.72	99.93
Reach 1	45850	5_BU				1.50	290.80	429.47	431.81		431.99	0.002311	1.90	153.96	111.86	0.50	99.95
Reach 1	45850	1_BU				1.69	363.60	429.47	432.02		432.24	0.002353	2.08	177.77	114.68	0.51	99.74
Reach 1	45850	0p5_BU				1.75	389.40	429.47	432.09		432.32	0.002360	2.13	186.04	116.16	0.51	99.65
Reach 1	45850	0p5-CC-LC_BU				1.99	545.10	429.47	432.49		432.78	0.002380	2.40	235.92	142.88	0.54	99.02
Reach 1	45750	5_BU				1.30	290.80	429.31	431.53		431.73	0.002962	1.96	148.56	114.20	0.55	100.00
Reach 1	45750	1_BU				1.50	363.60	429.31	431.76		431.98	0.002758	2.08	174.90	118.27	0.54	99.99
Reach 1	45750	0p5_BU				1.57	389.40	429.31	431.84		432.07	0.002700	2.12	184.04	120.04	0.54	99.98
Reach 1	45750	0p5-CC-LC_BU				1.94	545.10	429.31	432.25		432.53	0.002553	2.34	235.28	128.54	0.54	99.81
Reach 1	45600	5_BU				1.58	290.80	429.06	431.22		431.38	0.001809	1.75	166.35	105.02	0.44	100.00
Reach 1	45600	1_BU				1.79	363.60	429.06	431.45		431.64	0.001821	1.90	191.18	106.84	0.45	100.00
Reach 1	45600	0p5_BU				1.86	389.40	429.06	431.53		431.73	0.001823	1.95	199.63	107.45	0.46	100.00
Reach 1	45600	0p5-CC-LC_BU				2.18	545.10	429.06	431.93		432.19	0.001938	2.24	244.75	126.33	0.48	99.96
Reach 1	45400	5_BU				1.61	290.80	428.84	430.87		431.02	0.001698	1.71	170.86	115.10	0.43	99.90
Reach 1	45400	1_BU				1.83	363.60	428.84	431.11		431.28	0.001712	1.87	199.12	127.95	0.44	99.65
Reach 1	45400	0p5_BU				1.90	389.40	428.84	431.19		431.37	0.001700	1.91	209.63	132.14	0.44	99.49
Reach 1	45400	0p5-CC-LC_BU				2.26	545.10	428.84	431.57		431.81	0.001794	2.20	266.80	189.94	0.47	98.44
Reach 1	45200	5_BU				1.43	290.80	428.38	430.32		430.56	0.003209	2.18	135.45	102.76	0.58	99.76
Reach 1	45200	1_BU				1.61	363.60	428.38	430.54		430.82	0.003161	2.34	160.71	124.93	0.59	99.35
Reach 1	45200	0p5_BU				1.64	389.40	428.38	430.62		430.91	0.003214	2.38	170.77	134.50	0.59	99.19
Reach 1	45200	0p5-CC-LC_BU				1.96	545.10	428.38	430.99		431.34	0.003119	2.65	237.52	239.32	0.60	97.07
Reach 1	44985	5_BU				1.65	290.80	426.86	429.87		430.03	0.001765	1.77	165.94	114.91	0.44	99.87
Reach 1	44985	1_BU				1.88	363.60	426.86	430.10		430.29	0.001774	1.93	195.49	146.29	0.45	99.38
Reach 1	44985	0p5_BU				1.96	389.40	426.86	430.18		430.38	0.001781	1.99	206.80	162.46	0.45	99.07
Reach 1	44985	0p5-CC-LC_BU				2.34	545.10	426.86	430.56		430.81	0.001812	2.26	286.27	262.27	0.47	96.09
Reach 1	43733	5_BU				1.24	290.80	424.63	427.09		427.26	0.002842	1.85	167.20	154.71	0.53	91.67
Reach 1	43733	1_BU				1.33	363.60	424.63	427.24		427.44	0.002997	2.04	192.56	183.99	0.57	91.08
Reach 1	43733	0p5_BU				1.38	389.40	424.63	427.29		427.50	0.003027	2.10	202.47	195.79	0.57	90.86
Reach 1	43733	0p5-CC-LC_BU				1.64	545.10	424.63	427.56		427.82	0.003218	2.40	261.79	257.03	0.60	88.39
Reach 1	42697	5_BU				1.45	290.80	421.83	425.04	424.42	425.14	0.001612	1.54	289.57	457.65	0.41	77.28
Reach 1	42697	1_BU				1.58	363.60	421.83	425.17	424.76	425.27	0.001628	1.64	352.98	510.00	0.42	71.77

HEC-RAS Plan: KR_Jam_20600 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	42697	0p5_BU				1.62	389.40	421.83	425.21	424.81	425.32	0.001648	1.68	373.47	523.07	0.42	70.25
Reach 1	42697	0p5-CC-LC_BU				1.83	545.10	421.83	425.42	425.03	425.54	0.001731	1.86	487.42	580.10	0.44	62.80
Reach 1	41323	5_BU				0.87	290.80	419.47	421.45		421.64	0.004579	1.95	149.51	170.95	0.66	100.00
Reach 1	41323	1_BU				0.94	363.60	419.47	421.63		421.83	0.004330	1.99	183.53	214.64	0.65	99.96
Reach 1	41323	0p5_BU				0.98	389.40	419.47	421.69		421.90	0.004169	1.99	198.57	264.10	0.64	99.83
Reach 1	41323	0p5-CC-LC_BU				1.08	545.10	419.47	422.01		422.20	0.003660	1.98	308.47	435.93	0.61	95.73
Reach 1	40285	5_BU				1.48	290.80	416.85	419.58		419.62	0.001019	1.23	364.00	463.45	0.32	42.98
Reach 1	40285	1_BU				1.61	363.60	416.85	419.71		419.77	0.001082	1.35	436.90	572.89	0.34	41.14
Reach 1	40285	0p5_BU				1.66	389.40	416.85	419.76		419.81	0.001117	1.40	463.34	605.72	0.35	40.85
Reach 1	40285	0p5-CC-LC_BU				1.86	545.10	416.85	419.96		420.02	0.001281	1.61	590.93	671.87	0.38	37.73
Reach 1	39051	5_BU				0.78	290.80	414.48	417.40		417.47	0.005561	1.25	271.84	600.83	0.45	81.24
Reach 1	39051	1_BU				0.81	363.60	414.48	417.53		417.59	0.005291	1.21	362.97	757.27	0.43	74.59
Reach 1	39051	0p5_BU				0.84	389.40	414.48	417.57		417.63	0.005082	1.21	390.87	792.72	0.42	72.93
Reach 1	39051	0p5-CC-LC_BU				1.01	545.10	414.48	417.76		417.82	0.004222	1.24	561.04	981.88	0.39	65.70
Reach 1	38622	5_BU				0.85	290.80	413.89	416.80		416.82	0.000728	0.71	516.75	959.14	0.25	85.48
Reach 1	38622	1_BU				0.96	363.60	413.89	416.92		416.95	0.000767	0.75	634.79	1138.44	0.24	82.78
Reach 1	38622	0p5_BU				0.99	389.40	413.89	416.96		416.99	0.000780	0.76	674.47	1183.00	0.24	81.85
Reach 1	38622	0p5-CC-LC_BU				1.18	545.10	413.89	417.15		417.18	0.000881	0.85	880.71	1364.67	0.25	77.47
Reach 1	38155	5_BU				1.50	290.80	413.94	415.97	415.74	416.22	0.003668	2.39	195.91	409.83	0.62	85.16
Reach 1	38155	1_BU				1.70	363.60	413.94	416.18	416.00	416.40	0.003031	2.35	297.89	589.59	0.58	76.21
Reach 1	38155	0p5_BU				1.76	389.40	413.94	416.25	416.06	416.45	0.002842	2.33	339.06	658.08	0.56	73.34
Reach 1	38155	0p5-CC-LC_BU				2.07	545.10	413.94	416.57		416.72	0.002045	2.20	577.66	923.21	0.49	58.56
Reach 1	37333	5_BU				1.97	290.80	411.14	413.98		414.18	0.001838	2.03	162.39	147.21	0.46	97.40
Reach 1	37333	1_BU				2.14	363.60	411.14	414.16		414.41	0.002097	2.29	193.70	206.09	0.50	95.78
Reach 1	37333	0p5_BU				2.19	389.40	411.14	414.21		414.48	0.002200	2.38	204.03	216.08	0.51	95.12
Reach 1	37333	0p5-CC-LC_BU				2.42	545.10	411.14	414.43	413.86	414.83	0.002893	2.91	260.90	288.77	0.60	91.88
Reach 1	36316	5_BU				1.61	290.80	409.47	411.96	411.57	412.13	0.002447	2.05	234.55	523.28	0.52	79.39
Reach 1	36316	1_BU				1.70	363.60	409.47	412.13	411.80	412.29	0.002335	2.07	339.93	712.35	0.51	71.16
Reach 1	36316	0p5_BU				1.74	389.40	409.47	412.17		412.33	0.002298	2.09	371.42	742.01	0.51	68.69
Reach 1	36316	0p5-CC-LC_BU				1.96	545.10	409.47	412.41		412.55	0.002050	2.14	565.26	901.25	0.49	57.14
Reach 1	34806	5_BU				1.37	290.80	406.69	408.63		408.76	0.002135	1.72	201.64	182.57	0.47	89.52
Reach 1	34806	1_BU				1.54	363.60	406.69	408.81		408.97	0.002203	1.89	235.91	195.52	0.49	89.16
Reach 1	34806	0p5_BU				1.60	389.40	406.69	408.86		409.04	0.002219	1.94	247.23	198.71	0.49	88.67
Reach 1	34806	0p5-CC-LC_BU				1.88	545.10	406.69	409.18		409.40	0.002331	2.21	311.80	218.53	0.51	86.43
Reach 1	33067	5_BU				1.28	290.80	401.87	404.17	403.67	404.37	0.003085	1.98	147.41	118.96	0.56	99.97
Reach 1	33067	1_BU				1.48	363.60	401.87	404.38	403.86	404.61	0.002932	2.12	173.19	130.78	0.56	99.85
Reach 1	33067	0p5_BU				1.54	389.40	401.87	404.45	403.92	404.69	0.002891	2.17	182.11	155.91	0.56	99.77
Reach 1	33067	0p5-CC-LC_BU				1.92	545.10	401.87	404.83	404.22	405.12	0.002649	2.40	247.57	382.55	0.55	98.64
Reach 1	32800	5_BU				1.52	290.80	401.32	403.49	402.90	403.67	0.002219	1.88	154.88	239.36	0.49	100.00
Reach 1	32800	1_BU				1.73	363.60	401.32	403.71	403.06	403.93	0.002225	2.05	177.45	273.89	0.50	100.00
Reach 1	32800	0p5_BU				1.80	389.40	401.32	403.78	403.11	404.01	0.002229	2.11	184.83	289.60	0.50	100.00
Reach 1	32800	0p5-CC-LC_BU				2.18	545.10	401.32	404.17	403.40	404.47	0.002279	2.43	228.17	557.20	0.52	99.82
Reach 1	32550	5_BU				1.26	290.80	400.66	402.50	402.23	402.84	0.005302	2.57	113.98	152.21	0.73	99.84
Reach 1	32550	1_BU				1.36	363.60	400.66	402.66	402.43	403.07	0.005589	2.84	129.57	179.81	0.78	99.59
Reach 1	32550	0p5_BU				1.39	389.40	400.66	402.71	402.50	403.15	0.005678	2.93	135.02	192.11	0.79	99.49
Reach 1	32550	0p5-CC-LC_BU				1.64	545.10	400.66	402.99	402.85	403.56	0.006127	3.38	167.97	300.80	0.84	98.50
Reach 1	32400	5_BU				1.58	290.80	400.20	402.24	401.71	402.35	0.001660	1.67	221.26	182.99	0.42	66.96
Reach 1	32400	1_BU				1.76	363.60	400.20	402.43	401.83	402.55	0.001686	1.80	255.26	184.97	0.43	64.53
Reach 1	32400	0p5_BU				1.81	389.40	400.20	402.49	401.87	402.62	0.001697	1.85	266.47	185.95	0.44	63.85
Reach 1	32400	0p5-CC-LC_BU				2.12	545.10	400.20	402.81	402.10	402.98	0.001778	2.09	329.62	216.26	0.46	60.88
Reach 1	32250	5_BU				1.31	290.80	399.61	401.80	401.40	402.00	0.003433	2.12	161.25	163.77	0.59	80.23
Reach 1	32250	1_BU				1.46	363.60	399.61	401.98	401.54	402.20	0.003435	2.27	188.69	178.62	0.60	77.91
Reach 1	32250	0p5_BU				1.51	389.40	399.61	402.03	401.59	402.26	0.003452	2.32	198.09	186.55	0.60	77.22
Reach 1	32250	0p5-CC-LC_BU				1.78	545.10	399.61	402.33	401.92	402.61	0.003472	2.57	259.95	255.12	0.61	73.41
Reach 1	32150	5_BU				1.19	290.80	399.22	401.47	401.05	401.64	0.003328	1.96	169.41	184.02	0.57	84.50
Reach 1	32150	1_BU				1.37	363.60	399.22	401.67	401.23	401.85	0.003003	2.05	208.48	212.22	0.56	82.47
Reach 1	32150	0p5_BU				1.44	389.40	399.22	401.73	401.34	401.92	0.002895	2.07	222.40	219.43	0.55	81.55
Reach 1	32150	0p5-CC-LC_BU				1.78	545.10	399.22	402.08	401.60	402.28	0.002452	2.20	308.93	296.86	0.53	76.75
Reach 1	32000	5_BU				1.68	290.80	398.64	400.98	400.53	401.20	0.002630	2.18	159.88	147.63	0.54	87.02
Reach 1	32000	1_BU				1.88	363.60	398.64	401.20	400.72	401.44	0.002538	2.32	194.64	179.98	0.54	83.51
Reach 1	32000	0p5_BU				1.95	389.40	398.64	401.27	400.81	401.52	0.002515	2.36	207.77	195.12	0.54	82.39
Reach 1	32000	0p5-CC-LC_BU				2.32	545.10	398.64	401.66	401.12	401.92	0.002344	2.56	305.75	296.10	0.54	76.30
Reach 1	31850	5_BU				1.59	290.80	398.07	400.43	400.12	400.73	0.003690	2.50	133.22	122.53	0.63	91.60
Reach 1	31850	1_BU				1.72	363.60	398.07	400.59	400.31	400.95	0.004174	2.79	153.89	150.35	0.68	89.63
Reach 1	31850	0p5_BU				1.76	389.40	398.07	400.63	400.38	401.02	0.004321	2.88	161.30	154.87	0.70	88.88
Reach 1	31850	0p5-CC-LC_BU				1.95	545.10	398.07	400.88	400.77	401.39	0.005217	3.40	205.77	217.32	0.78	85.48
Reach 1	31700	5_BU				1.39	290.80	397.52	400.25	399.45	400.34	0.001320	1.37	246.24	267.26	0.37	86.74
Reach 1	31700	1_BU				1.51	363.60	397.52	400.40	399.59	400.51	0.001421	1.52	286.73	308.82	0.39	85.15
Reach 1	31700	0p5_BU				1.55	389.40	397.52	400.45	399.64	400.56	0.001462	1.57	299.96	320.41	0.40	84.69
Reach 1	31700	0p5-CC-LC_BU				1.77	545.10	397.52	400.69	399.93	400.84	0.001682	1.83	374.94	391.65	0.44	81.88
Reach 1	31597	5_BU				0.92	290.80	397.42	400.05	399.59	400.14	0.002506	1.42	235.52	326.55	0.47	74.31
Reach 1	31597	1_BU				1.01	363.60	397.42	400.21	399.70	400.30	0.002423	1.49	289.03	379.21	0.47	72.89
Reach 1	31597	0p5_BU				1.04	389.40	397.42	400.25	399.72	400.35	0.002396	1.51	307.26	399.15	0.47	72.44
Reach 1	31597	0p5-CC-LC_BU				1.25	545.10	397.42	400.49	399.95	400.60	0.002349	1.69	408.41	450.78	0.48	71.28
Reach 1	31500	5_BU				0.78	290.80	398.07	399.86	399.39	399.96	0.002083	1.17	233.01	292.38	0.42	28.63
Reach 1	31500	1_BU				0.88	363.60	398.07	400.00	399.53	400.12	0.002171	1.29	279.31	339.48	0.44	30.07
Reach 1	31500	0p5_BU				0.92	389.40	398.07	400.05	399.58	400.17	0.002194	1.34	295.18	354.10	0.45	30.67
Reach 1	31500	0p5-CC-LC_BU				1.15	545.10	398.07	400.29	399.81	400.42	0.002254	1.57	388.19	427.14	0.47	32.57
Reach 1	31400	5_BU				0.76	290.80	397.82	399.63	399.31	399.78	0.003235	1.39	208.92	300.13	0.51	34.05
Reach 1	31400	1_BU				0.90	363.60	397.82	399.78	399.50	399.93	0.003148	1.49	257.27	350.22	0.50	35.24
Reach 1	31400	0p5_BU				0.94	389.40	397.82	399.83	399.54	399.98	0.003156	1.53	273.08	363.11	0.50	35.42
Reach 1	31400	0p5-CC-LC_BU				1.15	545.10	397.82	400.06	399.75	400.22	0.003275	1.77	368.15	496.94	0.53	36.56
Reach 1	31350	5_BU				0.86	290.80	397.71	399.57	399.10	399.67	0.002272	1.30	241.31	292.39	0.45	39.11
Reach 1	31350	1_BU				0.98	363.60	397.71	399.72	399.25	399.83	0.002271	1.42	286.82	341.85	0.46	40.16
Reach 1	31350	0p5_BU				1.02	389.40	397.71	399.76	399.29	399.87	0.002302	1.47	301.60	360.14	0.46	40.47
Reach 1	31350	0p5-CC-LC_BU				1.23	545.10	397.71	399.98	399.51	400.12	0.002510	1.73	396.98	539.59	0.50	41.54
Reach 1	31300	5_BU				0.80	290.80	397.60	399.41	399.11	399.56	0.003833	1.62	201.57	281.10	0.58	39.00
Reach 1	31300	1_BU				0.81	363.60	397.60	399.56	399.28	399.72	0.003778	1.62	249.77	353.38	0.57	37.78
Reach 1	31300	0p5_BU				0.85	389.40	397.60	399.61	399.32	399.77	0.003707	1.65	266.05	369.11	0.57	38.09
Reach 1	31300	0p5-CC-LC_BU				1.05	545.10	397.60	399.84	399.57	400.01	0.003519	1.86	365.81	526.64	0.58	39.01
Reach 1	31250	5_BU				0.89	290.80	397.53	399.33	398.88	399.43	0.002294	1.36	245.07	340.96	0.46	44.27
Reach 1	31250	1_BU				0.94	363.60	397.53	399.49	399.00	399.59	0.002229	1.41	307.79	460.73	0.46	43.53
Reach 1	31250	0p5_BU				0.98	389.40	397.53	399.54	399.04	399.64	0.002205	1.43	330.34	489.06	0.46	43.50
Reach 1	31250	0p5-CC-LC_BU				1.22	545.10	397.53	399.78	399.30	399.88	0.002139	1.58	465.87	629.21	0.46	42.77
Reach 1	31200	5_BU				1.33	290.80	397.38	399.24	398.63	399.33	0.001518	1.47	254.08	325.28	0.41	56.44
Reach 1	31200	1_BU				1.44	363.60	397.38	399.39	398.78	399.49	0.001553	1.58	310.79	424.91	0.42	54.11
Reach 1	31200	0p5_BU				1.48	389.40	397.38	399.43	398.82	399.54	0.001583	1.62	330.42	458.85	0.42	53.45
Reach 1	31200	0p5-CC-LC_BU				1.70	545.10	397.38	399.66	399.06	399.78	0.001726	1.82	450.87	616.40	0.45	49.44

HEC-RAS Plan: KR_Jam_20600 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	31150	5_BU				1.04	290.80	397.22	399.14	398.64	399.21	0.001741	1.33	257.24	326.91	0.42	52.41
Reach 1	31150	1_BU				1.15	363.60	397.22	399.30	398.77	399.38	0.001641	1.39	321.59	483.50	0.42	50.88
Reach 1	31150	0p5_BU				1.18	389.40	397.22	399.34	398.80	399.42	0.001641	1.42	344.27	532.59	0.42	50.42
Reach 1	31150	0p5-CC-LC_BU				1.40	545.10	397.22	399.56	398.97	399.65	0.001672	1.58	476.07	652.08	0.43	47.47
Reach 1	31100	5_BU				0.99	290.80	397.05	398.70	398.44	398.89	0.004251	1.95	166.74	233.61	0.63	40.59
Reach 1	31100	1_BU				1.06	363.60	397.05	398.85	398.58	399.05	0.004369	2.07	210.37	341.55	0.64	39.98
Reach 1	31100	0p5_BU				1.08	389.40	397.05	398.90	398.64	399.10	0.004300	2.09	228.54	385.70	0.64	39.39
Reach 1	31100	0p5-CC-LC_BU				1.22	545.10	397.05	399.15	398.97	399.33	0.004043	2.20	344.36	565.57	0.63	36.81
Reach 1	31050	5_BU				0.97	290.80	396.94	398.59	398.23	398.71	0.003218	1.68	210.21	326.75	0.54	34.84
Reach 1	31050	1_BU				1.02	363.60	396.94	398.77	398.38	398.88	0.002926	1.70	276.50	455.86	0.54	33.42
Reach 1	31050	0p5_BU				1.03	389.40	396.94	398.82	398.43	398.93	0.002839	1.69	302.51	494.89	0.53	32.78
Reach 1	31050	0p5-CC-LC_BU				1.20	545.10	396.94	399.08	398.66	399.18	0.002458	1.75	448.04	624.49	0.51	30.76
Reach 1	31011	5_BU				1.05	290.80	396.85	398.45	397.94	398.53	0.002083	1.42	228.66	256.32	0.44	31.12
Reach 1	31011	1_BU				1.11	363.60	396.85	398.62	398.07	398.71	0.002190	1.52	278.90	338.29	0.46	31.04
Reach 1	31011	0p5_BU				1.13	389.40	396.85	398.67	398.10	398.76	0.002193	1.54	297.78	362.23	0.46	30.82
Reach 1	31011	0p5-CC-LC_BU				1.33	545.10	396.85	398.93	398.30	399.03	0.002015	1.64	406.26	484.58	0.45	29.22
Reach 1	30950	5_BU				0.97	290.80	396.52	398.25	397.77	398.33	0.001794	1.26	231.49	266.14	0.41	38.07
Reach 1	30950	1_BU				1.12	363.60	396.52	398.41	397.87	398.50	0.001755	1.36	278.52	309.57	0.41	38.62
Reach 1	30950	0p5_BU				1.16	389.40	396.52	398.46	397.91	398.56	0.001774	1.41	295.17	327.39	0.42	38.94
Reach 1	30950	0p5-CC-LC_BU				1.39	545.10	396.52	398.72	398.09	398.83	0.001880	1.63	390.43	406.78	0.44	39.58
Reach 1	30850	5_BU				0.79	290.80	395.91	398.09	397.56	398.16	0.002221	1.21	243.81	299.81	0.44	83.68
Reach 1	30850	1_BU				0.85	363.60	395.91	398.27	397.67	398.34	0.002048	1.22	301.50	348.46	0.42	84.05
Reach 1	30850	0p5_BU				0.88	389.40	395.91	398.32	397.71	398.39	0.001994	1.24	320.52	360.29	0.42	84.26
Reach 1	30850	0p5-CC-LC_BU				1.06	545.10	395.91	398.58	397.92	398.67	0.001840	1.34	427.59	445.43	0.42	86.28
Reach 1	30750	5_BU				0.90	290.80	395.77	397.74	397.37	397.90	0.004050	1.79	164.36	184.96	0.60	71.54
Reach 1	30750	1_BU				0.89	363.60	395.77	397.92	397.55	398.09	0.004136	1.79	201.00	223.13	0.61	70.17
Reach 1	30750	0p5_BU				0.90	389.40	395.77	397.98	397.60	398.15	0.004135	1.80	214.43	241.83	0.61	69.93
Reach 1	30750	0p5-CC-LC_BU				1.04	545.10	395.77	398.27	397.85	398.44	0.003805	1.90	305.91	391.15	0.59	71.76
Reach 1	30650	5_BU				1.18	290.80	395.40	397.49	396.94	397.62	0.002465	1.67	194.99	221.56	0.49	83.41
Reach 1	30650	1_BU				1.28	363.60	395.40	397.68	397.11	397.82	0.002400	1.74	239.44	254.17	0.49	81.09
Reach 1	30650	0p5_BU				1.32	389.40	395.40	397.74	397.16	397.88	0.002357	1.76	255.24	268.13	0.49	80.31
Reach 1	30650	0p5-CC-LC_BU				1.60	545.10	395.40	398.03	397.45	398.19	0.002214	1.95	357.35	439.55	0.49	77.42
Reach 1	30396	5_BU				1.66	290.80	394.21	396.80	396.46	397.02	0.002645	2.21	172.68	188.02	0.55	84.13
Reach 1	30396	1_BU				1.82	363.60	394.21	397.01	396.63	397.23	0.002568	2.31	213.96	220.11	0.55	79.47
Reach 1	30396	0p5_BU				1.89	389.40	394.21	397.08	396.70	397.31	0.002524	2.34	231.02	247.24	0.54	78.03
Reach 1	30396	0p5-CC-LC_BU				2.22	545.10	394.21	397.44	396.98	397.67	0.002348	2.48	343.72	380.74	0.53	70.40
Reach 1	30150	5_BU				1.58	290.80	393.70	396.10	395.64	396.34	0.003033	2.26	148.74	149.69	0.57	92.47
Reach 1	30150	1_BU				1.74	363.60	393.70	396.26	395.91	396.55	0.003242	2.49	174.86	170.30	0.60	89.98
Reach 1	30150	0p5_BU				1.79	389.40	393.70	396.31	395.97	396.62	0.003340	2.58	184.11	178.66	0.61	89.64
Reach 1	30150	0p5-CC-LC_BU				2.09	545.10	393.70	396.61	396.32	396.99	0.003592	2.96	244.33	237.39	0.65	85.36
Reach 1	29887	5_BU				1.03	290.80	393.58	395.39	394.94	395.51	0.002743	1.61	186.54	186.83	0.51	93.32
Reach 1	29887	1_BU				1.18	363.60	393.58	395.55	395.06	395.70	0.002643	1.72	218.27	196.00	0.51	92.95
Reach 1	29887	0p5_BU				1.23	389.40	393.58	395.60	395.11	395.76	0.002622	1.77	228.56	197.08	0.51	92.83
Reach 1	29887	0p5-CC-LC_BU				1.51	545.10	393.58	395.90	395.35	396.09	0.002549	1.98	287.57	206.61	0.51	92.17
Reach 1	29585	5_BU				1.06	290.80	392.36	394.38	394.02	394.56	0.003708	1.90	152.99	148.27	0.59	99.97
Reach 1	29585	1_BU				1.16	363.60	392.36	394.54	394.16	394.75	0.003795	2.05	178.19	158.79	0.61	99.84
Reach 1	29585	0p5_BU				1.21	389.40	392.36	394.59	394.20	394.81	0.003817	2.11	185.94	160.12	0.61	99.79
Reach 1	29585	0p5-CC-LC_BU				1.43	545.10	392.36	394.88	394.48	395.16	0.003775	2.35	234.95	170.80	0.63	99.42
Reach 1	29234	5_BU				1.19	290.80	391.76	393.33	392.89	393.48	0.002557	1.71	174.72	166.81	0.50	99.33
Reach 1	29234	1_BU				1.37	363.60	391.76	393.52	393.02	393.69	0.002432	1.84	206.79	175.25	0.50	98.80
Reach 1	29234	0p5_BU				1.44	389.40	391.76	393.58	393.06	393.76	0.002400	1.88	217.64	177.22	0.50	98.59
Reach 1	29234	0p5-CC-LC_BU				1.77	545.10	391.76	393.92	393.30	394.14	0.002290	2.11	280.91	203.76	0.51	97.62
Reach 1	28752	5_BU				1.40	290.80	389.58	392.10	391.58	392.25	0.002521	1.77	181.42	168.69	0.48	95.80
Reach 1	28752	1_BU				1.56	363.60	389.58	392.27	391.74	392.46	0.002664	1.95	211.99	178.58	0.50	94.78
Reach 1	28752	0p5_BU				1.62	389.40	389.58	392.33	391.79	392.53	0.002710	2.01	222.14	182.22	0.50	94.34
Reach 1	28752	0p5-CC-LC_BU				1.90	545.10	389.58	392.63	392.06	392.88	0.002952	2.30	279.45	201.07	0.53	91.84
Reach 1	27904	5_BU				1.21	290.80	387.11	389.64		389.81	0.003390	1.98	170.90	190.32	0.58	80.82
Reach 1	27904	1_BU				1.37	363.60	387.11	389.80		389.99	0.003247	2.11	203.75	204.39	0.58	78.31
Reach 1	27904	0p5_BU				1.43	389.40	387.11	389.86		390.06	0.003200	2.15	215.04	208.53	0.58	77.48
Reach 1	27904	0p5-CC-LC_BU				1.73	545.10	387.11	390.15		390.38	0.002988	2.36	288.26	296.64	0.57	73.34
Reach 1	27650	5_BU				1.24	290.80	386.21	388.61	388.26	388.83	0.003776	2.14	150.64	151.08	0.61	88.65
Reach 1	27650	1_BU				1.41	363.60	386.21	388.79	388.45	389.04	0.003687	2.30	178.10	158.42	0.62	87.18
Reach 1	27650	0p5_BU				1.47	389.40	386.21	388.85	388.49	389.11	0.003642	2.35	187.85	160.95	0.62	86.72
Reach 1	27650	0p5-CC-LC_BU				1.81	545.10	386.21	389.21	388.75	389.50	0.003283	2.55	260.03	263.35	0.61	83.66
Reach 1	27359	5_BU				1.33	290.80	385.38	387.54	387.14	387.78	0.003540	2.17	134.16	101.12	0.60	100.00
Reach 1	27359	1_BU				1.54	363.60	385.38	387.76	387.30	388.03	0.003304	2.32	157.05	103.33	0.60	100.00
Reach 1	27359	0p5_BU				1.62	389.40	385.38	387.83	387.36	388.12	0.003245	2.37	164.70	104.75	0.59	99.99
Reach 1	27359	0p5-CC-LC_BU				2.03	545.10	385.38	388.25	387.65	388.60	0.002963	2.63	209.90	115.86	0.59	99.77
Reach 1	27150	5_BU				1.76	290.80	383.59	387.01	386.21	387.21	0.002056	2.00	145.82	85.60	0.48	99.98
Reach 1	27150	1_BU				1.95	363.60	383.59	387.21	386.41	387.47	0.002246	2.24	163.45	88.80	0.51	99.90
Reach 1	27150	0p5_BU				2.02	389.40	383.59	387.28	386.49	387.55	0.002305	2.32	169.33	89.72	0.52	99.85
Reach 1	27150	0p5-CC-LC_BU				2.39	545.10	383.59	387.64	386.88	388.02	0.002571	2.74	203.33	97.32	0.57	99.48
Reach 1	26869	5_BU				1.19	290.80	383.32	385.95	385.76	386.28	0.005851	2.58	115.76	105.03	0.76	99.09
Reach 1	26869	1_BU				1.41	363.60	383.32	386.17	385.92	386.54	0.005071	2.70	139.82	108.76	0.72	98.62
Reach 1	26869	0p5_BU				1.49	389.40	383.32	386.25	385.98	386.62	0.004901	2.74	147.80	110.13	0.72	98.44
Reach 1	26869	0p5-CC-LC_BU				1.87	545.10	383.32	386.63	386.27	387.09	0.004355	3.02	191.67	116.18	0.70	97.46
Reach 1	26650	5_BU				2.06	290.80	382.27	385.62	384.53	385.75	0.001116	1.63	184.95	108.85	0.36	98.62
Reach 1	26650	1_BU				2.27	363.60	382.27	385.83	384.73	386.00	0.001253	1.85	208.28	116.04	0.39	98.01
Reach 1	26650	0p5_BU				2.34	389.40	382.27	385.89	384.80	386.08	0.001299	1.92	216.04	117.45	0.40	97.79
Reach 1	26650	0p5-CC-LC_BU				2.69	545.10	382.27	386.24	385.17	386.51	0.001557	2.30	263.14	161.27	0.45	96.53
Reach 1	26500	5_BU				2.02	290.80	382.41	385.47	384.32	385.59	0.001068	1.57	199.61	118.76	0.35	97.11
Reach 1	26500	1_BU				2.20	363.60	382.41	385.65	384.56	385.81	0.001232	1.79	223.44	139.91	0.39	96.58
Reach 1	26500	0p5_BU				2.26	389.40	382.41	385.71	384.64	385.88	0.001288	1.86	231.85	143.68	0.40	96.36
Reach 1	26500	0p5-CC-LC_BU				2.57	545.10	382.41	386.02	384.98	386.27	0.001596	2.26	285.04	212.49	0.45	94.95
Reach 1	26363	5_BU				1.46	290.80	382.60	385.21		385.37	0.002217	1.82	190.65	202.42	0.48	94.44
Reach 1	26363	1_BU				1.62	363.60	382.60	385.37		385.56	0.002333	2.00	225.75	245.53	0.50	92.33
Reach 1	26363	0p5_BU				1.67	389.40	382.60	385.42		385.62	0.002360	2.06	239.74	274.47	0.51	91.55
Reach 1	26363	0p5-CC-LC_BU				1.96	545.10	382.60	385.71	385.21	385.96	0.002461	2.34	338.43	392.24	0.53	87.26
Reach 1	26186	5_BU				1.27	290.80	382.60	384.44	384.30	384.73	0.005572	2.64	138.54	200.60	0.75	78.27
Reach 1	26186	1_BU				1.41	363.60	382.60	384.59	384.50	384.91	0.005502	2.80	171.00	229.70	0.75	74.32
Reach 1	26186	0p5_BU				1.44	389.40	382.60	384.63	384.54	384.96	0.005568	2.87	180.96	240.98	0.76	73.17
Reach 1	26186	0p5-CC-LC_BU				1.63	545.10	382.60	384.85	384.79	385.25	0.006135	3.26	241.78	350.55	0.82	68.24
Reach 1	26100	5_BU				1.43	290.80	382.20	384.35	383.84	384.46	0.001785	1.61	218.82	266.68	0.43	52.58
Reach 1	26100	1_BU				1.52	363.60	382.20	384.51	383.98	384.63	0.001863	1.72	267.68	346.89	0.45	49.97
Reach 1	26100	0p5_BU				1.56	389.40	382.20	384.56	384.02	384.67	0.001895	1.76	283.63	360.06	0.45	49.11
Reach 1	26100	0p5-CC-LC_BU				1.71	545.10	382.20	384.77	384.26	384.92	0.002200	2.02	371.34	461.96	0.49	45.90
Reach 1	25969	5_BU				1.06	290.80	381.43	384.01	383.68	384.17	0.003714	1.91	183.13	271.43	0.59	72.64

HEC-RAS Plan: KR_Jam_20600 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	25969	1_BU				1.20	363.60	381.43	384.20	383.85	384.35	0.003150	1.91	247.06	414.87	0.56	68.88
Reach 1	25969	0p5_BU				1.24	389.40	381.43	384.25	383.95	384.40	0.003123	1.95	266.37	442.54	0.56	68.00
Reach 1	25969	0p5-CC-LC_BU				1.47	545.10	381.43	384.49	384.16	384.64	0.002691	2.02	384.52	525.05	0.53	60.43
Reach 1	25849	5_BU				1.47	290.80	380.61	383.22	383.14	383.66	0.006096	3.04	109.19	114.49	0.80	89.89
Reach 1	25849	1_BU				1.57	363.60	380.61	383.43	383.39	383.89	0.006150	3.19	137.99	159.38	0.81	86.39
Reach 1	25849	0p5_BU				1.60	389.40	380.61	383.50	383.49	383.95	0.005963	3.18	149.97	170.85	0.80	84.34
Reach 1	25849	0p5-CC-LC_BU				1.75	545.10	380.61	383.82	383.80	384.27	0.005659	3.29	215.39	255.25	0.79	75.34
Reach 1	25750	5_BU				1.68	290.80	379.67	383.13	382.59	383.28	0.001855	1.90	204.16	215.40	0.47	82.34
Reach 1	25750	1_BU				1.75	363.60	379.67	383.37	382.79	383.52	0.001721	1.92	266.43	302.58	0.46	76.74
Reach 1	25750	0p5_BU				1.80	389.40	379.67	383.45	382.84	383.60	0.001686	1.92	291.44	350.73	0.46	75.13
Reach 1	25750	0p5-CC-LC_BU				2.12	545.10	379.67	383.82	383.09	383.95	0.001449	1.95	459.90	547.44	0.43	65.55
Reach 1	25700	5_BU				2.04	290.80	379.24	382.84	382.01	383.15	0.002751	2.52	130.86	141.75	0.56	95.98
Reach 1	25700	1_BU				2.15	363.60	379.24	383.05	382.34	383.39	0.002957	2.70	163.50	173.70	0.59	91.04
Reach 1	25700	0p5_BU				2.21	389.40	379.24	383.12	382.55	383.47	0.002939	2.75	176.17	187.98	0.59	89.28
Reach 1	25700	0p5-CC-LC_BU				2.52	545.10	379.24	383.45	383.26	383.83	0.002929	2.99	251.31	269.96	0.60	79.86
Reach 1	25650	5_BU				2.27	290.80	379.37	382.84	381.72	383.02	0.001474	1.99	180.63	202.08	0.42	90.34
Reach 1	25650	1_BU				2.36	363.60	379.37	383.07	381.99	383.25	0.001512	2.07	235.53	279.42	0.43	82.98
Reach 1	25650	0p5_BU				2.36	389.40	379.37	383.15	382.10	383.33	0.001520	2.07	258.39	300.83	0.43	80.21
Reach 1	25650	0p5-CC-LC_BU				2.64	545.10	379.37	383.53	382.97	383.69	0.001314	2.07	382.70	352.01	0.41	66.96
Reach 1	25600	5_BU				2.15	290.80	379.47	382.73	381.76	382.94	0.001797	2.12	164.31	159.32	0.46	89.93
Reach 1	25600	1_BU				2.19	363.60	379.47	382.94	382.19	383.17	0.002016	2.27	200.26	194.66	0.49	84.75
Reach 1	25600	0p5_BU				2.21	389.40	379.47	383.01	382.32	383.25	0.002049	2.30	214.72	209.74	0.50	82.94
Reach 1	25600	0p5-CC-LC_BU				2.53	545.10	379.47	383.36	382.89	383.61	0.002047	2.52	303.82	304.77	0.51	74.84
Reach 1	25550	5_BU				1.75	290.80	379.57	382.76	382.08	382.85	0.001197	1.51	297.50	340.41	0.37	70.01
Reach 1	25550	1_BU				1.97	363.60	379.57	382.99	382.32	383.07	0.001045	1.53	378.98	382.31	0.35	64.04
Reach 1	25550	0p5_BU				2.04	389.40	379.57	383.06	382.46	383.15	0.000992	1.53	408.79	394.04	0.34	62.09
Reach 1	25550	0p5-CC-LC_BU				2.41	545.10	379.57	383.43	382.64	383.52	0.000893	1.62	564.13	460.89	0.33	55.28
Reach 1	25500	5_BU				1.84	290.80	379.67	382.62	381.71	382.77	0.001612	1.82	176.30	136.72	0.43	90.15
Reach 1	25500	1_BU				2.02	363.60	379.67	382.82	382.05	383.00	0.001713	1.99	204.97	150.79	0.45	87.48
Reach 1	25500	0p5_BU				2.08	389.40	379.67	382.88	382.16	383.08	0.001722	2.04	215.47	154.92	0.45	86.49
Reach 1	25500	0p5-CC-LC_BU				2.37	545.10	379.67	383.18	382.51	383.44	0.002027	2.41	268.28	199.68	0.50	83.45
Reach 1	25458	5_BU				1.31	290.80	379.86	382.43	382.17	382.66	0.003940	2.26	142.92	138.20	0.63	78.51
Reach 1	25458	1_BU				1.44	363.60	379.86	382.65	382.32	382.88	0.003585	2.29	174.71	154.29	0.61	74.64
Reach 1	25458	0p5_BU				1.45	389.40	379.86	382.73	382.37	382.96	0.003497	2.27	187.71	173.04	0.60	73.18
Reach 1	25458	0p5-CC-LC_BU				1.74	545.10	379.86	383.06	382.63	383.32	0.003224	2.45	257.78	242.41	0.59	69.47
Reach 1	25400	5_BU				1.66	290.80	379.62	382.24	381.85	382.46	0.002814	2.24	147.71	119.65	0.56	75.05
Reach 1	25400	1_BU				1.79	363.60	379.62	382.46	382.02	382.70	0.002836	2.36	175.03	133.97	0.56	71.54
Reach 1	25400	0p5_BU				1.79	389.40	379.62	382.52	382.09	382.77	0.002962	2.41	183.67	143.52	0.58	70.72
Reach 1	25400	0p5-CC-LC_BU				1.91	545.10	379.62	382.84	382.38	383.13	0.003170	2.61	246.24	241.43	0.60	65.42
Reach 1	25350	5_BU				1.79	290.80	379.52	382.12	381.57	382.29	0.002029	2.00	172.48	147.10	0.48	76.05
Reach 1	25350	1_BU				1.79	363.60	379.52	382.33	381.75	382.51	0.002221	2.09	204.77	171.33	0.50	71.58
Reach 1	25350	0p5_BU				1.84	389.40	379.52	382.38	381.82	382.58	0.002281	2.16	214.89	189.97	0.51	71.09
Reach 1	25350	0p5-CC-LC_BU				2.15	545.10	379.52	382.70	382.18	382.93	0.002294	2.40	285.05	248.00	0.52	66.10
Reach 1	25300	5_BU				1.19	290.80	379.41	382.04	381.37	382.15	0.001984	1.49	197.32	174.06	0.44	99.76
Reach 1	25300	1_BU				1.16	363.60	379.41	382.22	381.53	382.35	0.002342	1.59	232.35	209.83	0.47	99.53
Reach 1	25300	0p5_BU				1.18	389.40	379.41	382.27	381.58	382.41	0.002370	1.62	244.26	215.88	0.48	99.46
Reach 1	25300	0p5-CC-LC_BU				1.30	545.10	379.41	382.59	381.83	382.74	0.002415	1.74	321.20	257.64	0.49	99.01
Reach 1	25250	5_BU				1.11	290.80	379.31	381.97	381.24	382.05	0.001627	1.29	228.58	213.12	0.39	99.66
Reach 1	25250	1_BU				1.28	363.60	379.31	382.15	381.45	382.24	0.001565	1.38	267.92	225.28	0.39	99.48
Reach 1	25250	0p5_BU				1.33	389.40	379.31	382.20	381.51	382.30	0.001553	1.41	280.59	226.66	0.39	99.41
Reach 1	25250	0p5-CC-LC_BU				1.64	545.10	379.31	382.52	381.75	382.64	0.001490	1.60	353.35	246.98	0.40	98.93
Reach 1	25169	5_BU				1.09	290.80	379.70	381.71	381.15	381.87	0.003048	1.76	169.38	157.89	0.54	98.48
Reach 1	25169	1_BU				1.18	363.60	379.70	381.88	381.33	382.06	0.003215	1.90	196.77	169.84	0.56	98.32
Reach 1	25169	0p5_BU				1.23	389.40	379.70	381.93	381.38	382.12	0.003211	1.94	205.67	170.74	0.56	98.30
Reach 1	25169	0p5-CC-LC_BU				1.51	545.10	379.70	382.23	381.73	382.47	0.003104	2.18	262.42	210.25	0.57	98.06
Reach 1	25100	5_BU				1.22	290.80	378.81	381.54	381.04	381.68	0.002378	1.66	181.33	213.67	0.48	97.23
Reach 1	25100	1_BU				1.36	363.60	378.81	381.69	381.19	381.86	0.002558	1.85	203.72	217.45	0.51	97.17
Reach 1	25100	0p5_BU				1.41	389.40	378.81	381.74	381.23	381.92	0.002621	1.92	211.01	218.66	0.52	97.15
Reach 1	25100	0p5-CC-LC_BU				1.68	545.10	378.81	382.01	381.46	382.26	0.002880	2.25	252.85	241.99	0.55	97.05
Reach 1	24950	5_BU				0.92	290.80	378.16	380.88	380.71	381.13	0.006355	2.28	138.26	169.65	0.76	95.91
Reach 1	24950	1_BU				1.10	363.60	378.16	381.08	380.85	381.34	0.005190	2.32	173.77	184.29	0.70	94.94
Reach 1	24950	0p5_BU				1.17	389.40	378.16	381.14	380.89	381.41	0.004897	2.33	185.97	189.18	0.69	94.52
Reach 1	24950	0p5-CC-LC_BU				1.50	545.10	378.16	381.49	381.14	381.78	0.003905	2.46	254.63	222.32	0.64	92.54
Reach 1	24800	5_BU				1.60	290.80	377.37	380.57	379.81	380.69	0.001533	1.58	190.15	132.16	0.40	99.04
Reach 1	24800	1_BU				1.79	363.60	377.37	380.77	379.96	380.92	0.001610	1.75	217.69	143.63	0.42	98.68
Reach 1	24800	0p5_BU				1.86	389.40	377.37	380.83	380.02	381.00	0.001632	1.80	227.38	148.82	0.42	98.51
Reach 1	24800	0p5-CC-LC_BU				2.19	545.10	377.37	381.17	380.30	381.39	0.001804	2.11	283.21	185.34	0.46	97.40
Reach 1	24693	5_BU				0.92	290.80	377.15	379.85	379.85	380.31	0.011123	2.99	97.86	109.68	1.00	99.87
Reach 1	24693	1_BU				1.07	363.60	377.15	380.01	380.01	380.53	0.010483	3.20	114.62	110.88	0.99	99.73
Reach 1	24693	0p5_BU				1.12	389.40	377.15	380.06	380.06	380.60	0.010275	3.27	120.40	111.29	0.99	99.69
Reach 1	24693	0p5-CC-LC_BU				1.62	545.10	377.15	380.57	380.34	381.05	0.005620	3.10	186.09	148.90	0.78	98.59
Reach 1	24600	5_BU				2.57	290.80	376.10	379.65	378.04	379.77	0.000770	1.57	186.26	77.20	0.31	99.97
Reach 1	24600	1_BU				2.83	363.60	376.10	379.96	378.27	380.11	0.000840	1.74	211.47	88.64	0.33	99.80
Reach 1	24600	0p5_BU				2.93	389.40	376.10	380.06	378.36	380.22	0.000858	1.80	220.69	98.74	0.34	99.69
Reach 1	24600	0p5-CC-LC_BU				3.45	545.10	376.10	380.58	378.80	380.80	0.000928	2.09	289.35	147.03	0.36	97.60
Reach 1	24500	5_BU				2.32	290.80	375.69	379.51	378.27	379.67	0.001183	1.81	164.42	84.27	0.38	99.25
Reach 1	24500	1_BU				2.58	363.60	375.69	379.81	378.53	380.01	0.001235	1.99	191.77	96.25	0.39	98.30
Reach 1	24500	0p5_BU				2.67	389.40	375.69	379.91	378.60	380.11	0.001249	2.04	201.25	98.49	0.40	97.94
Reach 1	24500	0p5-CC-LC_BU				3.17	545.10	375.69	380.42	379.03	380.69	0.001305	2.34	260.26	136.36	0.42	95.60
Reach 1	24400	5_BU				2.23	290.80	375.71	379.24	378.32	379.51	0.002067	2.32	126.02	63.01	0.50	99.96
Reach 1	24400	1_BU				2.43	363.60	375.71	379.48	378.58	379.82	0.002382	2.60	142.42	69.92	0.53	99.63
Reach 1	24400	0p5_BU				2.49	389.40	375.71	379.56	378.66	379.93	0.002468	2.69	148.04	71.77	0.54	99.47
Reach 1	24400	0p5-CC-LC_BU				2.83	545.10	375.71	379.97	379.12	380.48	0.002912	3.20	178.94	86.27	0.61	98.35
Reach 1	24350	5_BU				2.29	290.80	375.54	379.18	378.09	379.40	0.001817	2.08	141.18	67.13	0.44	99.81
Reach 1	24350	1_BU				2.47	363.60	375.54	379.42	378.34	379.70	0.002122	2.34	158.94	80.82	0.48	99.42
Reach 1	24350	0p5_BU				2.52	389.40	375.54	379.50	378.41	379.80	0.002222	2.42	165.49	87.12	0.49	99.24
Reach 1	24350	0p5-CC-LC_BU				2.91	545.10	375.54	379.91	378.87	380.32	0.002589	2.87	206.78	116.83	0.54	97.66
Reach 1	24300	5_BU				2.20	290.80	375.93	379.12	378.07	379.31	0.001463	1.94	150.46	75.09	0.42	99.92
Reach 1	24300	1_BU				2.39	363.60	375.93	379.35	378.30	379.59	0.001671	2.19	168.53	82.28	0.45	99.67
Reach 1	24300	0p5_BU				2.44	389.40	375.93	379.42	378.37	379.69	0.001741	2.27	174.85	86.53	0.46	99.56
Reach 1	24300	0p5-CC-LC_BU				2.79	545.10	375.93	379.82	378.78	380.19	0.002067	2.70	214.30	111.97	0.52	98.52
Reach 1	24250	5_BU				2.22	290.80	376.30	379.08	377.96	379.23	0.001133	1.72	173.78	92.13	0.37	99.09
Reach 1	24250	1_BU				2.44	363.60	376.30	379.32	378.16	379.50	0.001266	1.94	196.30	101.16	0.40	98.43
Reach 1	24250	0p5_BU				2.52	389.40	376.30	379.39	378.23	379.59	0.001306	2.01	204.05	103.10	0.40	98.16
Reach 1	24250	0p5-CC-LC_BU				2.91	545.10	376.30	379.80	378.61	380.08	0.001515	2.38	252.70	153.49	0.45	96.65
Reach 1	24200	5_BU				1.92	290.80	376.73	379.00	378.13	379.17	0.001491	1.80	166.58	98.15	0.41	98.92
Reach 1	24200	1_BU				2.12	363.60	376.73	379.23	378.31	379.43	0.001603	1.99	189.60	102.93	0.44	98.26
Reach 1	24200	0p5_BU				2.20	389.40	376.73	379.31	378.37	379.52	0.001634	2.06	197.42	106.93	0.44	98.04

HEC-RAS Plan: KR_Jam_20600 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	24200	0p5-CC-LC_BU				2.60	545.10	376.73	379.71	378.74	380.00	0.001771	2.39	247.88	158.75	0.47	96.49
Reach 1	24150	5_BU				1.65	290.80	376.70	378.87	378.23	379.07	0.002248	2.00	147.33	95.95	0.50	99.58
Reach 1	24150	1_BU				1.87	363.60	376.70	379.09	378.42	379.33	0.002312	2.20	168.64	98.94	0.51	99.17
Reach 1	24150	0p5_BU				1.94	389.40	376.70	379.16	378.47	379.42	0.002333	2.26	175.78	101.03	0.52	99.03
Reach 1	24150	0p5-CC-LC_BU				2.32	545.10	376.70	379.55	378.81	379.89	0.002434	2.61	221.22	137.47	0.55	97.90
Reach 1	24100	5_BU				1.73	290.80	376.59	378.75	378.09	378.96	0.002236	2.05	144.32	93.93	0.50	99.46
Reach 1	24100	1_BU				1.93	363.60	376.59	378.96	378.27	379.22	0.002376	2.28	164.09	99.11	0.52	98.87
Reach 1	24100	0p5_BU				2.00	389.40	376.59	379.02	378.33	379.30	0.002420	2.35	170.87	101.93	0.53	98.65
Reach 1	24100	0p5-CC-LC_BU				2.36	545.10	376.59	379.39	378.71	379.76	0.002640	2.75	211.61	130.46	0.57	97.28
Reach 1	24050	5_BU				1.78	290.80	376.51	378.65	377.94	378.85	0.002068	2.02	146.22	154.30	0.48	99.68
Reach 1	24050	1_BU				1.97	363.60	376.51	378.84	378.13	379.10	0.002266	2.26	165.28	165.48	0.51	99.17
Reach 1	24050	0p5_BU				2.04	389.40	376.51	378.91	378.19	379.18	0.002327	2.34	172.02	171.76	0.52	98.96
Reach 1	24050	0p5-CC-LC_BU				2.39	545.10	376.51	379.25	378.55	379.63	0.002608	2.75	211.70	193.20	0.57	97.41
Reach 1	24000	5_BU				1.80	290.80	376.41	378.55	377.83	378.75	0.002004	1.99	146.69	119.15	0.47	99.96
Reach 1	24000	1_BU				1.97	363.60	376.41	378.73	378.00	378.99	0.002282	2.25	163.94	128.24	0.51	99.63
Reach 1	24000	0p5_BU				2.03	389.40	376.41	378.79	378.07	379.07	0.002379	2.34	169.70	133.86	0.53	99.51
Reach 1	24000	0p5-CC-LC_BU				2.32	545.10	376.41	379.10	378.41	379.49	0.002861	2.81	205.29	189.72	0.59	98.42
Reach 1	23950	5_BU				1.70	290.80	376.45	378.45	377.80	378.64	0.002072	1.95	158.08	149.75	0.48	97.52
Reach 1	23950	1_BU				1.86	363.60	376.45	378.63	377.98	378.86	0.002311	2.19	179.52	160.16	0.51	96.43
Reach 1	23950	0p5_BU				1.92	389.40	376.45	378.68	378.05	378.94	0.002393	2.27	186.74	164.37	0.52	96.09
Reach 1	23950	0p5-CC-LC_BU				2.18	545.10	376.45	378.98	378.40	379.33	0.002849	2.70	231.29	220.26	0.58	94.43
Reach 1	23900	5_BU				1.61	290.80	376.38	378.36	377.74	378.53	0.002005	1.86	166.89	160.21	0.47	95.73
Reach 1	23900	1_BU				1.77	363.60	376.38	378.53	377.91	378.74	0.002248	2.10	188.45	181.46	0.50	95.07
Reach 1	23900	0p5_BU				1.83	389.40	376.38	378.58	377.97	378.81	0.002326	2.18	195.91	190.09	0.51	94.79
Reach 1	23900	0p5-CC-LC_BU				2.11	545.10	376.38	378.86	378.26	379.18	0.002713	2.59	246.74	271.55	0.57	93.04
Reach 1	23850	5_BU				1.54	290.80	376.45	378.27	377.67	378.43	0.002019	1.80	172.44	166.51	0.46	94.47
Reach 1	23850	1_BU				1.68	363.60	376.45	378.42	377.82	378.62	0.002297	2.04	193.09	182.82	0.50	93.77
Reach 1	23850	0p5_BU				1.72	389.40	376.45	378.47	377.87	378.68	0.002394	2.12	199.85	195.75	0.51	93.54
Reach 1	23850	0p5-CC-LC_BU				1.94	545.10	376.45	378.72	378.17	379.03	0.002982	2.56	239.05	259.79	0.59	92.87
Reach 1	23800	5_BU				1.38	290.80	376.34	378.14	377.66	378.31	0.002516	1.87	174.24	198.61	0.51	92.85
Reach 1	23800	1_BU				1.52	363.60	376.34	378.28	377.82	378.49	0.002807	2.11	196.87	217.70	0.55	91.67
Reach 1	23800	0p5_BU				1.56	389.40	376.34	378.32	377.87	378.54	0.002911	2.18	204.27	224.19	0.56	91.27
Reach 1	23800	0p5-CC-LC_BU				1.79	545.10	376.34	378.55	378.16	378.86	0.003471	2.61	245.59	274.14	0.62	89.32
Reach 1	23750	5_BU				1.12	290.80	376.43	378.03	377.61	378.15	0.002562	1.63	219.60	253.72	0.49	79.36
Reach 1	23750	1_BU				1.24	363.60	376.43	378.16	377.73	378.30	0.002785	1.82	254.12	272.81	0.52	78.90
Reach 1	23750	0p5_BU				1.28	389.40	376.43	378.21	377.77	378.36	0.002826	1.86	266.18	283.89	0.53	78.31
Reach 1	23750	0p5-CC-LC_BU				1.50	545.10	376.43	378.45	377.98	378.63	0.002973	2.09	342.71	345.92	0.54	74.86
Reach 1	23700	5_BU				0.80	290.80	376.64	377.87	377.52	377.96	0.003624	1.55	241.45	354.54	0.55	60.76
Reach 1	23700	1_BU				0.93	363.60	376.64	378.01	377.62	378.11	0.003282	1.63	293.74	393.19	0.54	60.18
Reach 1	23700	0p5_BU				0.98	389.40	376.64	378.05	377.62	378.16	0.003165	1.65	312.75	409.28	0.53	59.82
Reach 1	23700	0p5-CC-LC_BU				1.23	545.10	376.64	378.32	377.80	378.43	0.002639	1.74	441.31	575.24	0.50	57.31
Reach 1	23650	5_BU				0.83	290.80	376.40	377.63	377.35	377.74	0.003983	1.66	205.91	310.46	0.58	64.76
Reach 1	23650	1_BU				1.00	363.60	376.40	377.81	377.45	377.92	0.003313	1.71	265.49	368.31	0.55	64.64
Reach 1	23650	0p5_BU				1.05	389.40	376.40	377.86	377.47	377.98	0.003181	1.73	286.04	381.40	0.54	64.45
Reach 1	23650	0p5-CC-LC_BU				1.26	545.10	376.40	378.16	377.65	378.28	0.002670	1.77	419.14	516.77	0.50	61.08
Reach 1	23600	5_BU				0.90	290.80	375.86	377.50	377.06	377.58	0.002461	1.40	257.27	345.75	0.47	60.95
Reach 1	23600	1_BU				1.09	363.60	375.86	377.71	377.15	377.78	0.001987	1.42	332.69	385.06	0.44	61.02
Reach 1	23600	0p5_BU				1.14	389.40	375.86	377.77	377.18	377.84	0.001890	1.43	356.60	400.61	0.43	60.62
Reach 1	23600	0p5-CC-LC_BU				1.37	545.10	375.86	378.08	377.35	378.16	0.001635	1.50	495.76	481.87	0.41	58.26
Reach 1	23550	5_BU				0.95	290.80	375.45	377.39	376.96	377.47	0.002182	1.36	236.99	313.73	0.44	65.22
Reach 1	23550	1_BU				1.17	363.60	375.45	377.62	377.06	377.70	0.001688	1.37	316.85	368.80	0.40	65.68
Reach 1	23550	0p5_BU				1.23	389.40	375.45	377.69	377.10	377.77	0.001631	1.39	340.74	380.78	0.40	65.69
Reach 1	23550	0p5-CC-LC_BU				1.44	545.10	375.45	378.01	377.30	378.10	0.001474	1.47	477.90	480.14	0.39	62.83
Reach 1	23500	5_BU				1.07	290.80	375.07	377.32	376.64	377.38	0.001478	1.20	259.37	271.97	0.37	66.76
Reach 1	23500	1_BU				1.27	363.60	375.07	377.56	376.76	377.63	0.001223	1.22	337.38	351.98	0.34	67.13
Reach 1	23500	0p5_BU				1.32	389.40	375.07	377.63	376.80	377.69	0.001196	1.24	361.03	365.21	0.34	66.90
Reach 1	23500	0p5-CC-LC_BU				1.58	545.10	375.07	377.96	377.02	378.03	0.001137	1.36	490.52	445.45	0.34	65.60
Reach 1	23450	5_BU				1.17	290.80	375.14	377.26	376.42	377.32	0.001039	1.11	286.58	266.19	0.33	72.81
Reach 1	23450	1_BU				1.33	363.60	375.14	377.52	376.54	377.57	0.000929	1.13	360.26	316.50	0.31	72.67
Reach 1	23450	0p5_BU				1.38	389.40	375.14	377.58	376.57	377.64	0.000928	1.16	381.59	331.29	0.31	72.77
Reach 1	23450	0p5-CC-LC_BU				1.47	545.10	375.14	377.91	376.80	377.98	0.001050	1.24	506.70	451.63	0.33	69.99
Reach 1	23400	5_BU				1.24	290.80	375.03	377.22	376.39	377.27	0.000981	1.12	281.95	236.92	0.32	71.29
Reach 1	23400	1_BU				1.31	363.60	375.03	377.47	376.50	377.53	0.000958	1.12	347.88	283.85	0.31	70.00
Reach 1	23400	0p5_BU				1.36	389.40	375.03	377.54	376.53	377.60	0.000952	1.15	366.76	291.93	0.31	70.12
Reach 1	23400	0p5-CC-LC_BU				1.48	545.10	375.03	377.85	376.74	377.93	0.001086	1.28	466.91	368.71	0.33	69.09
Reach 1	23300	5_BU				1.31	290.80	374.20	377.07	376.25	377.16	0.001496	1.39	227.92	199.01	0.39	90.11
Reach 1	23300	1_BU				1.17	363.60	374.20	377.33	376.40	377.41	0.001671	1.36	290.64	278.42	0.40	87.61
Reach 1	23300	0p5_BU				1.21	389.40	374.20	377.40	376.45	377.49	0.001615	1.37	310.30	289.07	0.40	87.39
Reach 1	23300	0p5-CC-LC_BU				1.41	545.10	374.20	377.70	376.71	377.80	0.001616	1.52	404.46	343.80	0.41	86.73
Reach 1	23200	5_BU				1.16	290.80	374.25	376.74	376.38	376.93	0.003524	1.99	152.18	144.55	0.59	94.74
Reach 1	23200	1_BU				1.18	363.60	374.25	376.97	376.53	377.17	0.003544	2.01	189.81	179.65	0.59	93.38
Reach 1	23200	0p5_BU				1.12	389.40	374.25	377.04	376.57	377.24	0.003779	2.01	202.97	198.26	0.61	92.65
Reach 1	23200	0p5-CC-LC_BU				1.23	545.10	374.25	377.33	376.86	377.55	0.003851	2.16	267.22	259.91	0.62	91.24
Reach 1	23016	5_BU				1.25	290.80	373.81	376.31		376.42	0.001968	1.55	208.98	241.51	0.44	83.50
Reach 1	23016	1_BU				1.23	363.60	373.81	376.52		376.64	0.002104	1.59	262.07	302.59	0.46	80.94
Reach 1	23016	0p5_BU				1.26	389.40	373.81	376.58		376.69	0.002076	1.61	277.49	313.80	0.46	80.04
Reach 1	23016	0p5-CC-LC_BU				1.42	545.10	373.81	376.87		377.01	0.002026	1.71	365.03	351.16	0.46	75.87
Reach 1	22900	5_BU				1.35	290.80	373.42	376.01		376.16	0.002412	1.81	177.51	214.82	0.50	90.94
Reach 1	22900	1_BU				1.32	363.60	373.42	376.17		376.34	0.002853	1.94	211.40	268.69	0.54	87.91
Reach 1	22900	0p5_BU				1.33	389.40	373.42	376.22		376.40	0.002963	1.98	223.23	286.80	0.55	86.92
Reach 1	22900	0p5-CC-LC_BU				1.24	545.10	373.42	376.49		376.68	0.003665	2.10	302.05	383.67	0.60	81.15
Reach 1	22750	5_BU				1.16	290.80	372.99	375.86		375.92	0.000967	1.03	283.09	278.01	0.31	99.59
Reach 1	22750	1_BU				1.25	363.60	372.99	376.00		376.07	0.001072	1.14	321.25	299.31	0.33	98.90
Reach 1	22750	0p5_BU				1.28	389.40	372.99	376.04		376.11	0.001100	1.18	333.95	313.95	0.33	98.62
Reach 1	22750	0p5-CC-LC_BU				1.43	545.10	372.99	376.27		376.36	0.001289	1.37	406.28	376.35	0.37	96.53
Reach 1	22584	5_BU				2.32	290.80	372.69	375.79		375.83	0.000295	0.91	386.84	378.35	0.19	88.90
Reach 1	22584	1_BU				2.45	363.60	372.69	375.92		375.97	0.000355	1.03	434.04	402.59	0.21	85.41
Reach 1	22584	0p5_BU				2.49	389.40	372.69	375.96		376.01	0.000375	1.07	449.48	412.41	0.22	84.22
Reach 1	22584	0p5-CC-LC_BU				2.70	545.10	372.69	376.17		376.24	0.000486	1.29	534.64	470.61	0.25	78.14
Reach 1	22500	5_BU	375.38	0.40	375.78	2.12	290.80	372.35	375.75		375.78	0.001310	0.72	376.03	428.07	0.16	59.09
Reach 1	22500	1_BU	375.51	0.40	375.91	2.25	363.60	372.35	375.87		375.92	0.001349	0.75	426.62	458.33	0.16	52.58
Reach 1	22500	0p5_BU	375.55	0.40	375.95	2.28	389.40	372.35	375.91		375.96	0.001361	0.76	442.92	466.35	0.16	50.69
Reach 1	22500	0p5-CC-LC_BU	375.74	0.40	376.14	2.48	545.10	372.35	376.10		376.17	0.001469	0.84	529.36	509.07	0.17	42.94
Reach 1	22400	5_BU	373.33	2.26	375.58	0.67	290.80	372.16	375.39	375.33	375.56	0.004110	0.58	196.32	433.04	0.23	10.44
Reach 1	22400	1_BU	373.21	2.46	375.67	0.59	363.60	372.16	375.46	375.42	375.68	0.004631	0.57	209.03	451.85	0.24	6.77
Reach 1	22400	0p5_BU	373.18	2.52	375.70	0.57	389.40	372.16	375.49	375.49	375.72	0.004692	0.56	217.05	465.12	0.24	5.97
Reach 1	22400	0p5-CC-LC_BU	373.10	2.75	375.85	0.52	545.10	372.16	375.62	375.62	375.92	0.004658	0.52	263.63	496.90	0.23	3.42

HEC-RAS Plan: KR_Jam_20600 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	22300	5_BU	372.92	2.39	375.31	0.60	290.80	371.96	375.11		375.21	0.002798	0.44	243.51	507.79	0.18	5.46
Reach 1	22300	1_BU	372.92	2.49	375.41	0.60	363.60	371.96	375.20		375.32	0.002488	0.42	285.82	526.30	0.17	4.17
Reach 1	22300	0p5_BU	372.93	2.52	375.45	0.60	389.40	371.96	375.24	375.06	375.35	0.002420	0.42	299.38	532.32	0.17	3.86
Reach 1	22300	0p5-CC-LC_BU	372.99	2.65	375.64	0.65	545.10	371.96	375.42	375.18	375.56	0.002039	0.40	384.37	558.50	0.16	2.92
Reach 1	22200	5_BU	372.85	2.20	375.06	0.67	290.80	371.77	374.87		374.96	0.001263	0.32	258.43	443.97	0.13	5.56
Reach 1	22200	1_BU	372.97	2.21	375.18	0.75	363.60	371.77	374.99		375.08	0.001206	0.34	310.45	466.57	0.13	5.50
Reach 1	22200	0p5_BU	373.00	2.22	375.22	0.75	389.40	371.77	375.03		375.12	0.001172	0.34	326.37	474.99	0.12	5.29
Reach 1	22200	0p5-CC-LC_BU	373.16	2.27	375.43	0.79	545.10	371.77	375.24		375.36	0.001041	0.33	420.86	517.96	0.12	4.57
Reach 1	22094	5_BU	372.72	2.15	374.87	0.54	310.30	371.63	374.69		374.77	0.000898	0.38	278.44	445.71	0.16	6.09
Reach 1	22094	1_BU	372.83	2.16	375.00	0.62	389.90	371.63	374.81		374.90	0.000875	0.41	330.30	461.58	0.17	6.35
Reach 1	22094	0p5_BU	372.85	2.18	375.03	0.63	418.50	371.63	374.85		374.94	0.000889	0.42	344.78	467.76	0.17	6.22
Reach 1	22094	0p5-CC-LC_BU	372.96	2.29	375.25	0.68	586.00	371.63	375.06		375.17	0.000994	0.47	430.47	505.82	0.18	5.87
Reach 1	22050	5_BU	372.72	2.10	374.83	0.73	310.30	371.32	374.65		374.69	0.003118	0.54	366.95	497.63	0.20	11.75
Reach 1	22050	1_BU	372.82	2.14	374.96	0.79	389.90	371.32	374.78		374.83	0.002971	0.55	424.34	505.67	0.20	10.87
Reach 1	22050	0p5_BU	372.84	2.16	375.00	0.79	418.50	371.32	374.82		374.87	0.003013	0.56	439.90	508.22	0.20	10.47
Reach 1	22050	0p5-CC-LC_BU	372.90	2.31	375.21	0.75	586.00	371.32	375.02		375.09	0.003224	0.56	521.96	524.47	0.20	8.15
Reach 1	21950	5_BU	371.46	2.49	373.95	0.37	310.30	370.75	373.74	373.74	373.95	0.006944	0.51	159.24	478.75	0.27	2.20
Reach 1	21950	1_BU	371.46	2.58	374.04	0.37	389.90	370.75	373.82	373.82	374.06	0.008250	0.55	190.30	520.38	0.29	1.91
Reach 1	21950	0p5_BU	371.46	2.61	374.07	0.37	418.50	370.75	373.85	373.85	374.09	0.008301	0.55	200.91	529.87	0.29	1.78
Reach 1	21950	0p5-CC-LC_BU	371.44	2.78	374.22	0.37	586.00	370.75	373.99	373.99	374.27	0.008458	0.56	257.57	574.84	0.30	1.24
Reach 1	21825	5_BU	371.38	2.43	373.81	0.27	310.30	370.87	373.61	373.06	373.63	0.000610	0.12	430.05	812.03	0.07	0.57
Reach 1	21825	1_BU	371.41	2.53	373.94	0.28	389.90	370.87	373.73	373.18	373.76	0.000683	0.13	507.51	833.76	0.08	0.56
Reach 1	21825	0p5_BU	371.42	2.56	373.98	0.28	418.50	370.87	373.77	373.20	373.80	0.000698	0.13	531.24	838.86	0.08	0.54
Reach 1	21825	0p5-CC-LC_BU	371.51	2.68	374.19	0.31	586.00	370.87	373.97	373.35	374.01	0.000759	0.15	663.17	856.81	0.09	0.59
Reach 1	21700	5_BU	371.85	1.82	373.67	0.99	310.30	369.78	373.52		373.54	0.002146	0.54	529.14	990.34	0.17	19.99
Reach 1	21700	1_BU	371.91	1.89	373.79	1.03	389.90	369.78	373.63		373.66	0.002268	0.58	613.63	1014.06	0.18	17.71
Reach 1	21700	0p5_BU	371.93	1.91	373.83	1.05	418.50	369.78	373.67		373.69	0.002280	0.58	640.90	1016.67	0.18	17.01
Reach 1	21700	0p5-CC-LC_BU	371.99	2.05	374.04	1.09	586.00	369.78	373.87		373.89	0.002445	0.62	784.52	1027.06	0.19	13.71
Reach 1	21600	5_BU	371.13	2.22	373.35	0.67	310.30	369.52	373.16		373.19	0.003836	0.56	448.20	1021.40	0.22	10.77
Reach 1	21600	1_BU	371.16	2.30	373.46	0.69	389.90	369.52	373.26		373.29	0.003843	0.57	522.93	1040.09	0.22	9.03
Reach 1	21600	0p5_BU	371.17	2.32	373.49	0.69	418.50	369.52	373.30		373.33	0.003834	0.57	547.26	1044.97	0.22	8.57
Reach 1	21600	0p5-CC-LC_BU	371.20	2.48	373.68	0.70	586.00	369.52	373.47		373.51	0.003877	0.58	675.89	1065.78	0.22	6.50
Reach 1	21530	5_BU	370.44	2.53	372.97	0.19	310.30	369.79	372.76		372.79	0.003787	0.24	406.82	1026.98	0.18	0.71
Reach 1	21530	1_BU	370.47	2.63	373.10	0.20	389.90	369.79	372.88		372.91	0.003494	0.24	499.09	1064.50	0.17	0.67
Reach 1	21530	0p5_BU	370.48	2.66	373.13	0.20	418.50	369.79	372.91		372.95	0.003500	0.24	524.64	1069.87	0.17	0.64
Reach 1	21530	0p5-CC-LC_BU	370.49	2.83	373.32	0.21	586.00	369.79	373.08		373.13	0.003456	0.24	659.14	1089.58	0.17	0.50
Reach 1	21450	5_BU	370.25	2.57	372.82	0.52	310.30	368.92	372.61		372.63	0.002380	0.60	501.81	1069.74	0.27	7.36
Reach 1	21450	1_BU	370.29	2.66	372.96	0.54	389.90	368.92	372.73		372.75	0.002447	0.63	600.83	1107.21	0.27	6.53
Reach 1	21450	0p5_BU	370.30	2.69	372.99	0.54	418.50	368.92	372.76		372.79	0.002469	0.63	626.72	1110.95	0.27	6.20
Reach 1	21450	0p5-CC-LC_BU	370.32	2.85	373.17	0.56	586.00	368.92	372.94		372.97	0.002619	0.66	764.97	1128.13	0.28	4.85
Reach 1	21319	5_BU	370.05	2.51	372.56	0.98	310.30	368.49	372.35		372.38	0.003620	1.13	411.06	1050.02	0.36	18.09
Reach 1	21319	1_BU	370.11	2.59	372.69	1.01	389.90	368.49	372.48		372.51	0.003536	1.14	518.12	1109.52	0.36	15.44
Reach 1	21319	0p5_BU	370.12	2.61	372.73	1.01	418.50	368.49	372.51		372.54	0.003575	1.15	544.30	1120.12	0.36	14.63
Reach 1	21319	0p5-CC-LC_BU	370.16	2.73	372.90	1.03	586.00	368.49	372.67		372.71	0.003799	1.20	682.38	1147.41	0.38	11.43
Reach 1	21250	5_BU	369.57	2.66	372.23	0.67	310.30	368.22	372.00		372.05	0.007330	0.77	314.93	964.85	0.30	8.02
Reach 1	21250	1_BU	369.63	2.74	372.37	0.67	389.90	368.22	372.14		372.18	0.007442	0.78	424.00	1066.19	0.30	7.03
Reach 1	21250	0p5_BU	369.64	2.77	372.40	0.67	418.50	368.22	372.17		372.21	0.007389	0.78	450.70	1078.88	0.30	6.63
Reach 1	21250	0p5-CC-LC_BU	369.70	2.88	372.57	0.69	586.00	368.22	372.33		372.38	0.006649	0.75	592.31	1145.29	0.29	5.00
Reach 1	21200	5_BU	369.32	2.66	371.99	0.63	310.30	368.17	371.76		371.83	0.006584	0.71	266.71	717.05	0.28	5.69
Reach 1	21200	1_BU	369.36	2.77	372.13	0.64	389.90	368.17	371.89		371.96	0.006759	0.72	351.44	935.89	0.29	4.87
Reach 1	21200	0p5_BU	369.37	2.80	372.16	0.62	418.50	368.17	371.93		371.99	0.006700	0.71	377.43	966.86	0.29	4.51
Reach 1	21200	0p5-CC-LC_BU	369.43	2.94	372.37	0.53	586.00	368.17	372.12		372.18	0.006281	0.62	537.74	1098.83	0.27	3.12
Reach 1	21150	5_BU	369.26	2.52	371.79	0.55	310.30	368.09	371.57		371.65	0.004983	0.56	272.24	658.30	0.24	4.84
Reach 1	21150	1_BU	369.26	2.65	371.91	0.55	389.90	368.09	371.69		371.76	0.005524	0.59	339.36	884.20	0.25	4.03
Reach 1	21150	0p5_BU	369.28	2.67	371.96	0.56	418.50	368.09	371.73		371.80	0.005301	0.58	370.92	939.17	0.25	3.85
Reach 1	21150	0p5-CC-LC_BU	369.39	2.80	372.19	0.60	586.00	368.09	371.96		372.01	0.004310	0.55	563.50	1141.82	0.23	3.13
Reach 1	21100	5_BU	369.34	2.35	371.68	0.62	310.30	368.03	371.49	370.83	371.52	0.002263	0.66	367.20	762.01	0.27	7.85
Reach 1	21100	1_BU	369.39	2.43	371.82	0.66	389.90	368.03	371.62	370.96	371.64	0.001836	0.62	543.33	909.74	0.24	6.40
Reach 1	21100	0p5_BU	369.42	2.45	371.87	0.69	418.50	368.03	371.66	371.00	371.69	0.001804	0.63	583.40	945.94	0.24	6.32
Reach 1	21100	0p5-CC-LC_BU	369.54	2.57	372.11	0.71	586.00	368.03	371.89	371.23	371.92	0.001669	0.62	813.55	1109.27	0.24	5.25
Reach 1	21050	5_BU	369.08	2.40	371.48	0.57	310.30	367.97	371.28		371.33	0.003346	0.76	317.09	630.77	0.32	7.96
Reach 1	21050	1_BU	369.17	2.45	371.62	0.59	389.90	367.97	371.42		371.47	0.003319	0.77	397.18	815.09	0.32	7.53
Reach 1	21050	0p5_BU	369.20	2.47	371.67	0.59	418.50	367.97	371.46		371.51	0.003269	0.77	429.44	869.82	0.32	7.37
Reach 1	21050	0p5-CC-LC_BU	369.30	2.63	371.92	0.66	586.00	367.97	371.70		371.75	0.003456	0.85	617.03	1083.07	0.33	6.78
Reach 1	21000	5_BU	368.44	2.50	370.94	0.33	310.30	367.91	370.73		370.84	0.008647	0.53	219.25	441.73	0.29	1.17
Reach 1	21000	1_BU	368.50	2.60	371.10	0.36	389.90	367.91	370.88		370.98	0.008429	0.55	276.42	507.78	0.29	1.15
Reach 1	21000	0p5_BU	368.51	2.63	371.15	0.37	418.50	367.91	370.93		371.03	0.008647	0.57	297.33	550.73	0.30	1.16
Reach 1	21000	0p5-CC-LC_BU	368.55	2.83	371.38	0.39	586.00	367.91	371.14		371.25	0.008633	0.59	417.50	748.18	0.30	0.95
Reach 1	20950	5_BU	368.50	2.28	370.78	0.30	310.30	367.85	370.59		370.63	0.002736	0.27	325.03	524.94	0.16	1.02
Reach 1	20950	1_BU	368.51	2.42	370.93	0.30	389.90	367.85	370.73		370.78	0.002872	0.29	400.39	674.55	0.17	0.88
Reach 1	20950	0p5_BU	368.51	2.47	370.98	0.31	418.50	367.85	370.77		370.82	0.002903	0.29	427.66	715.70	0.17	0.83
Reach 1	20950	0p5-CC-LC_BU	368.52	2.68	371.20	0.31	586.00	367.85	370.97		371.03	0.003194	0.31	568.31	876.77	0.18	0.66
Reach 1	20892	5_BU	368.68	1.89	370.58	0.50	310.30	367.84	370.42		370.48	0.004953	0.52	289.57	539.79	0.24	3.12
Reach 1	20892	1_BU	368.72	2.01	370.73	0.52	389.90	367.84	370.56		370.62	0.004999	0.54	368.82	691.23	0.24	2.73
Reach 1	20892	0p5_BU	368.73	2.05	370.77	0.52	418.50	367.84	370.60		370.66	0.005065	0.54	395.94	714.28	0.24	2.61
Reach 1	20892	0p5-CC-LC_BU	368.75	2.24	370.99	0.52	586.00	367.84	370.80		370.86	0.004913	0.54	533.01	851.24	0.24	1.93
Reach 1	20850	5_BU	368.70	1.76	370.46	0.51	310.30	367.74	370.31		370.36	0.003993	0.48	320.86	515.10	0.21	3.18
Reach 1	20850	1_BU	368.73	1.87	370.60	0.52	389.90	367.74	370.44		370.49	0.004253	0.50	390.02	636.71	0.22	2.82
Reach 1	20850	0p5_BU	368.73	1.91	370.64	0.52	418.50	367.74	370.48		370.54	0.004265	0.50	413.66	668.01	0.22	2.64
Reach 1	20850	0p5-CC-LC_BU	368.76	2.09	370.85	0.47	586.00	367.74	370.68		370.74	0.004423	0.48	545.20	846.72	0.22	1.90
Reach 1	20800	5_BU	368.56	1.73	370.29	0.48	310.30	367.71	370.15		370.24	0.007847	0.65	233.26	498.49	0.30	4.04
Reach 1	20800	1_BU	368.60	1.85	370.45	0.44	389.90	367.71	370.29		370.38	0.007323	0.59	307.28	602.19	0.28	3.21
Reach 1	20800	0p5_BU	368.61	1.88	370.49	0.43	418.50	367.71	370.34		370.42	0.007240	0.58	331.94	627.89	0.28	2.99
Reach 1	20800	0p5-CC-LC_BU	368.67	2.06	370.72	0.41	586.00	367.71	370.55		370.63	0.006390	0.53	470.63	851.82	0.26	2.22
Reach 1	20750	5_BU	368.49	1.68	370.17	0.43	310.30	367.67	370.02		370.07	0.004197	0.43	332.93	492.36	0.21	2.51
Reach 1	20750	1_BU	368.52	1.80	370.32	0.41	389.90	367.67	370.17		370.22	0.004067	0.42	406.25	603.78	0.21	2.10
Reach 1	20750	0p5_BU	368.54	1.83	370.37	0.42	418.50	367.67	370.22		370.27	0.004006	0.42	432.13	636.61	0.21	2.06
Reach 1	20750	0p5-CC-LC_BU	368.63	1.97	370.60	0.48	586.00	367.67	370.44		370.49	0.003821	0.45	580.93	829.88	0.21	1.92
Reach 1	20700	5_BU	368.55	1.54	370.10	0.51	310.30	367.63	369.97		370.01	0.004178	0.49	327.05	507.55	0.22	4.22
Reach 1	20700	1_BU	368.61	1.64	370.25	0.56	389.90	367.63	370.12		370.17	0.003954	0.50	402.53	591.40	0.22	3.83
Reach 1	20700	0p5_BU	368.64	1.67	370.30	0.57	418.50	367.63	370.16		370.21	0.003848	0.51	428.73	623.79	0.21	3.76
Reach 1	20700	0p5-CC-LC_BU	368.74	1.79	370.53	0.65	586.00	367.63	370.38		370.44	0.003707	0.54	578.60	823.14	0.21	3.40
Reach 1	20650	5_BU	368.55	1.48	370.03	0.60	310.30	367.50	369.90		369.96	0.003365	0.49	299.56	432.16	0.20	5.27
Reach 1	20650	1_BU	368.62	1.56	370.18	0.66	389.90	367.50	370.05		370.11	0.003436	0.53	365.45	536.48	0.21	5.08
Reach 1	20650	0p5_BU	368.64	1.59	370.23	0.68	418.50	367.50	370.10		370.16	0.003471	0.54	389.69	586.94	0.21	5.02
Reach 1	20650	0p5-CC-LC_BU	368.75	1.71	370.46	0.74	586.00	367.50	370.32		370.39	0.003638	0.59	533.43	842.84	0.22	4.50
Reach 1	20600	5_BU	368.12	1.68	369.79	0.30	310.30	367.38	369.65		369.82	0.008631	0.50	180.55	303.98	0.29	2.47
Reach 1	20600	1_BU	368.17	1.78	369.94	0.33	389.90	367.38	369.80		369.97	0.008733	0.54	222.40	397.76	0.30	2.52

HEC-RAS Plan: KR_Jam_20600 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	20600	0p5_BU	368.18	1.81	369.99	0.33	418.50	367.38	369.84		370.02	0.008882	0.56	236.61	420.61	0.31	2.47
Reach 1	20600	0p5-CC-LC_BU	368.27	1.96	370.23	0.37	586.00	367.38	370.07		370.24	0.008321	0.60	338.15	620.84	0.32	2.49
Reach 1	20550	5_BU	369.14	0.40	369.54	1.08	310.30	367.25	369.51		369.58	0.003157	1.38	299.36	457.95	0.42	55.65
Reach 1	20550	1_BU	369.29	0.40	369.69	1.22	389.90	367.25	369.65		369.73	0.003127	1.49	370.74	581.51	0.43	54.11
Reach 1	20550	0p5_BU	369.33	0.40	369.73	1.26	418.50	367.25	369.69		369.77	0.003127	1.52	395.02	626.66	0.43	53.30
Reach 1	20550	0p5-CC-LC_BU	369.54	0.40	369.94	1.47	586.00	367.25	369.90		370.00	0.003322	1.74	540.20	802.22	0.46	50.83
Reach 1	20400	5_BU	368.34	0.40	368.74	0.72	310.30	366.84	368.71		368.88	0.009056	1.79	169.70	263.03	0.67	40.19
Reach 1	20400	1_BU	368.48	0.40	368.88	0.86	389.90	366.84	368.85		369.03	0.009572	2.06	210.55	334.80	0.71	43.99
Reach 1	20400	0p5_BU	368.52	0.40	368.92	0.89	418.50	366.84	368.88		369.07	0.009595	2.12	223.14	359.88	0.72	43.95
Reach 1	20400	0p5-CC-LC_BU	368.75	0.40	369.15	1.11	586.00	366.84	369.11		369.30	0.008504	2.31	324.14	548.50	0.70	43.00
Reach 1	20221	5_BU				0.91	310.30	365.65	368.04		368.09	0.001942	1.10	336.42	488.26	0.37	56.84
Reach 1	20221	1_BU				1.03	389.90	365.65	368.18		368.24	0.001936	1.18	410.32	586.86	0.37	56.33
Reach 1	20221	0p5_BU				1.07	418.50	365.65	368.23		368.29	0.001896	1.20	439.59	618.86	0.37	55.74
Reach 1	20221	0p5-CC-LC_BU				1.23	586.00	365.65	368.45		368.51	0.002045	1.33	585.41	787.15	0.38	53.24
Reach 1	19763	5_BU				0.88	310.30	364.71	366.75		366.84	0.004562	1.41	236.51	330.42	0.48	91.75
Reach 1	19763	1_BU				0.92	389.90	364.71	366.97		367.05	0.004076	1.31	327.58	505.95	0.44	87.18
Reach 1	19763	0p5_BU				0.91	418.50	364.71	367.05		367.12	0.004019	1.26	372.38	590.30	0.42	85.23
Reach 1	19763	0p5-CC-LC_BU				1.02	586.00	364.71	367.38		367.43	0.003116	1.11	600.04	814.54	0.35	75.78
Reach 1	19335	5_BU				1.35	310.30	363.23	365.56	364.87	365.66	0.001963	1.49	237.40	275.09	0.41	94.40
Reach 1	19335	1_BU				1.44	389.90	363.23	365.72	365.07	365.85	0.002265	1.62	289.65	352.69	0.43	92.01
Reach 1	19335	0p5_BU				1.48	418.50	363.23	365.76	365.11	365.91	0.002361	1.66	308.71	384.43	0.44	91.44
Reach 1	19335	0p5-CC-LC_BU				1.43	586.00	363.23	366.11	365.35	366.23	0.003271	1.64	487.32	709.56	0.44	80.73
Reach 1	19009	5_BU				0.64	310.30	362.65	364.93	364.42	364.99	0.002114	1.07	296.34	498.95	0.43	99.54
Reach 1	19009	1_BU				0.68	389.90	362.65	365.06	364.53	365.12	0.002120	1.10	366.57	606.34	0.43	99.06
Reach 1	19009	0p5_BU				0.69	418.50	362.65	365.09	364.57	365.16	0.002157	1.11	389.60	639.56	0.43	98.89
Reach 1	19009	0p5-CC-LC_BU				0.79	586.00	362.65	365.28	364.80	365.35	0.002247	1.19	523.19	793.28	0.43	97.63
Reach 1	18575	5_BU				0.63	310.30	361.28	363.68	363.15	363.73	0.004237	1.00	318.76	567.80	0.40	96.79
Reach 1	18575	1_BU				0.68	389.90	361.28	363.82	363.27	363.87	0.004058	0.98	412.11	715.80	0.38	95.68
Reach 1	18575	0p5_BU				0.70	418.50	361.28	363.87	363.31	363.92	0.003946	0.99	443.08	748.03	0.38	95.26
Reach 1	18575	0p5-CC-LC_BU				0.83	586.00	361.28	364.06	363.53	364.11	0.003706	1.05	601.50	931.18	0.37	93.44
Reach 1	18123	5_BU				1.07	310.30	360.36	362.21	361.82	362.32	0.002875	1.69	238.94	334.97	0.52	66.31
Reach 1	18123	1_BU				1.14	389.90	360.36	362.34	361.97	362.46	0.003046	1.81	287.24	396.99	0.54	63.78
Reach 1	18123	0p5_BU				1.13	418.50	360.36	362.39	362.00	362.51	0.003118	1.83	307.15	428.45	0.55	62.49
Reach 1	18123	0p5-CC-LC_BU				1.20	586.00	360.36	362.63	362.22	362.76	0.003193	1.92	442.24	660.85	0.56	58.26
Reach 1	18000	5_BU				0.99	310.30	359.91	361.94	361.48	362.01	0.002860	1.49	296.38	463.08	0.48	49.86
Reach 1	18000	1_BU				1.12	389.90	359.91	362.09	361.68	362.16	0.002638	1.55	367.14	498.75	0.47	47.49
Reach 1	18000	0p5_BU				1.15	418.50	359.91	362.14	361.71	362.21	0.002596	1.57	392.10	526.92	0.47	46.67
Reach 1	18000	0p5-CC-LC_BU				1.10	586.00	359.91	362.40	361.85	362.47	0.002556	1.52	544.36	669.25	0.46	40.46
Reach 1	17900	5_BU				0.95	310.30	359.66	361.67	361.24	361.77	0.003020	1.58	242.42	360.65	0.52	53.91
Reach 1	17900	1_BU				1.08	389.90	359.66	361.84	361.35	361.94	0.002870	1.67	305.84	417.39	0.51	53.27
Reach 1	17900	0p5_BU				1.12	418.50	359.66	361.89	361.43	361.99	0.002853	1.70	327.50	443.60	0.51	53.00
Reach 1	17900	0p5-CC-LC_BU				1.24	586.00	359.66	362.13	361.64	362.25	0.002933	1.83	452.37	582.85	0.53	50.21
Reach 1	17850	5_BU				1.00	310.30	359.56	361.56	361.04	361.65	0.002775	1.59	258.96	344.65	0.51	59.90
Reach 1	17850	1_BU				1.15	389.90	359.56	361.71	361.20	361.82	0.002745	1.73	317.12	402.50	0.52	60.30
Reach 1	17850	0p5_BU				1.19	418.50	359.56	361.76	361.29	361.87	0.002723	1.77	337.42	423.61	0.52	59.92
Reach 1	17850	0p5-CC-LC_BU				1.39	586.00	359.56	361.99	361.50	362.13	0.002816	2.02	448.18	561.09	0.54	57.93
Reach 1	17800	5_BU				1.13	310.30	359.59	361.43	360.93	361.52	0.002534	1.65	276.88	396.20	0.50	58.23
Reach 1	17800	1_BU				1.15	389.90	359.59	361.60	361.11	361.69	0.002519	1.66	356.33	528.23	0.50	54.08
Reach 1	17800	0p5_BU				1.17	418.50	359.59	361.65	361.15	361.74	0.002531	1.69	384.12	556.48	0.50	53.46
Reach 1	17800	0p5-CC-LC_BU				1.38	586.00	359.59	361.89	361.41	361.99	0.002390	1.83	529.28	665.52	0.50	50.10
Reach 1	17750	5_BU				1.16	310.30	359.63	361.22	360.84	361.36	0.003583	1.96	222.48	326.95	0.58	56.67
Reach 1	17750	1_BU				1.27	389.90	359.63	361.38	361.01	361.52	0.003565	2.07	281.34	437.95	0.58	54.20
Reach 1	17750	0p5_BU				1.31	418.50	359.63	361.43	361.06	361.58	0.003552	2.09	304.56	470.02	0.58	53.26
Reach 1	17750	0p5-CC-LC_BU				1.51	586.00	359.63	361.68	361.30	361.83	0.003461	2.25	435.21	607.39	0.58	48.71
Reach 1	17700	5_BU				1.16	310.30	359.33	361.01	360.56	361.13	0.002672	1.73	232.84	346.60	0.51	60.72
Reach 1	17700	1_BU				1.29	389.90	359.33	361.17	360.69	361.29	0.002695	1.86	293.22	448.97	0.52	59.04
Reach 1	17700	0p5_BU				1.34	418.50	359.33	361.22	360.73	361.34	0.002673	1.90	316.70	487.24	0.52	58.16
Reach 1	17700	0p5-CC-LC_BU				1.58	586.00	359.33	361.46	360.96	361.60	0.002646	2.10	448.63	625.66	0.54	54.33
Reach 1	17650	5_BU				1.00	310.30	359.01	360.74	360.23	360.81	0.002061	1.39	277.45	397.42	0.44	55.45
Reach 1	17650	1_BU				1.15	389.90	359.01	360.89	360.35	360.97	0.001979	1.48	347.26	497.90	0.44	54.45
Reach 1	17650	0p5_BU				1.20	418.50	359.01	360.94	360.40	361.02	0.001964	1.51	373.11	529.22	0.44	54.10
Reach 1	17650	0p5-CC-LC_BU				1.41	586.00	359.01	361.17	360.60	361.26	0.002015	1.69	506.96	647.48	0.46	51.56
Reach 1	17600	5_BU				0.90	310.30	358.88	360.60	360.06	360.68	0.002311	1.35	252.03	368.78	0.46	40.29
Reach 1	17600	1_BU				0.97	389.90	358.88	360.76	360.20	360.84	0.002348	1.44	324.30	507.47	0.47	40.71
Reach 1	17600	0p5_BU				1.00	418.50	358.88	360.82	360.24	360.89	0.002333	1.45	352.39	547.99	0.47	40.51
Reach 1	17600	0p5-CC-LC_BU				1.22	586.00	358.88	361.04	360.50	361.13	0.002394	1.68	489.68	672.99	0.49	40.96
Reach 1	17574	5_BU				0.81	310.30	358.84	360.54	360.01	360.61	0.002531	1.31	263.32	416.15	0.47	37.02
Reach 1	17574	1_BU				0.90	389.90	358.84	360.70	360.16	360.77	0.002419	1.38	342.01	516.65	0.46	37.61
Reach 1	17574	0p5_BU				0.93	418.50	358.84	360.76	360.21	360.83	0.002404	1.40	370.27	551.83	0.47	37.87
Reach 1	17574	0p5-CC-LC_BU				1.12	586.00	358.84	360.98	360.47	361.06	0.002421	1.60	502.67	635.09	0.48	38.40
Reach 1	17500	5_BU				0.61	310.30	358.91	360.39	359.88	360.44	0.001799	0.93	310.55	507.82	0.38	26.18
Reach 1	17500	1_BU				0.75	389.90	358.91	360.58	360.01	360.62	0.001497	0.98	422.96	672.17	0.36	29.10
Reach 1	17500	0p5_BU				0.80	418.50	358.91	360.63	360.05	360.68	0.001550	1.04	458.49	710.02	0.37	30.65
Reach 1	17500	0p5-CC-LC_BU				1.03	586.00	358.91	360.87	360.28	360.91	0.001413	1.16	645.66	870.45	0.37	31.75
Reach 1	17450	5_BU				0.79	310.30	359.04	360.34	359.76	360.40	0.001853	1.11	310.59	532.63	0.40	23.84
Reach 1	17450	1_BU				0.97	389.90	359.04	360.53	359.87	360.58	0.001538	1.16	428.40	668.01	0.38	24.81
Reach 1	17450	0p5_BU				1.02	418.50	359.04	360.58	359.91	360.63	0.001499	1.18	462.84	705.97	0.37	24.77
Reach 1	17450	0p5-CC-LC_BU				1.25	586.00	359.04	360.82	360.18	360.87	0.001376	1.30	650.73	862.50	0.37	23.97
Reach 1	17350	5_BU				0.83	310.30	358.05	360.04	359.63	360.21	0.003855	1.51	182.52	224.25	0.53	36.48
Reach 1	17350	1_BU				0.79	389.90	358.05	360.27	359.83	360.42	0.003758	1.47	250.01	405.70	0.53	36.92
Reach 1	17350	0p5_BU				0.80	418.50	358.05	360.34	359.90	360.48	0.003538	1.44	284.05	490.19	0.52	37.23
Reach 1	17350	0p5-CC-LC_BU				0.96	586.00	358.05	360.65	360.32	360.74	0.002816	1.46	487.11	805.07	0.48	38.71
Reach 1	17200	5_BU				0.90	310.30	357.76	359.56	359.23	359.81	0.006161	2.00	148.21	156.56	0.67	45.45
Reach 1	17200	1_BU				1.08	389.90	357.76	359.81	359.38	360.05	0.005085	2.04	191.80	197.05	0.63	47.81
Reach 1	17200	0p5_BU				1.15	418.50	357.76	359.88	359.48	360.13	0.004868	2.07	207.68	236.80	0.62	48.42
Reach 1	17200	0p5-CC-LC_BU				1.53	586.00	357.76	360.27	359.87	360.46	0.003839	2.20	356.12	541.25	0.57	49.03
Reach 1	17050	5_BU				2.08	310.30	356.29	359.31	358.29	359.46	0.001286	1.73	195.75	168.81	0.38	98.42
Reach 1	17050	1_BU				2.28	389.90	356.29	359.52	358.49	359.70	0.001441	1.93	244.64	284.64	0.41	96.30
Reach 1	17050	0p5_BU				2.34	418.50	356.29	359.59	358.56	359.78	0.001482	1.99	264.96	326.43	0.42	95.22
Reach 1	17050	0p5-CC-LC_BU				2.67	586.00	356.29	359.92	358.91	360.15	0.001595	2.25	408.12	557.30	0.44	87.84
Reach 1	16812	5_BU				1.29	310.30	354.74	358.79	358.37	359.00	0.003176	2.03	164.67	172.46	0.57	97.13
Reach 1	16812	1_BU				1.44	389.90	354.74	358.98	358.54	359.22	0.003193	2.21	199.14	203.94	0.59	96.17
Reach 1	16812	0p5_BU				1.50	418.50	354.74	359.04	358.59	359.29	0.003192	2.26	211.79	219.23	0.59	95.61
Reach 1	16812	0p5-CC-LC_BU				1.80	586.00	354.74	359.33	358.94	359.64	0.003263	2.55	288.64	290.27	0.61	92.15
Reach 1	16285	5_BU				1.29	310.30	354.72	357.31	356.83	357.47	0.002544	1.79	186.03	178.06	0.50	96.89
Reach 1	16285	1_BU				1.47	389.90	354.72	357.49	357.00	357.68	0.002533	1.95	219.80	195.26	0.51	95.47
Reach 1	16285	0p5_BU				1.53	418.50	354.72	357.55	357.05	357.75	0.002503	1.99	233.03	213.33	0.51	95.03
Reach 1	16285	0p5-CC-LC_BU				1.89	586.00	354.72	357.91	357.31	358.13	0.002260	2.18	330.56	349.48	0.51	91.31

HEC-RAS Plan: KR_Jam_20600 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	15937	5_BU				1.15	310.30	353.96	356.55	355.99	356.66	0.001993	1.48	213.08	196.51	0.44	99.64
Reach 1	15937	1_BU				1.32	389.90	353.96	356.79	356.15	356.91	0.001754	1.52	262.73	218.22	0.42	99.27
Reach 1	15937	0p5_BU				1.37	418.50	353.96	356.88	356.19	356.99	0.001694	1.53	282.03	231.75	0.42	99.11
Reach 1	15937	0p5-CC-LC_BU				1.53	586.00	353.96	357.31	356.41	357.43	0.001506	1.55	401.68	322.50	0.40	97.68
Reach 1	15657	5_BU				1.80	310.30	352.57	355.89	355.16	356.09	0.002009	2.00	156.62	94.77	0.48	99.89
Reach 1	15657	1_BU				1.98	389.90	352.57	356.08	355.35	356.34	0.002275	2.26	176.12	114.07	0.51	99.71
Reach 1	15657	0p5_BU				2.05	418.50	352.57	356.15	355.42	356.43	0.002331	2.34	184.40	123.76	0.52	99.58
Reach 1	15657	0p5-CC-LC_BU				2.33	586.00	352.57	356.43	355.77	356.84	0.002921	2.86	226.94	196.65	0.60	98.51
Reach 1	15073	5_BU				1.03	310.30	351.49	354.04	353.78	354.29	0.005298	2.22	139.94	136.15	0.70	100.00
Reach 1	15073	1_BU				1.17	389.90	351.49	354.31	353.94	354.55	0.004314	2.18	178.93	153.78	0.64	99.97
Reach 1	15073	0p5_BU				1.18	418.50	351.49	354.41	353.99	354.64	0.004107	2.15	195.11	165.66	0.63	99.95
Reach 1	15073	0p5-CC-LC_BU				1.50	586.00	351.49	354.93	354.28	355.14	0.002695	2.04	288.09	193.33	0.53	99.86
Reach 1	14797	5_BU				1.93	310.30	350.08	353.33	352.47	353.51	0.001652	1.88	164.99	85.46	0.43	100.00
Reach 1	14797	1_BU				2.20	389.90	350.08	353.63	352.66	353.85	0.001641	2.04	190.74	86.57	0.44	100.00
Reach 1	14797	0p5_BU				2.29	418.50	350.08	353.73	352.73	353.96	0.001638	2.10	199.49	86.94	0.44	100.00
Reach 1	14797	0p5-CC-LC_BU				2.79	586.00	350.08	354.27	353.09	354.56	0.001665	2.38	246.59	88.73	0.45	100.00
Reach 1	14088	5_BU				1.84	320.00	349.51	352.07	351.30	352.26	0.001887	1.96	163.20	156.19	0.46	99.97
Reach 1	14088	1_BU				2.02	403.00	349.51	352.25	351.51	352.51	0.002188	2.25	179.49	159.65	0.51	99.92
Reach 1	14088	0p5_BU				2.08	433.00	349.51	352.31	351.57	352.59	0.002293	2.35	184.87	161.17	0.52	99.90
Reach 1	14088	0p5-CC-LC_BU				2.38	606.20	349.51	352.61	351.92	353.03	0.002826	2.86	213.11	193.90	0.59	99.75
Reach 1	14004	5_BU				1.34	320.00	349.38	351.76	351.47	352.00	0.003720	2.24	154.58	406.98	0.62	92.14
Reach 1	14004	1_BU				1.49	403.00	349.38	351.91	351.64	352.20	0.003913	2.47	177.25	423.28	0.64	89.75
Reach 1	14004	0p5_BU				1.55	433.00	349.38	351.96	351.70	352.27	0.003966	2.54	185.01	430.68	0.65	89.02
Reach 1	14004	0p5-CC-LC_BU				1.83	606.20	349.38	352.25	351.96	352.64	0.004070	2.88	228.44	498.77	0.68	85.56
Reach 1	13755	5_BU				1.05	320.00	347.42	350.84	350.38	350.98	0.003002	1.70	188.76	474.85	0.53	64.78
Reach 1	13755	1_BU				1.24	403.00	347.42	351.03	350.54	351.19	0.002746	1.81	226.33	538.97	0.52	64.86
Reach 1	13755	0p5_BU				1.30	433.00	347.42	351.09	350.60	351.26	0.002685	1.85	239.27	563.02	0.52	64.75
Reach 1	13755	0p5-CC-LC_BU				1.55	606.20	347.42	351.35	350.85	351.56	0.002842	2.14	299.78	633.83	0.55	64.09
Reach 1	13404	5_BU				1.57	320.00	346.33	349.21	349.07	349.66	0.005546	3.02	115.39	194.73	0.77	94.39
Reach 1	13404	1_BU				1.74	403.00	346.33	349.40	349.33	349.91	0.005810	3.30	137.39	221.46	0.80	91.30
Reach 1	13404	0p5_BU				1.79	433.00	346.33	349.45	349.38	349.99	0.005889	3.39	145.42	228.79	0.81	90.21
Reach 1	13404	0p5-CC-LC_BU				2.16	606.20	346.33	349.83	349.83	350.36	0.004970	3.53	215.55	338.32	0.77	81.10
Reach 1	13209	5_BU				1.59	320.00	345.37	348.73	348.16	348.91	0.002341	1.98	180.57	298.16	0.50	85.41
Reach 1	13209	1_BU				1.81	403.00	345.37	348.95	348.37	349.15	0.002256	2.11	215.61	311.89	0.50	82.40
Reach 1	13209	0p5_BU				1.88	433.00	345.37	349.01	348.43	349.22	0.002251	2.16	226.31	313.19	0.50	81.27
Reach 1	13209	0p5-CC-LC_BU				2.20	606.20	345.37	349.34	348.74	349.60	0.002308	2.43	279.56	329.02	0.52	76.65
Reach 1	13100	5_BU				1.53	320.00	345.58	348.43	347.89	348.63	0.002530	2.01	167.58	550.93	0.52	98.07
Reach 1	13100	1_BU				1.77	403.00	345.58	348.67	348.07	348.89	0.002289	2.11	209.49	615.83	0.51	94.73
Reach 1	13100	0p5_BU				1.83	433.00	345.58	348.74	348.14	348.96	0.002283	2.16	221.36	629.43	0.51	93.59
Reach 1	13100	0p5-CC-LC_BU				2.15	606.20	345.58	349.06	348.54	349.33	0.002344	2.44	279.88	723.48	0.53	88.46
Reach 1	13000	5_BU				1.26	320.00	345.10	347.52	347.52	348.15	0.009954	3.51	91.13	184.47	1.00	100.00
Reach 1	13000	1_BU				1.10	403.00	345.10	347.92	347.92	348.45	0.009925	3.20	126.89	334.53	0.98	99.70
Reach 1	13000	0p5_BU				1.13	433.00	345.10	347.98	347.98	348.52	0.009856	3.26	134.58	348.55	0.98	99.52
Reach 1	13000	0p5-CC-LC_BU				1.39	606.20	345.10	348.30	348.30	348.91	0.008577	3.49	179.40	435.98	0.94	97.90
Reach 1	12950	5_BU				1.56	320.00	344.85	347.63	346.40	347.70	0.000835	1.17	272.75	503.53	0.30	100.00
Reach 1	12950	1_BU				1.66	403.00	344.85	347.80	346.56	347.89	0.000973	1.32	305.77	538.18	0.33	99.98
Reach 1	12950	0p5_BU				1.71	433.00	344.85	347.86	346.62	347.96	0.001003	1.37	317.47	549.79	0.33	99.94
Reach 1	12950	0p5-CC-LC_BU				1.96	606.20	344.85	348.13	346.89	348.27	0.001205	1.64	378.37	663.55	0.37	99.25
Reach 1	12887	5_BU				1.05	320.00	344.53	347.45	346.95	347.60	0.003024	1.71	188.96	348.90	0.53	99.38
Reach 1	12887	1_BU				1.12	403.00	344.53	347.61	347.12	347.78	0.003235	1.85	220.56	373.70	0.56	98.99
Reach 1	12887	0p5_BU				1.12	433.00	344.53	347.67	347.17	347.85	0.003372	1.88	232.13	386.49	0.57	98.84
Reach 1	12887	0p5-CC-LC_BU				1.30	606.20	344.53	347.91	347.47	348.14	0.003542	2.14	290.23	441.36	0.60	98.40
Reach 1	12850	5_BU				0.76	320.00	344.40	347.00	347.00	347.38	0.011768	2.72	117.56	295.82	1.00	100.00
Reach 1	12850	1_BU				0.80	403.00	344.40	347.16	347.16	347.56	0.011472	2.79	144.67	346.12	0.99	99.99
Reach 1	12850	0p5_BU				0.82	433.00	344.40	347.21	347.21	347.62	0.011356	2.81	154.13	358.77	0.99	99.99
Reach 1	12850	0p5-CC-LC_BU				1.09	606.20	344.40	347.72	347.45	347.98	0.005000	2.27	269.33	498.23	0.69	99.76
Reach 1	12800	5_BU				1.13	320.00	343.70	346.67	346.29	346.89	0.003993	2.07	154.86	251.95	0.62	99.97
Reach 1	12800	1_BU				1.28	403.00	343.70	347.03	346.45	347.20	0.002820	1.89	224.02	434.02	0.53	97.70
Reach 1	12800	0p5_BU				1.35	433.00	343.70	347.15	346.51	347.31	0.002411	1.81	257.43	471.65	0.50	96.01
Reach 1	12800	0p5-CC-LC_BU				1.75	606.20	343.70	347.71	346.89	347.83	0.001281	1.57	438.76	681.63	0.38	86.22
Reach 1	12735	5_BU				2.19	320.00	340.98	346.75	344.02	346.79	0.000263	0.82	402.63	365.39	0.18	98.81
Reach 1	12735	1_BU				2.47	403.00	340.98	347.09	344.27	347.12	0.000252	0.87	499.59	441.45	0.18	96.04
Reach 1	12735	0p5_BU				2.58	433.00	340.98	347.20	344.35	347.24	0.000243	0.89	536.95	473.84	0.18	94.89
Reach 1	12735	0p5-CC-LC_BU				3.12	606.20	340.98	347.73	344.85	347.78	0.000223	0.96	722.68	586.00	0.17	88.70
Reach 1	12700	5_BU				2.13	320.00	342.78	346.71	345.06	346.77	0.000501	1.12	324.08	394.09	0.24	90.32
Reach 1	12700	1_BU				2.41	403.00	342.78	347.05	345.27	347.11	0.000448	1.15	413.64	483.39	0.24	85.30
Reach 1	12700	0p5_BU				2.51	433.00	342.78	347.17	345.35	347.23	0.000421	1.14	448.20	502.05	0.23	83.11
Reach 1	12700	0p5-CC-LC_BU				3.04	606.20	342.78	347.70	345.79	347.76	0.000363	1.21	622.72	670.36	0.22	75.88
Reach 1	12650	5_BU				2.32	320.00	342.92	346.64	345.22	346.74	0.000753	1.45	252.50	325.79	0.30	87.31
Reach 1	12650	1_BU				2.63	403.00	342.92	346.97	345.47	347.07	0.000695	1.51	309.47	403.37	0.30	82.88
Reach 1	12650	0p5_BU				2.75	433.00	342.92	347.09	345.57	347.19	0.000691	1.55	332.99	441.04	0.30	82.55
Reach 1	12650	0p5-CC-LC_BU				3.28	606.20	342.92	347.62	346.15	347.73	0.000608	1.64	479.16	631.62	0.29	74.44
Reach 1	12600	5_BU				2.36	320.00	342.87	346.55	345.54	346.68	0.001093	1.76	208.72	234.29	0.37	73.79
Reach 1	12600	1_BU				2.61	403.00	342.87	346.88	345.81	347.02	0.001060	1.85	251.57	323.60	0.37	70.31
Reach 1	12600	0p5_BU				2.73	433.00	342.87	346.99	345.88	347.14	0.001026	1.87	269.15	380.40	0.36	69.28
Reach 1	12600	0p5-CC-LC_BU				3.26	606.20	342.87	347.53	346.23	347.68	0.000949	2.03	405.92	672.93	0.36	64.17
Reach 1	12550	5_BU				2.22	320.00	343.00	346.54	345.29	346.63	0.000725	1.38	273.46	527.51	0.30	81.65
Reach 1	12550	1_BU				2.56	403.00	343.00	346.88	345.65	346.96	0.000605	1.39	369.71	661.56	0.28	75.28
Reach 1	12550	0p5_BU				2.69	433.00	343.00	347.01	345.75	347.08	0.000549	1.37	412.02	715.94	0.27	72.24
Reach 1	12550	0p5-CC-LC_BU				3.24	606.20	343.00	347.56	346.12	347.63	0.000408	1.34	637.26	878.19	0.24	60.83
Reach 1	12500	5_BU				1.42	320.00	343.14	346.46	345.73	346.57	0.001454	1.46	229.44	387.16	0.39	98.48
Reach 1	12500	1_BU				1.75	403.00	343.14	346.81	345.90	346.92	0.001097	1.45	296.87	431.74	0.35	97.33
Reach 1	12500	0p5_BU				1.87	433.00	343.14	346.93	345.95	347.04	0.001007	1.46	326.27	500.79	0.34	97.19
Reach 1	12500	0p5-CC-LC_BU				2.43	606.20	343.14	347.49	346.20	347.59	0.000702	1.45	595.49	952.06	0.30	89.77
Reach 1	12436	5_BU				1.61	320.00	343.08	345.50	345.50	346.31	0.009314	3.97	81.44	159.70	1.00	99.85
Reach 1	12436	1_BU				1.92	403.00	343.08	345.82	345.82	346.69	0.008060	4.16	100.94	189.19	0.96	99.10
Reach 1	12436	0p5_BU				2.01	433.00	343.08	345.90	345.90	346.82	0.007976	4.26	106.77	192.24	0.96	98.80
Reach 1	12436	0p5-CC-LC_BU				2.73	606.20	343.08	346.62	346.62	347.43	0.004947	4.12	180.63	349.80	0.79	92.64
Reach 1	12300	5_BU				1.78	320.00	342.78	345.33	344.60	345.53	0.002035	2.00	179.61	385.48	0.48	96.16
Reach 1	12300	1_BU				1.99	403.00	342.78	345.56	344.84	345.79	0.002081	2.18	216.40	427.85	0.49	93.92
Reach 1	12300	0p5_BU				2.07	433.00	342.78	345.63	344.92	345.87	0.002104	2.24	228.89	446.49	0.50	93.18
Reach 1	12300	0p5-CC-LC_BU				2.41	606.20	342.78	345.97	345.33	346.28	0.002280	2.58	297.98	508.88	0.53	89.32
Reach 1	11788	5_BU				1.50	320.00	342.07	344.28	343.70	344.43	0.002150	1.82	189.03	494.22	0.48	86.94
Reach 1	11788	1_BU				1.62	403.00	342.07	344.49	343.86	344.66	0.002202	1.95	229.44	547.83	0.49	84.21
Reach 1	11788	0p5_BU				1.67	433.00	342.07	344.56	343.91	344.74	0.002202	1.99	244.34	563.24	0.49	83.35
Reach 1	11788	0p5-CC-LC_BU				2.00	606.20	342.07	344.92	344.21	345.12	0.002044	2.16	352.36	733.30	0.49	79.07
Reach 1	11514	5_BU				1.15	320.00	340.85	343.20	342.96	343.52	0.005754	2.52	128.50	248.30	0.75	99.68

HEC-RAS Plan: KR_Jam_20600 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	11514	1_BU				1.36	403.00	340.85	343.42	343.16	343.78	0.005136	2.66	154.38	314.65	0.73	99.50
Reach 1	11514	0p5_BU				1.45	433.00	340.85	343.51	343.22	343.87	0.004825	2.68	165.34	351.59	0.71	99.39
Reach 1	11514	0p5-CC-LC_BU				1.78	606.20	340.85	343.85	343.51	344.31	0.004636	3.01	212.99	435.24	0.72	98.71
Reach 1	11034	5_BU				1.76	320.00	338.63	342.19		342.31	0.001320	1.59	209.27	299.51	0.38	94.76
Reach 1	11034	1_BU				1.93	403.00	338.63	342.47		342.61	0.001325	1.69	251.35	377.96	0.39	93.19
Reach 1	11034	0p5_BU				1.98	433.00	338.63	342.56		342.71	0.001354	1.75	268.42	405.64	0.40	93.69
Reach 1	11034	0p5-CC-LC_BU				2.26	606.20	338.63	342.98		343.15	0.001355	1.90	360.09	514.44	0.40	89.06
Reach 1	10544	5_BU				1.58	320.00	337.82	341.05		341.33	0.003273	2.34	141.82	282.87	0.59	99.16
Reach 1	10544	1_BU				1.78	403.00	337.82	341.26		341.60	0.003387	2.57	172.41	350.27	0.62	98.37
Reach 1	10544	0p5_BU				1.84	433.00	337.82	341.34		341.69	0.003379	2.63	185.52	373.13	0.62	97.77
Reach 1	10544	0p5-CC-LC_BU				2.20	606.20	337.82	341.71	341.25	342.12	0.003315	2.93	271.67	504.87	0.63	93.42
Reach 1	9771	5_BU				1.38	320.00	336.80	339.07		339.22	0.002221	1.77	189.58	510.56	0.48	97.49
Reach 1	9771	1_BU				1.55	403.00	336.80	339.26		339.45	0.002237	1.92	223.17	623.30	0.49	96.22
Reach 1	9771	0p5_BU				1.60	433.00	336.80	339.32		339.51	0.002286	1.98	233.28	646.96	0.50	95.80
Reach 1	9771	0p5-CC-LC_BU				1.88	606.20	336.80	339.60		339.85	0.002519	2.31	288.66	741.62	0.54	93.50
Reach 1	8903	5_BU				1.72	320.00	333.65	336.76		337.04	0.003232	2.44	148.51	322.20	0.60	85.53
Reach 1	8903	1_BU				1.92	403.00	333.65	337.00		337.30	0.003173	2.61	184.71	433.04	0.60	82.48
Reach 1	8903	0p5_BU				1.98	433.00	333.65	337.08		337.38	0.003097	2.63	200.13	459.69	0.60	80.85
Reach 1	8903	0p5-CC-LC_BU				2.30	606.20	333.65	337.45		337.77	0.002871	2.80	281.96	539.53	0.59	73.03
Reach 1	8300	5_BU				1.67	320.00	332.67	335.37		335.54	0.001933	1.87	190.29	318.02	0.46	95.51
Reach 1	8300	1_BU				1.88	403.00	332.67	335.59		335.80	0.001993	2.05	228.56	385.20	0.48	94.26
Reach 1	8300	0p5_BU				1.95	433.00	332.67	335.67		335.89	0.002032	2.12	243.02	414.95	0.48	94.36
Reach 1	8300	0p5-CC-LC_BU				2.26	606.20	332.67	336.02		336.29	0.002172	2.42	337.32	603.59	0.51	90.96
Reach 1	7514	5_BU				1.32	320.00	330.29	332.85		333.20	0.005065	2.66	128.63	313.89	0.74	96.68
Reach 1	7514	1_BU				1.51	403.00	330.29	333.08		333.47	0.004723	2.82	154.62	334.68	0.73	96.09
Reach 1	7514	0p5_BU				1.60	433.00	330.29	333.17		333.57	0.004548	2.86	165.75	356.64	0.72	95.82
Reach 1	7514	0p5-CC-LC_BU				2.02	606.20	330.29	333.61	333.21	334.05	0.003875	3.03	252.49	501.78	0.68	92.72
Reach 1	6800	5_BU				2.02	320.00	327.67	330.75		330.99	0.002035	2.16	147.90	172.09	0.49	100.00
Reach 1	6800	1_BU				2.33	403.00	327.67	331.06		331.34	0.001996	2.35	171.92	243.05	0.49	99.91
Reach 1	6800	0p5_BU				2.41	433.00	327.67	331.15		331.45	0.002033	2.44	178.94	252.79	0.50	99.83
Reach 1	6800	0p5-CC-LC_BU				2.93	606.20	327.67	331.67		332.06	0.002055	2.79	221.65	291.32	0.52	99.07
Reach 1	6650	5_BU				1.60	320.00	327.66	330.43		330.64	0.002467	2.03	158.71	302.71	0.51	99.89
Reach 1	6650	1_BU				1.57	403.00	327.66	330.77		330.99	0.002542	2.05	199.90	354.43	0.52	99.73
Reach 1	6650	0p5_BU				1.69	433.00	327.66	330.89		331.10	0.002334	2.05	214.63	358.43	0.50	99.68
Reach 1	6650	0p5-CC-LC_BU				2.32	606.20	327.66	331.52		331.74	0.001561	2.08	301.19	407.70	0.44	99.31
Reach 1	6563	5_BU				1.40	320.00	327.63	330.23		330.41	0.002627	1.93	176.49	189.07	0.52	97.70
Reach 1	6563	1_BU				1.72	403.00	327.63	330.61		330.79	0.001910	1.89	227.44	208.58	0.46	97.52
Reach 1	6563	0p5_BU				1.85	433.00	327.63	330.74		330.91	0.001737	1.89	244.99	217.47	0.44	97.49
Reach 1	6563	0p5-CC-LC_BU				2.54	606.20	327.63	331.43		331.61	0.001173	1.92	341.61	284.75	0.38	97.24
Reach 1	6400	5_BU				2.29	320.00	325.72	329.86		330.05	0.001947	1.92	166.92	132.56	0.40	100.00
Reach 1	6400	1_BU				2.65	403.00	325.72	330.26		330.47	0.001901	2.06	196.05	146.94	0.40	100.00
Reach 1	6400	0p5_BU				2.77	433.00	325.72	330.39		330.61	0.001896	2.10	205.88	153.61	0.40	100.00
Reach 1	6400	0p5-CC-LC_BU				3.39	606.20	325.72	331.09		331.37	0.001858	2.35	258.58	287.63	0.41	100.00
Reach 1	6300	5_BU				2.38	320.00	325.66	329.61		329.86	0.001694	2.21	145.14	95.39	0.46	100.00
Reach 1	6300	1_BU				2.77	403.00	325.66	330.00		330.29	0.001625	2.39	169.14	102.40	0.46	99.95
Reach 1	6300	0p5_BU				2.89	433.00	325.66	330.12		330.43	0.001614	2.45	177.16	105.93	0.46	99.92
Reach 1	6300	0p5-CC-LC_BU				3.56	606.20	325.66	330.79		331.18	0.001569	2.78	222.80	173.04	0.47	99.49
Reach 1	6200	5_BU				2.36	320.00	325.60	329.47		329.68	0.001592	2.04	157.10	139.61	0.42	100.00
Reach 1	6200	1_BU				2.72	403.00	325.60	329.87		330.12	0.001557	2.19	183.94	158.25	0.42	100.00
Reach 1	6200	0p5_BU				2.85	433.00	325.60	330.00		330.26	0.001536	2.25	193.11	171.60	0.42	99.98
Reach 1	6200	0p5-CC-LC_BU				3.54	606.20	325.60	330.69		331.01	0.001451	2.52	248.46	264.26	0.43	99.50
Reach 1	6150	5_BU				2.57	320.00	325.56	329.35		329.60	0.001556	2.22	144.41	104.58	0.44	100.00
Reach 1	6150	1_BU				2.91	403.00	325.56	329.73		330.03	0.001591	2.43	165.98	108.70	0.45	100.00
Reach 1	6150	0p5_BU				3.03	433.00	325.56	329.86		330.17	0.001598	2.50	173.24	110.26	0.46	99.99
Reach 1	6150	0p5-CC-LC_BU				3.68	606.20	325.56	330.50		330.92	0.001635	2.88	212.09	130.38	0.48	99.77
Reach 1	6100	5_BU				2.48	320.00	325.53	329.25		329.52	0.001771	2.31	138.70	83.86	0.47	100.00
Reach 1	6100	1_BU				2.81	403.00	325.53	329.62		329.95	0.001798	2.52	159.92	95.73	0.48	100.00
Reach 1	6100	0p5_BU				2.93	433.00	325.53	329.75		330.09	0.001800	2.59	167.02	103.57	0.48	100.00
Reach 1	6100	0p5-CC-LC_BU				3.57	606.20	325.53	330.39		330.84	0.001821	2.98	204.72	173.34	0.50	99.88
Reach 1	6050	5_BU				2.52	320.00	325.50	329.18		329.43	0.001591	2.21	144.84	126.35	0.44	100.00
Reach 1	6050	1_BU				2.90	403.00	325.50	329.55		329.85	0.001582	2.42	167.03	135.47	0.45	99.95
Reach 1	6050	0p5_BU				3.02	433.00	325.50	329.68		330.00	0.001586	2.49	174.48	138.46	0.46	99.92
Reach 1	6050	0p5-CC-LC_BU				3.66	606.20	325.50	330.32		330.74	0.001626	2.87	213.65	153.50	0.48	99.68
Reach 1	6000	5_BU				2.45	320.00	325.48	329.06		329.34	0.001814	2.32	138.05	100.17	0.47	100.00
Reach 1	6000	1_BU				2.78	403.00	325.48	329.44		329.76	0.001928	2.53	159.14	127.11	0.48	100.00
Reach 1	6000	0p5_BU				2.90	433.00	325.48	329.56		329.90	0.001974	2.61	166.24	129.90	0.49	99.99
Reach 1	6000	0p5-CC-LC_BU				3.52	606.20	325.48	330.19		330.65	0.002059	2.99	203.93	147.08	0.51	99.82
Reach 1	5950	5_BU				2.38	320.00	325.47	328.93		329.24	0.002133	2.47	129.81	72.91	0.51	100.00
Reach 1	5950	1_BU				2.69	403.00	325.47	329.28		329.65	0.002283	2.70	149.50	87.64	0.52	100.00
Reach 1	5950	0p5_BU				2.81	433.00	325.47	329.40		329.79	0.002293	2.78	156.05	89.09	0.53	100.00
Reach 1	5950	0p5-CC-LC_BU				3.42	606.20	325.47	330.01		330.53	0.002322	3.19	191.29	103.34	0.55	99.90
Reach 1	5900	5_BU				2.34	320.00	325.42	328.83		329.13	0.002117	2.43	131.43	88.62	0.51	100.00
Reach 1	5900	1_BU				2.69	403.00	325.42	329.18		329.54	0.002107	2.66	151.51	113.13	0.52	99.98
Reach 1	5900	0p5_BU				2.81	433.00	325.42	329.30		329.68	0.002108	2.74	158.30	114.20	0.52	99.95
Reach 1	5900	0p5-CC-LC_BU				3.43	606.20	325.42	329.91		330.42	0.002127	3.14	194.50	124.30	0.54	99.71
Reach 1	5850	5_BU				2.21	320.00	325.40	328.54		328.98	0.003336	2.94	108.82	69.00	0.63	100.00
Reach 1	5850	1_BU				2.49	403.00	325.40	328.86		329.39	0.003472	3.24	124.38	73.42	0.66	100.00
Reach 1	5850	0p5_BU				2.59	433.00	325.40	328.96		329.53	0.003510	3.34	129.50	77.94	0.66	99.99
Reach 1	5850	0p5-CC-LC_BU				3.11	606.20	325.40	329.48		330.25	0.003735	3.90	156.20	110.07	0.71	99.89
Reach 1	5800	5_BU				2.17	320.00	325.36	328.42		328.81	0.003002	2.76	116.10	102.42	0.60	100.00
Reach 1	5800	1_BU				2.46	403.00	325.36	328.74		329.21	0.003064	3.02	133.40	111.65	0.62	100.00
Reach 1	5800	0p5_BU				2.55	433.00	325.36	328.85		329.34	0.003095	3.11	139.13	119.28	0.62	99.99
Reach 1	5800	0p5-CC-LC_BU				3.08	606.20	325.36	329.38		330.04	0.003221	3.60	169.15	158.82	0.66	99.94
Reach 1	5750	5_BU				2.12	320.00	325.34	328.25		328.65	0.003181	2.80	114.16	159.30	0.61	100.00
Reach 1	5750	1_BU				2.39	403.00	325.34	328.57		329.05	0.003270	3.07	131.16	168.35	0.63	100.00
Reach 1	5750	0p5_BU				2.49	433.00	325.34	328.67		329.18	0.003301	3.17	136.76	171.04	0.64	100.00
Reach 1	5750	0p5-CC-LC_BU				3.01	606.20	325.34	329.20		329.88	0.003400	3.65	166.79	193.07	0.67	99.87
Reach 1	5724	5_BU				2.16	320.00	325.30	328.22		328.56	0.002684	2.60	123.18	81.33	0.56	100.00
Reach 1	5724	1_BU				2.46	403.00	325.30	328.54		328.95	0.002717	2.85	141.55	111.38	0.58	99.99
Reach 1	5724	0p5_BU				2.56	433.00	325.30	328.64		329.08	0.002735	2.94	147.59	124.27	0.59	99.98
Reach 1	5724	0p5-CC-LC_BU				3.10	606.20	325.30	329.18		329.77	0.002825	3.39	179.66	172.58	0.61	99.85
Reach 1	5650	5_BU				2.10	320.00	325.13	327.97		328.35	0.003057	2.73	117.18	81.77	0.60	100.00
Reach 1	5650	1_BU				2.37	403.00	325.13	328.27		328.73	0.003157	3.00	134.28	85.55	0.62	100.00
Reach 1	5650	0p5_BU				2.47	433.00	325.13	328.37		328.86	0.003183	3.10	139.88	93.37	0.63	100.00
Reach 1	5650	0p5-CC-LC_BU				2.98	606.20	325.13	328.88		329.54	0.003342	3.59	169.41	135.41	0.66	99.88
Reach 1	5550	5_BU				1.98	320.00	324.87	327.59		328.01	0.003607	2.85	112.09	71.61	0.65	100.00
Reach 1	5550	1_BU				2.23	403.00	324.87	327.88		328.38	0.003749	3.14	128.17	86.49	0.67	100.00
Reach 1	5550	0p5_BU				2.32	433.00	324.87	327.97		328.50	0.003799	3.25	133.42	90.24	0.68	99.99

HEC-RAS Plan: KR_Jam_20600 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	5550	0p5-CC-LC_BU				2.76	606.20	324.87	328.41		329.15	0.004132	3.81	159.57	112.47	0.73	99.93
Reach 1	5400	5_BU				1.93	320.00	324.48	327.24		327.52	0.002514	2.34	136.52	109.54	0.54	100.00
Reach 1	5400	1_BU				2.17	403.00	324.48	327.53		327.87	0.002556	2.56	157.68	118.37	0.55	100.00
Reach 1	5400	0p5_BU				2.25	433.00	324.48	327.63		327.98	0.002574	2.63	164.68	121.11	0.56	100.00
Reach 1	5400	0p5-CC-LC_BU				2.68	606.20	324.48	328.10		328.57	0.002710	3.03	200.13	133.57	0.59	99.95
Reach 1	5200	5_BU				2.14	320.00	323.95	326.96		327.13	0.001346	1.84	174.18	147.28	0.40	100.00
Reach 1	5200	1_BU				2.38	403.00	323.95	327.24		327.45	0.001437	2.04	197.79	158.87	0.42	100.00
Reach 1	5200	0p5_BU				2.46	433.00	323.95	327.33		327.56	0.001473	2.11	205.48	161.95	0.43	100.00
Reach 1	5200	0p5-CC-LC_BU				2.86	606.20	323.95	327.79		328.10	0.001671	2.48	244.14	180.17	0.47	100.00
Reach 1	4950	5_BU				1.74	320.00	323.31	326.48		326.70	0.002239	2.06	167.42	179.76	0.50	98.31
Reach 1	4950	1_BU				1.86	403.00	323.31	326.74		326.99	0.002395	2.23	197.79	228.08	0.52	97.76
Reach 1	4950	0p5_BU				1.92	433.00	323.31	326.83		327.09	0.002417	2.29	208.52	243.88	0.53	97.61
Reach 1	4950	0p5-CC-LC_BU				2.33	606.20	323.31	327.28		327.61	0.002374	2.57	271.12	340.15	0.54	96.92
Reach 1	4694	5_BU				1.61	320.00	322.84	326.02		326.17	0.001753	1.73	191.54	371.95	0.44	99.55
Reach 1	4694	1_BU				1.89	403.00	322.84	326.30		326.47	0.001612	1.84	230.30	393.36	0.43	99.03
Reach 1	4694	0p5_BU				1.98	433.00	322.84	326.40		326.58	0.001574	1.88	243.58	397.53	0.43	98.85
Reach 1	4694	0p5-CC-LC_BU				2.48	606.20	322.84	326.90		327.11	0.001433	2.09	315.21	433.58	0.42	97.91
Reach 1	4150	5_BU				1.93	320.00	322.29	324.97		325.17	0.001922	1.99	160.79	187.71	0.46	100.00
Reach 1	4150	1_BU				2.15	403.00	322.29	325.20		325.46	0.002150	2.24	180.21	208.64	0.49	100.00
Reach 1	4150	0p5_BU				2.23	433.00	322.29	325.28		325.55	0.002239	2.32	186.43	221.04	0.50	100.00
Reach 1	4150	0p5-CC-LC_BU				2.59	606.20	322.29	325.65		326.05	0.002716	2.78	218.13	251.44	0.55	99.99
Reach 1	3843	5_BU				1.08	320.00	322.07	323.61	323.54	324.05	0.008683	2.95	108.45	175.59	0.91	100.00
Reach 1	3843	1_BU				1.29	403.00	322.07	323.84	323.71	324.32	0.007441	3.07	131.42	179.92	0.86	100.00
Reach 1	3843	0p5_BU				1.37	433.00	322.07	323.92		324.41	0.006974	3.09	140.13	181.35	0.84	99.99
Reach 1	3843	0p5-CC-LC_BU				1.82	606.20	322.07	324.41		324.93	0.005028	3.17	191.67	190.38	0.75	99.88
Reach 1	3700	5_BU				1.43	320.00	320.95	323.51		323.60	0.001117	1.28	250.48	236.57	0.34	100.00
Reach 1	3700	1_BU				1.73	403.00	320.95	323.81		323.90	0.000943	1.33	302.94	251.63	0.32	100.00
Reach 1	3700	0p5_BU				1.83	433.00	320.95	323.92		324.01	0.000895	1.35	321.25	260.23	0.32	100.00
Reach 1	3700	0p5-CC-LC_BU				2.40	606.20	320.95	324.48		324.59	0.000721	1.45	420.26	288.09	0.30	99.95
Reach 1	3600	5_BU				1.60	320.00	320.47	323.08		323.39	0.003779	2.49	138.75	171.33	0.63	98.27
Reach 1	3600	1_BU				1.90	403.00	320.47	323.38		323.72	0.003346	2.62	168.55	179.59	0.61	97.56
Reach 1	3600	0p5_BU				2.00	433.00	320.47	323.48		323.83	0.003239	2.67	178.79	182.01	0.60	97.37
Reach 1	3600	0p5-CC-LC_BU				2.53	606.20	320.47	324.01		324.43	0.002842	2.93	233.97	199.34	0.59	96.31
Reach 1	3500	5_BU				2.02	320.00	320.12	322.84		323.08	0.002241	2.18	149.01	144.00	0.49	99.80
Reach 1	3500	1_BU				2.32	403.00	320.12	323.15		323.43	0.002216	2.37	173.88	151.87	0.50	99.59
Reach 1	3500	0p5_BU				2.42	433.00	320.12	323.25		323.55	0.002210	2.44	182.62	155.28	0.50	99.49
Reach 1	3500	0p5-CC-LC_BU				2.95	606.20	320.12	323.78		324.17	0.002188	2.77	237.82	215.92	0.52	98.61
Reach 1	3450	5_BU				1.96	320.00	319.97	322.62		322.94	0.003189	2.55	140.03	170.62	0.58	96.55
Reach 1	3450	1_BU				2.24	403.00	319.97	322.94		323.30	0.003111	2.70	170.26	196.02	0.58	94.74
Reach 1	3450	0p5_BU				2.34	433.00	319.97	323.05		323.41	0.003095	2.75	180.66	205.57	0.58	94.17
Reach 1	3450	0p5-CC-LC_BU				2.87	606.20	319.97	323.60		324.04	0.002903	3.04	240.27	255.50	0.57	91.90
Reach 1	3400	5_BU				1.86	320.00	319.80	322.38		322.76	0.003795	2.75	116.90	78.31	0.64	99.97
Reach 1	3400	1_BU				2.10	403.00	319.80	322.65		323.11	0.003970	3.00	135.61	84.04	0.66	99.82
Reach 1	3400	0p5_BU				2.19	433.00	319.80	322.74		323.23	0.003983	3.09	142.01	85.47	0.67	99.75
Reach 1	3400	0p5-CC-LC_BU				2.67	606.20	319.80	323.22		323.85	0.003994	3.53	177.99	100.85	0.69	99.23
Reach 1	3350	5_BU				1.88	320.00	319.64	322.25		322.57	0.003199	2.53	128.75	92.65	0.59	99.49
Reach 1	3350	1_BU				2.14	403.00	319.64	322.52		322.91	0.003298	2.77	148.61	96.70	0.61	99.39
Reach 1	3350	0p5_BU				2.23	433.00	319.64	322.61		323.03	0.003325	2.85	155.59	97.68	0.61	99.30
Reach 1	3350	0p5-CC-LC_BU				2.69	606.20	319.64	323.11		323.64	0.003421	3.25	193.88	107.25	0.63	98.79
Reach 1	3300	5_BU				1.74	320.00	319.48	321.96		322.38	0.004342	2.87	121.38	98.84	0.70	98.22
Reach 1	3300	1_BU				1.98	403.00	319.48	322.24		322.72	0.004236	3.09	145.48	104.84	0.70	97.46
Reach 1	3300	0p5_BU				2.06	433.00	319.48	322.34		322.83	0.004198	3.16	154.07	107.06	0.70	97.22
Reach 1	3300	0p5-CC-LC_BU				2.55	606.20	319.48	322.86		323.45	0.003851	3.48	203.86	121.37	0.70	96.06
Reach 1	3275	5_BU				1.47	320.00	319.45	321.68	321.54	322.23	0.007153	3.29	97.17	147.83	0.87	100.00
Reach 1	3275	1_BU				1.71	403.00	319.45	321.95	321.77	322.57	0.007017	3.49	115.43	155.14	0.85	100.00
Reach 1	3275	0p5_BU				1.79	433.00	319.45	322.04		322.69	0.006939	3.56	121.71	157.82	0.85	100.00
Reach 1	3275	0p5-CC-LC_BU				2.26	606.20	319.45	322.56		323.32	0.006449	3.85	157.41	167.42	0.82	100.00
Reach 1	3250	5_BU				1.54	320.00	319.30	321.58		322.12	0.002874	3.24	98.77	123.23	0.83	100.00
Reach 1	3250	1_BU				1.79	403.00	319.30	321.85		322.46	0.002706	3.46	116.38	141.36	0.83	100.00
Reach 1	3250	0p5_BU				1.87	433.00	319.30	321.95		322.58	0.002659	3.54	122.43	144.71	0.83	100.00
Reach 1	3250	0p5-CC-LC_BU				2.34	606.20	319.30	322.45		323.22	0.002410	3.90	155.49	151.00	0.81	100.00
Reach 1	3150	5_BU				1.97	320.00	318.88	321.59		321.87	0.001096	2.35	136.08	104.96	0.54	100.00
Reach 1	3150	1_BU				2.21	403.00	318.88	321.87		322.21	0.001131	2.58	156.06	108.66	0.55	100.00
Reach 1	3150	0p5_BU				2.30	433.00	318.88	321.97		322.33	0.001140	2.66	162.96	109.94	0.56	100.00
Reach 1	3150	0p5-CC-LC_BU				2.83	606.20	318.88	322.50		322.97	0.001114	3.02	201.41	119.42	0.57	99.91
Reach 1	3037	5_BU				2.40	320.00	318.40	321.50		321.76	0.000852	2.26	144.36	81.27	0.46	99.56
Reach 1	3037	1_BU				2.67	403.00	318.40	321.77		322.09	0.000955	2.55	162.16	88.18	0.50	99.24
Reach 1	3037	0p5_BU				2.77	433.00	318.40	321.86		322.21	0.000987	2.64	168.33	91.25	0.51	99.12
Reach 1	3037	0p5-CC-LC_BU				3.26	606.20	318.40	322.35		322.84	0.001122	3.12	202.41	104.55	0.55	98.41
Reach 1	2965	5_BU				2.44	320.00	318.25	321.43	320.38	321.70	0.000798	2.27	141.01	57.82	0.46	100.00
Reach 1	2965	1_BU				2.66	403.00	318.25	321.68	320.65	322.02	0.000965	2.59	155.47	58.53	0.51	100.00
Reach 1	2965	0p5_BU				2.74	433.00	318.25	321.77	320.75	322.14	0.001019	2.70	160.40	58.76	0.52	100.00
Reach 1	2965	0p5-CC-LC_BU				3.18	606.20	318.25	322.21	321.21	322.75	0.001215	3.25	186.98	61.92	0.58	99.98
Reach 1	2946		Bridge														
Reach 1	2919	5_BU				3.35	320.00	317.23	321.47		321.60	0.000212	1.60	200.61	61.77	0.28	99.93
Reach 1	2919	1_BU				3.61	403.00	317.23	321.73		321.90	0.000263	1.87	216.55	62.76	0.31	99.86
Reach 1	2919	0p5_BU				3.70	433.00	317.23	321.81		322.01	0.000280	1.96	222.00	63.13	0.33	99.82
Reach 1	2919	0p5-CC-LC_BU				4.16	606.20	317.23	322.28		322.58	0.000368	2.43	251.87	65.06	0.38	99.56
Reach 1	2850	5_BU				2.57	320.00	318.15	321.36		321.56	0.000543	1.96	163.05	63.56	0.39	100.00
Reach 1	2850	1_BU				2.79	403.00	318.15	321.59		321.85	0.000651	2.27	177.64	64.72	0.43	99.99
Reach 1	2850	0p5_BU				2.86	433.00	318.15	321.66		321.95	0.000687	2.37	182.57	64.87	0.45	99.98
Reach 1	2850	0p5-CC-LC_BU				3.27	606.20	318.15	322.07		322.50	0.000865	2.91	209.02	67.68	0.51	99.90
Reach 1	2800	5_BU				2.23	320.00	317.92	321.34		321.53	0.000642	1.95	186.71	110.81	0.42	97.48
Reach 1	2800	1_BU				2.40	403.00	317.92	321.57		321.81	0.000725	2.20	213.00	114.44	0.45	96.61
Reach 1	2800	0p5_BU				2.47	433.00	317.92	321.65		321.91	0.000751	2.28	222.19	117.36	0.46	96.36
Reach 1	2800	0p5-CC-LC_BU				2.85	606.20	317.92	322.08		322.43	0.000843	2.68	277.17	137.53	0.51	95.16
Reach 1	2770	5_BU				2.07	320.00	317.84	321.29		321.50	0.000792	2.06	165.40	97.03	0.46	98.99
Reach 1	2770	1_BU				2.25	403.00	317.84	321.51		321.78	0.000907	2.33	187.13	99.11	0.50	98.47
Reach 1	2770	0p5_BU				2.32	433.00	317.84	321.58		321.88	0.000940	2.42	194.59	101.02	0.51	98.30
Reach 1	2770	0p5-CC-LC_BU				2.63	606.20	317.84	322.00		322.40	0.001076	2.83	238.00	117.28	0.56	97.44
Reach 1	2750	5_BU				1.91	320.00	318.03	321.25		321.48	0.000939	2.13	150.03	78.47	0.49	100.00
Reach 1	2750	1_BU				2.09	403.00	318.03	321.46		321.76	0.001073	2.42	166.68	79.72	0.53	100.00
Reach 1	2750	0p5_BU				2.15	433.00	318.03	321.53		321.85	0.001114	2.51	172.32	80.00	0.55	100.00
Reach 1	2750	0p5-CC-LC_BU				2.49	606.20	318.03	321.92		322.37	0.001287	2.98	203.85	86.28	0.60	99.99
Reach 1	2700	5_BU				1.68	320.00	318.39	321.21		321.43	0.001072	2.10	152.62	90.75	0.52	100.00
Reach 1	2700	1_BU				1.87	403.00	318.39	321.42		321.70	0.001161	2.34	171.97	92.86	0.55	100.00
Reach 1	2700	0p5_BU				1.94	433.00	318.39	321.49		321.79	0.001186	2.42	178.60	94.20	0.56	100.00

HEC-RAS Plan: KR_Jam_20600 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	2700	0p5-CC-LC_BU				2.34	606.20	318.39	321.89		322.29	0.001245	2.81	215.72	98.83	0.59	99.97
Reach 1	2666	5_BU				1.53	320.00	318.64	321.11		321.38	0.001479	2.31	138.40	90.37	0.60	100.00
Reach 1	2666	1_BU				1.72	403.00	318.64	321.31		321.65	0.001586	2.58	156.22	91.07	0.63	100.00
Reach 1	2666	0p5_BU				1.78	433.00	318.64	321.37		321.74	0.001618	2.67	162.30	91.28	0.64	100.00
Reach 1	2666	0p5-CC-LC_BU				2.14	606.20	318.64	321.76		322.24	0.001679	3.07	197.36	93.08	0.67	100.00
Reach 1	2650	5_BU				1.53	320.00	318.67	321.06		321.36	0.001610	2.41	133.00	94.44	0.62	99.94
Reach 1	2650	1_BU				1.71	403.00	318.67	321.24		321.62	0.001756	2.71	149.44	98.47	0.66	99.81
Reach 1	2650	0p5_BU				1.77	433.00	318.67	321.30		321.71	0.001799	2.81	155.04	99.35	0.67	99.76
Reach 1	2650	0p5-CC-LC_BU				2.13	606.20	318.67	321.66		322.20	0.001892	3.26	187.85	104.90	0.71	99.39
Reach 1	2600	5_BU				1.42	320.00	318.85	321.00		321.27	0.001619	2.31	138.88	129.85	0.62	99.97
Reach 1	2600	1_BU				1.60	403.00	318.85	321.18		321.52	0.001715	2.57	157.21	135.19	0.65	99.92
Reach 1	2600	0p5_BU				1.66	433.00	318.85	321.24		321.60	0.001742	2.65	163.50	136.29	0.66	99.90
Reach 1	2600	0p5-CC-LC_BU				2.04	606.20	318.85	321.62		322.09	0.001716	3.02	201.47	155.84	0.68	99.78
Reach 1	2563	5_BU				1.29	320.00	319.01	320.89		321.20	0.002065	2.44	131.10	102.05	0.69	100.00
Reach 1	2563	1_BU				1.46	403.00	319.01	321.07		321.44	0.002151	2.70	149.22	118.27	0.71	100.00
Reach 1	2563	0p5_BU				1.52	433.00	319.01	321.13		321.53	0.002172	2.78	155.52	122.83	0.72	100.00
Reach 1	2563	0p5-CC-LC_BU				1.91	606.20	319.01	321.54		322.02	0.001948	3.07	197.28	139.18	0.71	99.99
Reach 1	2550	5_BU				1.31	320.00	318.95	320.87		321.17	0.002010	2.43	131.47	127.32	0.68	100.00
Reach 1	2550	1_BU				1.48	403.00	318.95	321.04		321.42	0.002101	2.70	149.12	138.36	0.71	99.99
Reach 1	2550	0p5_BU				1.54	433.00	318.95	321.10		321.50	0.002126	2.79	155.19	142.01	0.72	99.98
Reach 1	2550	0p5-CC-LC_BU				1.95	606.20	318.95	321.51		321.99	0.001914	3.09	196.56	167.31	0.71	99.85
Reach 1	2500	5_BU				1.32	320.00	318.86	320.77		321.07	0.001957	2.42	133.30	104.85	0.67	99.32
Reach 1	2500	1_BU				1.49	403.00	318.86	320.94		321.31	0.002062	2.69	151.14	107.71	0.70	99.03
Reach 1	2500	0p5_BU				1.55	433.00	318.86	321.00		321.39	0.002088	2.78	157.34	109.91	0.71	98.94
Reach 1	2500	0p5-CC-LC_BU				1.98	606.20	318.86	321.43		321.89	0.001792	3.03	202.81	149.69	0.69	98.32
Reach 1	2464	5_BU				1.24	328.00	318.82	320.67		320.99	0.002313	2.51	130.68	110.84	0.72	100.00
Reach 1	2464	1_BU				1.37	413.80	318.82	320.81		321.22	0.002572	2.84	145.77	116.59	0.77	99.99
Reach 1	2464	0p5_BU				1.42	445.00	318.82	320.86		321.30	0.002671	2.96	150.64	116.89	0.79	99.98
Reach 1	2464	0p5-CC-LC_BU				1.89	623.00	318.82	321.34		321.82	0.001970	3.07	203.43	135.25	0.71	99.87
Reach 1	2400	5_BU				1.14	328.00	318.95	320.55		320.83	0.002306	2.33	141.19	126.37	0.70	99.99
Reach 1	2400	1_BU				1.27	413.80	318.95	320.69		321.04	0.002575	2.62	158.57	128.45	0.74	99.94
Reach 1	2400	0p5_BU				1.31	445.00	318.95	320.73		321.11	0.002682	2.72	164.09	129.28	0.76	99.93
Reach 1	2400	0p5-CC-LC_BU				1.91	623.00	318.95	321.33		321.67	0.001575	2.60	254.36	196.55	0.60	99.07
Reach 1	2369	5_BU				0.89	328.00	318.74	320.39	320.30	320.73	0.004225	2.59	127.60	151.30	0.88	99.93
Reach 1	2369	1_BU				1.07	413.80	318.74	320.57	320.45	320.94	0.003674	2.70	155.79	154.57	0.83	99.74
Reach 1	2369	0p5_BU				1.12	445.00	318.74	320.62	320.50	321.01	0.003663	2.77	163.62	155.96	0.84	99.68
Reach 1	2369	0p5-CC-LC_BU				1.83	623.00	318.74	321.33		321.60	0.001444	2.35	288.26	232.45	0.55	98.29
Reach 1	2350	5_BU				1.05	328.00	318.43	320.41		320.64	0.002315	2.13	160.16	160.38	0.66	98.83
Reach 1	2350	1_BU				1.14	413.80	318.43	320.60		320.85	0.002258	2.25	192.84	177.23	0.67	98.50
Reach 1	2350	0p5_BU				1.20	445.00	318.43	320.65		320.92	0.002244	2.30	202.65	177.99	0.67	98.42
Reach 1	2350	0p5-CC-LC_BU				1.90	623.00	318.43	321.36		321.56	0.000959	1.99	353.43	293.10	0.46	96.83
Reach 1	2300	5_BU				1.07	328.00	317.71	320.35		320.51	0.001803	1.78	190.75	187.27	0.55	98.75
Reach 1	2300	1_BU				1.27	413.80	317.71	320.56		320.74	0.001575	1.88	229.25	189.69	0.53	98.52
Reach 1	2300	0p5_BU				1.32	445.00	317.71	320.61		320.80	0.001565	1.94	240.20	190.41	0.54	98.46
Reach 1	2300	0p5-CC-LC_BU				2.06	623.00	317.71	321.36		321.50	0.000662	1.71	414.82	331.33	0.38	97.12
Reach 1	2254	5_BU				1.04	328.00	317.67	319.85	319.85	320.34	0.006168	3.11	109.28	153.24	0.98	99.31
Reach 1	2254	1_BU				1.09	413.80	317.67	320.05	320.05	320.57	0.006361	3.23	134.33	170.39	0.99	98.65
Reach 1	2254	0p5_BU				1.16	445.00	317.67	320.19	320.11	320.65	0.005326	3.06	153.80	180.77	0.91	98.20
Reach 1	2254	0p5-CC-LC_BU				1.90	623.00	317.67	321.30		321.46	0.000982	1.87	416.87	429.81	0.43	93.75
Reach 1	2200	5_BU				0.98	328.00	317.45	319.53	319.54	320.04	0.004941	3.16	103.90	107.93	1.02	99.98
Reach 1	2200	1_BU				1.19	413.80	317.45	319.79	319.72	320.29	0.003839	3.14	132.83	114.78	0.92	99.89
Reach 1	2200	0p5_BU				1.42	445.00	317.45	320.06		320.44	0.002362	2.74	164.60	137.26	0.74	99.78
Reach 1	2200	0p5-CC-LC_BU				1.90	623.00	317.45	321.28		321.41	0.000590	1.64	485.88	444.60	0.38	93.84
Reach 1	2168	5_BU				0.81	328.00	317.62	319.29	319.38	319.85	0.007107	3.32	99.35	130.50	1.18	99.92
Reach 1	2168	1_BU				1.28	413.80	317.62	319.84		320.14	0.002056	2.42	174.00	160.21	0.68	99.56
Reach 1	2168	0p5_BU				1.47	445.00	317.62	320.11		320.34	0.001340	2.14	216.35	200.89	0.56	99.04
Reach 1	2168	0p5-CC-LC_BU				1.95	623.00	317.62	321.30		321.38	0.000323	1.27	622.21	489.61	0.29	91.69
Reach 1	2054	5_BU				1.17	328.00	317.47	319.42	318.95	319.54	0.000992	1.58	215.17	209.07	0.47	93.24
Reach 1	2054	1_BU				1.60	413.80	317.47	319.89		319.98	0.000491	1.37	322.08	246.15	0.35	90.06
Reach 1	2054	0p5_BU				1.83	445.00	317.47	320.15		320.23	0.000330	1.23	389.00	264.65	0.29	87.60
Reach 1	2054	0p5-CC-LC_BU				2.53	623.00	317.47	321.32		321.35	0.000103	0.85	813.50	414.77	0.17	77.51
Reach 1	1884	5_BU				1.76	328.00	315.75	319.08		319.34	0.001167	2.25	148.18	94.59	0.54	99.08
Reach 1	1884	1_BU				2.40	413.80	315.75	319.72		319.89	0.000540	1.88	260.50	212.16	0.39	89.42
Reach 1	1884	0p5_BU				2.72	445.00	315.75	320.05		320.17	0.000356	1.66	333.78	253.74	0.32	83.28
Reach 1	1884	0p5-CC-LC_BU				3.96	623.00	315.75	321.28		321.33	0.000105	1.16	740.48	366.60	0.19	60.50
Reach 1	1760	5_BU				2.29	328.00	315.68	318.93		319.21	0.000959	2.42	151.26	122.64	0.51	94.78
Reach 1	1760	1_BU				2.92	413.80	315.68	319.68		319.83	0.000421	1.88	284.81	212.77	0.35	78.47
Reach 1	1760	0p5_BU				3.26	445.00	315.68	320.02		320.13	0.000278	1.64	362.94	245.81	0.29	71.14
Reach 1	1760	0p5-CC-LC_BU				4.50	623.00	315.68	321.27		321.32	0.000104	1.25	682.98	271.53	0.19	53.45
Reach 1	1639	5_BU				2.24	328.00	314.98	318.93	317.49	319.09	0.000545	1.79	186.85	121.18	0.38	99.54
Reach 1	1639	1_BU				2.96	413.80	314.98	319.65	317.99	319.78	0.000326	1.67	269.30	147.29	0.31	97.18
Reach 1	1639	0p5_BU				3.28	445.00	314.98	319.97	318.08	320.10	0.000258	1.59	313.41	166.63	0.28	95.72
Reach 1	1639	0p5-CC-LC_BU				4.51	623.00	314.98	321.20	318.49	321.30	0.000154	1.52	490.86	219.49	0.23	89.66
Reach 1	1548	5_BU				2.66	328.00	314.79	318.87	317.38	319.04	0.000464	1.85	177.21	83.95	0.36	100.00
Reach 1	1548	1_BU				3.29	413.80	314.79	319.58	317.65	319.75	0.000347	1.84	225.25	98.13	0.32	99.99
Reach 1	1548	0p5_BU				3.61	445.00	314.79	319.90	317.77	320.07	0.000293	1.80	247.96	105.87	0.30	99.95
Reach 1	1548	0p5-CC-LC_BU				4.81	623.00	314.79	321.10	318.24	321.28	0.000218	1.88	338.07	175.40	0.27	99.30
Reach 1	1460	5_BU				2.02	328.00	316.31	318.84	317.89	318.99	0.000559	1.70	213.79	178.90	0.38	96.38
Reach 1	1460	1_BU				2.77	413.80	316.31	319.59	318.08	319.70	0.000289	1.51	322.14	248.68	0.29	93.03
Reach 1	1460	0p5_BU				3.11	445.00	316.31	319.93	318.15	320.02	0.000218	1.42	376.16	266.33	0.26	90.90
Reach 1	1460	0p5-CC-LC_BU				4.33	623.00	316.31	321.16	318.49	321.24	0.000120	1.31	591.46	313.61	0.20	83.90
Reach 1	1371	5_BU				1.85	328.00	315.74	318.81	317.86	318.91	0.000970	1.45	253.27	172.05	0.34	92.50
Reach 1	1371	1_BU				2.63	413.80	315.74	319.59	318.02	319.66	0.000446	1.22	407.50	220.75	0.24	87.72
Reach 1	1371	0p5_BU				2.97	445.00	315.74	319.93	318.08	319.99	0.000319	1.11	483.76	231.38	0.21	84.10
Reach 1	1371	0p5-CC-LC_BU				4.21	623.00	315.74	321.17	318.38	321.21	0.000156	0.97	785.64	341.16	0.15	74.18
Reach 1	1226	5_BU				2.20	328.00	315.18	318.65	317.48	318.77	0.000940	1.58	224.47	124.53	0.34	96.91
Reach 1	1226	1_BU				3.06	413.80	315.18	319.50	317.71	319.59	0.000475	1.37	381.73	218.03	0.25	92.52
Reach 1	1226	0p5_BU				3.42	445.00	315.18	319.86	317.78	319.94	0.000353	1.27	463.56	228.92	0.22	89.01
Reach 1	1226	0p5-CC-LC_BU				4.69	623.00	315.18	321.13	318.14	321.18	0.000193	1.14	770.17	329.62	0.17	78.60
Reach 1	1171	5_BU				2.44	328.00	314.92	318.63	317.20	318.72	0.000593	1.34	302.91	192.44	0.27	92.28
Reach 1	1171	1_BU				3.31	413.80	314.92	319.50	317.44	319.56	0.000296	1.14	501.93	271.23	0.20	84.71
Reach 1	1171	0p5_BU				3.67	445.00	314.92	319.86	317.51	319.91	0.000231	1.08	601.45	278.50	0.18	82.42
Reach 1	1171	0p5-CC-LC_BU				4.94	623.00	314.92	321.13	317.89	321.17	0.000126	0.96	1001.73	369.12	0.14	70.90
Reach 1	1060	5_BU				2.97	328.00	314.65	318.60	316.72	318.66	0.000356	1.17	348.30	210.07	0.22	93.21
Reach 1	1060	1_BU				3.85	413.80	314.65	319.48	316.92	319.53	0.000197	1.04	572.12	330.75	0.17	85.08
Reach 1	1060	0p5_BU				4.22	445.00	314.65	319.85	316.99	319.89	0.000154	0.97	696.52	341.21	0.15	81.43
Reach 1	1060	0p5-CC-LC_BU				5.50	623.00	314.65	321.12	317.35	321.16	0.000093	0.90	1135.77	347.36	0.12	70.10

HEC-RAS Plan: KR_Jam_20600 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	964	5_BU				2.76	328.00	314.83	318.59	316.49	318.63	0.000229	0.89	445.60	284.73	0.17	94.36
Reach 1	964	1_BU				3.66	413.80	314.83	319.48	316.71	319.51	0.000121	0.78	719.47	317.08	0.13	86.67
Reach 1	964	0p5_BU				4.03	445.00	314.83	319.85	316.78	319.87	0.000095	0.74	837.53	326.13	0.12	83.84
Reach 1	964	0p5-CC-LC_BU				5.30	623.00	314.83	321.12	317.15	321.15	0.000062	0.72	1266.49	375.70	0.10	76.63
Reach 1	856	5_BU				2.74	328.00	314.15	318.58	316.32	318.60	0.000164	0.75	563.50	317.43	0.14	86.98
Reach 1	856	1_BU				3.65	413.80	314.15	319.48	316.51	319.50	0.000088	0.66	865.55	387.73	0.11	81.32
Reach 1	856	0p5_BU				4.01	445.00	314.15	319.85	316.58	319.86	0.000070	0.63	993.31	392.91	0.10	78.84
Reach 1	856	0p5-CC-LC_BU				5.29	623.00	314.15	321.12	316.90	321.14	0.000046	0.62	1443.68	438.41	0.09	72.84
Reach 1	746	5_BU				3.12	328.00	313.89	318.57	316.13	318.59	0.000082	0.58	716.97	434.89	0.10	92.69
Reach 1	746	1_BU				4.02	413.80	313.89	319.48	316.27	319.49	0.000046	0.51	1118.86	566.57	0.08	84.21
Reach 1	746	0p5_BU				4.39	445.00	313.89	319.85	316.31	319.86	0.000037	0.49	1288.74	601.50	0.07	81.46
Reach 1	746	0p5-CC-LC_BU				5.67	623.00	313.89	321.12	316.55	321.13	0.000026	0.48	1892.63	664.17	0.06	74.24
Reach 1	638	5_BU				3.16	328.00	313.68	318.57	315.88	318.58	0.000060	0.50	773.57	484.53	0.09	95.79
Reach 1	638	1_BU				4.07	413.80	313.68	319.47	316.05	319.48	0.000035	0.45	1245.00	705.98	0.07	88.42
Reach 1	638	0p5_BU				4.44	445.00	313.68	319.84	316.11	319.85	0.000028	0.43	1450.27	759.64	0.07	85.75
Reach 1	638	0p5-CC-LC_BU				5.72	623.00	313.68	321.12	316.40	321.13	0.000019	0.42	2180.02	873.57	0.06	77.42

HEC-RAS Plan: KR_Jam_23700 River: Klondike River Reach: Reach 1

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	58149	5_BU				0.60	211.80	457.19	459.11	458.78	459.18	0.003960	1.28	176.98	311.40	0.53	69.92
Reach 1	58149	1_BU				0.62	258.70	457.19	459.21	458.88	459.29	0.003968	1.31	209.35	358.41	0.53	68.61
Reach 1	58149	0p5_BU				0.63	274.10	457.19	459.23	458.92	459.31	0.003967	1.34	218.21	365.59	0.54	68.59
Reach 1	58149	0p5-CC-LC_BU				0.78	383.70	457.19	459.40	459.08	459.50	0.003748	1.50	283.35	422.35	0.54	69.68
Reach 1	57145	5_BU				1.56	211.80	454.28	457.10		457.15	0.001219	1.40	307.38	553.20	0.36	51.15
Reach 1	57145	1_BU				1.67	258.70	454.28	457.21		457.26	0.001207	1.46	371.49	616.50	0.36	46.72
Reach 1	57145	0p5_BU				1.70	274.10	454.28	457.24		457.30	0.001201	1.48	392.42	637.56	0.36	45.45
Reach 1	57145	0p5-CC-LC_BU				1.89	383.70	454.28	457.43	456.97	457.49	0.001229	1.60	523.14	758.51	0.37	39.14
Reach 1	56479	5_BU				1.05	240.10	453.12	455.47	455.09	455.51	0.005101	1.12	306.13	656.22	0.35	32.50
Reach 1	56479	1_BU				1.11	296.00	453.12	455.54	455.20	455.58	0.005627	1.22	349.22	708.62	0.37	30.50
Reach 1	56479	0p5_BU				1.13	314.90	453.12	455.55	455.23	455.60	0.005788	1.26	362.46	723.99	0.38	29.88
Reach 1	56479	0p5-CC-LC_BU				1.25	440.90	453.12	455.68	455.34	455.74	0.006242	1.40	463.40	836.79	0.40	26.46
Reach 1	56103	5_BU				1.35	240.10	452.81	454.88	454.59	454.92	0.001233	1.30	480.43	1110.99	0.36	43.21
Reach 1	56103	1_BU				1.48	296.00	452.81	455.00	454.65	455.04	0.001075	1.28	619.04	1250.15	0.34	37.86
Reach 1	56103	0p5_BU				1.51	314.90	452.81	455.04	454.68	455.07	0.001035	1.28	660.65	1276.27	0.33	36.31
Reach 1	56103	0p5-CC-LC_BU				1.72	440.90	452.81	455.25	454.80	455.28	0.000857	1.27	929.03	1384.61	0.31	29.36
Reach 1	54315	5_BU				1.45	240.10	449.60	451.73	451.23	451.91	0.002405	2.04	149.24	151.29	0.54	82.29
Reach 1	54315	1_BU				1.56	296.00	449.60	451.85	451.42	452.08	0.002828	2.28	169.94	189.14	0.58	80.99
Reach 1	54315	0p5_BU				1.60	314.90	449.60	451.89	451.48	452.13	0.002970	2.36	177.13	201.14	0.60	80.66
Reach 1	54315	0p5-CC-LC_BU				1.79	440.90	449.60	452.08	451.78	452.41	0.003875	2.83	223.56	333.53	0.68	77.50
Reach 1	53429	5_BU				1.05	240.10	446.75	449.04	448.76	449.17	0.004087	1.81	160.79	290.59	0.56	64.39
Reach 1	53429	1_BU				1.23	296.00	446.75	449.22	448.87	449.34	0.003287	1.78	219.19	358.12	0.51	60.40
Reach 1	53429	0p5_BU				1.28	314.90	446.75	449.27	448.91	449.39	0.003094	1.78	239.73	373.58	0.50	59.14
Reach 1	53429	0p5-CC-LC_BU				1.57	440.90	446.75	449.61	449.12	449.71	0.002282	1.71	378.63	448.34	0.44	51.57
Reach 1	52840	5_BU				1.89	240.10	445.50	448.33		448.40	0.000706	1.22	225.51	161.57	0.28	91.14
Reach 1	52840	1_BU				2.09	296.00	445.50	448.53		448.61	0.000743	1.34	258.72	170.72	0.30	89.43
Reach 1	52840	0p5_BU				2.15	314.90	445.50	448.59		448.67	0.000755	1.38	269.27	175.04	0.30	88.94
Reach 1	52840	0p5-CC-LC_BU				2.49	440.90	445.50	448.93		449.05	0.000850	1.61	332.21	197.46	0.33	86.24
Reach 1	52279	5_BU				1.55	240.10	445.07	447.57		447.74	0.002219	1.90	140.01	174.63	0.49	97.07
Reach 1	52279	1_BU				1.71	296.00	445.07	447.73		447.93	0.002266	2.05	171.53	236.34	0.50	93.97
Reach 1	52279	0p5_BU				1.76	314.90	445.07	447.78		447.99	0.002290	2.10	182.03	249.32	0.51	92.95
Reach 1	52279	0p5-CC-LC_BU				2.03	440.90	445.07	448.05		448.29	0.002398	2.36	259.18	435.16	0.53	86.14
Reach 1	50899	5_BU				1.15	290.80	441.51	444.17		444.28	0.002637	1.69	262.99	378.00	0.50	75.78
Reach 1	50899	1_BU				1.25	363.60	441.51	444.31		444.43	0.002606	1.77	317.75	413.08	0.51	71.67
Reach 1	50899	0p5_BU				1.29	389.40	441.51	444.35		444.47	0.002582	1.81	336.60	423.60	0.51	70.54
Reach 1	50899	0p5-CC-LC_BU				1.50	545.10	441.51	444.60		444.73	0.002497	1.97	452.29	539.39	0.51	65.49
Reach 1	50334	5_BU				1.02	290.80	440.40	442.61		442.73	0.002914	1.65	216.07	310.43	0.52	89.27
Reach 1	50334	1_BU				1.14	363.60	440.40	442.73		442.88	0.002951	1.79	257.36	333.37	0.53	87.44
Reach 1	50334	0p5_BU				1.18	389.40	440.40	442.77		442.93	0.002979	1.84	271.26	347.22	0.54	86.94
Reach 1	50334	0p5-CC-LC_BU				1.41	545.10	440.40	443.00		443.19	0.003073	2.10	356.59	431.66	0.56	84.15
Reach 1	49973	5_BU				0.95	290.80	439.55	441.75	441.29	441.84	0.002227	1.37	233.64	298.17	0.45	92.65
Reach 1	49973	1_BU				1.06	363.60	439.55	441.89	441.47	441.99	0.002209	1.47	275.80	315.71	0.46	91.24
Reach 1	49973	0p5_BU				1.11	389.40	439.55	441.93	441.50	442.04	0.002190	1.51	289.92	320.11	0.46	90.82
Reach 1	49973	0p5-CC-LC_BU				1.35	545.10	439.55	442.17	441.67	442.30	0.002137	1.70	371.89	372.72	0.47	88.82
Reach 1	49383	5_BU				1.08	290.80	437.54	440.17		440.29	0.002869	1.69	199.86	221.20	0.52	73.70
Reach 1	49383	1_BU				1.22	363.60	437.54	440.35		440.48	0.002705	1.78	241.99	244.73	0.51	72.61
Reach 1	49383	0p5_BU				1.25	389.40	437.54	440.41		440.55	0.002671	1.80	257.13	255.51	0.51	72.07
Reach 1	49383	0p5-CC-LC_BU				1.47	545.10	437.54	440.73		440.88	0.002472	1.92	355.69	365.82	0.51	69.86
Reach 1	49175	5_BU				1.05	290.80	437.30	439.65		439.78	0.001867	1.56	187.04	181.06	0.48	99.97
Reach 1	49175	1_BU				1.14	363.60	437.30	439.86		439.99	0.001806	1.61	226.96	208.03	0.48	99.86
Reach 1	49175	0p5_BU				1.17	389.40	437.30	439.93		440.06	0.001806	1.63	240.54	220.70	0.48	99.82
Reach 1	49175	0p5-CC-LC_BU				1.45	545.10	437.30	440.27		440.42	0.001764	1.74	324.90	263.71	0.46	99.05
Reach 1	49000	5_BU				1.18	290.80	436.74	439.25		439.40	0.002557	1.69	178.29	167.36	0.50	97.96
Reach 1	49000	1_BU				1.28	363.60	436.74	439.48		439.63	0.002432	1.75	219.88	196.73	0.49	97.18
Reach 1	49000	0p5_BU				1.33	389.40	436.74	439.55		439.70	0.002354	1.77	233.67	201.66	0.49	96.85
Reach 1	49000	0p5-CC-LC_BU				1.66	545.10	436.74	439.92		440.09	0.002001	1.89	315.20	239.18	0.47	95.08
Reach 1	48700	5_BU				1.35	290.80	435.90	438.75		438.85	0.001302	1.42	205.87	172.61	0.39	99.96
Reach 1	48700	1_BU				1.58	363.60	435.90	438.98		439.09	0.001309	1.51	241.68	181.33	0.38	99.84
Reach 1	48700	0p5_BU				1.65	389.40	435.90	439.05		439.17	0.001316	1.55	253.42	187.02	0.38	99.78
Reach 1	48700	0p5-CC-LC_BU				2.04	545.10	435.90	439.44		439.60	0.001365	1.74	320.13	249.20	0.39	99.16
Reach 1	48530	5_BU				1.59	290.80	435.46	438.32	437.75	438.54	0.002629	2.09	150.63	142.57	0.53	98.38
Reach 1	48530	1_BU				1.78	363.60	435.46	438.51	437.93	438.77	0.002700	2.28	180.97	168.63	0.55	96.73
Reach 1	48530	0p5_BU				1.85	389.40	435.46	438.58	437.99	438.85	0.002716	2.35	192.06	179.12	0.55	96.07
Reach 1	48530	0p5-CC-LC_BU				2.20	545.10	435.46	438.93	438.40	439.26	0.002704	2.63	266.40	241.42	0.57	91.85
Reach 1	48400	5_BU				1.46	290.80	435.59	438.01		438.20	0.002423	1.95	172.86	184.61	0.52	95.64
Reach 1	48400	1_BU				1.66	363.60	435.59	438.22		438.43	0.002378	2.10	213.74	214.62	0.52	93.57
Reach 1	48400	0p5_BU				1.73	389.40	435.59	438.29		438.50	0.002345	2.13	228.98	222.76	0.52	92.66
Reach 1	48400	0p5-CC-LC_BU				2.12	545.10	435.59	438.68		438.92	0.002109	2.30	327.11	289.27	0.50	87.41
Reach 1	48250	5_BU				1.37	290.80	435.03	437.51		437.76	0.003482	2.20	140.07	144.73	0.60	98.84
Reach 1	48250	1_BU				1.64	363.60	435.03	437.78		438.03	0.002897	2.25	181.47	171.22	0.56	96.52
Reach 1	48250	0p5_BU				1.73	389.40	435.03	437.87		438.12	0.002720	2.26	198.18	198.67	0.55	95.52
Reach 1	48250	0p5-CC-LC_BU				2.23	545.10	435.03	438.37		438.61	0.001971	2.28	312.05	249.54	0.49	88.82
Reach 1	48100	5_BU				1.61	290.80	434.27	437.19		437.36	0.001910	1.85	156.94	97.43	0.47	100.00
Reach 1	48100	1_BU				1.85	363.60	434.27	437.48		437.68	0.001763	1.95	186.56	100.80	0.46	100.00
Reach 1	48100	0p5_BU				1.93	389.40	434.27	437.58		437.78	0.001735	1.98	196.44	101.88	0.46	100.00
Reach 1	48100	0p5-CC-LC_BU				2.36	545.10	434.27	438.10		438.34	0.001592	2.17	250.81	107.83	0.45	99.99
Reach 1	48010	5_BU				1.94	290.80	433.89	436.99		437.19	0.001805	1.98	147.16	75.94	0.45	100.00
Reach 1	48010	1_BU				2.11	363.60	433.89	437.27		437.51	0.001956	2.15	168.83	79.84	0.47	100.00
Reach 1	48010	0p5_BU				2.19	389.40	433.89	437.36		437.61	0.001990	2.21	176.10	80.43	0.48	100.00
Reach 1	48010	0p5-CC-LC_BU				2.60	545.10	433.89	437.84		438.17	0.002150	2.53	215.66	83.57	0.50	100.00
Reach 1	47901	5_BU				2.30	290.80	433.20	436.85		437.02	0.001211	1.82	160.01	70.67	0.38	99.98
Reach 1	47901	1_BU				2.56	363.60	433.20	437.11		437.32	0.001325	2.04	178.42	71.58	0.41	99.93
Reach 1	47901	0p5_BU				2.64	389.40	433.20	437.20		437.42	0.001362	2.12	184.49	71.88	0.42	99.91
Reach 1	47901	0p5-CC-LC_BU				3.08	545.10	433.20	437.64		437.97	0.001583	2.53	216.81	73.45	0.46	99.72
Reach 1	47790	5_BU				2.18	290.80	433.56	436.76		436.88	0.001084	1.58	184.27	84.47	0.34	100.00
Reach 1	47790	1_BU				2.40	363.60	433.56	437.01		437.17	0.001214	1.77	205.87	85.91	0.36	100.00
Reach 1	47790	0p5_BU				2.47	389.40	433.56	437.09		437.26	0.001259	1.83	213.03	86.41	0.37	100.00
Reach 1	47790	0p5-CC-LC_BU				2.85	545.10	433.56	437.53		437.77	0.001494	2.17	251.40	88.35	0.41	100.00
Reach 1	47700	5_BU				1.92	290.80	433.03	436.61	435.48	436.77	0.001328	1.76	165.54	86.19	0.40	100.00
Reach 1	47700	1_BU				2.11	363.60	433.03	436.85	435.72	437.05	0.001455	1.95	186.14	88.07	0.43	100.00
Reach 1	47700	0p5_BU				2.18	389.40	433.03	436.93	435.81	437.14	0.001492	2.02	192.98	88.50	0.44	100.00
Reach 1	47700	0p5-CC-LC_BU				2.53	545.10	433.03	437.33	436.23	437.62	0.001722	2.38	229.29	90.52	0.48	100.00
Reach 1	47550	5_BU				1.58	290.80	433.60	436.34	435.62	436.52	0.002061	1.91	152.11	96.52	0.49	100.00
Reach 1	47550	1_BU				1.72	363.60	433.60	436.56	435.82	436.78	0.002155	2.09	173.91	100.94	0.51	100.00
Reach 1	47550	0p5_BU				1.77	389.40	433.60	436.63	435.88	436.86	0.002193	2.15	181.26	102.69	0.52	100.00
Reach 1	47550	0p5-CC-LC_BU				2.09	545.10	433.60	437.02	436.23	437.32	0.002326	2.45	223.79	114.98	0.54	99.91
Reach 1	47390	5_BU				1.63	290.80	434.08	436.11		436.23	0.001427	1.59	183.42	114.36	0.40	99.99
Reach 1	47390	1_BU				1.81	363.60	434.08	436.31		436.47	0.001529	1.76	207.47	116.78	0.42	99.96

HEC-RAS Plan: KR_Jam_23700 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	47390	0p5_BU				1.88	389.40	434.08	436.38		436.55	0.001561	1.81	215.49	117.95	0.42	99.95
Reach 1	47390	0p5-CC-LC_BU				2.24	545.10	434.08	436.75		436.98	0.001728	2.12	262.25	146.18	0.45	99.77
Reach 1	47300	5_BU				1.43	290.80	433.73	435.91		436.04	0.003485	1.62	179.96	125.61	0.43	100.00
Reach 1	47300	1_BU				1.63	363.60	433.73	436.11		436.27	0.003540	1.77	205.35	126.98	0.44	100.00
Reach 1	47300	0p5_BU				1.70	389.40	433.73	436.18		436.35	0.003556	1.82	213.76	127.58	0.45	99.99
Reach 1	47300	0p5-CC-LC_BU				2.05	545.10	433.73	436.53		436.76	0.003671	2.10	262.15	152.05	0.47	99.82
Reach 1	47150	5_BU				1.40	290.80	433.25	435.27		435.51	0.003443	2.23	149.59	144.87	0.60	94.89
Reach 1	47150	1_BU				1.61	363.60	433.25	435.48		435.75	0.003273	2.38	181.09	159.22	0.60	93.06
Reach 1	47150	0p5_BU				1.68	389.40	433.25	435.55		435.82	0.003222	2.43	192.33	165.15	0.60	92.45
Reach 1	47150	0p5-CC-LC_BU				2.05	545.10	433.25	435.91		436.25	0.003043	2.69	254.56	171.80	0.60	89.19
Reach 1	47000	5_BU				1.44	290.80	432.80	434.82		435.03	0.002826	2.04	149.81	122.95	0.54	98.23
Reach 1	47000	1_BU				1.64	363.60	432.80	435.05		435.29	0.002727	2.19	180.18	148.20	0.55	97.62
Reach 1	47000	0p5_BU				1.70	389.40	432.80	435.12		435.37	0.002716	2.24	191.08	153.99	0.55	97.29
Reach 1	47000	0p5-CC-LC_BU				2.07	545.10	432.80	435.52		435.82	0.002545	2.46	261.54	207.74	0.55	94.50
Reach 1	46850	5_BU				1.56	290.80	432.38	434.53		434.68	0.001816	1.75	174.99	123.07	0.45	97.58
Reach 1	46850	1_BU				1.78	363.60	432.38	434.77		434.94	0.001776	1.88	207.02	144.02	0.45	96.91
Reach 1	46850	0p5_BU				1.85	389.40	432.38	434.84		435.03	0.001767	1.93	218.18	151.02	0.45	96.64
Reach 1	46850	0p5-CC-LC_BU				2.27	545.10	432.38	435.26		435.49	0.001717	2.16	285.75	186.50	0.46	94.81
Reach 1	46700	5_BU				1.60	290.80	431.90	434.11	433.60	434.34	0.002740	2.15	147.10	175.94	0.54	96.00
Reach 1	46700	1_BU				1.77	363.60	431.90	434.34	433.77	434.60	0.002809	2.35	172.41	193.28	0.56	95.38
Reach 1	46700	0p5_BU				1.83	389.40	431.90	434.41	433.84	434.69	0.002806	2.41	181.30	199.81	0.57	95.03
Reach 1	46700	0p5-CC-LC_BU				2.23	545.10	431.90	434.80	434.14	435.15	0.002759	2.71	237.42	254.43	0.58	92.86
Reach 1	46513	5_BU				1.49	290.80	431.49	433.78	433.15	433.97	0.002342	1.91	154.98	120.66	0.50	99.67
Reach 1	46513	1_BU				1.67	363.60	431.49	434.00	433.33	434.22	0.002396	2.06	186.00	172.97	0.51	98.93
Reach 1	46513	0p5_BU				1.73	389.40	431.49	434.08	433.39	434.30	0.002390	2.11	198.88	186.15	0.51	98.50
Reach 1	46513	0p5-CC-LC_BU				2.09	545.10	431.49	434.52	433.73	434.77	0.002211	2.25	283.52	260.90	0.50	95.03
Reach 1	46503		Bridge														
Reach 1	46441	5_BU				1.62	290.80	431.25	433.57		433.76	0.002123	1.92	152.77	112.65	0.48	99.91
Reach 1	46441	1_BU				1.80	363.60	431.25	433.76		433.99	0.002298	2.14	176.62	141.74	0.51	99.31
Reach 1	46441	0p5_BU				1.86	389.40	431.25	433.82		434.07	0.002333	2.20	185.89	152.34	0.52	98.96
Reach 1	46441	0p5-CC-LC_BU				2.23	545.10	431.25	434.19		434.50	0.002366	2.50	251.16	236.92	0.53	95.98
Reach 1	46352	5_BU				1.16	290.80	430.67	432.98		433.26	0.005055	2.36	125.55	123.56	0.70	99.72
Reach 1	46352	1_BU				1.41	363.60	430.67	433.24		433.53	0.004007	2.38	159.15	131.58	0.64	98.94
Reach 1	46352	0p5_BU				1.49	389.40	430.67	433.33		433.61	0.003769	2.40	170.51	134.16	0.63	98.63
Reach 1	46352	0p5-CC-LC_BU				1.94	545.10	430.67	433.79		434.10	0.002896	2.51	238.20	154.35	0.57	96.94
Reach 1	46300	5_BU				1.70	290.80	430.65	432.93		433.08	0.001583	1.71	171.70	119.01	0.42	99.96
Reach 1	46300	1_BU				1.95	363.60	430.65	433.20		433.37	0.001518	1.83	206.94	140.81	0.42	99.34
Reach 1	46300	0p5_BU				2.04	389.40	430.65	433.29		433.46	0.001499	1.87	219.22	142.63	0.42	99.01
Reach 1	46300	0p5-CC-LC_BU				2.49	545.10	430.65	433.75		433.97	0.001428	2.09	287.14	149.14	0.42	97.10
Reach 1	46250	5_BU				1.74	290.80	430.61	432.83		433.00	0.001752	1.82	162.34	105.55	0.44	99.46
Reach 1	46250	1_BU				1.96	363.60	430.61	433.09		433.29	0.001720	1.96	191.40	114.61	0.45	98.65
Reach 1	46250	0p5_BU				2.04	389.40	430.61	433.18		433.38	0.001708	2.00	201.68	122.56	0.45	98.27
Reach 1	46250	0p5-CC-LC_BU				2.51	545.10	430.61	433.65		433.89	0.001595	2.22	261.33	132.53	0.45	95.76
Reach 1	46200	5_BU				1.66	290.80	430.41	432.71		432.90	0.002058	1.92	151.52	91.32	0.48	100.00
Reach 1	46200	1_BU				1.87	363.60	430.41	432.97		433.19	0.002034	2.07	176.33	98.68	0.48	99.95
Reach 1	46200	0p5_BU				1.96	389.40	430.41	433.06		433.29	0.002013	2.12	184.72	100.57	0.48	99.91
Reach 1	46200	0p5-CC-LC_BU				2.41	545.10	430.41	433.51		433.80	0.001946	2.39	235.66	123.76	0.49	99.29
Reach 1	46150	5_BU				1.92	290.80	430.24	432.65		432.81	0.001435	1.74	167.12	89.21	0.40	100.00
Reach 1	46150	1_BU				2.14	363.60	430.24	432.91		433.10	0.001548	1.92	190.29	92.40	0.42	99.95
Reach 1	46150	0p5_BU				2.22	389.40	430.24	432.99		433.19	0.001576	1.98	197.99	93.26	0.42	99.92
Reach 1	46150	0p5-CC-LC_BU				2.62	545.10	430.24	433.44		433.70	0.001723	2.29	242.39	116.91	0.45	99.66
Reach 1	46100	5_BU				1.91	290.80	430.02	432.55		432.73	0.001621	1.87	157.14	85.31	0.43	99.80
Reach 1	46100	1_BU				2.13	363.60	430.02	432.79		433.01	0.001711	2.07	177.99	87.33	0.45	99.69
Reach 1	46100	0p5_BU				2.21	389.40	430.02	432.87		433.10	0.001743	2.13	184.96	93.22	0.46	99.65
Reach 1	46100	0p5-CC-LC_BU				2.64	545.10	430.02	433.30		433.61	0.001859	2.48	239.16	152.57	0.49	98.73
Reach 1	46050	5_BU				1.54	290.80	429.81	432.31		432.60	0.003475	2.38	122.09	81.49	0.61	99.99
Reach 1	46050	1_BU				1.71	363.60	429.81	432.54		432.88	0.003482	2.60	140.55	87.79	0.63	99.92
Reach 1	46050	0p5_BU				1.78	389.40	429.81	432.61		432.97	0.003491	2.67	147.05	91.22	0.64	99.88
Reach 1	46050	0p5-CC-LC_BU				2.14	545.10	429.81	433.01		433.47	0.003473	3.02	190.52	130.22	0.66	99.14
Reach 1	46000	5_BU				1.68	290.80	429.73	432.16		432.44	0.002966	2.33	124.90	74.15	0.57	100.00
Reach 1	46000	1_BU				1.84	363.60	429.73	432.37		432.71	0.003250	2.59	140.85	82.12	0.61	99.99
Reach 1	46000	0p5_BU				1.87	389.40	429.73	432.44		432.80	0.003310	2.67	146.60	88.32	0.62	99.96
Reach 1	46000	0p5-CC-LC_BU				2.22	545.10	429.73	432.81		433.29	0.003592	3.10	184.94	118.94	0.66	99.27
Reach 1	45950	5_BU				1.55	290.80	429.64	432.02		432.28	0.003117	2.26	128.54	82.74	0.58	100.00
Reach 1	45950	1_BU				1.64	363.60	429.64	432.22		432.54	0.003252	2.49	145.75	88.90	0.62	100.00
Reach 1	45950	0p5_BU				1.65	389.40	429.64	432.29		432.63	0.003282	2.56	152.02	91.87	0.64	100.00
Reach 1	45950	0p5-CC-LC_BU				1.60	545.10	429.64	432.68		433.10	0.003370	2.85	192.07	124.34	0.72	99.93
Reach 1	45850	5_BU				1.50	290.80	429.47	431.81		431.99	0.002311	1.90	153.96	111.86	0.50	99.95
Reach 1	45850	1_BU				1.69	363.60	429.47	432.02		432.24	0.002353	2.08	177.77	114.68	0.51	99.74
Reach 1	45850	0p5_BU				1.75	389.40	429.47	432.09		432.32	0.002360	2.13	186.04	116.16	0.51	99.65
Reach 1	45850	0p5-CC-LC_BU				1.99	545.10	429.47	432.49		432.78	0.002380	2.40	235.92	142.88	0.54	99.02
Reach 1	45750	5_BU				1.30	290.80	429.31	431.53		431.73	0.002962	1.96	148.56	114.20	0.55	100.00
Reach 1	45750	1_BU				1.50	363.60	429.31	431.76		431.98	0.002758	2.08	174.90	118.27	0.54	99.99
Reach 1	45750	0p5_BU				1.57	389.40	429.31	431.84		432.07	0.002700	2.12	184.04	120.04	0.54	99.98
Reach 1	45750	0p5-CC-LC_BU				1.94	545.10	429.31	432.25		432.53	0.002553	2.34	235.28	128.54	0.54	99.81
Reach 1	45600	5_BU				1.58	290.80	429.06	431.22		431.38	0.001809	1.75	166.35	105.02	0.44	100.00
Reach 1	45600	1_BU				1.79	363.60	429.06	431.45		431.64	0.001821	1.90	191.18	106.84	0.45	100.00
Reach 1	45600	0p5_BU				1.86	389.40	429.06	431.53		431.73	0.001823	1.95	199.63	107.45	0.46	100.00
Reach 1	45600	0p5-CC-LC_BU				2.18	545.10	429.06	431.93		432.19	0.001938	2.24	244.75	126.33	0.48	99.96
Reach 1	45400	5_BU				1.61	290.80	428.84	430.87		431.02	0.001698	1.71	170.86	115.10	0.43	99.90
Reach 1	45400	1_BU				1.83	363.60	428.84	431.11		431.28	0.001712	1.87	199.12	127.95	0.44	99.65
Reach 1	45400	0p5_BU				1.90	389.40	428.84	431.19		431.37	0.001700	1.91	209.63	132.14	0.44	99.49
Reach 1	45400	0p5-CC-LC_BU				2.26	545.10	428.84	431.57		431.81	0.001794	2.20	266.80	189.94	0.47	98.44
Reach 1	45200	5_BU				1.43	290.80	428.38	430.32		430.56	0.003209	2.18	135.45	102.76	0.58	99.76
Reach 1	45200	1_BU				1.61	363.60	428.38	430.54		430.82	0.003161	2.34	160.71	124.93	0.59	99.35
Reach 1	45200	0p5_BU				1.64	389.40	428.38	430.62		430.91	0.003214	2.38	170.77	134.50	0.59	99.19
Reach 1	45200	0p5-CC-LC_BU				1.96	545.10	428.38	430.99		431.34	0.003119	2.65	237.52	239.32	0.60	97.07
Reach 1	44985	5_BU				1.65	290.80	426.86	429.87		430.03	0.001765	1.77	165.94	114.91	0.44	99.87
Reach 1	44985	1_BU				1.88	363.60	426.86	430.10		430.29	0.001774	1.93	195.49	146.29	0.45	99.38
Reach 1	44985	0p5_BU				1.96	389.40	426.86	430.18		430.38	0.001781	1.99	206.80	162.46	0.45	99.07
Reach 1	44985	0p5-CC-LC_BU				2.34	545.10	426.86	430.56		430.81	0.001812	2.26	286.27	262.27	0.47	96.09
Reach 1	43733	5_BU				1.24	290.80	424.63	427.09		427.26	0.002842	1.85	167.20	154.71	0.53	91.67
Reach 1	43733	1_BU				1.33	363.60	424.63	427.24		427.44	0.002997	2.04	192.56	183.99	0.57	91.08
Reach 1	43733	0p5_BU				1.38	389.40	424.63	427.29		427.50	0.003027	2.10	202.47	195.79	0.57	90.86
Reach 1	43733	0p5-CC-LC_BU				1.64	545.10	424.63	427.56		427.82	0.003218	2.40	261.79	257.03	0.60	88.39
Reach 1	42697	5_BU				1.45	290.80	421.83	425.04	424.42	425.14	0.001612	1.54	289.57	457.65	0.41	77.28
Reach 1	42697	1_BU				1.58	363.60	421.83	425.17	424.76	425.27	0.001628	1.64	352.98	510.00	0.42	71.77

HEC-RAS Plan: KR_Jam_23700 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	42697	0p5_BU				1.62	389.40	421.83	425.21	424.81	425.32	0.001648	1.68	373.47	523.07	0.42	70.25
Reach 1	42697	0p5-CC-LC_BU				1.83	545.10	421.83	425.42	425.03	425.54	0.001731	1.86	487.42	580.10	0.44	62.80
Reach 1	41323	5_BU				0.87	290.80	419.47	421.45		421.64	0.004579	1.95	149.51	170.95	0.66	100.00
Reach 1	41323	1_BU				0.94	363.60	419.47	421.63		421.83	0.004330	1.99	183.53	214.64	0.65	99.96
Reach 1	41323	0p5_BU				0.98	389.40	419.47	421.69		421.90	0.004169	1.99	198.57	264.10	0.64	99.83
Reach 1	41323	0p5-CC-LC_BU				1.08	545.10	419.47	422.01		422.20	0.003660	1.98	308.47	435.93	0.61	95.73
Reach 1	40285	5_BU				1.48	290.80	416.85	419.58		419.62	0.001019	1.23	364.00	463.45	0.32	42.98
Reach 1	40285	1_BU				1.61	363.60	416.85	419.71		419.77	0.001082	1.35	436.90	572.89	0.34	41.14
Reach 1	40285	0p5_BU				1.66	389.40	416.85	419.76		419.81	0.001117	1.40	463.34	605.72	0.35	40.85
Reach 1	40285	0p5-CC-LC_BU				1.86	545.10	416.85	419.96		420.02	0.001281	1.61	590.93	671.87	0.38	37.73
Reach 1	39051	5_BU				0.78	290.80	414.48	417.40		417.47	0.005561	1.25	271.84	600.83	0.45	81.24
Reach 1	39051	1_BU				0.81	363.60	414.48	417.53		417.59	0.005291	1.21	362.97	757.27	0.43	74.59
Reach 1	39051	0p5_BU				0.84	389.40	414.48	417.57		417.63	0.005082	1.21	390.87	792.72	0.42	72.93
Reach 1	39051	0p5-CC-LC_BU				1.01	545.10	414.48	417.76		417.82	0.004222	1.24	561.04	981.88	0.39	65.70
Reach 1	38622	5_BU				0.85	290.80	413.89	416.80		416.82	0.000728	0.71	516.75	959.14	0.25	85.48
Reach 1	38622	1_BU				0.96	363.60	413.89	416.92		416.95	0.000767	0.75	634.79	1138.44	0.24	82.78
Reach 1	38622	0p5_BU				0.99	389.40	413.89	416.96		416.99	0.000780	0.76	674.47	1183.00	0.24	81.85
Reach 1	38622	0p5-CC-LC_BU				1.18	545.10	413.89	417.15		417.18	0.000881	0.85	880.71	1364.67	0.25	77.47
Reach 1	38155	5_BU				1.50	290.80	413.94	415.97	415.74	416.22	0.003668	2.39	195.91	409.83	0.62	85.16
Reach 1	38155	1_BU				1.70	363.60	413.94	416.18	416.00	416.40	0.003031	2.35	297.89	589.59	0.58	76.21
Reach 1	38155	0p5_BU				1.76	389.40	413.94	416.25	416.06	416.45	0.002842	2.33	339.06	658.08	0.56	73.34
Reach 1	38155	0p5-CC-LC_BU				2.07	545.10	413.94	416.57		416.72	0.002045	2.20	577.66	923.21	0.49	58.56
Reach 1	37333	5_BU				1.97	290.80	411.14	413.98		414.18	0.001838	2.03	162.39	147.21	0.46	97.40
Reach 1	37333	1_BU				2.14	363.60	411.14	414.16		414.41	0.002097	2.29	193.70	206.09	0.50	95.78
Reach 1	37333	0p5_BU				2.19	389.40	411.14	414.21		414.48	0.002200	2.38	204.03	216.08	0.51	95.12
Reach 1	37333	0p5-CC-LC_BU				2.42	545.10	411.14	414.43	413.86	414.83	0.002893	2.91	260.90	288.77	0.60	91.88
Reach 1	36316	5_BU				1.61	290.80	409.47	411.96	411.57	412.13	0.002447	2.05	234.55	523.28	0.52	79.39
Reach 1	36316	1_BU				1.70	363.60	409.47	412.13	411.80	412.29	0.002335	2.07	339.93	712.35	0.51	71.16
Reach 1	36316	0p5_BU				1.74	389.40	409.47	412.17		412.33	0.002298	2.09	371.42	742.01	0.51	68.69
Reach 1	36316	0p5-CC-LC_BU				1.96	545.10	409.47	412.41		412.55	0.002050	2.14	565.26	901.25	0.49	57.14
Reach 1	34806	5_BU				1.37	290.80	406.69	408.63		408.76	0.002135	1.72	201.64	182.57	0.47	89.52
Reach 1	34806	1_BU				1.54	363.60	406.69	408.81		408.97	0.002203	1.89	235.91	195.52	0.49	89.16
Reach 1	34806	0p5_BU				1.60	389.40	406.69	408.86		409.04	0.002219	1.94	247.23	198.71	0.49	88.67
Reach 1	34806	0p5-CC-LC_BU				1.88	545.10	406.69	409.18		409.40	0.002331	2.21	311.80	218.53	0.51	86.43
Reach 1	33067	5_BU				1.28	290.80	401.87	404.17	403.67	404.37	0.003085	1.98	147.41	118.96	0.56	99.97
Reach 1	33067	1_BU				1.48	363.60	401.87	404.38	403.86	404.61	0.002932	2.12	173.19	130.78	0.56	99.85
Reach 1	33067	0p5_BU				1.54	389.40	401.87	404.45	403.92	404.69	0.002891	2.17	182.11	155.91	0.56	99.77
Reach 1	33067	0p5-CC-LC_BU				1.92	545.10	401.87	404.83	404.22	405.12	0.002649	2.40	247.57	382.55	0.55	98.64
Reach 1	32800	5_BU				1.52	290.80	401.32	403.49	402.90	403.67	0.002219	1.88	154.88	239.36	0.49	100.00
Reach 1	32800	1_BU				1.73	363.60	401.32	403.71	403.06	403.93	0.002225	2.05	177.45	273.89	0.50	100.00
Reach 1	32800	0p5_BU				1.80	389.40	401.32	403.78	403.11	404.01	0.002229	2.11	184.83	289.60	0.50	100.00
Reach 1	32800	0p5-CC-LC_BU				2.18	545.10	401.32	404.17	403.40	404.47	0.002279	2.43	228.17	557.20	0.52	99.82
Reach 1	32550	5_BU				1.26	290.80	400.66	402.50	402.23	402.84	0.005302	2.57	113.98	152.21	0.73	99.84
Reach 1	32550	1_BU				1.36	363.60	400.66	402.66	402.43	403.07	0.005589	2.84	129.57	179.81	0.78	99.59
Reach 1	32550	0p5_BU				1.39	389.40	400.66	402.71	402.50	403.15	0.005678	2.93	135.02	192.11	0.79	99.49
Reach 1	32550	0p5-CC-LC_BU				1.64	545.10	400.66	402.99	402.85	403.56	0.006127	3.38	167.97	300.80	0.84	98.50
Reach 1	32400	5_BU				1.58	290.80	400.20	402.24	401.71	402.35	0.001660	1.67	221.26	182.99	0.42	66.96
Reach 1	32400	1_BU				1.76	363.60	400.20	402.43	401.83	402.55	0.001686	1.80	255.26	184.97	0.43	64.53
Reach 1	32400	0p5_BU				1.81	389.40	400.20	402.49	401.87	402.62	0.001697	1.85	266.47	185.95	0.44	63.85
Reach 1	32400	0p5-CC-LC_BU				2.12	545.10	400.20	402.81	402.10	402.98	0.001778	2.09	329.62	216.26	0.46	60.88
Reach 1	32250	5_BU				1.31	290.80	399.61	401.80	401.40	402.00	0.003433	2.12	161.25	163.77	0.59	80.23
Reach 1	32250	1_BU				1.46	363.60	399.61	401.98	401.54	402.20	0.003435	2.27	188.69	178.62	0.60	77.91
Reach 1	32250	0p5_BU				1.51	389.40	399.61	402.03	401.59	402.26	0.003452	2.32	198.09	186.55	0.60	77.22
Reach 1	32250	0p5-CC-LC_BU				1.78	545.10	399.61	402.33	401.92	402.61	0.003472	2.57	259.95	255.12	0.61	73.41
Reach 1	32150	5_BU				1.19	290.80	399.22	401.47	401.05	401.64	0.003328	1.96	169.41	184.02	0.57	84.50
Reach 1	32150	1_BU				1.37	363.60	399.22	401.67	401.23	401.85	0.003003	2.05	208.48	212.22	0.56	82.47
Reach 1	32150	0p5_BU				1.44	389.40	399.22	401.73	401.34	401.92	0.002895	2.07	222.40	219.43	0.55	81.55
Reach 1	32150	0p5-CC-LC_BU				1.78	545.10	399.22	402.08	401.60	402.28	0.002452	2.20	308.93	296.86	0.53	76.75
Reach 1	32000	5_BU				1.68	290.80	398.64	400.98	400.53	401.20	0.002630	2.18	159.88	147.63	0.54	87.02
Reach 1	32000	1_BU				1.88	363.60	398.64	401.20	400.72	401.44	0.002538	2.32	194.64	179.98	0.54	83.51
Reach 1	32000	0p5_BU				1.95	389.40	398.64	401.27	400.81	401.52	0.002515	2.36	207.77	195.12	0.54	82.39
Reach 1	32000	0p5-CC-LC_BU				2.32	545.10	398.64	401.66	401.12	401.92	0.002344	2.56	305.75	296.10	0.54	76.30
Reach 1	31850	5_BU				1.59	290.80	398.07	400.43	400.12	400.73	0.003690	2.50	133.22	122.53	0.63	91.60
Reach 1	31850	1_BU				1.72	363.60	398.07	400.59	400.31	400.95	0.004174	2.79	153.89	150.35	0.68	89.63
Reach 1	31850	0p5_BU				1.76	389.40	398.07	400.63	400.38	401.02	0.004321	2.88	161.30	154.87	0.70	88.88
Reach 1	31850	0p5-CC-LC_BU				1.95	545.10	398.07	400.88	400.77	401.39	0.005217	3.40	205.77	217.32	0.78	85.48
Reach 1	31700	5_BU				1.39	290.80	397.52	400.25	399.45	400.34	0.001320	1.37	246.24	267.26	0.37	86.74
Reach 1	31700	1_BU				1.51	363.60	397.52	400.40	399.59	400.51	0.001421	1.52	286.73	308.82	0.39	85.15
Reach 1	31700	0p5_BU				1.55	389.40	397.52	400.45	399.64	400.56	0.001462	1.57	299.96	320.41	0.40	84.69
Reach 1	31700	0p5-CC-LC_BU				1.77	545.10	397.52	400.69	399.93	400.84	0.001682	1.83	374.94	391.65	0.44	81.88
Reach 1	31597	5_BU				0.92	290.80	397.42	400.05	399.59	400.14	0.002506	1.42	235.52	326.55	0.47	74.31
Reach 1	31597	1_BU				1.01	363.60	397.42	400.21	399.70	400.30	0.002423	1.49	289.03	379.21	0.47	72.89
Reach 1	31597	0p5_BU				1.04	389.40	397.42	400.25	399.72	400.35	0.002396	1.51	307.26	399.15	0.47	72.44
Reach 1	31597	0p5-CC-LC_BU				1.25	545.10	397.42	400.49	399.95	400.60	0.002349	1.69	408.41	450.78	0.48	71.28
Reach 1	31500	5_BU				0.78	290.80	398.07	399.86	399.39	399.96	0.002083	1.17	233.01	292.38	0.42	28.63
Reach 1	31500	1_BU				0.88	363.60	398.07	400.00	399.53	400.12	0.002171	1.29	279.31	339.48	0.44	30.07
Reach 1	31500	0p5_BU				0.92	389.40	398.07	400.05	399.58	400.17	0.002194	1.34	295.18	354.10	0.45	30.67
Reach 1	31500	0p5-CC-LC_BU				1.15	545.10	398.07	400.29	399.81	400.42	0.002254	1.57	388.19	427.14	0.47	32.57
Reach 1	31400	5_BU				0.76	290.80	397.82	399.63	399.31	399.78	0.003235	1.39	208.92	300.13	0.51	34.05
Reach 1	31400	1_BU				0.90	363.60	397.82	399.78	399.50	399.93	0.003148	1.49	257.27	350.22	0.50	35.24
Reach 1	31400	0p5_BU				0.94	389.40	397.82	399.83	399.54	399.98	0.003156	1.53	273.08	363.11	0.50	35.42
Reach 1	31400	0p5-CC-LC_BU				1.15	545.10	397.82	400.06	399.75	400.22	0.003275	1.77	368.15	496.94	0.53	36.56
Reach 1	31350	5_BU				0.86	290.80	397.71	399.57	399.10	399.67	0.002272	1.30	241.31	292.39	0.45	39.11
Reach 1	31350	1_BU				0.98	363.60	397.71	399.72	399.25	399.83	0.002271	1.42	286.82	341.85	0.46	40.16
Reach 1	31350	0p5_BU				1.02	389.40	397.71	399.76	399.29	399.87	0.002302	1.47	301.60	360.14	0.46	40.47
Reach 1	31350	0p5-CC-LC_BU				1.23	545.10	397.71	399.98	399.51	400.12	0.002510	1.73	396.98	539.59	0.50	41.54
Reach 1	31300	5_BU				0.80	290.80	397.60	399.41	399.11	399.56	0.003833	1.62	201.57	281.10	0.58	39.00
Reach 1	31300	1_BU				0.81	363.60	397.60	399.56	399.28	399.72	0.003778	1.62	249.77	353.38	0.57	37.78
Reach 1	31300	0p5_BU				0.85	389.40	397.60	399.61	399.32	399.77	0.003707	1.65	266.05	369.11	0.57	38.09
Reach 1	31300	0p5-CC-LC_BU				1.05	545.10	397.60	399.84	399.57	400.01	0.003519	1.86	365.81	526.64	0.58	39.01
Reach 1	31250	5_BU				0.89	290.80	397.53	399.33	398.88	399.43	0.002294	1.36	245.07	340.96	0.46	44.27
Reach 1	31250	1_BU				0.94	363.60	397.53	399.49	399.00	399.59	0.002229	1.41	307.79	460.73	0.46	43.53
Reach 1	31250	0p5_BU				0.98	389.40	397.53	399.54	399.04	399.64	0.002205	1.43	330.34	489.06	0.46	43.50
Reach 1	31250	0p5-CC-LC_BU				1.22	545.10	397.53	399.78	399.30	399.88	0.002139	1.58	465.87	629.21	0.46	42.77
Reach 1	31200	5_BU				1.33	290.80	397.38	399.24	398.63	399.33	0.001518	1.47	254.08	325.28	0.41	56.44
Reach 1	31200	1_BU				1.44	363.60	397.38	399.39	398.78	399.49	0.001553	1.58	310.79	424.91	0.42	54.11
Reach 1	31200	0p5_BU				1.48	389.40	397.38	399.43	398.82	399.54	0.001583	1.62	330.42	458.85	0.42	53.45
Reach 1	31200	0p5-CC-LC_BU				1.70	545.10	397.38	399.66	399.06	399.78	0.001726	1.82	450.87	616.40	0.45	49.44

HEC-RAS Plan: KR_Jam_23700 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	31150	5_BU				1.04	290.80	397.22	399.14	398.64	399.21	0.001741	1.33	257.24	326.91	0.42	52.41
Reach 1	31150	1_BU				1.15	363.60	397.22	399.30	398.77	399.38	0.001641	1.39	321.59	483.50	0.42	50.88
Reach 1	31150	0p5_BU				1.18	389.40	397.22	399.34	398.80	399.42	0.001641	1.42	344.27	532.59	0.42	50.42
Reach 1	31150	0p5-CC-LC_BU				1.40	545.10	397.22	399.56	398.97	399.65	0.001672	1.58	476.07	652.08	0.43	47.47
Reach 1	31100	5_BU				0.99	290.80	397.05	398.70	398.44	398.89	0.004251	1.95	166.74	233.61	0.63	40.59
Reach 1	31100	1_BU				1.06	363.60	397.05	398.85	398.58	399.05	0.004369	2.07	210.37	341.55	0.64	39.98
Reach 1	31100	0p5_BU				1.08	389.40	397.05	398.90	398.64	399.10	0.004300	2.09	228.54	385.70	0.64	39.39
Reach 1	31100	0p5-CC-LC_BU				1.22	545.10	397.05	399.15	398.97	399.33	0.004043	2.20	344.36	565.57	0.63	36.81
Reach 1	31050	5_BU				0.97	290.80	396.94	398.59	398.23	398.71	0.003218	1.68	210.21	326.75	0.54	34.84
Reach 1	31050	1_BU				1.02	363.60	396.94	398.77	398.38	398.88	0.002926	1.70	276.50	455.86	0.54	33.42
Reach 1	31050	0p5_BU				1.03	389.40	396.94	398.82	398.43	398.93	0.002839	1.69	302.51	494.89	0.53	32.78
Reach 1	31050	0p5-CC-LC_BU				1.20	545.10	396.94	399.08	398.66	399.18	0.002458	1.75	448.04	624.49	0.51	30.76
Reach 1	31011	5_BU				1.05	290.80	396.85	398.45	397.94	398.53	0.002083	1.42	228.66	256.32	0.44	31.12
Reach 1	31011	1_BU				1.11	363.60	396.85	398.62	398.07	398.71	0.002190	1.52	278.90	338.29	0.46	31.04
Reach 1	31011	0p5_BU				1.13	389.40	396.85	398.67	398.10	398.76	0.002193	1.54	297.78	362.23	0.46	30.82
Reach 1	31011	0p5-CC-LC_BU				1.33	545.10	396.85	398.93	398.30	399.03	0.002015	1.64	406.26	484.58	0.45	29.22
Reach 1	30950	5_BU				0.97	290.80	396.52	398.25	397.77	398.33	0.001794	1.26	231.49	266.14	0.41	38.07
Reach 1	30950	1_BU				1.12	363.60	396.52	398.41	397.87	398.50	0.001755	1.36	278.52	309.57	0.41	38.62
Reach 1	30950	0p5_BU				1.16	389.40	396.52	398.46	397.91	398.56	0.001774	1.41	295.17	327.39	0.42	38.94
Reach 1	30950	0p5-CC-LC_BU				1.39	545.10	396.52	398.72	398.09	398.83	0.001880	1.63	390.43	406.78	0.44	39.58
Reach 1	30850	5_BU				0.79	290.80	395.91	398.09	397.56	398.16	0.002221	1.21	243.81	299.81	0.44	83.68
Reach 1	30850	1_BU				0.85	363.60	395.91	398.27	397.67	398.34	0.002048	1.22	301.50	348.46	0.42	84.05
Reach 1	30850	0p5_BU				0.88	389.40	395.91	398.32	397.71	398.39	0.001994	1.24	320.52	360.29	0.42	84.26
Reach 1	30850	0p5-CC-LC_BU				1.06	545.10	395.91	398.58	397.92	398.67	0.001840	1.34	427.59	445.43	0.42	86.28
Reach 1	30750	5_BU				0.90	290.80	395.77	397.74	397.37	397.90	0.004050	1.79	164.36	184.96	0.60	71.54
Reach 1	30750	1_BU				0.89	363.60	395.77	397.92	397.55	398.09	0.004136	1.79	201.00	223.13	0.61	70.17
Reach 1	30750	0p5_BU				0.90	389.40	395.77	397.98	397.60	398.15	0.004135	1.80	214.43	241.83	0.61	69.93
Reach 1	30750	0p5-CC-LC_BU				1.04	545.10	395.77	398.27	397.85	398.44	0.003805	1.90	305.91	391.15	0.59	71.76
Reach 1	30650	5_BU				1.18	290.80	395.40	397.49	396.94	397.62	0.002465	1.67	194.99	221.56	0.49	83.41
Reach 1	30650	1_BU				1.28	363.60	395.40	397.68	397.11	397.82	0.002400	1.74	239.44	254.17	0.49	81.09
Reach 1	30650	0p5_BU				1.32	389.40	395.40	397.74	397.16	397.88	0.002357	1.76	255.24	268.13	0.49	80.31
Reach 1	30650	0p5-CC-LC_BU				1.60	545.10	395.40	398.03	397.45	398.19	0.002214	1.95	357.35	439.55	0.49	77.42
Reach 1	30396	5_BU				1.66	290.80	394.21	396.80	396.46	397.02	0.002645	2.21	172.68	188.02	0.55	84.13
Reach 1	30396	1_BU				1.82	363.60	394.21	397.01	396.63	397.23	0.002568	2.31	213.96	220.11	0.55	79.47
Reach 1	30396	0p5_BU				1.89	389.40	394.21	397.08	396.70	397.31	0.002524	2.34	231.02	247.24	0.54	78.03
Reach 1	30396	0p5-CC-LC_BU				2.22	545.10	394.21	397.44	396.98	397.67	0.002348	2.48	343.72	380.74	0.53	70.40
Reach 1	30150	5_BU				1.58	290.80	393.70	396.10	395.64	396.34	0.003033	2.26	148.74	149.69	0.57	92.47
Reach 1	30150	1_BU				1.74	363.60	393.70	396.26	395.91	396.55	0.003242	2.49	174.86	170.30	0.60	89.98
Reach 1	30150	0p5_BU				1.79	389.40	393.70	396.31	395.97	396.62	0.003340	2.58	184.11	178.66	0.61	89.64
Reach 1	30150	0p5-CC-LC_BU				2.09	545.10	393.70	396.61	396.32	396.99	0.003592	2.96	244.33	237.39	0.65	85.36
Reach 1	29887	5_BU				1.03	290.80	393.58	395.39	394.94	395.51	0.002743	1.61	186.54	186.83	0.51	93.32
Reach 1	29887	1_BU				1.18	363.60	393.58	395.55	395.06	395.70	0.002643	1.72	218.27	196.00	0.51	92.95
Reach 1	29887	0p5_BU				1.23	389.40	393.58	395.60	395.11	395.76	0.002622	1.77	228.56	197.08	0.51	92.83
Reach 1	29887	0p5-CC-LC_BU				1.51	545.10	393.58	395.90	395.35	396.09	0.002549	1.98	287.57	206.61	0.51	92.17
Reach 1	29585	5_BU				1.06	290.80	392.36	394.38	394.02	394.56	0.003708	1.90	152.99	148.27	0.59	99.97
Reach 1	29585	1_BU				1.16	363.60	392.36	394.54	394.16	394.75	0.003795	2.05	178.19	158.79	0.61	99.84
Reach 1	29585	0p5_BU				1.21	389.40	392.36	394.59	394.20	394.81	0.003817	2.11	185.94	160.12	0.61	99.79
Reach 1	29585	0p5-CC-LC_BU				1.43	545.10	392.36	394.88	394.48	395.16	0.003775	2.35	234.95	170.80	0.63	99.42
Reach 1	29234	5_BU				1.19	290.80	391.76	393.33	392.89	393.48	0.002557	1.71	174.72	166.81	0.50	99.33
Reach 1	29234	1_BU				1.37	363.60	391.76	393.52	393.02	393.69	0.002432	1.84	206.79	175.25	0.50	98.80
Reach 1	29234	0p5_BU				1.44	389.40	391.76	393.58	393.06	393.76	0.002400	1.88	217.64	177.22	0.50	98.59
Reach 1	29234	0p5-CC-LC_BU				1.77	545.10	391.76	393.92	393.30	394.14	0.002290	2.11	280.91	203.76	0.51	97.62
Reach 1	28752	5_BU				1.40	290.80	389.58	392.10	391.58	392.25	0.002521	1.77	181.42	168.69	0.48	95.80
Reach 1	28752	1_BU				1.56	363.60	389.58	392.27	391.74	392.46	0.002664	1.95	211.99	178.58	0.50	94.78
Reach 1	28752	0p5_BU				1.62	389.40	389.58	392.33	391.79	392.53	0.002710	2.01	222.14	182.22	0.50	94.34
Reach 1	28752	0p5-CC-LC_BU				1.90	545.10	389.58	392.63	392.06	392.88	0.002952	2.30	279.45	201.07	0.53	91.84
Reach 1	27904	5_BU				1.21	290.80	387.11	389.64		389.81	0.003390	1.98	170.90	190.32	0.58	80.82
Reach 1	27904	1_BU				1.37	363.60	387.11	389.80		389.99	0.003247	2.11	203.75	204.39	0.58	78.31
Reach 1	27904	0p5_BU				1.43	389.40	387.11	389.86		390.06	0.003200	2.15	215.04	208.53	0.58	77.48
Reach 1	27904	0p5-CC-LC_BU				1.73	545.10	387.11	390.15		390.38	0.002988	2.36	288.26	296.64	0.57	73.34
Reach 1	27650	5_BU				1.24	290.80	386.21	388.61	388.26	388.83	0.003776	2.14	150.64	151.08	0.61	88.65
Reach 1	27650	1_BU				1.41	363.60	386.21	388.79	388.45	389.04	0.003687	2.30	178.10	158.42	0.62	87.18
Reach 1	27650	0p5_BU				1.47	389.40	386.21	388.85	388.49	389.11	0.003642	2.35	187.85	160.95	0.62	86.72
Reach 1	27650	0p5-CC-LC_BU				1.81	545.10	386.21	389.21	388.75	389.50	0.003283	2.55	260.03	263.35	0.61	83.66
Reach 1	27359	5_BU				1.33	290.80	385.38	387.54	387.14	387.78	0.003540	2.17	134.16	101.12	0.60	100.00
Reach 1	27359	1_BU				1.54	363.60	385.38	387.76	387.30	388.03	0.003304	2.32	157.05	103.33	0.60	100.00
Reach 1	27359	0p5_BU				1.62	389.40	385.38	387.83	387.36	388.12	0.003245	2.37	164.70	104.75	0.59	99.99
Reach 1	27359	0p5-CC-LC_BU				2.03	545.10	385.38	388.25	387.65	388.60	0.002963	2.63	209.90	115.86	0.59	99.77
Reach 1	27150	5_BU				1.76	290.80	383.59	387.01	386.21	387.21	0.002056	2.00	145.82	85.60	0.48	99.98
Reach 1	27150	1_BU				1.95	363.60	383.59	387.21	386.41	387.47	0.002246	2.24	163.45	88.80	0.51	99.90
Reach 1	27150	0p5_BU				2.02	389.40	383.59	387.28	386.49	387.55	0.002305	2.32	169.33	89.72	0.52	99.85
Reach 1	27150	0p5-CC-LC_BU				2.39	545.10	383.59	387.64	386.88	388.02	0.002571	2.74	203.33	97.32	0.57	99.48
Reach 1	26869	5_BU				1.19	290.80	383.32	385.95	385.76	386.28	0.005851	2.58	115.76	105.03	0.76	99.09
Reach 1	26869	1_BU				1.41	363.60	383.32	386.17	385.92	386.54	0.005071	2.70	139.82	108.76	0.72	98.62
Reach 1	26869	0p5_BU				1.49	389.40	383.32	386.25	385.98	386.62	0.004901	2.74	147.81	110.13	0.72	98.44
Reach 1	26869	0p5-CC-LC_BU				1.87	545.10	383.32	386.63	386.27	387.09	0.004355	3.02	191.67	116.18	0.70	97.46
Reach 1	26650	5_BU				2.06	290.80	382.27	385.62	384.53	385.75	0.001116	1.63	184.96	108.85	0.36	98.62
Reach 1	26650	1_BU				2.27	363.60	382.27	385.83	384.73	386.00	0.001253	1.85	208.28	116.04	0.39	98.01
Reach 1	26650	0p5_BU				2.34	389.40	382.27	385.89	384.80	386.08	0.001299	1.92	216.04	117.45	0.40	97.79
Reach 1	26650	0p5-CC-LC_BU				2.69	545.10	382.27	386.24	385.17	386.51	0.001557	2.30	263.13	161.26	0.45	96.53
Reach 1	26500	5_BU				2.02	290.80	382.41	385.47	384.32	385.59	0.001068	1.57	199.62	118.76	0.35	97.11
Reach 1	26500	1_BU				2.20	363.60	382.41	385.65	384.56	385.81	0.001232	1.79	223.44	139.91	0.39	96.58
Reach 1	26500	0p5_BU				2.26	389.40	382.41	385.71	384.64	385.88	0.001288	1.86	231.85	143.69	0.40	96.36
Reach 1	26500	0p5-CC-LC_BU				2.57	545.10	382.41	386.02	384.98	386.27	0.001596	2.26	285.03	212.48	0.45	94.95
Reach 1	26363	5_BU				1.46	290.80	382.60	385.21		385.37	0.002217	1.82	190.66	202.43	0.48	94.44
Reach 1	26363	1_BU				1.62	363.60	382.60	385.37		385.56	0.002332	2.00	225.77	245.58	0.50	92.33
Reach 1	26363	0p5_BU				1.67	389.40	382.60	385.42		385.62	0.002360	2.06	239.76	274.51	0.51	91.54
Reach 1	26363	0p5-CC-LC_BU				1.96	545.10	382.60	385.71	385.21	385.96	0.002461	2.34	338.42	392.23	0.53	87.27
Reach 1	26186	5_BU				1.27	290.80	382.60	384.44	384.30	384.73	0.005574	2.64	138.52	200.57	0.75	78.27
Reach 1	26186	1_BU				1.41	363.60	382.60	384.59	384.50	384.91	0.005505	2.80	170.96	229.67	0.75	74.33
Reach 1	26186	0p5_BU				1.44	389.40	382.60	384.63	384.54	384.96	0.005571	2.87	180.91	240.92	0.76	73.18
Reach 1	26186	0p5-CC-LC_BU				1.63	545.10	382.60	384.85	384.79	385.25	0.006136	3.26	241.77	350.53	0.82	68.24
Reach 1	26100	5_BU				1.43	290.80	382.20	384.35	383.84	384.46	0.001786	1.61	218.76	266.59	0.43	52.59
Reach 1	26100	1_BU				1.52	363.60	382.20	384.51	383.98	384.63	0.001864	1.72	267.61	346.83	0.45	49.98
Reach 1	26100	0p5_BU				1.56	389.40	382.20	384.56	384.02	384.67	0.001897	1.76	283.50	359.97	0.45	49.12
Reach 1	26100	0p5-CC-LC_BU				1.71	545.10	382.20	384.77	384.26	384.92	0.002200	2.02	371.29	461.89	0.49	45.90
Reach 1	25969	5_BU				1.06	290.80	381.43	384.01	383.68	384.17	0.003735	1.92	182.66	270.59	0.59	72.67

HEC-RAS Plan: KR_Jam_23700 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	25969	1_BU				1.20	363.60	381.43	384.20	383.85	384.35	0.003176	1.92	246.10	413.33	0.56	68.94
Reach 1	25969	0p5_BU				1.24	389.40	381.43	384.25	383.95	384.40	0.003146	1.95	265.48	441.43	0.56	68.06
Reach 1	25969	0p5-CC-LC_BU				1.47	545.10	381.43	384.49	384.16	384.64	0.002697	2.02	384.15	524.79	0.53	60.45
Reach 1	25849	5_BU				1.47	290.80	380.61	383.23	383.14	383.66	0.006019	3.02	109.86	115.36	0.80	89.78
Reach 1	25849	1_BU				1.57	363.60	380.61	383.44	383.39	383.89	0.006061	3.17	139.01	160.46	0.81	86.22
Reach 1	25849	0p5_BU				1.60	389.40	380.61	383.51	383.49	383.95	0.005892	3.17	150.86	171.65	0.80	84.19
Reach 1	25849	0p5-CC-LC_BU				1.75	545.10	380.61	383.82	383.80	384.27	0.005631	3.28	215.94	256.78	0.79	75.28
Reach 1	25750	5_BU				1.69	290.80	379.67	383.14	382.59	383.29	0.001814	1.88	206.41	217.13	0.46	82.12
Reach 1	25750	1_BU				1.76	363.60	379.67	383.38	382.79	383.53	0.001688	1.90	269.17	308.40	0.46	76.52
Reach 1	25750	0p5_BU				1.81	389.40	379.67	383.46	382.84	383.60	0.001660	1.91	294.01	354.52	0.45	74.93
Reach 1	25750	0p5-CC-LC_BU				2.13	545.10	379.67	383.82	383.09	383.96	0.001439	1.94	461.43	548.51	0.43	65.46
Reach 1	25700	5_BU				2.05	290.80	379.24	382.87	382.01	383.17	0.002651	2.48	134.04	144.83	0.55	95.52
Reach 1	25700	1_BU				2.17	363.60	379.24	383.08	382.34	383.41	0.002805	2.65	168.07	179.24	0.57	90.41
Reach 1	25700	0p5_BU				2.23	389.40	379.24	383.14	382.55	383.48	0.002805	2.70	180.50	192.69	0.58	88.68
Reach 1	25700	0p5-CC-LC_BU				2.54	545.10	379.24	383.47	383.26	383.83	0.002829	2.95	255.77	273.79	0.59	79.31
Reach 1	25650	5_BU				2.28	290.80	379.37	382.86	381.72	383.04	0.001413	1.95	185.66	212.46	0.41	89.63
Reach 1	25650	1_BU				2.38	363.60	379.37	383.09	381.99	383.27	0.001442	2.03	243.13	288.47	0.42	82.21
Reach 1	25650	0p5_BU				2.35	389.40	379.37	383.17	382.10	383.34	0.001448	2.02	266.61	305.08	0.42	79.02
Reach 1	25650	0p5-CC-LC_BU				2.65	545.10	379.37	383.54	382.97	383.70	0.001275	2.05	387.60	355.28	0.40	66.51
Reach 1	25600	5_BU				2.16	290.80	379.47	382.77	381.76	382.96	0.001711	2.07	169.33	163.22	0.45	89.18
Reach 1	25600	1_BU				2.20	363.60	379.47	382.98	382.19	383.19	0.001901	2.21	207.54	202.25	0.48	83.86
Reach 1	25600	0p5_BU				2.24	389.40	379.47	383.05	382.32	383.27	0.001913	2.25	222.03	219.97	0.48	82.15
Reach 1	25600	0p5-CC-LC_BU				2.55	545.10	379.47	383.38	382.89	383.63	0.001944	2.47	311.33	310.93	0.49	74.11
Reach 1	25550	5_BU				1.77	290.80	379.57	382.79	382.08	382.87	0.001097	1.46	308.82	343.92	0.35	68.93
Reach 1	25550	1_BU				2.00	363.60	379.57	383.02	382.32	383.10	0.000956	1.48	392.73	387.41	0.33	63.10
Reach 1	25550	0p5_BU				2.08	389.40	379.57	383.10	382.46	383.17	0.000916	1.49	421.98	399.11	0.33	61.30
Reach 1	25550	0p5-CC-LC_BU				2.43	545.10	379.57	383.45	382.64	383.53	0.000855	1.59	574.01	468.08	0.33	54.89
Reach 1	25500	5_BU				1.88	290.80	379.67	382.66	381.71	382.81	0.001483	1.77	182.07	140.82	0.41	89.57
Reach 1	25500	1_BU				2.06	363.60	379.67	382.86	382.05	383.03	0.001562	1.93	212.25	153.64	0.43	86.79
Reach 1	25500	0p5_BU				2.12	389.40	379.67	382.93	382.16	383.11	0.001583	1.98	222.50	158.12	0.43	85.85
Reach 1	25500	0p5-CC-LC_BU				2.41	545.10	379.67	383.21	382.51	383.46	0.001904	2.36	275.18	202.55	0.49	82.83
Reach 1	25458	5_BU				1.36	290.80	379.86	382.51	382.17	382.70	0.003186	2.08	154.61	142.41	0.57	76.92
Reach 1	25458	1_BU				1.45	363.60	379.86	382.73	382.32	382.93	0.003021	2.11	188.55	174.64	0.56	73.08
Reach 1	25458	0p5_BU				1.51	389.40	379.86	382.80	382.37	383.01	0.002968	2.15	201.47	193.65	0.56	72.78
Reach 1	25458	0p5-CC-LC_BU				1.77	545.10	379.86	383.11	382.63	383.34	0.002885	2.35	270.18	251.21	0.56	68.52
Reach 1	25400	5_BU				1.74	290.80	379.62	382.37	381.85	382.55	0.002144	2.02	164.02	129.24	0.49	72.85
Reach 1	25400	1_BU				1.79	363.60	379.62	382.58	382.02	382.78	0.002366	2.15	192.35	156.88	0.51	69.86
Reach 1	25400	0p5_BU				1.79	389.40	379.62	382.64	382.09	382.85	0.002463	2.20	203.22	183.35	0.53	68.96
Reach 1	25400	0p5-CC-LC_BU				2.01	545.10	379.62	382.95	382.38	383.19	0.002575	2.44	272.75	280.13	0.55	64.29
Reach 1	25350	5_BU				1.78	290.80	379.52	382.29	381.57	382.42	0.001524	1.73	198.05	164.75	0.41	72.30
Reach 1	25350	1_BU				1.94	363.60	379.52	382.48	381.75	382.63	0.001601	1.87	235.31	221.51	0.43	69.67
Reach 1	25350	0p5_BU				2.00	389.40	379.52	382.54	381.82	382.70	0.001636	1.93	248.44	230.00	0.44	69.06
Reach 1	25350	0p5-CC-LC_BU				2.30	545.10	379.52	382.85	382.18	383.03	0.001680	2.15	323.35	265.32	0.45	63.27
Reach 1	25300	5_BU				1.16	290.80	379.41	382.22	381.37	382.30	0.001488	1.27	233.06	210.29	0.38	99.53
Reach 1	25300	1_BU				1.19	363.60	379.41	382.42	381.53	382.51	0.001610	1.34	276.88	242.84	0.39	99.25
Reach 1	25300	0p5_BU				1.22	389.40	379.41	382.47	381.58	382.57	0.001620	1.37	291.41	249.48	0.39	99.17
Reach 1	25300	0p5-CC-LC_BU				1.49	545.10	379.41	382.78	381.83	382.90	0.001533	1.51	371.04	266.15	0.40	98.83
Reach 1	25250	5_BU				1.31	290.80	379.31	382.18	381.24	382.24	0.000915	1.07	275.67	226.13	0.30	99.43
Reach 1	25250	1_BU				1.50	363.60	379.31	382.37	381.45	382.44	0.000904	1.17	319.55	233.56	0.30	99.21
Reach 1	25250	0p5_BU				1.56	389.40	379.31	382.43	381.51	382.50	0.000912	1.20	333.17	237.40	0.31	99.10
Reach 1	25250	0p5-CC-LC_BU				1.86	545.10	379.31	382.73	381.75	382.83	0.000976	1.40	406.20	264.82	0.33	98.52
Reach 1	25169	5_BU				1.35	290.80	379.70	382.06	381.15	382.15	0.001285	1.31	229.81	191.95	0.36	98.19
Reach 1	25169	1_BU				1.53	363.60	379.70	382.25	381.33	382.35	0.001319	1.44	266.90	215.18	0.37	98.00
Reach 1	25169	0p5_BU				1.58	389.40	379.70	382.30	381.38	382.41	0.001342	1.48	278.74	220.02	0.38	97.82
Reach 1	25169	0p5-CC-LC_BU				1.86	545.10	379.70	382.58	381.73	382.73	0.001506	1.75	344.85	254.81	0.41	96.92
Reach 1	25100	5_BU				1.67	290.80	378.81	382.00	381.04	382.08	0.000829	1.20	251.92	241.33	0.30	97.05
Reach 1	25100	1_BU				1.85	363.60	378.81	382.18	381.19	382.27	0.000925	1.36	281.53	266.15	0.32	96.91
Reach 1	25100	0p5_BU				1.90	389.40	378.81	382.23	381.23	382.33	0.000967	1.42	290.80	278.33	0.33	96.84
Reach 1	25100	0p5-CC-LC_BU				2.16	545.10	378.81	382.49	381.46	382.64	0.001219	1.73	348.41	362.25	0.38	96.08
Reach 1	24950	5_BU				1.95	290.80	378.16	381.94	380.71	381.98	0.000435	0.98	361.79	325.30	0.22	89.91
Reach 1	24950	1_BU				2.13	363.60	378.16	382.11	380.85	382.17	0.000493	1.10	421.04	366.75	0.24	88.18
Reach 1	24950	0p5_BU				2.18	389.40	378.16	382.16	380.89	382.22	0.000517	1.15	439.62	389.92	0.25	87.64
Reach 1	24950	0p5-CC-LC_BU				2.42	545.10	378.16	382.41	381.14	382.50	0.000666	1.40	552.39	541.83	0.29	85.00
Reach 1	24800	5_BU	381.51	0.40	381.91	2.53	290.80	377.37	381.88	380.17	381.91	0.000610	0.86	422.45	347.59	0.17	85.66
Reach 1	24800	1_BU	381.68	0.40	382.08	2.70	363.60	377.37	382.05	380.33	382.09	0.000722	0.97	485.62	409.27	0.19	82.83
Reach 1	24800	0p5_BU	381.73	0.40	382.13	2.75	389.40	377.37	382.09	380.38	382.14	0.000763	1.01	505.34	440.87	0.19	81.84
Reach 1	24800	0p5-CC-LC_BU	381.96	0.40	382.36	2.98	545.10	377.37	382.32	380.66	382.39	0.001018	1.23	625.85	593.28	0.23	77.25
Reach 1	24693	5_BU	378.95	2.97	381.92	0.76	290.80	377.15	381.67	381.41	381.81	0.014516	1.18	183.25	304.01	0.43	13.70
Reach 1	24693	1_BU	378.78	3.33	382.11	0.71	363.60	377.15	381.83	381.63	381.97	0.015599	1.17	221.35	362.92	0.44	8.59
Reach 1	24693	0p5_BU	378.72	3.44	382.16	0.69	389.40	377.15	381.87	381.68	382.02	0.015559	1.14	233.12	377.78	0.44	7.19
Reach 1	24693	0p5-CC-LC_BU	378.38	4.04	382.42	0.51	545.10	377.15	382.08	381.89	382.25	0.015283	0.93	305.16	471.73	0.41	2.39
Reach 1	24600	5_BU	379.10	2.55	381.64	2.13	290.80	376.10	381.43	380.42	381.49	0.002746	1.03	315.60	384.50	0.22	51.85
Reach 1	24600	1_BU	379.20	2.60	381.80	2.21	363.60	376.10	381.58	380.59	381.65	0.003021	1.10	373.48	440.46	0.24	46.57
Reach 1	24600	0p5_BU	379.23	2.61	381.84	2.24	389.40	376.10	381.62	380.64	381.70	0.003090	1.12	392.83	456.24	0.24	45.07
Reach 1	24600	0p5-CC-LC_BU	379.54	2.52	382.06	2.49	545.10	376.10	381.85	380.87	381.94	0.003307	1.25	511.38	539.51	0.25	40.67
Reach 1	24500	5_BU	378.87	2.60	381.48	1.78	290.80	375.69	381.26	380.44	381.30	0.002902	0.94	338.17	447.37	0.22	37.45
Reach 1	24500	1_BU	378.93	2.71	381.63	1.82	363.60	375.69	381.40	380.71	381.45	0.003145	0.99	399.69	476.11	0.23	32.60
Reach 1	24500	0p5_BU	378.95	2.73	381.68	1.84	389.40	375.69	381.45	380.76	381.50	0.003161	1.00	420.90	484.46	0.24	31.27
Reach 1	24500	0p5-CC-LC_BU	379.11	2.81	381.92	1.97	545.10	375.69	381.68	380.99	381.74	0.003378	1.08	536.13	583.86	0.25	26.20
Reach 1	24400	5_BU	378.64	2.61	381.26	1.75	290.80	375.71	381.04	380.56	381.11	0.003080	1.53	295.97	396.52	0.37	49.04
Reach 1	24400	1_BU	378.68	2.73	381.41	1.78	363.60	375.71	381.18	380.73	381.26	0.003348	1.61	349.02	423.09	0.39	42.12
Reach 1	24400	0p5_BU	378.70	2.76	381.46	1.79	389.40	375.71	381.23	380.78	381.31	0.003423	1.64	367.97	437.16	0.39	40.44
Reach 1	24400	0p5-CC-LC_BU	378.78	2.92	381.70	1.86	545.10	375.71	381.45	380.98	381.54	0.003887	1.79	469.77	545.13	0.42	32.99
Reach 1	24350	5_BU	378.49	2.68	381.17	1.77	290.80	375.54	380.95	380.31	381.00	0.002503	1.33	332.00	439.43	0.32	45.69
Reach 1	24350	1_BU	378.51	2.81	381.32	1.78	363.60	375.54	381.08	380.53	381.14	0.002859	1.43	388.78	497.06	0.34	39.39
Reach 1	24350	0p5_BU	378.51	2.86	381.36	1.78	389.40	375.54	381.12	380.57	381.19	0.003071	1.48	407.77	524.72	0.35	38.16
Reach 1	24350	0p5-CC-LC_BU	378.54	3.05	381.59	1.81	545.10	375.54	381.34	380.80	381.41	0.003602	1.62	519.91	617.64	0.38	30.43
Reach 1	24300	5_BU	378.45	2.63	381.08	1.62	290.80	375.93	380.86	380.27	380.90	0.003805	1.00	342.95	501.86	0.25	36.27
Reach 1	24300	1_BU	378.46	2.77	381.22	1.62	363.60	375.93	380.99	380.44	381.04	0.003955	1.03	405.63	549.04	0.26	29.79
Reach 1	24300	0p5_BU	378.45	2.82	381.27	1.62	389.40	375.93	381.03	380.48	381.08	0.004032	1.03	424.38	556.67	0.26	27.91
Reach 1	24300	0p5-CC-LC_BU	378.47	3.02	381.49	1.64	545.10	375.93	381.24	380.66	381.30	0.004365	1.09	534.68	624.72	0.27	21.23
Reach 1	24250	5_BU	378.43	2.54	380.98	1.61	290.80	376.30	380.76	380.06	380.79	0.002310	0.78	403.19	555.33	0.20	31.87
Reach 1	24250	1_BU	378.44	2.68	381.12	1.62	363.60	376.30	380.89	380.20	380.93	0.002537	0.82	468.12	579.21	0.21	26.93
Reach 1	24250	0p5_BU	378.44	2.72	381.16	1.61	389.40	376.30	380.93	380.26	380.97	0.002624	0.83	486.92	582.54	0.21	25.48
Reach 1	24250	0p5-CC-LC_BU	378.45	2.92	381.38	1.63	545.10	376.30	381.13	380.50	381.18	0.003049	0.90	591.67	601.52	0.23	19.95
Reach 1	24200	5_BU	378.33	2.55	380.88	1.29	290.80	376.73	380.67	380.09	380.70	0.003451	0.82	356.63	529.41	0.23	29.68
Reach 1	24200	1_BU	378.30	2.71	381.01	1.26	363.60	376.73	380.79	380.28	380.83	0.004207	0.90	409.98	562.12	0.25	25.28
Reach 1	24200	0p5_BU	378.30	2.75	381.05	1.27	389.40	376.73	380.82	380.33	380.86	0.004296	0.91	427.38	564.55	0.26	23.91

HEC-RAS Plan: KR_Jam_23700 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	24200	0p5-CC-LC_BU	378.31	2.95	381.26	1.27	545.10	376.73	381.01	380.50	381.07	0.004765	0.96	520.53	587.40	0.27	18.10
Reach 1	24150	5_BU	378.15	2.61	380.76	1.03	290.80	376.70	380.55	380.17	380.59	0.004725	0.83	315.46	558.09	0.26	23.83
Reach 1	24150	1_BU	378.07	2.81	380.88	0.96	363.60	376.70	380.65	380.31	380.70	0.005466	0.85	356.97	583.68	0.28	18.01
Reach 1	24150	0p5_BU	378.08	2.85	380.92	0.96	389.40	376.70	380.68	380.34	380.74	0.005548	0.86	374.60	589.64	0.28	17.05
Reach 1	24150	0p5-CC-LC_BU	378.10	3.03	381.12	0.98	545.10	376.70	380.87	380.50	380.94	0.005764	0.89	471.15	617.60	0.29	12.83
Reach 1	24100	5_BU	377.97	2.68	380.64	1.01	290.80	376.59	380.42	380.09	380.46	0.004270	0.78	306.19	531.55	0.25	21.05
Reach 1	24100	1_BU	377.79	2.94	380.73	0.85	363.60	376.59	380.48	380.22	380.55	0.005900	0.81	322.89	551.86	0.28	14.47
Reach 1	24100	0p5_BU	377.79	2.98	380.77	0.85	389.40	376.59	380.52	380.25	380.59	0.005934	0.82	339.70	561.16	0.28	13.72
Reach 1	24100	0p5-CC-LC_BU	377.86	3.11	380.97	0.92	545.10	376.59	380.71	380.39	380.79	0.005995	0.86	442.34	626.20	0.29	11.16
Reach 1	24050	5_BU	377.86	2.69	380.55	1.05	290.80	376.51	380.32	379.97	380.37	0.004742	0.84	299.31	559.19	0.26	23.59
Reach 1	24050	1_BU	377.59	3.00	380.59	0.81	363.60	376.51	380.33	380.12	380.43	0.008529	0.95	283.48	564.98	0.34	15.78
Reach 1	24050	0p5_BU	377.60	3.03	380.63	0.81	389.40	376.51	380.37	380.15	380.47	0.008407	0.95	300.40	582.50	0.34	14.93
Reach 1	24050	0p5-CC-LC_BU	377.73	3.11	380.84	0.94	545.10	376.51	380.58	380.29	380.68	0.007635	0.99	405.01	644.48	0.33	12.98
Reach 1	24000	5_BU	377.46	2.85	380.31	0.77	290.80	376.41	380.07	379.72	380.13	0.005194	0.72	275.32	510.52	0.26	14.70
Reach 1	24000	1_BU	377.40	2.99	380.40	0.72	363.60	376.41	380.14	379.83	380.18	0.002855	0.51	426.80	526.51	0.19	7.71
Reach 1	24000	0p5_BU	377.36	3.06	380.42	0.68	389.40	376.41	380.16	379.86	380.21	0.003251	0.52	431.82	527.85	0.20	6.96
Reach 1	24000	0p5-CC-LC_BU	377.54	3.11	380.65	0.85	545.10	376.41	380.39	380.02	380.44	0.003084	0.59	550.08	565.23	0.20	7.11
Reach 1	23950	5_BU	377.02	3.08	380.09	0.33	290.80	376.45	379.84	379.56	379.87	0.002424	0.28	359.23	474.38	0.15	2.44
Reach 1	23950	1_BU	377.22	3.00	380.22	0.52	363.60	376.45	379.97	379.65	380.01	0.002372	0.37	430.05	506.88	0.17	4.33
Reach 1	23950	0p5_BU	377.06	3.15	380.21	0.37	389.40	376.45	379.94	379.65	379.99	0.003058	0.34	406.14	493.86	0.18	2.53
Reach 1	23950	0p5-CC-LC_BU	377.25	3.19	380.44	0.54	545.10	376.45	380.17	379.65	380.23	0.003015	0.43	530.31	615.15	0.19	3.53
Reach 1	23900	5_BU	376.98	3.00	379.98	0.32	290.80	376.38	379.73	379.32	379.76	0.001794	0.24	401.81	482.26	0.13	2.17
Reach 1	23900	1_BU	377.21	2.89	380.11	0.54	363.60	376.38	379.86	379.45	379.89	0.001819	0.34	479.58	565.35	0.15	4.29
Reach 1	23900	0p5_BU	376.94	3.12	380.05	0.28	389.40	376.38	379.79	379.46	379.84	0.002709	0.26	423.81	510.83	0.16	1.57
Reach 1	23900	0p5-CC-LC_BU	377.10	3.19	380.29	0.43	545.10	376.38	380.02	379.68	380.07	0.002774	0.36	554.34	663.05	0.17	2.41
Reach 1	23850	5_BU	377.05	2.80	379.85	0.36	290.80	376.45	379.62	379.30	379.65	0.001716	0.25	403.42	503.81	0.13	2.95
Reach 1	23850	1_BU	377.22	2.76	379.98	0.53	363.60	376.45	379.75	379.44	379.78	0.001733	0.32	479.65	622.97	0.14	4.46
Reach 1	23850	0p5_BU	376.81	3.03	379.83	0.19	389.40	376.45	379.58	379.47	379.64	0.003594	0.23	365.39	463.55	0.17	0.73
Reach 1	23850	0p5-CC-LC_BU	376.87	3.21	380.07	0.18	545.10	376.45	379.80	379.60	379.87	0.003612	0.23	475.42	707.30	0.17	0.71
Reach 1	23800	5_BU	376.73	2.82	379.55	0.18	290.80	376.34	379.32	378.99	379.43	0.005835	0.29	200.59	515.39	0.22	0.99
Reach 1	23800	1_BU	376.81	2.88	379.70	0.23	363.60	376.34	379.46	379.15	379.57	0.005625	0.33	254.84	624.93	0.22	1.37
Reach 1	23800	0p5_BU	376.68	2.92	379.60	0.15	389.40	376.34	379.35	379.20	379.41	0.003487	0.20	368.87	533.11	0.16	0.36
Reach 1	23800	0p5-CC-LC_BU	376.71	3.14	379.85	0.17	545.10	376.34	379.59	379.39	379.65	0.003249	0.21	506.13	761.13	0.16	0.34
Reach 1	23750	5_BU	376.90	1.97	378.88	0.23	290.80	376.43	378.71	378.34	378.80	0.005184	0.52	229.72	364.86	0.34	2.70
Reach 1	23750	1_BU	376.92	2.12	379.03	0.24	363.60	376.43	378.86	378.44	378.95	0.005147	0.52	276.57	402.12	0.34	2.31
Reach 1	23750	0p5_BU	376.92	2.16	379.08	0.24	389.40	376.43	378.90	378.53	378.99	0.005134	0.52	291.15	408.74	0.34	2.19
Reach 1	23750	0p5-CC-LC_BU	376.94	2.39	379.32	0.25	545.10	376.43	379.12	378.72	379.24	0.005124	0.54	376.70	506.76	0.35	1.73
Reach 1	23700	5_BU	377.05	1.26	378.32	0.28	290.80	376.64	378.21	377.67	378.30	0.005653	0.61	234.61	405.49	0.37	3.25
Reach 1	23700	1_BU	377.07	1.39	378.46	0.28	363.60	376.64	378.34	377.97	378.44	0.005639	0.62	286.73	497.73	0.37	2.74
Reach 1	23700	0p5_BU	377.07	1.43	378.50	0.29	389.40	376.64	378.38	377.99	378.48	0.005596	0.62	305.31	518.27	0.37	2.59
Reach 1	23700	0p5-CC-LC_BU	377.09	1.67	378.75	0.30	545.10	376.64	378.61	378.26	378.71	0.004949	0.60	421.42	587.44	0.35	1.91
Reach 1	23650	5_BU	377.53	0.40	377.93	0.73	290.80	376.40	377.89	377.61	377.96	0.004980	1.08	248.60	388.35	0.40	36.90
Reach 1	23650	1_BU	377.67	0.40	378.07	0.88	363.60	376.40	378.04	377.69	378.11	0.004586	1.17	309.55	440.97	0.40	38.29
Reach 1	23650	0p5_BU	377.72	0.40	378.12	0.92	389.40	376.40	378.09	377.72	378.16	0.004423	1.18	331.04	465.23	0.39	38.27
Reach 1	23650	0p5-CC-LC_BU	377.99	0.40	378.39	1.13	545.10	376.40	378.35	377.85	378.42	0.003913	1.27	471.97	594.75	0.38	37.73
Reach 1	23600	5_BU	377.35	0.40	377.75	0.77	290.80	375.86	377.72	377.29	377.77	0.003002	1.07	284.82	380.68	0.39	39.06
Reach 1	23600	1_BU	377.51	0.40	377.91	0.91	363.60	375.86	377.88	377.39	377.94	0.002674	1.14	351.17	426.71	0.38	40.24
Reach 1	23600	0p5_BU	377.57	0.40	377.97	0.96	389.40	375.86	377.93	377.41	377.99	0.002611	1.16	373.42	436.93	0.38	40.57
Reach 1	23600	0p5-CC-LC_BU	377.85	0.40	378.25	1.21	545.10	375.86	378.21	377.56	378.28	0.002280	1.27	505.61	515.70	0.37	40.98
Reach 1	23550	5_BU	377.18	0.40	377.58	0.75	290.80	375.45	377.55	377.30	377.63	0.003670	1.16	235.57	352.29	0.43	43.59
Reach 1	23550	1_BU	377.38	0.40	377.78	0.94	363.60	375.45	377.75	377.38	377.82	0.002963	1.22	308.73	395.11	0.40	46.14
Reach 1	23550	0p5_BU	377.44	0.40	377.84	0.99	389.40	375.45	377.80	377.41	377.87	0.002831	1.24	331.60	406.59	0.40	46.41
Reach 1	23550	0p5-CC-LC_BU	377.74	0.40	378.14	1.28	545.10	375.45	378.10	377.54	378.18	0.002367	1.34	466.21	500.54	0.38	46.74
Reach 1	23500	5_BU	376.94	0.40	377.34	0.82	290.80	375.07	377.31	376.94	377.43	0.004644	1.13	203.70	248.06	0.40	41.82
Reach 1	23500	1_BU	377.20	0.40	377.60	0.97	363.60	375.07	377.57	377.07	377.66	0.003534	1.10	283.11	345.49	0.36	43.75
Reach 1	23500	0p5_BU	377.27	0.40	377.67	1.03	389.40	375.07	377.64	377.12	377.72	0.003319	1.11	307.66	357.92	0.35	44.22
Reach 1	23500	0p5-CC-LC_BU	377.61	0.40	378.01	1.31	545.10	375.07	377.97	377.38	378.05	0.002783	1.18	438.93	443.18	0.33	45.00
Reach 1	23450	5_BU				1.17	290.80	375.14	377.26	376.42	377.32	0.001048	1.11	285.69	265.50	0.33	72.80
Reach 1	23450	1_BU				1.33	363.60	375.14	377.52	376.54	377.57	0.000933	1.13	359.74	316.14	0.31	72.67
Reach 1	23450	0p5_BU				1.38	389.40	375.14	377.58	376.57	377.64	0.000929	1.16	381.57	331.28	0.31	72.77
Reach 1	23450	0p5-CC-LC_BU				1.47	545.10	375.14	377.91	376.80	377.97	0.001052	1.24	505.98	451.06	0.33	70.01
Reach 1	23400	5_BU				1.23	290.80	375.03	377.21	376.39	377.27	0.000989	1.12	281.06	236.58	0.32	71.29
Reach 1	23400	1_BU				1.31	363.60	375.03	377.47	376.50	377.53	0.000962	1.12	347.35	283.55	0.31	70.00
Reach 1	23400	0p5_BU				1.36	389.40	375.03	377.54	376.53	377.60	0.000952	1.15	366.73	291.92	0.31	70.12
Reach 1	23400	0p5-CC-LC_BU				1.49	545.10	375.03	377.85	376.74	377.92	0.001087	1.28	466.33	368.07	0.33	69.07
Reach 1	23300	5_BU				1.32	290.80	374.20	377.06	376.25	377.16	0.001496	1.40	226.97	196.95	0.39	90.18
Reach 1	23300	1_BU				1.17	363.60	374.20	377.33	376.40	377.41	0.001676	1.37	289.93	277.45	0.40	87.64
Reach 1	23300	0p5_BU				1.21	389.40	374.20	377.40	376.45	377.48	0.001615	1.37	310.26	289.05	0.40	87.39
Reach 1	23300	0p5-CC-LC_BU				1.41	545.10	374.20	377.70	376.71	377.80	0.001624	1.52	403.73	343.56	0.41	86.74
Reach 1	23200	5_BU				1.15	290.80	374.25	376.72	376.38	376.92	0.003629	2.01	150.64	143.99	0.60	94.78
Reach 1	23200	1_BU				1.18	363.60	374.25	376.97	376.53	377.17	0.003575	2.02	188.78	178.35	0.59	93.43
Reach 1	23200	0p5_BU				1.12	389.40	374.25	377.04	376.57	377.24	0.003783	2.01	202.83	198.09	0.61	92.66
Reach 1	23200	0p5-CC-LC_BU				1.23	545.10	374.25	377.32	376.86	377.55	0.003921	2.17	265.29	256.30	0.63	91.26
Reach 1	23016	5_BU				1.26	290.80	373.81	376.26		376.39	0.002152	1.63	198.73	222.39	0.46	84.28
Reach 1	23016	1_BU				1.22	363.60	373.81	376.48		376.60	0.002346	1.67	249.67	291.08	0.48	81.90
Reach 1	23016	0p5_BU				1.24	389.40	373.81	376.54		376.66	0.002319	1.67	266.09	307.22	0.48	80.69
Reach 1	23016	0p5-CC-LC_BU				1.43	545.10	373.81	376.85		376.99	0.002114	1.76	356.72	345.38	0.47	76.40
Reach 1	22900	5_BU				1.10	290.80	373.42	375.67		375.97	0.006033	2.49	123.78	154.32	0.76	94.80
Reach 1	22900	1_BU				1.28	363.60	373.42	375.92		376.21	0.004694	2.43	163.09	199.11	0.69	92.00
Reach 1	22900	0p5_BU				1.35	389.40	373.42	376.00		376.28	0.004366	2.43	176.86	213.80	0.67	90.99
Reach 1	22900	0p5-CC-LC_BU				1.32	545.10	373.42	376.37		376.63	0.004288	2.37	266.02	335.41	0.66	83.72
Reach 1	22750	5_BU				1.31	290.80	372.99	375.22		375.38	0.002450	1.78	163.49	126.86	0.50	100.00
Reach 1	22750	1_BU				1.21	363.60	372.99	375.46		375.63	0.002868	1.83	198.58	172.22	0.53	99.99
Reach 1	22750	0p5_BU				1.17	389.40	372.99	375.55		375.72	0.002982	1.83	213.24	192.08	0.54	99.98
Reach 1	22750	0p5-CC-LC_BU				1.20	545.10	372.99	375.92		376.09	0.002921	1.84	299.14	284.67	0.54	99.31
Reach 1	22584	5_BU				1.37	290.80	372.69	374.84		374.99	0.002172	1.73	168.93	131.58	0.47	99.94
Reach 1	22584	1_BU				1.58	363.60	372.69	375.06		375.23	0.002070	1.86	198.65	149.09	0.47	99.65
Reach 1	22584	0p5_BU				1.65	389.40	372.69	375.12		375.31	0.002056	1.91	209.51	173.56	0.47	99.47
Reach 1	22584	0p5-CC-LC_BU				2.00	545.10	372.69	375.48		375.70	0.001967	2.12	288.44	284.11	0.48	95.88
Reach 1	22500	5_BU				1.54	290.80	372.35	374.65		374.82	0.002012	1.80	168.51	128.37	0.46	98.09
Reach 1	22500	1_BU				1.63	363.60	372.35	374.87		375.06	0.002087	1.95	198.45	151.08	0.49	97.15
Reach 1	22500	0p5_BU				1.68	389.40	372.35	374.93		375.13	0.002093	2.00	208.89	158.67	0.49	96.97
Reach 1	22500	0p5-CC-LC_BU				2.01	545.10	372.35	375.27		375.52	0.002177	2.27	266.76	236.70	0.51	94.50
Reach 1	22400	5_BU				1.60	290.80	372.16	374.45		374.62	0.001956	1.84	159.96	109.70	0.46	98.21
Reach 1	22400	1_BU				1.78	363.60	372.16	374.64		374.85	0.002064	2.03	181.74	134.44	0.49	97.21
Reach 1	22400	0p5_BU				1.83	389.40	372.16	374.70		374.92	0.002102	2.09	189.33	139.15	0.49	96.82
Reach 1	22400	0p5-CC-LC_BU				2.12	545.10	372.16	375.02		375.29	0.002234	2.39	247.67	327.51	0.52	92.89

HEC-RAS Plan: KR_Jam_23700 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	22300	5_BU				1.39	290.80	371.96	374.08		374.35	0.003512	2.29	130.66	118.86	0.62	98.51
Reach 1	22300	1_BU				1.49	363.60	371.96	374.23		374.56	0.003870	2.55	150.16	140.76	0.67	97.21
Reach 1	22300	0p5_BU				1.53	389.40	371.96	374.28		374.62	0.003991	2.64	156.95	150.69	0.68	96.69
Reach 1	22300	0p5-CC-LC_BU				1.73	545.10	371.96	374.50	374.36	374.96	0.004706	3.10	196.71	213.04	0.75	93.00
Reach 1	22200	5_BU				1.32	290.80	371.77	373.91		374.04	0.002049	1.67	179.57	183.13	0.46	93.08
Reach 1	22200	1_BU				1.47	363.60	371.77	374.07		374.22	0.002077	1.80	212.09	217.42	0.47	90.09
Reach 1	22200	0p5_BU				1.53	389.40	371.77	374.12		374.28	0.002057	1.83	224.26	231.27	0.47	88.80
Reach 1	22200	0p5-CC-LC_BU				1.79	545.10	371.77	374.38		374.57	0.002019	2.01	296.98	324.53	0.48	81.43
Reach 1	22094	5_BU				1.06	310.30	371.63	373.58		373.75	0.003438	1.84	170.44	201.19	0.57	92.48
Reach 1	22094	1_BU				1.18	389.90	371.63	373.74		373.93	0.003274	1.92	207.80	253.50	0.57	89.39
Reach 1	22094	0p5_BU				1.21	418.50	371.63	373.80		373.99	0.003208	1.95	223.01	266.72	0.56	88.57
Reach 1	22094	0p5-CC-LC_BU				1.29	586.00	371.63	374.08		374.27	0.003085	1.99	305.59	361.49	0.56	80.32
Reach 1	22050	5_BU				0.97	310.30	371.32	373.41		373.58	0.004083	1.89	178.03	217.83	0.61	94.94
Reach 1	22050	1_BU				1.05	389.90	371.32	373.56		373.76	0.004239	2.03	215.09	274.47	0.63	94.47
Reach 1	22050	0p5_BU				1.06	418.50	371.32	373.62		373.83	0.004262	2.04	232.59	299.37	0.63	93.82
Reach 1	22050	0p5-CC-LC_BU				1.11	586.00	371.32	373.87		374.10	0.004632	2.21	316.69	382.68	0.67	91.25
Reach 1	21950	5_BU				0.85	310.30	370.75	372.91		373.10	0.005049	1.92	160.03	239.44	0.67	85.97
Reach 1	21950	1_BU				0.88	389.90	370.75	373.07		373.27	0.005012	1.96	199.41	288.74	0.67	84.72
Reach 1	21950	0p5_BU				0.89	418.50	370.75	373.13		373.32	0.005164	2.00	213.65	309.83	0.68	85.49
Reach 1	21950	0p5-CC-LC_BU				0.96	586.00	370.75	373.39		373.59	0.004627	1.99	301.48	440.28	0.65	81.19
Reach 1	21825	5_BU				0.84	310.30	370.87	372.60		372.72	0.002103	1.23	221.53	313.03	0.43	63.66
Reach 1	21825	1_BU				0.98	389.90	370.87	372.83		372.92	0.001731	1.24	299.33	413.95	0.40	65.74
Reach 1	21825	0p5_BU				1.03	418.50	370.87	372.90		372.98	0.001616	1.24	325.68	444.97	0.39	65.14
Reach 1	21825	0p5-CC-LC_BU				1.13	586.00	370.87	373.22		373.29	0.001320	1.19	499.06	744.61	0.36	60.26
Reach 1	21700	5_BU				1.29	310.30	369.78	372.29		372.44	0.002466	1.78	191.38	187.43	0.50	95.91
Reach 1	21700	1_BU				1.41	389.90	369.78	372.49		372.67	0.002523	1.90	234.40	283.52	0.51	94.63
Reach 1	21700	0p5_BU				1.41	418.50	369.78	372.55		372.74	0.002600	1.94	251.25	322.29	0.52	94.01
Reach 1	21700	0p5-CC-LC_BU				1.56	586.00	369.78	372.86		373.07	0.002682	2.10	353.60	502.07	0.54	90.12
Reach 1	21600	5_BU				1.22	310.30	369.52	372.01		372.18	0.002828	1.84	187.19	236.34	0.53	94.09
Reach 1	21600	1_BU				1.35	389.90	369.52	372.20		372.39	0.002916	2.00	229.11	287.47	0.55	93.78
Reach 1	21600	0p5_BU				1.39	418.50	369.52	372.25		372.45	0.002958	2.05	242.70	302.43	0.55	93.14
Reach 1	21600	0p5-CC-LC_BU				1.57	586.00	369.52	372.51		372.76	0.003205	2.31	320.06	429.72	0.59	89.91
Reach 1	21530	5_BU				1.18	310.30	369.79	371.83		371.97	0.002667	1.74	219.64	303.44	0.51	88.93
Reach 1	21530	1_BU				1.36	389.90	369.79	372.04		372.18	0.002343	1.79	278.36	385.00	0.49	86.18
Reach 1	21530	0p5_BU				1.41	418.50	369.79	372.09		372.24	0.002347	1.83	294.70	401.41	0.49	85.33
Reach 1	21530	0p5-CC-LC_BU				1.64	586.00	369.79	372.34		372.53	0.002545	2.11	388.74	602.41	0.53	82.63
Reach 1	21450	5_BU				1.20	310.30	368.92	371.65		371.77	0.002301	1.62	233.46	306.20	0.47	89.18
Reach 1	21450	1_BU				1.18	389.90	368.92	371.89		372.00	0.002269	1.60	312.16	520.10	0.47	85.75
Reach 1	21450	0p5_BU				1.24	418.50	368.92	371.95		372.06	0.002193	1.62	338.16	567.84	0.46	85.18
Reach 1	21450	0p5-CC-LC_BU				1.51	586.00	368.92	372.21		372.35	0.002047	1.78	486.72	775.07	0.46	81.24
Reach 1	21319	5_BU				1.19	310.30	368.49	371.18		371.39	0.003856	2.07	164.80	194.82	0.61	95.21
Reach 1	21319	1_BU				1.19	389.90	368.49	371.39		371.61	0.004191	2.16	205.28	285.52	0.63	93.43
Reach 1	21319	0p5_BU				1.18	418.50	368.49	371.45		371.68	0.004310	2.18	220.95	319.66	0.64	92.46
Reach 1	21319	0p5-CC-LC_BU				1.26	586.00	368.49	371.71		371.97	0.004657	2.37	299.25	437.61	0.68	89.27
Reach 1	21250	5_BU				1.10	310.30	368.22	370.93		371.12	0.003850	1.99	170.72	221.85	0.61	94.84
Reach 1	21250	1_BU				1.07	389.90	368.22	371.09		371.31	0.004572	2.13	205.36	286.20	0.66	93.86
Reach 1	21250	0p5_BU				1.07	418.50	368.22	371.15		371.37	0.004632	2.15	219.32	306.44	0.66	93.11
Reach 1	21250	0p5-CC-LC_BU				1.26	586.00	368.22	371.38		371.65	0.004609	2.38	285.11	377.02	0.68	90.67
Reach 1	21200	5_BU				0.94	310.30	368.17	370.81		370.93	0.003153	1.63	216.81	298.77	0.54	89.40
Reach 1	21200	1_BU				1.05	389.90	368.17	370.97		371.11	0.003048	1.72	262.42	343.48	0.54	88.21
Reach 1	21200	0p5_BU				1.09	418.50	368.17	371.03		371.17	0.002987	1.75	280.62	362.62	0.53	87.81
Reach 1	21200	0p5-CC-LC_BU				1.31	586.00	368.17	371.29		371.45	0.002816	1.91	371.38	446.07	0.53	85.43
Reach 1	21150	5_BU				0.92	310.30	368.09	370.60		370.76	0.004098	1.82	192.21	282.37	0.61	87.70
Reach 1	21150	1_BU				1.10	389.90	368.09	370.79		370.95	0.003464	1.89	240.27	344.29	0.58	86.52
Reach 1	21150	0p5_BU				1.16	418.50	368.09	370.85		371.01	0.003315	1.92	258.68	362.75	0.57	86.37
Reach 1	21150	0p5-CC-LC_BU				1.43	586.00	368.09	371.12		371.31	0.003021	2.10	347.37	421.30	0.56	83.23
Reach 1	21100	5_BU				1.15	310.30	368.03	370.49	370.02	370.60	0.002359	1.61	226.33	262.21	0.48	79.91
Reach 1	21100	1_BU				1.21	389.90	368.03	370.68	370.16	370.80	0.002353	1.65	277.41	334.20	0.48	77.11
Reach 1	21100	0p5_BU				1.24	418.50	368.03	370.75	370.20	370.87	0.002356	1.67	297.53	362.11	0.48	76.67
Reach 1	21100	0p5-CC-LC_BU				1.48	586.00	368.03	371.03	370.43	371.17	0.002342	1.86	398.48	463.89	0.49	74.91
Reach 1	21050	5_BU				1.26	310.30	367.97	370.29		370.46	0.002929	1.90	191.00	244.56	0.54	86.30
Reach 1	21050	1_BU				1.36	389.90	367.97	370.46		370.65	0.003134	2.06	229.05	290.77	0.56	84.41
Reach 1	21050	0p5_BU				1.30	418.50	367.97	370.52		370.71	0.003356	2.07	246.08	328.46	0.58	82.77
Reach 1	21050	0p5-CC-LC_BU				1.44	586.00	367.97	370.80		371.01	0.003472	2.23	341.07	441.35	0.59	78.51
Reach 1	21000	5_BU				1.23	310.30	367.91	370.19		370.30	0.002106	1.60	242.64	292.99	0.46	81.07
Reach 1	21000	1_BU				1.37	389.90	367.91	370.35		370.48	0.002107	1.73	288.32	370.42	0.47	79.52
Reach 1	21000	0p5_BU				1.42	418.50	367.91	370.40		370.54	0.002119	1.78	305.39	399.39	0.48	78.96
Reach 1	21000	0p5-CC-LC_BU				1.66	586.00	367.91	370.66		370.83	0.002295	2.05	406.13	525.09	0.51	76.54
Reach 1	20950	5_BU				1.27	310.30	367.85	370.14		370.20	0.001320	1.29	324.70	339.35	0.37	62.22
Reach 1	20950	1_BU				1.44	389.90	367.85	370.31		370.38	0.001337	1.41	385.51	413.89	0.38	61.40
Reach 1	20950	0p5_BU				1.49	418.50	367.85	370.36		370.44	0.001392	1.47	405.84	435.02	0.39	61.79
Reach 1	20950	0p5-CC-LC_BU				1.75	586.00	367.85	370.62		370.72	0.001478	1.69	536.22	634.98	0.41	59.35
Reach 1	20892	5_BU				1.23	310.30	367.84	370.01		370.11	0.002201	1.63	264.10	329.26	0.47	66.04
Reach 1	20892	1_BU				1.38	389.90	367.84	370.19		370.29	0.002131	1.73	325.62	413.64	0.47	63.85
Reach 1	20892	0p5_BU				1.43	418.50	367.84	370.23		370.35	0.002154	1.78	346.12	442.75	0.48	63.24
Reach 1	20892	0p5-CC-LC_BU				1.64	586.00	367.84	370.48		370.62	0.002353	2.04	476.62	669.29	0.51	60.79
Reach 1	20850	5_BU				1.13	310.30	367.74	369.95		370.03	0.002144	1.52	286.16	384.64	0.46	57.10
Reach 1	20850	1_BU				1.24	389.90	367.74	370.12		370.21	0.002205	1.64	359.70	475.29	0.47	56.84
Reach 1	20850	0p5_BU				1.29	418.50	367.74	370.17		370.26	0.002203	1.68	383.36	495.73	0.47	56.45
Reach 1	20850	0p5-CC-LC_BU				1.53	586.00	367.74	370.41		370.53	0.002297	1.92	519.67	681.40	0.50	54.79
Reach 1	20800	5_BU				1.22	310.30	367.71	369.79		369.93	0.003000	1.90	211.67	295.68	0.55	67.72
Reach 1	20800	1_BU				1.36	389.90	367.71	369.94		370.10	0.003213	2.10	261.20	388.81	0.58	67.19
Reach 1	20800	0p5_BU				1.40	418.50	367.71	369.98		370.15	0.003246	2.16	279.53	423.21	0.58	66.45
Reach 1	20800	0p5-CC-LC_BU				1.63	586.00	367.71	370.21		370.42	0.003380	2.44	395.24	594.50	0.61	62.34
Reach 1	20750	5_BU				1.18	310.30	367.67	369.71		369.80	0.002367	1.64	298.34	406.09	0.48	53.49
Reach 1	20750	1_BU				1.27	389.90	367.67	369.86		369.96	0.002613	1.82	362.54	477.33	0.51	53.16
Reach 1	20750	0p5_BU				1.30	418.50	367.67	369.91		370.02	0.002620	1.85	386.02	496.13	0.52	52.37
Reach 1	20750	0p5-CC-LC_BU				1.52	586.00	367.67	370.15		370.27	0.002638	2.05	516.91	629.73	0.53	49.31
Reach 1	20700	5_BU				1.17	310.30	367.63	369.57		369.70	0.003350	1.94	247.59	384.21	0.57	59.65
Reach 1	20700	1_BU				1.26	389.90	367.63	369.72		369.86	0.003394	2.06	310.65	461.34	0.59	56.95
Reach 1	20700	0p5_BU				1.30	418.50	367.63	369.77		369.91	0.003365	2.09	333.78	473.09	0.59	56.06
Reach 1	20700	0p5-CC-LC_BU				1.56	586.00	367.63	370.03		370.18	0.003101	2.26	462.57	567.47	0.58	51.70
Reach 1	20650	5_BU				1.13	310.30	367.50	369.47		369.59	0.003096	1.83	238.08	320.70	0.55	57.86
Reach 1	20650	1_BU				1.27	389.90	367.50	369.62		369.75	0.002991	1.95	289.75	365.50	0.55	55.70
Reach 1	20650	0p5_BU				1.32	418.50	367.50	369.67		369.81	0.002981	1.99	308.13	383.88	0.55	55.21
Reach 1	20650	0p5-CC-LC_BU				1.59	586.00	367.50	369.94		370.09	0.002797	2.18	418.60	484.79	0.55	51.62
Reach 1	20600	5_BU				1.12	310.30	367.38	369.38		369.47	0.002352	1.53	250.84	285.89	0.46	67.71
Reach 1	20600	1_BU				1.25	389.90	367.38	369.53		369.64	0.002396	1.64	296.95	328.47	0.47	66.20

HEC-RAS Plan: KR_Jam_23700 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	20600	0p5_BU				1.29	418.50	367.38	369.58		369.70	0.002415	1.69	313.35	348.73	0.47	65.76
Reach 1	20600	0p5-CC-LC_BU				1.51	586.00	367.38	369.85		369.98	0.002425	1.86	420.00	504.18	0.48	62.79
Reach 1	20550	5_BU				1.14	310.30	367.25	369.20		369.34	0.003036	1.81	226.63	325.75	0.54	77.10
Reach 1	20550	1_BU				1.28	389.90	367.25	369.35		369.51	0.003049	1.97	276.23	374.52	0.55	75.12
Reach 1	20550	0p5_BU				1.33	418.50	367.25	369.40		369.56	0.003040	2.01	294.45	391.52	0.56	74.34
Reach 1	20550	0p5-CC-LC_BU				1.59	586.00	367.25	369.66		369.85	0.002903	2.22	418.04	590.28	0.56	70.06
Reach 1	20400	5_BU				0.94	310.30	366.84	368.57		368.76	0.005556	2.16	170.25	229.54	0.71	63.53
Reach 1	20400	1_BU				1.06	389.90	366.84	368.69		368.92	0.005728	2.37	201.33	261.33	0.74	63.13
Reach 1	20400	0p5_BU				1.09	418.50	366.84	368.73		368.97	0.005845	2.45	211.49	271.49	0.75	62.94
Reach 1	20400	0p5-CC-LC_BU				1.30	586.00	366.84	368.95	368.72	369.25	0.006339	2.86	284.26	409.66	0.80	63.17
Reach 1	20221	5_BU				0.91	310.30	365.65	368.04		368.09	0.001942	1.10	336.42	488.26	0.37	56.84
Reach 1	20221	1_BU				1.03	389.90	365.65	368.18		368.24	0.001936	1.18	410.32	586.86	0.37	56.33
Reach 1	20221	0p5_BU				1.07	418.50	365.65	368.23		368.29	0.001896	1.20	439.59	618.86	0.37	55.74
Reach 1	20221	0p5-CC-LC_BU				1.23	586.00	365.65	368.45		368.51	0.002045	1.33	585.41	787.15	0.38	53.24
Reach 1	19763	5_BU				0.88	310.30	364.71	366.75		366.84	0.004562	1.41	236.51	330.42	0.48	91.75
Reach 1	19763	1_BU				0.92	389.90	364.71	366.97		367.05	0.004076	1.31	327.58	505.95	0.44	87.18
Reach 1	19763	0p5_BU				0.91	418.50	364.71	367.05		367.12	0.004019	1.26	372.38	590.30	0.42	85.23
Reach 1	19763	0p5-CC-LC_BU				1.02	586.00	364.71	367.38		367.43	0.003116	1.11	600.04	814.54	0.35	75.78
Reach 1	19335	5_BU				1.35	310.30	363.23	365.56	364.87	365.66	0.001963	1.49	237.40	275.09	0.41	94.40
Reach 1	19335	1_BU				1.44	389.90	363.23	365.72	365.07	365.85	0.002265	1.62	289.65	352.69	0.43	92.01
Reach 1	19335	0p5_BU				1.48	418.50	363.23	365.78	365.11	365.91	0.002361	1.66	308.71	384.43	0.44	91.44
Reach 1	19335	0p5-CC-LC_BU				1.43	586.00	363.23	366.11	365.35	366.23	0.003271	1.64	487.32	709.56	0.44	80.73
Reach 1	19009	5_BU				0.64	310.30	362.65	364.93	364.42	364.99	0.002114	1.07	296.34	498.95	0.43	99.54
Reach 1	19009	1_BU				0.68	389.90	362.65	365.06	364.53	365.12	0.002120	1.10	366.57	606.34	0.43	99.06
Reach 1	19009	0p5_BU				0.69	418.50	362.65	365.09	364.57	365.16	0.002157	1.11	389.60	639.56	0.43	98.89
Reach 1	19009	0p5-CC-LC_BU				0.79	586.00	362.65	365.28	364.80	365.35	0.002247	1.19	523.19	793.28	0.43	97.63
Reach 1	18575	5_BU				0.63	310.30	361.28	363.68	363.15	363.73	0.004237	1.00	318.76	567.80	0.40	96.79
Reach 1	18575	1_BU				0.68	389.90	361.28	363.82	363.27	363.87	0.004058	0.98	412.11	715.80	0.38	95.68
Reach 1	18575	0p5_BU				0.70	418.50	361.28	363.87	363.31	363.92	0.003946	0.99	443.08	748.03	0.38	95.26
Reach 1	18575	0p5-CC-LC_BU				0.83	586.00	361.28	364.06	363.53	364.11	0.003706	1.05	601.50	931.18	0.37	93.44
Reach 1	18123	5_BU				1.07	310.30	360.36	362.21	361.82	362.32	0.002875	1.69	238.94	334.97	0.52	66.31
Reach 1	18123	1_BU				1.14	389.90	360.36	362.34	361.97	362.46	0.003046	1.81	287.24	396.99	0.54	63.78
Reach 1	18123	0p5_BU				1.13	418.50	360.36	362.39	362.00	362.51	0.003118	1.83	307.15	428.45	0.55	62.49
Reach 1	18123	0p5-CC-LC_BU				1.20	586.00	360.36	362.63	362.22	362.76	0.003193	1.92	442.24	660.85	0.56	58.26
Reach 1	18000	5_BU				0.99	310.30	359.91	361.94	361.48	362.01	0.002860	1.49	296.38	463.08	0.48	49.86
Reach 1	18000	1_BU				1.12	389.90	359.91	362.09	361.68	362.16	0.002638	1.55	367.14	498.75	0.47	47.49
Reach 1	18000	0p5_BU				1.15	418.50	359.91	362.14	361.71	362.21	0.002596	1.57	392.10	526.92	0.47	46.67
Reach 1	18000	0p5-CC-LC_BU				1.10	586.00	359.91	362.40	361.85	362.47	0.002556	1.52	544.36	669.25	0.46	40.46
Reach 1	17900	5_BU				0.95	310.30	359.66	361.67	361.24	361.77	0.003020	1.58	242.42	360.65	0.52	53.91
Reach 1	17900	1_BU				1.08	389.90	359.66	361.84	361.35	361.94	0.002870	1.67	305.84	417.39	0.51	53.27
Reach 1	17900	0p5_BU				1.12	418.50	359.66	361.89	361.43	361.99	0.002853	1.70	327.50	443.60	0.51	53.00
Reach 1	17900	0p5-CC-LC_BU				1.24	586.00	359.66	362.13	361.64	362.25	0.002933	1.83	452.37	582.85	0.53	50.21
Reach 1	17850	5_BU				1.00	310.30	359.56	361.56	361.04	361.65	0.002775	1.59	258.96	344.65	0.51	59.90
Reach 1	17850	1_BU				1.15	389.90	359.56	361.71	361.20	361.82	0.002745	1.73	317.12	402.50	0.52	60.30
Reach 1	17850	0p5_BU				1.19	418.50	359.56	361.76	361.29	361.87	0.002723	1.77	337.42	423.61	0.52	59.92
Reach 1	17850	0p5-CC-LC_BU				1.39	586.00	359.56	361.99	361.50	362.13	0.002816	2.02	448.18	561.09	0.54	57.93
Reach 1	17800	5_BU				1.13	310.30	359.59	361.43	360.93	361.52	0.002534	1.65	276.88	396.20	0.50	58.23
Reach 1	17800	1_BU				1.15	389.90	359.59	361.60	361.11	361.69	0.002519	1.66	356.33	528.23	0.50	54.08
Reach 1	17800	0p5_BU				1.17	418.50	359.59	361.65	361.15	361.74	0.002531	1.69	384.12	556.48	0.50	53.46
Reach 1	17800	0p5-CC-LC_BU				1.38	586.00	359.59	361.89	361.41	361.99	0.002390	1.83	529.28	665.52	0.50	50.10
Reach 1	17750	5_BU				1.16	310.30	359.63	361.22	360.84	361.36	0.003583	1.96	222.48	326.95	0.58	56.67
Reach 1	17750	1_BU				1.27	389.90	359.63	361.38	361.01	361.52	0.003565	2.07	281.34	437.95	0.58	54.20
Reach 1	17750	0p5_BU				1.31	418.50	359.63	361.43	361.06	361.58	0.003552	2.09	304.56	470.02	0.58	53.26
Reach 1	17750	0p5-CC-LC_BU				1.51	586.00	359.63	361.68	361.30	361.83	0.003461	2.25	435.21	607.39	0.58	48.71
Reach 1	17700	5_BU				1.16	310.30	359.33	361.01	360.56	361.13	0.002672	1.73	232.84	346.60	0.51	60.72
Reach 1	17700	1_BU				1.29	389.90	359.33	361.17	360.69	361.29	0.002695	1.86	293.22	448.97	0.52	59.04
Reach 1	17700	0p5_BU				1.34	418.50	359.33	361.22	360.73	361.34	0.002673	1.90	316.70	487.24	0.52	58.16
Reach 1	17700	0p5-CC-LC_BU				1.58	586.00	359.33	361.46	360.96	361.60	0.002646	2.10	448.63	625.66	0.54	54.33
Reach 1	17650	5_BU				1.00	310.30	359.01	360.74	360.23	360.81	0.002061	1.39	277.45	397.42	0.44	55.45
Reach 1	17650	1_BU				1.15	389.90	359.01	360.89	360.35	360.97	0.001979	1.48	347.26	497.90	0.44	54.45
Reach 1	17650	0p5_BU				1.20	418.50	359.01	360.94	360.40	361.02	0.001964	1.51	373.11	529.22	0.44	54.10
Reach 1	17650	0p5-CC-LC_BU				1.41	586.00	359.01	361.17	360.60	361.26	0.002015	1.69	506.96	647.48	0.46	51.56
Reach 1	17600	5_BU				0.90	310.30	358.88	360.60	360.06	360.68	0.002311	1.35	252.03	368.78	0.46	40.29
Reach 1	17600	1_BU				0.97	389.90	358.88	360.76	360.20	360.84	0.002348	1.44	324.30	507.47	0.47	40.71
Reach 1	17600	0p5_BU				1.00	418.50	358.88	360.82	360.24	360.89	0.002333	1.45	352.39	547.99	0.47	40.51
Reach 1	17600	0p5-CC-LC_BU				1.22	586.00	358.88	361.04	360.50	361.13	0.002394	1.68	489.68	672.99	0.49	40.96
Reach 1	17574	5_BU				0.81	310.30	358.84	360.54	360.01	360.61	0.002531	1.31	263.32	416.15	0.47	37.02
Reach 1	17574	1_BU				0.90	389.90	358.84	360.70	360.16	360.77	0.002419	1.38	342.01	516.65	0.46	37.61
Reach 1	17574	0p5_BU				0.93	418.50	358.84	360.76	360.21	360.83	0.002404	1.40	370.27	551.83	0.47	37.87
Reach 1	17574	0p5-CC-LC_BU				1.12	586.00	358.84	360.98	360.47	361.06	0.002421	1.60	502.67	635.09	0.48	38.40
Reach 1	17500	5_BU				0.61	310.30	358.91	360.39	359.88	360.44	0.001799	0.93	310.55	507.82	0.38	26.18
Reach 1	17500	1_BU				0.75	389.90	358.91	360.58	360.01	360.62	0.001497	0.98	422.96	672.17	0.36	29.10
Reach 1	17500	0p5_BU				0.80	418.50	358.91	360.63	360.05	360.68	0.001550	1.04	458.49	710.02	0.37	30.65
Reach 1	17500	0p5-CC-LC_BU				1.03	586.00	358.91	360.87	360.28	360.91	0.001413	1.16	645.66	870.45	0.37	31.75
Reach 1	17450	5_BU				0.79	310.30	359.04	360.34	359.76	360.40	0.001853	1.11	310.59	532.63	0.40	23.84
Reach 1	17450	1_BU				0.97	389.90	359.04	360.53	359.87	360.58	0.001538	1.16	428.40	668.01	0.38	24.81
Reach 1	17450	0p5_BU				1.02	418.50	359.04	360.58	359.91	360.63	0.001499	1.18	462.84	705.97	0.37	24.77
Reach 1	17450	0p5-CC-LC_BU				1.25	586.00	359.04	360.82	360.18	360.87	0.001376	1.30	650.73	862.50	0.37	23.97
Reach 1	17350	5_BU				0.83	310.30	358.05	360.04	359.63	360.21	0.003855	1.51	182.52	224.25	0.53	36.48
Reach 1	17350	1_BU				0.79	389.90	358.05	360.27	359.83	360.42	0.003758	1.47	250.01	405.70	0.53	36.92
Reach 1	17350	0p5_BU				0.80	418.50	358.05	360.34	359.90	360.48	0.003538	1.44	284.05	490.19	0.52	37.23
Reach 1	17350	0p5-CC-LC_BU				0.96	586.00	358.05	360.65	360.32	360.74	0.002816	1.46	487.11	805.07	0.48	38.71
Reach 1	17200	5_BU				0.90	310.30	357.76	359.56	359.23	359.81	0.006161	2.00	148.21	156.56	0.67	45.45
Reach 1	17200	1_BU				1.08	389.90	357.76	359.81	359.38	360.05	0.005085	2.04	191.80	197.05	0.63	47.81
Reach 1	17200	0p5_BU				1.15	418.50	357.76	359.88	359.48	360.13	0.004868	2.07	207.68	236.80	0.62	48.42
Reach 1	17200	0p5-CC-LC_BU				1.53	586.00	357.76	360.27	359.87	360.46	0.003839	2.20	356.12	541.25	0.57	49.03
Reach 1	17050	5_BU				2.08	310.30	356.29	359.31	358.29	359.46	0.001286	1.73	195.75	168.81	0.38	98.42
Reach 1	17050	1_BU				2.28	389.90	356.29	359.52	358.49	359.70	0.001441	1.93	244.64	284.64	0.41	96.30
Reach 1	17050	0p5_BU				2.34	418.50	356.29	359.59	358.56	359.78	0.001482	1.99	264.96	326.43	0.42	95.22
Reach 1	17050	0p5-CC-LC_BU				2.67	586.00	356.29	359.92	358.91	360.15	0.001595	2.25	408.12	557.30	0.44	87.84
Reach 1	16812	5_BU				1.29	310.30	354.74	358.79	358.37	359.00	0.003176	2.03	164.67	172.46	0.57	97.13
Reach 1	16812	1_BU				1.44	389.90	354.74	358.98	358.54	359.22	0.003193	2.21	199.14	203.94	0.59	96.17
Reach 1	16812	0p5_BU				1.50	418.50	354.74	359.04	358.59	359.29	0.003192	2.26	211.79	219.23	0.59	95.61
Reach 1	16812	0p5-CC-LC_BU				1.80	586.00	354.74	359.33	358.94	359.64	0.003263	2.55	288.64	290.27	0.61	92.15
Reach 1	16285	5_BU				1.29	310.30	354.72	357.31	356.83	357.47	0.002544	1.79	186.03	178.06	0.50	96.89
Reach 1	16285	1_BU				1.47	389.90	354.72	357.49	357.00	357.68	0.002533	1.95	219.80	195.26	0.51	95.47
Reach 1	16285	0p5_BU				1.53	418.50	354.72	357.55	357.05	357.75	0.002503	1.99	233.03	213.33	0.51	95.03
Reach 1	16285	0p5-CC-LC_BU				1.89	586.00	354.72	357.91	357.31	358.13	0.002260	2.18	330.56	349.48	0.51	91.31

HEC-RAS Plan: KR_Jam_23700 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	15937	5_BU				1.15	310.30	353.96	356.55	355.99	356.66	0.001993	1.48	213.08	196.51	0.44	99.64
Reach 1	15937	1_BU				1.32	389.90	353.96	356.79	356.15	356.91	0.001754	1.52	262.73	218.22	0.42	99.27
Reach 1	15937	0p5_BU				1.37	418.50	353.96	356.88	356.19	356.99	0.001694	1.53	282.03	231.75	0.42	99.11
Reach 1	15937	0p5-CC-LC_BU				1.53	586.00	353.96	357.31	356.41	357.43	0.001506	1.55	401.68	322.50	0.40	97.68
Reach 1	15657	5_BU				1.80	310.30	352.57	355.89	355.16	356.09	0.002009	2.00	156.62	94.77	0.48	99.89
Reach 1	15657	1_BU				1.98	389.90	352.57	356.08	355.35	356.34	0.002275	2.26	176.12	114.07	0.51	99.71
Reach 1	15657	0p5_BU				2.05	418.50	352.57	356.15	355.42	356.43	0.002331	2.34	184.40	123.76	0.52	99.58
Reach 1	15657	0p5-CC-LC_BU				2.33	586.00	352.57	356.43	355.77	356.84	0.002921	2.86	226.94	196.65	0.60	98.51
Reach 1	15073	5_BU				1.03	310.30	351.49	354.04	353.78	354.29	0.005298	2.22	139.94	136.15	0.70	100.00
Reach 1	15073	1_BU				1.17	389.90	351.49	354.31	353.94	354.55	0.004314	2.18	178.93	153.78	0.64	99.97
Reach 1	15073	0p5_BU				1.18	418.50	351.49	354.41	353.99	354.64	0.004107	2.15	195.11	165.66	0.63	99.95
Reach 1	15073	0p5-CC-LC_BU				1.50	586.00	351.49	354.93	354.28	355.14	0.002695	2.04	288.09	193.33	0.53	99.86
Reach 1	14797	5_BU				1.93	310.30	350.08	353.33	352.47	353.51	0.001652	1.88	164.99	85.46	0.43	100.00
Reach 1	14797	1_BU				2.20	389.90	350.08	353.63	352.66	353.85	0.001641	2.04	190.74	86.57	0.44	100.00
Reach 1	14797	0p5_BU				2.29	418.50	350.08	353.73	352.73	353.96	0.001638	2.10	199.49	86.94	0.44	100.00
Reach 1	14797	0p5-CC-LC_BU				2.79	586.00	350.08	354.27	353.09	354.56	0.001665	2.38	246.59	88.73	0.45	100.00
Reach 1	14088	5_BU				1.84	320.00	349.51	352.07	351.30	352.26	0.001887	1.96	163.20	156.19	0.46	99.97
Reach 1	14088	1_BU				2.02	403.00	349.51	352.25	351.51	352.51	0.002188	2.25	179.49	159.65	0.51	99.92
Reach 1	14088	0p5_BU				2.08	433.00	349.51	352.31	351.57	352.59	0.002293	2.35	184.87	161.17	0.52	99.90
Reach 1	14088	0p5-CC-LC_BU				2.38	606.20	349.51	352.61	351.92	353.03	0.002826	2.86	213.11	193.90	0.59	99.75
Reach 1	14004	5_BU				1.34	320.00	349.38	351.76	351.47	352.00	0.003720	2.24	154.58	406.98	0.62	92.14
Reach 1	14004	1_BU				1.49	403.00	349.38	351.91	351.64	352.20	0.003913	2.47	177.25	423.28	0.64	89.75
Reach 1	14004	0p5_BU				1.55	433.00	349.38	351.96	351.70	352.27	0.003966	2.54	185.01	430.68	0.65	89.02
Reach 1	14004	0p5-CC-LC_BU				1.83	606.20	349.38	352.25	351.96	352.64	0.004070	2.88	228.44	498.77	0.68	85.56
Reach 1	13755	5_BU				1.05	320.00	347.42	350.84	350.38	350.98	0.003002	1.70	188.76	474.85	0.53	64.78
Reach 1	13755	1_BU				1.24	403.00	347.42	351.03	350.54	351.19	0.002746	1.81	226.33	538.97	0.52	64.86
Reach 1	13755	0p5_BU				1.30	433.00	347.42	351.09	350.60	351.26	0.002685	1.85	239.27	563.02	0.52	64.75
Reach 1	13755	0p5-CC-LC_BU				1.55	606.20	347.42	351.35	350.85	351.56	0.002842	2.14	299.78	633.83	0.55	64.09
Reach 1	13404	5_BU				1.57	320.00	346.33	349.21	349.07	349.66	0.005546	3.02	115.39	194.73	0.77	94.39
Reach 1	13404	1_BU				1.74	403.00	346.33	349.40	349.33	349.91	0.005810	3.30	137.39	221.46	0.80	91.30
Reach 1	13404	0p5_BU				1.79	433.00	346.33	349.45	349.38	349.99	0.005889	3.39	145.42	228.79	0.81	90.21
Reach 1	13404	0p5-CC-LC_BU				2.16	606.20	346.33	349.83	349.83	350.36	0.004970	3.53	215.55	338.32	0.77	81.10
Reach 1	13209	5_BU				1.59	320.00	345.37	348.73	348.16	348.91	0.002341	1.98	180.57	298.16	0.50	85.41
Reach 1	13209	1_BU				1.81	403.00	345.37	348.95	348.37	349.15	0.002256	2.11	215.61	311.89	0.50	82.40
Reach 1	13209	0p5_BU				1.88	433.00	345.37	349.01	348.43	349.22	0.002251	2.16	226.31	313.19	0.50	81.27
Reach 1	13209	0p5-CC-LC_BU				2.20	606.20	345.37	349.34	348.74	349.60	0.002308	2.43	279.56	329.02	0.52	76.65
Reach 1	13100	5_BU				1.53	320.00	345.58	348.43	347.89	348.63	0.002530	2.01	167.58	550.93	0.52	98.07
Reach 1	13100	1_BU				1.77	403.00	345.58	348.67	348.07	348.89	0.002289	2.11	209.49	615.83	0.51	94.73
Reach 1	13100	0p5_BU				1.83	433.00	345.58	348.74	348.14	348.96	0.002283	2.16	221.36	629.43	0.51	93.59
Reach 1	13100	0p5-CC-LC_BU				2.15	606.20	345.58	349.06	348.54	349.33	0.002344	2.44	279.88	723.48	0.53	88.46
Reach 1	13000	5_BU				1.26	320.00	345.10	347.52	347.52	348.15	0.009954	3.51	91.13	184.47	1.00	100.00
Reach 1	13000	1_BU				1.10	403.00	345.10	347.92	347.92	348.45	0.009925	3.20	126.89	334.53	0.98	99.70
Reach 1	13000	0p5_BU				1.13	433.00	345.10	347.98	347.98	348.52	0.009856	3.26	134.58	348.55	0.98	99.52
Reach 1	13000	0p5-CC-LC_BU				1.39	606.20	345.10	348.30	348.30	348.91	0.008577	3.49	179.40	435.98	0.94	97.90
Reach 1	12950	5_BU				1.56	320.00	344.85	347.63	346.40	347.70	0.000835	1.17	272.75	503.53	0.30	100.00
Reach 1	12950	1_BU				1.66	403.00	344.85	347.80	346.56	347.89	0.000973	1.32	305.77	538.18	0.33	99.98
Reach 1	12950	0p5_BU				1.71	433.00	344.85	347.86	346.62	347.96	0.001003	1.37	317.47	549.79	0.33	99.94
Reach 1	12950	0p5-CC-LC_BU				1.96	606.20	344.85	348.13	346.89	348.27	0.001205	1.64	378.37	663.55	0.37	99.25
Reach 1	12887	5_BU				1.05	320.00	344.53	347.45	346.95	347.60	0.003024	1.71	188.96	348.90	0.53	99.38
Reach 1	12887	1_BU				1.12	403.00	344.53	347.61	347.12	347.78	0.003235	1.85	220.56	373.70	0.56	98.99
Reach 1	12887	0p5_BU				1.12	433.00	344.53	347.67	347.17	347.85	0.003372	1.88	232.13	386.49	0.57	98.84
Reach 1	12887	0p5-CC-LC_BU				1.30	606.20	344.53	347.91	347.47	348.14	0.003542	2.14	290.23	441.36	0.60	98.40
Reach 1	12850	5_BU				0.76	320.00	344.40	347.00	347.00	347.38	0.011768	2.72	117.56	295.82	1.00	100.00
Reach 1	12850	1_BU				0.80	403.00	344.40	347.16	347.16	347.56	0.011472	2.79	144.67	346.12	0.99	99.99
Reach 1	12850	0p5_BU				0.82	433.00	344.40	347.21	347.21	347.62	0.011356	2.81	154.13	358.77	0.99	99.99
Reach 1	12850	0p5-CC-LC_BU				1.09	606.20	344.40	347.72	347.45	347.98	0.005000	2.27	269.33	498.23	0.69	99.76
Reach 1	12800	5_BU				1.13	320.00	343.70	346.67	346.29	346.89	0.003993	2.07	154.86	251.95	0.62	99.97
Reach 1	12800	1_BU				1.28	403.00	343.70	347.03	346.45	347.20	0.002820	1.89	224.02	434.02	0.53	97.70
Reach 1	12800	0p5_BU				1.35	433.00	343.70	347.15	346.51	347.31	0.002411	1.81	257.43	471.65	0.50	96.01
Reach 1	12800	0p5-CC-LC_BU				1.75	606.20	343.70	347.71	346.89	347.83	0.001281	1.57	438.76	681.63	0.38	86.22
Reach 1	12735	5_BU				2.19	320.00	340.98	346.75	344.02	346.79	0.000263	0.82	402.63	365.39	0.18	98.81
Reach 1	12735	1_BU				2.47	403.00	340.98	347.09	344.27	347.12	0.000252	0.87	499.59	441.45	0.18	96.04
Reach 1	12735	0p5_BU				2.58	433.00	340.98	347.20	344.35	347.24	0.000243	0.89	536.95	473.84	0.18	94.89
Reach 1	12735	0p5-CC-LC_BU				3.12	606.20	340.98	347.73	344.85	347.78	0.000223	0.96	722.68	586.00	0.17	88.70
Reach 1	12700	5_BU				2.13	320.00	342.78	346.71	345.06	346.77	0.000501	1.12	324.08	394.09	0.24	90.32
Reach 1	12700	1_BU				2.41	403.00	342.78	347.05	345.27	347.11	0.000448	1.15	413.64	483.39	0.24	85.30
Reach 1	12700	0p5_BU				2.51	433.00	342.78	347.17	345.35	347.23	0.000421	1.14	448.20	502.05	0.23	83.11
Reach 1	12700	0p5-CC-LC_BU				3.04	606.20	342.78	347.70	345.79	347.76	0.000363	1.21	622.72	670.36	0.22	75.88
Reach 1	12650	5_BU				2.32	320.00	342.92	346.64	345.22	346.74	0.000753	1.45	252.50	325.79	0.30	87.31
Reach 1	12650	1_BU				2.63	403.00	342.92	346.97	345.47	347.07	0.000695	1.51	309.47	403.37	0.30	82.88
Reach 1	12650	0p5_BU				2.75	433.00	342.92	347.09	345.57	347.19	0.000691	1.55	332.99	441.04	0.30	82.55
Reach 1	12650	0p5-CC-LC_BU				3.28	606.20	342.92	347.62	346.15	347.73	0.000608	1.64	479.16	631.62	0.29	74.44
Reach 1	12600	5_BU				2.36	320.00	342.87	346.55	345.54	346.68	0.001093	1.76	208.72	234.29	0.37	73.79
Reach 1	12600	1_BU				2.61	403.00	342.87	346.88	345.81	347.02	0.001060	1.85	251.57	323.60	0.37	70.31
Reach 1	12600	0p5_BU				2.73	433.00	342.87	346.99	345.88	347.14	0.001026	1.87	269.15	380.40	0.36	69.28
Reach 1	12600	0p5-CC-LC_BU				3.26	606.20	342.87	347.53	346.23	347.68	0.000949	2.03	405.92	672.93	0.36	64.17
Reach 1	12550	5_BU				2.22	320.00	343.00	346.54	345.29	346.63	0.000725	1.38	273.46	527.51	0.30	81.65
Reach 1	12550	1_BU				2.56	403.00	343.00	346.88	345.65	346.96	0.000605	1.39	369.71	661.56	0.28	75.28
Reach 1	12550	0p5_BU				2.69	433.00	343.00	347.01	345.75	347.08	0.000549	1.37	412.02	715.94	0.27	72.24
Reach 1	12550	0p5-CC-LC_BU				3.24	606.20	343.00	347.56	346.12	347.63	0.000408	1.34	637.26	878.19	0.24	60.83
Reach 1	12500	5_BU				1.42	320.00	343.14	346.46	345.73	346.57	0.001454	1.46	229.44	387.16	0.39	98.48
Reach 1	12500	1_BU				1.75	403.00	343.14	346.81	345.90	346.92	0.001097	1.45	296.87	431.74	0.35	97.33
Reach 1	12500	0p5_BU				1.87	433.00	343.14	346.93	345.95	347.04	0.001007	1.46	326.27	500.79	0.34	97.19
Reach 1	12500	0p5-CC-LC_BU				2.43	606.20	343.14	347.49	346.20	347.59	0.000702	1.45	595.49	952.06	0.30	89.77
Reach 1	12436	5_BU				1.61	320.00	343.08	345.50	345.50	346.31	0.009314	3.97	81.44	159.70	1.00	99.85
Reach 1	12436	1_BU				1.92	403.00	343.08	345.82	345.82	346.69	0.008060	4.16	100.94	189.19	0.96	99.10
Reach 1	12436	0p5_BU				2.01	433.00	343.08	345.90	345.90	346.82	0.007976	4.26	106.77	192.24	0.96	98.80
Reach 1	12436	0p5-CC-LC_BU				2.73	606.20	343.08	346.62	346.62	347.43	0.004947	4.12	180.63	349.80	0.79	92.64
Reach 1	12300	5_BU				1.78	320.00	342.78	345.33	344.60	345.53	0.002035	2.00	179.61	385.48	0.48	96.16
Reach 1	12300	1_BU				1.99	403.00	342.78	345.56	344.84	345.79	0.002081	2.18	216.40	427.85	0.49	93.92
Reach 1	12300	0p5_BU				2.07	433.00	342.78	345.63	344.92	345.87	0.002104	2.24	228.89	446.49	0.50	93.18
Reach 1	12300	0p5-CC-LC_BU				2.41	606.20	342.78	345.97	345.33	346.28	0.002280	2.58	297.98	508.88	0.53	89.32
Reach 1	11788	5_BU				1.50	320.00	342.07	344.28	343.70	344.43	0.002150	1.82	189.03	494.22	0.48	86.94
Reach 1	11788	1_BU				1.62	403.00	342.07	344.49	343.86	344.66	0.002202	1.95	229.44	547.83	0.49	84.21
Reach 1	11788	0p5_BU				1.67	433.00	342.07	344.56	343.91	344.74	0.002202	1.99	244.34	563.24	0.49	83.35
Reach 1	11788	0p5-CC-LC_BU				2.00	606.20	342.07	344.92	344.21	345.12	0.002044	2.16	352.36	733.30	0.49	79.07
Reach 1	11514	5_BU				1.15	320.00	340.85	343.20	342.96	343.52	0.005754	2.52	128.50	248.30	0.75	99.68

HEC-RAS Plan: KR_Jam_23700 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	11514	1_BU				1.36	403.00	340.85	343.42	343.16	343.78	0.005136	2.66	154.38	314.65	0.73	99.50
Reach 1	11514	0p5_BU				1.45	433.00	340.85	343.51	343.22	343.87	0.004825	2.68	165.34	351.59	0.71	99.39
Reach 1	11514	0p5-CC-LC_BU				1.78	606.20	340.85	343.85	343.51	344.31	0.004636	3.01	212.99	435.24	0.72	98.71
Reach 1	11034	5_BU				1.76	320.00	338.63	342.19		342.31	0.001320	1.59	209.27	299.51	0.38	94.76
Reach 1	11034	1_BU				1.93	403.00	338.63	342.47		342.61	0.001325	1.69	251.35	377.96	0.39	93.19
Reach 1	11034	0p5_BU				1.98	433.00	338.63	342.56		342.71	0.001354	1.75	268.42	405.64	0.40	93.69
Reach 1	11034	0p5-CC-LC_BU				2.26	606.20	338.63	342.98		343.15	0.001355	1.90	360.09	514.44	0.40	89.06
Reach 1	10544	5_BU				1.58	320.00	337.82	341.05		341.33	0.003273	2.34	141.82	282.87	0.59	99.16
Reach 1	10544	1_BU				1.78	403.00	337.82	341.26		341.60	0.003387	2.57	172.41	350.27	0.62	98.37
Reach 1	10544	0p5_BU				1.84	433.00	337.82	341.34		341.69	0.003379	2.63	185.52	373.13	0.62	97.77
Reach 1	10544	0p5-CC-LC_BU				2.20	606.20	337.82	341.71	341.25	342.12	0.003315	2.93	271.67	504.87	0.63	93.42
Reach 1	9771	5_BU				1.38	320.00	336.80	339.07		339.22	0.002221	1.77	189.58	510.56	0.48	97.49
Reach 1	9771	1_BU				1.55	403.00	336.80	339.26		339.45	0.002237	1.92	223.17	623.30	0.49	96.22
Reach 1	9771	0p5_BU				1.60	433.00	336.80	339.32		339.51	0.002286	1.98	233.28	646.96	0.50	95.80
Reach 1	9771	0p5-CC-LC_BU				1.88	606.20	336.80	339.60		339.85	0.002519	2.31	288.66	741.62	0.54	93.50
Reach 1	8903	5_BU				1.72	320.00	333.65	336.76		337.04	0.003232	2.44	148.51	322.20	0.60	85.53
Reach 1	8903	1_BU				1.92	403.00	333.65	337.00		337.30	0.003173	2.61	184.71	433.04	0.60	82.48
Reach 1	8903	0p5_BU				1.98	433.00	333.65	337.08		337.38	0.003097	2.63	200.13	459.69	0.60	80.85
Reach 1	8903	0p5-CC-LC_BU				2.30	606.20	333.65	337.45		337.77	0.002871	2.80	281.96	539.53	0.59	73.03
Reach 1	8300	5_BU				1.67	320.00	332.67	335.37		335.54	0.001933	1.87	190.29	318.02	0.46	95.51
Reach 1	8300	1_BU				1.88	403.00	332.67	335.59		335.80	0.001993	2.05	228.56	385.20	0.48	94.26
Reach 1	8300	0p5_BU				1.95	433.00	332.67	335.67		335.89	0.002032	2.12	243.02	414.95	0.48	94.36
Reach 1	8300	0p5-CC-LC_BU				2.26	606.20	332.67	336.02		336.29	0.002172	2.42	337.32	603.59	0.51	90.96
Reach 1	7514	5_BU				1.32	320.00	330.29	332.85		333.20	0.005065	2.66	128.63	313.89	0.74	96.68
Reach 1	7514	1_BU				1.51	403.00	330.29	333.08		333.47	0.004723	2.82	154.62	334.68	0.73	96.09
Reach 1	7514	0p5_BU				1.60	433.00	330.29	333.17		333.57	0.004548	2.86	165.75	356.64	0.72	95.82
Reach 1	7514	0p5-CC-LC_BU				2.02	606.20	330.29	333.61	333.21	334.05	0.003875	3.03	252.49	501.78	0.68	92.72
Reach 1	6800	5_BU				2.02	320.00	327.67	330.75		330.99	0.002035	2.16	147.90	172.09	0.49	100.00
Reach 1	6800	1_BU				2.33	403.00	327.67	331.06		331.34	0.001996	2.35	171.92	243.05	0.49	99.91
Reach 1	6800	0p5_BU				2.41	433.00	327.67	331.15		331.45	0.002033	2.44	178.94	252.79	0.50	99.83
Reach 1	6800	0p5-CC-LC_BU				2.93	606.20	327.67	331.67		332.06	0.002055	2.79	221.65	291.32	0.52	99.07
Reach 1	6650	5_BU				1.60	320.00	327.66	330.43		330.64	0.002467	2.03	158.71	302.71	0.51	99.89
Reach 1	6650	1_BU				1.57	403.00	327.66	330.77		330.99	0.002542	2.05	199.90	354.43	0.52	99.73
Reach 1	6650	0p5_BU				1.69	433.00	327.66	330.89		331.10	0.002334	2.05	214.63	358.43	0.50	99.68
Reach 1	6650	0p5-CC-LC_BU				2.32	606.20	327.66	331.52		331.74	0.001561	2.08	301.19	407.70	0.44	99.31
Reach 1	6563	5_BU				1.40	320.00	327.63	330.23		330.41	0.002627	1.93	176.49	189.07	0.52	97.70
Reach 1	6563	1_BU				1.72	403.00	327.63	330.61		330.79	0.001910	1.89	227.44	208.58	0.46	97.52
Reach 1	6563	0p5_BU				1.85	433.00	327.63	330.74		330.91	0.001737	1.89	244.99	217.47	0.44	97.49
Reach 1	6563	0p5-CC-LC_BU				2.54	606.20	327.63	331.43		331.61	0.001173	1.92	341.61	284.75	0.38	97.24
Reach 1	6400	5_BU				2.29	320.00	325.72	329.86		330.05	0.001947	1.92	166.92	132.56	0.40	100.00
Reach 1	6400	1_BU				2.65	403.00	325.72	330.26		330.47	0.001901	2.06	196.05	146.94	0.40	100.00
Reach 1	6400	0p5_BU				2.77	433.00	325.72	330.39		330.61	0.001896	2.10	205.88	153.61	0.40	100.00
Reach 1	6400	0p5-CC-LC_BU				3.39	606.20	325.72	331.09		331.37	0.001858	2.35	258.58	287.63	0.41	100.00
Reach 1	6300	5_BU				2.38	320.00	325.66	329.61		329.86	0.001694	2.21	145.14	95.39	0.46	100.00
Reach 1	6300	1_BU				2.77	403.00	325.66	330.00		330.29	0.001625	2.39	169.14	102.40	0.46	99.95
Reach 1	6300	0p5_BU				2.89	433.00	325.66	330.12		330.43	0.001614	2.45	177.16	105.93	0.46	99.92
Reach 1	6300	0p5-CC-LC_BU				3.56	606.20	325.66	330.79		331.18	0.001569	2.78	222.80	173.04	0.47	99.49
Reach 1	6200	5_BU				2.36	320.00	325.60	329.47		329.68	0.001592	2.04	157.10	139.61	0.42	100.00
Reach 1	6200	1_BU				2.72	403.00	325.60	329.87		330.12	0.001557	2.19	183.94	158.25	0.42	100.00
Reach 1	6200	0p5_BU				2.85	433.00	325.60	330.00		330.26	0.001536	2.25	193.11	171.60	0.42	99.98
Reach 1	6200	0p5-CC-LC_BU				3.54	606.20	325.60	330.69		331.01	0.001451	2.52	248.46	264.26	0.43	99.50
Reach 1	6150	5_BU				2.57	320.00	325.56	329.35		329.60	0.001556	2.22	144.41	104.58	0.44	100.00
Reach 1	6150	1_BU				2.91	403.00	325.56	329.73		330.03	0.001591	2.43	165.98	108.70	0.45	100.00
Reach 1	6150	0p5_BU				3.03	433.00	325.56	329.86		330.17	0.001598	2.50	173.24	110.26	0.46	99.99
Reach 1	6150	0p5-CC-LC_BU				3.68	606.20	325.56	330.50		330.92	0.001635	2.88	212.09	130.38	0.48	99.77
Reach 1	6100	5_BU				2.48	320.00	325.53	329.25		329.52	0.001771	2.31	138.70	83.86	0.47	100.00
Reach 1	6100	1_BU				2.81	403.00	325.53	329.62		329.95	0.001798	2.52	159.92	95.73	0.48	100.00
Reach 1	6100	0p5_BU				2.93	433.00	325.53	329.75		330.09	0.001800	2.59	167.02	103.57	0.48	100.00
Reach 1	6100	0p5-CC-LC_BU				3.57	606.20	325.53	330.39		330.84	0.001821	2.98	204.72	173.34	0.50	99.88
Reach 1	6050	5_BU				2.52	320.00	325.50	329.18		329.43	0.001591	2.21	144.84	126.35	0.44	100.00
Reach 1	6050	1_BU				2.90	403.00	325.50	329.55		329.85	0.001582	2.42	167.03	135.47	0.45	99.95
Reach 1	6050	0p5_BU				3.02	433.00	325.50	329.68		330.00	0.001586	2.49	174.48	138.46	0.46	99.92
Reach 1	6050	0p5-CC-LC_BU				3.66	606.20	325.50	330.32		330.74	0.001626	2.87	213.65	153.50	0.48	99.68
Reach 1	6000	5_BU				2.45	320.00	325.48	329.06		329.34	0.001814	2.32	138.05	100.17	0.47	100.00
Reach 1	6000	1_BU				2.78	403.00	325.48	329.44		329.76	0.001928	2.53	159.14	127.11	0.48	100.00
Reach 1	6000	0p5_BU				2.90	433.00	325.48	329.56		329.90	0.001974	2.61	166.24	129.90	0.49	99.99
Reach 1	6000	0p5-CC-LC_BU				3.52	606.20	325.48	330.19		330.65	0.002059	2.99	203.93	147.08	0.51	99.82
Reach 1	5950	5_BU				2.38	320.00	325.47	328.93		329.24	0.002133	2.47	129.81	72.91	0.51	100.00
Reach 1	5950	1_BU				2.69	403.00	325.47	329.28		329.65	0.002283	2.70	149.50	87.64	0.52	100.00
Reach 1	5950	0p5_BU				2.81	433.00	325.47	329.40		329.79	0.002293	2.78	156.05	89.09	0.53	100.00
Reach 1	5950	0p5-CC-LC_BU				3.42	606.20	325.47	330.01		330.53	0.002322	3.19	191.29	103.34	0.55	99.90
Reach 1	5900	5_BU				2.34	320.00	325.42	328.83		329.13	0.002117	2.43	131.43	88.62	0.51	100.00
Reach 1	5900	1_BU				2.69	403.00	325.42	329.18		329.54	0.002107	2.66	151.51	113.13	0.52	99.98
Reach 1	5900	0p5_BU				2.81	433.00	325.42	329.30		329.68	0.002108	2.74	158.30	114.20	0.52	99.95
Reach 1	5900	0p5-CC-LC_BU				3.43	606.20	325.42	329.91		330.42	0.002127	3.14	194.50	124.30	0.54	99.71
Reach 1	5850	5_BU				2.21	320.00	325.40	328.54		328.98	0.003336	2.94	108.82	69.00	0.63	100.00
Reach 1	5850	1_BU				2.49	403.00	325.40	328.86		329.39	0.003472	3.24	124.38	73.42	0.66	100.00
Reach 1	5850	0p5_BU				2.59	433.00	325.40	328.96		329.53	0.003510	3.34	129.50	77.94	0.66	99.99
Reach 1	5850	0p5-CC-LC_BU				3.11	606.20	325.40	329.48		330.25	0.003735	3.90	156.20	110.07	0.71	99.89
Reach 1	5800	5_BU				2.17	320.00	325.36	328.42		328.81	0.003002	2.76	116.10	102.42	0.60	100.00
Reach 1	5800	1_BU				2.46	403.00	325.36	328.74		329.21	0.003064	3.02	133.40	111.65	0.62	100.00
Reach 1	5800	0p5_BU				2.55	433.00	325.36	328.85		329.34	0.003095	3.11	139.13	119.28	0.62	99.99
Reach 1	5800	0p5-CC-LC_BU				3.08	606.20	325.36	329.38		330.04	0.003221	3.60	169.15	158.82	0.66	99.94
Reach 1	5750	5_BU				2.12	320.00	325.34	328.25		328.65	0.003181	2.80	114.16	159.30	0.61	100.00
Reach 1	5750	1_BU				2.39	403.00	325.34	328.57		329.05	0.003270	3.07	131.16	168.35	0.63	100.00
Reach 1	5750	0p5_BU				2.49	433.00	325.34	328.67		329.18	0.003301	3.17	136.76	171.04	0.64	100.00
Reach 1	5750	0p5-CC-LC_BU				3.01	606.20	325.34	329.20		329.88	0.003400	3.65	166.79	193.07	0.67	99.87
Reach 1	5724	5_BU				2.16	320.00	325.30	328.22		328.56	0.002684	2.60	123.18	81.33	0.56	100.00
Reach 1	5724	1_BU				2.46	403.00	325.30	328.54		328.95	0.002717	2.85	141.55	111.38	0.58	99.99
Reach 1	5724	0p5_BU				2.56	433.00	325.30	328.64		329.08	0.002735	2.94	147.59	124.27	0.59	99.98
Reach 1	5724	0p5-CC-LC_BU				3.10	606.20	325.30	329.18		329.77	0.002825	3.39	179.66	172.58	0.61	99.85
Reach 1	5650	5_BU				2.10	320.00	325.13	327.97		328.35	0.003057	2.73	117.18	81.77	0.60	100.00
Reach 1	5650	1_BU				2.37	403.00	325.13	328.27		328.73	0.003157	3.00	134.28	85.55	0.62	100.00
Reach 1	5650	0p5_BU				2.47	433.00	325.13	328.37		328.86	0.003183	3.10	139.88	93.37	0.63	100.00
Reach 1	5650	0p5-CC-LC_BU				2.98	606.20	325.13	328.88		329.54	0.003342	3.59	169.41	135.41	0.66	99.88
Reach 1	5550	5_BU				1.98	320.00	324.87	327.59		328.01	0.003607	2.85	112.09	71.61	0.65	100.00
Reach 1	5550	1_BU				2.23	403.00	324.87	327.88		328.38	0.003749	3.14	128.17	86.49	0.67	100.00
Reach 1	5550	0p5_BU				2.32	433.00	324.87	327.97		328.50	0.003799	3.25	133.42	90.24	0.68	99.99

HEC-RAS Plan: KR_Jam_23700 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	5550	0p5-CC-LC_BU				2.76	606.20	324.87	328.41		329.15	0.004132	3.81	159.57	112.47	0.73	99.93
Reach 1	5400	5_BU				1.93	320.00	324.48	327.24		327.52	0.002514	2.34	136.52	109.54	0.54	100.00
Reach 1	5400	1_BU				2.17	403.00	324.48	327.53		327.87	0.002556	2.56	157.68	118.37	0.55	100.00
Reach 1	5400	0p5_BU				2.25	433.00	324.48	327.63		327.98	0.002574	2.63	164.68	121.11	0.56	100.00
Reach 1	5400	0p5-CC-LC_BU				2.68	606.20	324.48	328.10		328.57	0.002710	3.03	200.13	133.57	0.59	99.95
Reach 1	5200	5_BU				2.14	320.00	323.95	326.96		327.13	0.001346	1.84	174.18	147.28	0.40	100.00
Reach 1	5200	1_BU				2.38	403.00	323.95	327.24		327.45	0.001437	2.04	197.79	158.87	0.42	100.00
Reach 1	5200	0p5_BU				2.46	433.00	323.95	327.33		327.56	0.001473	2.11	205.48	161.95	0.43	100.00
Reach 1	5200	0p5-CC-LC_BU				2.86	606.20	323.95	327.79		328.10	0.001671	2.48	244.14	180.17	0.47	100.00
Reach 1	4950	5_BU				1.74	320.00	323.31	326.48		326.70	0.002239	2.06	167.42	179.76	0.50	98.31
Reach 1	4950	1_BU				1.86	403.00	323.31	326.74		326.99	0.002395	2.23	197.79	228.08	0.52	97.76
Reach 1	4950	0p5_BU				1.92	433.00	323.31	326.83		327.09	0.002417	2.29	208.52	243.88	0.53	97.61
Reach 1	4950	0p5-CC-LC_BU				2.33	606.20	323.31	327.28		327.61	0.002374	2.57	271.12	340.15	0.54	96.92
Reach 1	4694	5_BU				1.61	320.00	322.84	326.02		326.17	0.001753	1.73	191.54	371.95	0.44	99.55
Reach 1	4694	1_BU				1.89	403.00	322.84	326.30		326.47	0.001612	1.84	230.30	393.36	0.43	99.03
Reach 1	4694	0p5_BU				1.98	433.00	322.84	326.40		326.58	0.001574	1.88	243.58	397.53	0.43	98.85
Reach 1	4694	0p5-CC-LC_BU				2.48	606.20	322.84	326.90		327.11	0.001433	2.09	315.21	433.58	0.42	97.91
Reach 1	4150	5_BU				1.93	320.00	322.29	324.97		325.17	0.001922	1.99	160.79	187.71	0.46	100.00
Reach 1	4150	1_BU				2.15	403.00	322.29	325.20		325.46	0.002150	2.24	180.21	208.64	0.49	100.00
Reach 1	4150	0p5_BU				2.23	433.00	322.29	325.28		325.55	0.002239	2.32	186.43	221.04	0.50	100.00
Reach 1	4150	0p5-CC-LC_BU				2.59	606.20	322.29	325.65		326.05	0.002716	2.78	218.13	251.44	0.55	99.99
Reach 1	3843	5_BU				1.08	320.00	322.07	323.61	323.54	324.05	0.008683	2.95	108.45	175.59	0.91	100.00
Reach 1	3843	1_BU				1.29	403.00	322.07	323.84	323.71	324.32	0.007441	3.07	131.42	179.92	0.86	100.00
Reach 1	3843	0p5_BU				1.37	433.00	322.07	323.92		324.41	0.006974	3.09	140.13	181.35	0.84	99.99
Reach 1	3843	0p5-CC-LC_BU				1.82	606.20	322.07	324.41		324.93	0.005028	3.17	191.67	190.38	0.75	99.88
Reach 1	3700	5_BU				1.43	320.00	320.95	323.51		323.60	0.001117	1.28	250.48	236.57	0.34	100.00
Reach 1	3700	1_BU				1.73	403.00	320.95	323.81		323.90	0.000943	1.33	302.94	251.63	0.32	100.00
Reach 1	3700	0p5_BU				1.83	433.00	320.95	323.92		324.01	0.000895	1.35	321.25	260.23	0.32	100.00
Reach 1	3700	0p5-CC-LC_BU				2.40	606.20	320.95	324.48		324.59	0.000721	1.45	420.26	288.09	0.30	99.95
Reach 1	3600	5_BU				1.60	320.00	320.47	323.08		323.39	0.003779	2.49	138.75	171.33	0.63	98.27
Reach 1	3600	1_BU				1.90	403.00	320.47	323.38		323.72	0.003346	2.62	168.55	179.59	0.61	97.56
Reach 1	3600	0p5_BU				2.00	433.00	320.47	323.48		323.83	0.003239	2.67	178.79	182.01	0.60	97.37
Reach 1	3600	0p5-CC-LC_BU				2.53	606.20	320.47	324.01		324.43	0.002842	2.93	233.97	199.34	0.59	96.31
Reach 1	3500	5_BU				2.02	320.00	320.12	322.84		323.08	0.002241	2.18	149.01	144.00	0.49	99.80
Reach 1	3500	1_BU				2.32	403.00	320.12	323.15		323.43	0.002216	2.37	173.88	151.87	0.50	99.59
Reach 1	3500	0p5_BU				2.42	433.00	320.12	323.25		323.55	0.002210	2.44	182.62	155.28	0.50	99.49
Reach 1	3500	0p5-CC-LC_BU				2.95	606.20	320.12	323.78		324.17	0.002188	2.77	237.82	215.92	0.52	98.61
Reach 1	3450	5_BU				1.96	320.00	319.97	322.62		322.94	0.003189	2.55	140.03	170.62	0.58	96.55
Reach 1	3450	1_BU				2.24	403.00	319.97	322.94		323.30	0.003111	2.70	170.26	196.02	0.58	94.74
Reach 1	3450	0p5_BU				2.34	433.00	319.97	323.05		323.41	0.003095	2.75	180.66	205.57	0.58	94.17
Reach 1	3450	0p5-CC-LC_BU				2.87	606.20	319.97	323.60		324.04	0.002903	3.04	240.27	255.50	0.57	91.90
Reach 1	3400	5_BU				1.86	320.00	319.80	322.38		322.76	0.003795	2.75	116.90	78.31	0.64	99.97
Reach 1	3400	1_BU				2.10	403.00	319.80	322.65		323.11	0.003970	3.00	135.61	84.04	0.66	99.82
Reach 1	3400	0p5_BU				2.19	433.00	319.80	322.74		323.23	0.003983	3.09	142.01	85.47	0.67	99.75
Reach 1	3400	0p5-CC-LC_BU				2.67	606.20	319.80	323.22		323.85	0.003994	3.53	177.99	100.85	0.69	99.23
Reach 1	3350	5_BU				1.88	320.00	319.64	322.25		322.57	0.003199	2.53	128.75	92.65	0.59	99.49
Reach 1	3350	1_BU				2.14	403.00	319.64	322.52		322.91	0.003298	2.77	148.61	96.70	0.61	99.39
Reach 1	3350	0p5_BU				2.23	433.00	319.64	322.61		323.03	0.003325	2.85	155.59	97.68	0.61	99.30
Reach 1	3350	0p5-CC-LC_BU				2.69	606.20	319.64	323.11		323.64	0.003421	3.25	193.88	107.25	0.63	98.79
Reach 1	3300	5_BU				1.74	320.00	319.48	321.96		322.38	0.004342	2.87	121.38	98.84	0.70	98.22
Reach 1	3300	1_BU				1.98	403.00	319.48	322.24		322.72	0.004236	3.09	145.48	104.84	0.70	97.46
Reach 1	3300	0p5_BU				2.06	433.00	319.48	322.34		322.83	0.004198	3.16	154.07	107.06	0.70	97.22
Reach 1	3300	0p5-CC-LC_BU				2.55	606.20	319.48	322.86		323.45	0.003851	3.48	203.86	121.37	0.70	96.06
Reach 1	3275	5_BU				1.47	320.00	319.45	321.68	321.54	322.23	0.007153	3.29	97.17	147.83	0.87	100.00
Reach 1	3275	1_BU				1.71	403.00	319.45	321.95	321.77	322.57	0.007017	3.49	115.43	155.14	0.85	100.00
Reach 1	3275	0p5_BU				1.79	433.00	319.45	322.04		322.69	0.006939	3.56	121.71	157.82	0.85	100.00
Reach 1	3275	0p5-CC-LC_BU				2.26	606.20	319.45	322.56		323.32	0.006449	3.85	157.41	167.42	0.82	100.00
Reach 1	3250	5_BU				1.54	320.00	319.30	321.58		322.12	0.002874	3.24	98.77	123.23	0.83	100.00
Reach 1	3250	1_BU				1.79	403.00	319.30	321.85		322.46	0.002706	3.46	116.38	141.36	0.83	100.00
Reach 1	3250	0p5_BU				1.87	433.00	319.30	321.95		322.58	0.002659	3.54	122.43	144.71	0.83	100.00
Reach 1	3250	0p5-CC-LC_BU				2.34	606.20	319.30	322.45		323.22	0.002410	3.90	155.49	151.00	0.81	100.00
Reach 1	3150	5_BU				1.97	320.00	318.88	321.59		321.87	0.001096	2.35	136.08	104.96	0.54	100.00
Reach 1	3150	1_BU				2.21	403.00	318.88	321.87		322.21	0.001131	2.58	156.06	108.66	0.55	100.00
Reach 1	3150	0p5_BU				2.30	433.00	318.88	321.97		322.33	0.001140	2.66	162.96	109.94	0.56	100.00
Reach 1	3150	0p5-CC-LC_BU				2.83	606.20	318.88	322.50		322.97	0.001114	3.02	201.41	119.42	0.57	99.91
Reach 1	3037	5_BU				2.40	320.00	318.40	321.50		321.76	0.000852	2.26	144.36	81.27	0.46	99.56
Reach 1	3037	1_BU				2.67	403.00	318.40	321.77		322.09	0.000955	2.55	162.16	88.18	0.50	99.24
Reach 1	3037	0p5_BU				2.77	433.00	318.40	321.86		322.21	0.000987	2.64	168.33	91.25	0.51	99.12
Reach 1	3037	0p5-CC-LC_BU				3.26	606.20	318.40	322.35		322.84	0.001122	3.12	202.41	104.55	0.55	98.41
Reach 1	2965	5_BU				2.44	320.00	318.25	321.43	320.38	321.70	0.000798	2.27	141.01	57.82	0.46	100.00
Reach 1	2965	1_BU				2.66	403.00	318.25	321.68	320.65	322.02	0.000965	2.59	155.47	58.53	0.51	100.00
Reach 1	2965	0p5_BU				2.74	433.00	318.25	321.77	320.75	322.14	0.001019	2.70	160.40	58.76	0.52	100.00
Reach 1	2965	0p5-CC-LC_BU				3.18	606.20	318.25	322.21	321.21	322.75	0.001215	3.25	186.98	61.92	0.58	99.98
Reach 1	2946		Bridge														
Reach 1	2919	5_BU				3.35	320.00	317.23	321.47		321.60	0.000212	1.60	200.61	61.77	0.28	99.93
Reach 1	2919	1_BU				3.61	403.00	317.23	321.73		321.90	0.000263	1.87	216.55	62.76	0.31	99.86
Reach 1	2919	0p5_BU				3.70	433.00	317.23	321.81		322.01	0.000280	1.96	222.00	63.13	0.33	99.82
Reach 1	2919	0p5-CC-LC_BU				4.16	606.20	317.23	322.28		322.58	0.000368	2.43	251.87	65.06	0.38	99.56
Reach 1	2850	5_BU				2.57	320.00	318.15	321.36		321.56	0.000543	1.96	163.05	63.56	0.39	100.00
Reach 1	2850	1_BU				2.79	403.00	318.15	321.59		321.85	0.000651	2.27	177.64	64.72	0.43	99.99
Reach 1	2850	0p5_BU				2.86	433.00	318.15	321.66		321.95	0.000687	2.37	182.57	64.87	0.45	99.98
Reach 1	2850	0p5-CC-LC_BU				3.27	606.20	318.15	322.07		322.50	0.000865	2.91	209.02	67.68	0.51	99.90
Reach 1	2800	5_BU				2.23	320.00	317.92	321.34		321.53	0.000642	1.95	186.71	110.81	0.42	97.48
Reach 1	2800	1_BU				2.40	403.00	317.92	321.57		321.81	0.000725	2.20	213.00	114.44	0.45	96.61
Reach 1	2800	0p5_BU				2.47	433.00	317.92	321.65		321.91	0.000751	2.28	222.19	117.36	0.46	96.36
Reach 1	2800	0p5-CC-LC_BU				2.85	606.20	317.92	322.08		322.43	0.000843	2.68	277.17	137.53	0.51	95.16
Reach 1	2770	5_BU				2.07	320.00	317.84	321.29		321.50	0.000792	2.06	165.40	97.03	0.46	98.99
Reach 1	2770	1_BU				2.25	403.00	317.84	321.51		321.78	0.000907	2.33	187.13	99.11	0.50	98.47
Reach 1	2770	0p5_BU				2.32	433.00	317.84	321.58		321.88	0.000940	2.42	194.59	101.02	0.51	98.30
Reach 1	2770	0p5-CC-LC_BU				2.63	606.20	317.84	322.00		322.40	0.001076	2.83	238.00	117.28	0.56	97.44
Reach 1	2750	5_BU				1.91	320.00	318.03	321.25		321.48	0.000939	2.13	150.03	78.47	0.49	100.00
Reach 1	2750	1_BU				2.09	403.00	318.03	321.46		321.76	0.001073	2.42	166.68	79.72	0.53	100.00
Reach 1	2750	0p5_BU				2.15	433.00	318.03	321.53		321.85	0.001114	2.51	172.32	80.00	0.55	100.00
Reach 1	2750	0p5-CC-LC_BU				2.49	606.20	318.03	321.92		322.37	0.001287	2.98	203.85	86.28	0.60	99.99
Reach 1	2700	5_BU				1.68	320.00	318.39	321.21		321.43	0.001072	2.10	152.62	90.75	0.52	100.00
Reach 1	2700	1_BU				1.87	403.00	318.39	321.42		321.70	0.001161	2.34	171.97	92.86	0.55	100.00
Reach 1	2700	0p5_BU				1.94	433.00	318.39	321.49		321.79	0.001186	2.42	178.60	94.20	0.56	100.00

HEC-RAS Plan: KR_Jam_23700 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	2700	0p5-CC-LC_BU				2.34	606.20	318.39	321.89		322.29	0.001245	2.81	215.72	98.83	0.59	99.97
Reach 1	2666	5_BU				1.53	320.00	318.64	321.11		321.38	0.001479	2.31	138.40	90.37	0.60	100.00
Reach 1	2666	1_BU				1.72	403.00	318.64	321.31		321.65	0.001586	2.58	156.22	91.07	0.63	100.00
Reach 1	2666	0p5_BU				1.78	433.00	318.64	321.37		321.74	0.001618	2.67	162.30	91.28	0.64	100.00
Reach 1	2666	0p5-CC-LC_BU				2.14	606.20	318.64	321.76		322.24	0.001679	3.07	197.36	93.08	0.67	100.00
Reach 1	2650	5_BU				1.53	320.00	318.67	321.06		321.36	0.001610	2.41	133.00	94.44	0.62	99.94
Reach 1	2650	1_BU				1.71	403.00	318.67	321.24		321.62	0.001756	2.71	149.44	98.47	0.66	99.81
Reach 1	2650	0p5_BU				1.77	433.00	318.67	321.30		321.71	0.001799	2.81	155.04	99.35	0.67	99.76
Reach 1	2650	0p5-CC-LC_BU				2.13	606.20	318.67	321.66		322.20	0.001892	3.26	187.85	104.90	0.71	99.39
Reach 1	2600	5_BU				1.42	320.00	318.85	321.00		321.27	0.001619	2.31	138.88	129.85	0.62	99.97
Reach 1	2600	1_BU				1.60	403.00	318.85	321.18		321.52	0.001715	2.57	157.21	135.19	0.65	99.92
Reach 1	2600	0p5_BU				1.66	433.00	318.85	321.24		321.60	0.001742	2.65	163.50	136.29	0.66	99.90
Reach 1	2600	0p5-CC-LC_BU				2.04	606.20	318.85	321.62		322.09	0.001716	3.02	201.47	155.84	0.68	99.78
Reach 1	2563	5_BU				1.29	320.00	319.01	320.89		321.20	0.002065	2.44	131.10	102.05	0.69	100.00
Reach 1	2563	1_BU				1.46	403.00	319.01	321.07		321.44	0.002151	2.70	149.22	118.27	0.71	100.00
Reach 1	2563	0p5_BU				1.52	433.00	319.01	321.13		321.53	0.002172	2.78	155.52	122.83	0.72	100.00
Reach 1	2563	0p5-CC-LC_BU				1.91	606.20	319.01	321.54		322.02	0.001948	3.07	197.28	139.18	0.71	99.99
Reach 1	2550	5_BU				1.31	320.00	318.95	320.87		321.17	0.002010	2.43	131.47	127.32	0.68	100.00
Reach 1	2550	1_BU				1.48	403.00	318.95	321.04		321.42	0.002101	2.70	149.12	138.36	0.71	99.99
Reach 1	2550	0p5_BU				1.54	433.00	318.95	321.10		321.50	0.002126	2.79	155.19	142.01	0.72	99.98
Reach 1	2550	0p5-CC-LC_BU				1.95	606.20	318.95	321.51		321.99	0.001914	3.09	196.56	167.31	0.71	99.85
Reach 1	2500	5_BU				1.32	320.00	318.86	320.77		321.07	0.001957	2.42	133.30	104.85	0.67	99.32
Reach 1	2500	1_BU				1.49	403.00	318.86	320.94		321.31	0.002062	2.69	151.14	107.71	0.70	99.03
Reach 1	2500	0p5_BU				1.55	433.00	318.86	321.00		321.39	0.002088	2.78	157.34	109.91	0.71	98.94
Reach 1	2500	0p5-CC-LC_BU				1.98	606.20	318.86	321.43		321.89	0.001792	3.03	202.81	149.69	0.69	98.32
Reach 1	2464	5_BU				1.24	328.00	318.82	320.67		320.99	0.002313	2.51	130.68	110.84	0.72	100.00
Reach 1	2464	1_BU				1.37	413.80	318.82	320.81		321.22	0.002572	2.84	145.77	116.59	0.77	99.99
Reach 1	2464	0p5_BU				1.42	445.00	318.82	320.86		321.30	0.002671	2.96	150.64	116.89	0.79	99.98
Reach 1	2464	0p5-CC-LC_BU				1.89	623.00	318.82	321.34		321.82	0.001970	3.07	203.43	135.25	0.71	99.87
Reach 1	2400	5_BU				1.14	328.00	318.95	320.55		320.83	0.002306	2.33	141.19	126.37	0.70	99.99
Reach 1	2400	1_BU				1.27	413.80	318.95	320.69		321.04	0.002575	2.62	158.57	128.45	0.74	99.94
Reach 1	2400	0p5_BU				1.31	445.00	318.95	320.73		321.11	0.002682	2.72	164.09	129.28	0.76	99.93
Reach 1	2400	0p5-CC-LC_BU				1.91	623.00	318.95	321.33		321.67	0.001575	2.60	254.36	196.55	0.60	99.07
Reach 1	2369	5_BU				0.89	328.00	318.74	320.39	320.30	320.73	0.004225	2.59	127.60	151.30	0.88	99.93
Reach 1	2369	1_BU				1.07	413.80	318.74	320.57	320.45	320.94	0.003674	2.70	155.79	154.57	0.83	99.74
Reach 1	2369	0p5_BU				1.12	445.00	318.74	320.62	320.50	321.01	0.003663	2.77	163.62	155.96	0.84	99.68
Reach 1	2369	0p5-CC-LC_BU				1.83	623.00	318.74	321.33		321.60	0.001444	2.35	288.26	232.45	0.55	98.29
Reach 1	2350	5_BU				1.05	328.00	318.43	320.41		320.64	0.002315	2.13	160.16	160.38	0.66	98.83
Reach 1	2350	1_BU				1.14	413.80	318.43	320.60		320.85	0.002258	2.25	192.84	177.23	0.67	98.50
Reach 1	2350	0p5_BU				1.20	445.00	318.43	320.65		320.92	0.002244	2.30	202.65	177.99	0.67	98.42
Reach 1	2350	0p5-CC-LC_BU				1.90	623.00	318.43	321.36		321.56	0.000959	1.99	353.43	293.10	0.46	96.83
Reach 1	2300	5_BU				1.07	328.00	317.71	320.35		320.51	0.001803	1.78	190.75	187.27	0.55	98.75
Reach 1	2300	1_BU				1.27	413.80	317.71	320.56		320.74	0.001575	1.88	229.25	189.69	0.53	98.52
Reach 1	2300	0p5_BU				1.32	445.00	317.71	320.61		320.80	0.001565	1.94	240.20	190.41	0.54	98.46
Reach 1	2300	0p5-CC-LC_BU				2.06	623.00	317.71	321.36		321.50	0.000662	1.71	414.82	331.33	0.38	97.12
Reach 1	2254	5_BU				1.04	328.00	317.67	319.85	319.85	320.34	0.006168	3.11	109.28	153.24	0.98	99.31
Reach 1	2254	1_BU				1.09	413.80	317.67	320.05	320.05	320.57	0.006361	3.23	134.33	170.39	0.99	98.65
Reach 1	2254	0p5_BU				1.16	445.00	317.67	320.19	320.11	320.65	0.005326	3.06	153.80	180.77	0.91	98.20
Reach 1	2254	0p5-CC-LC_BU				1.90	623.00	317.67	321.30		321.46	0.000982	1.87	416.87	429.81	0.43	93.75
Reach 1	2200	5_BU				0.98	328.00	317.45	319.53	319.54	320.04	0.004941	3.16	103.90	107.93	1.02	99.98
Reach 1	2200	1_BU				1.19	413.80	317.45	319.79	319.72	320.29	0.003839	3.14	132.83	114.78	0.92	99.89
Reach 1	2200	0p5_BU				1.42	445.00	317.45	320.06		320.44	0.002362	2.74	164.60	137.26	0.74	99.78
Reach 1	2200	0p5-CC-LC_BU				1.90	623.00	317.45	321.28		321.41	0.000590	1.64	485.88	444.60	0.38	93.84
Reach 1	2168	5_BU				0.81	328.00	317.62	319.29	319.38	319.85	0.007107	3.32	99.35	130.50	1.18	99.92
Reach 1	2168	1_BU				1.28	413.80	317.62	319.84		320.14	0.002056	2.42	174.00	160.21	0.68	99.56
Reach 1	2168	0p5_BU				1.47	445.00	317.62	320.11		320.34	0.001340	2.14	216.35	200.89	0.56	99.04
Reach 1	2168	0p5-CC-LC_BU				1.95	623.00	317.62	321.30		321.38	0.000323	1.27	622.21	489.61	0.29	91.69
Reach 1	2054	5_BU				1.17	328.00	317.47	319.42	318.95	319.54	0.000992	1.58	215.17	209.07	0.47	93.24
Reach 1	2054	1_BU				1.60	413.80	317.47	319.89		319.98	0.000491	1.37	322.08	246.15	0.35	90.06
Reach 1	2054	0p5_BU				1.83	445.00	317.47	320.15		320.23	0.000330	1.23	389.00	264.65	0.29	87.60
Reach 1	2054	0p5-CC-LC_BU				2.53	623.00	317.47	321.32		321.35	0.000103	0.85	813.50	414.77	0.17	77.51
Reach 1	1884	5_BU				1.76	328.00	315.75	319.08		319.34	0.001167	2.25	148.18	94.59	0.54	99.08
Reach 1	1884	1_BU				2.40	413.80	315.75	319.72		319.89	0.000540	1.88	260.50	212.16	0.39	89.42
Reach 1	1884	0p5_BU				2.72	445.00	315.75	320.05		320.17	0.000356	1.66	333.78	253.74	0.32	83.28
Reach 1	1884	0p5-CC-LC_BU				3.96	623.00	315.75	321.28		321.33	0.000105	1.16	740.48	366.60	0.19	60.50
Reach 1	1760	5_BU				2.29	328.00	315.68	318.93		319.21	0.000959	2.42	151.26	122.64	0.51	94.78
Reach 1	1760	1_BU				2.92	413.80	315.68	319.68		319.83	0.000421	1.88	284.81	212.77	0.35	78.47
Reach 1	1760	0p5_BU				3.26	445.00	315.68	320.02		320.13	0.000278	1.64	362.94	245.81	0.29	71.14
Reach 1	1760	0p5-CC-LC_BU				4.50	623.00	315.68	321.27		321.32	0.000104	1.25	682.98	271.53	0.19	53.45
Reach 1	1639	5_BU				2.24	328.00	314.98	318.93	317.49	319.09	0.000545	1.79	186.85	121.18	0.38	99.54
Reach 1	1639	1_BU				2.96	413.80	314.98	319.65	317.99	319.78	0.000326	1.67	269.30	147.29	0.31	97.18
Reach 1	1639	0p5_BU				3.28	445.00	314.98	319.97	318.08	320.10	0.000258	1.59	313.41	166.63	0.28	95.72
Reach 1	1639	0p5-CC-LC_BU				4.51	623.00	314.98	321.20	318.49	321.30	0.000154	1.52	490.86	219.49	0.23	89.66
Reach 1	1548	5_BU				2.66	328.00	314.79	318.87	317.38	319.04	0.000464	1.85	177.21	83.95	0.36	100.00
Reach 1	1548	1_BU				3.29	413.80	314.79	319.58	317.65	319.75	0.000347	1.84	225.25	98.13	0.32	99.99
Reach 1	1548	0p5_BU				3.61	445.00	314.79	319.90	317.77	320.07	0.000293	1.80	247.96	105.87	0.30	99.95
Reach 1	1548	0p5-CC-LC_BU				4.81	623.00	314.79	321.10	318.24	321.28	0.000218	1.88	338.07	175.40	0.27	99.30
Reach 1	1460	5_BU				2.02	328.00	316.31	318.84	317.89	318.99	0.000559	1.70	213.79	178.90	0.38	96.38
Reach 1	1460	1_BU				2.77	413.80	316.31	319.59	318.08	319.70	0.000289	1.51	322.14	248.68	0.29	93.03
Reach 1	1460	0p5_BU				3.11	445.00	316.31	319.93	318.15	320.02	0.000218	1.42	376.16	266.33	0.26	90.90
Reach 1	1460	0p5-CC-LC_BU				4.33	623.00	316.31	321.16	318.49	321.24	0.000120	1.31	591.46	313.61	0.20	83.90
Reach 1	1371	5_BU				1.85	328.00	315.74	318.81	317.86	318.91	0.000970	1.45	253.27	172.05	0.34	92.50
Reach 1	1371	1_BU				2.63	413.80	315.74	319.59	318.02	319.66	0.000446	1.22	407.50	220.75	0.24	87.72
Reach 1	1371	0p5_BU				2.97	445.00	315.74	319.93	318.08	319.99	0.000319	1.11	483.76	231.38	0.21	84.10
Reach 1	1371	0p5-CC-LC_BU				4.21	623.00	315.74	321.17	318.38	321.21	0.000156	0.97	785.64	341.16	0.15	74.18
Reach 1	1226	5_BU				2.20	328.00	315.18	318.65	317.48	318.77	0.000940	1.58	224.47	124.53	0.34	96.91
Reach 1	1226	1_BU				3.06	413.80	315.18	319.50	317.71	319.59	0.000475	1.37	381.73	218.03	0.25	92.52
Reach 1	1226	0p5_BU				3.42	445.00	315.18	319.86	317.78	319.94	0.000353	1.27	463.56	228.92	0.22	89.01
Reach 1	1226	0p5-CC-LC_BU				4.69	623.00	315.18	321.13	318.14	321.18	0.000193	1.14	770.17	329.62	0.17	78.60
Reach 1	1171	5_BU				2.44	328.00	314.92	318.63	317.20	318.72	0.000593	1.34	302.91	192.44	0.27	92.28
Reach 1	1171	1_BU				3.31	413.80	314.92	319.50	317.44	319.56	0.000296	1.14	501.93	271.23	0.20	84.71
Reach 1	1171	0p5_BU				3.67	445.00	314.92	319.86	317.51	319.91	0.000231	1.08	601.45	278.50	0.18	82.42
Reach 1	1171	0p5-CC-LC_BU				4.94	623.00	314.92	321.13	317.89	321.17	0.000126	0.96	1001.73	369.12	0.14	70.90
Reach 1	1060	5_BU				2.97	328.00	314.65	318.60	316.72	318.66	0.000356	1.17	348.30	210.07	0.22	93.21
Reach 1	1060	1_BU				3.85	413.80	314.65	319.48	316.92	319.53	0.000197	1.04	572.12	330.75	0.17	85.08
Reach 1	1060	0p5_BU				4.22	445.00	314.65	319.85	316.99	319.89	0.000154	0.97	696.52	341.21	0.15	81.43
Reach 1	1060	0p5-CC-LC_BU				5.50	623.00	314.65	321.12	317.35	321.16	0.000093	0.90	1135.77	347.36	0.12	70.10

HEC-RAS Plan: KR_Jam_23700 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	964	5_BU				2.76	328.00	314.83	318.59	316.49	318.63	0.000229	0.89	445.60	284.73	0.17	94.36
Reach 1	964	1_BU				3.66	413.80	314.83	319.48	316.71	319.51	0.000121	0.78	719.47	317.08	0.13	86.67
Reach 1	964	0p5_BU				4.03	445.00	314.83	319.85	316.78	319.87	0.000095	0.74	837.53	326.13	0.12	83.84
Reach 1	964	0p5-CC-LC_BU				5.30	623.00	314.83	321.12	317.15	321.15	0.000062	0.72	1266.49	375.70	0.10	76.63
Reach 1	856	5_BU				2.74	328.00	314.15	318.58	316.32	318.60	0.000164	0.75	563.50	317.43	0.14	86.98
Reach 1	856	1_BU				3.65	413.80	314.15	319.48	316.51	319.50	0.000088	0.66	865.55	387.73	0.11	81.32
Reach 1	856	0p5_BU				4.01	445.00	314.15	319.85	316.58	319.86	0.000070	0.63	993.31	392.91	0.10	78.84
Reach 1	856	0p5-CC-LC_BU				5.29	623.00	314.15	321.12	316.90	321.14	0.000046	0.62	1443.68	438.41	0.09	72.84
Reach 1	746	5_BU				3.12	328.00	313.89	318.57	316.13	318.59	0.000082	0.58	716.97	434.89	0.10	92.69
Reach 1	746	1_BU				4.02	413.80	313.89	319.48	316.27	319.49	0.000046	0.51	1118.86	566.57	0.08	84.21
Reach 1	746	0p5_BU				4.39	445.00	313.89	319.85	316.31	319.86	0.000037	0.49	1288.74	601.50	0.07	81.46
Reach 1	746	0p5-CC-LC_BU				5.67	623.00	313.89	321.12	316.55	321.13	0.000026	0.48	1892.63	664.17	0.06	74.24
Reach 1	638	5_BU				3.16	328.00	313.68	318.57	315.88	318.58	0.000060	0.50	773.57	484.53	0.09	95.79
Reach 1	638	1_BU				4.07	413.80	313.68	319.47	316.05	319.48	0.000035	0.45	1245.00	705.98	0.07	88.42
Reach 1	638	0p5_BU				4.44	445.00	313.68	319.84	316.11	319.85	0.000028	0.43	1450.27	759.64	0.07	85.75
Reach 1	638	0p5-CC-LC_BU				5.72	623.00	313.68	321.12	316.40	321.13	0.000019	0.42	2180.02	873.57	0.06	77.42

HEC-RAS Plan: KR_Jam_25700 River: Klondike River Reach: Reach 1

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	58149	5_BU				0.60	211.80	457.19	459.11	458.78	459.18	0.003960	1.28	176.98	311.40	0.53	69.92
Reach 1	58149	1_BU				0.62	258.70	457.19	459.21	458.88	459.29	0.003968	1.31	209.35	358.41	0.53	68.61
Reach 1	58149	0p5_BU				0.63	274.10	457.19	459.23	458.92	459.31	0.003967	1.34	218.21	365.59	0.54	68.59
Reach 1	58149	0p5-CC-LC_BU				0.78	383.70	457.19	459.40	459.08	459.50	0.003748	1.50	283.35	422.35	0.54	69.68
Reach 1	57145	5_BU				1.56	211.80	454.28	457.10		457.15	0.001219	1.40	307.38	553.20	0.36	51.15
Reach 1	57145	1_BU				1.67	258.70	454.28	457.21		457.26	0.001207	1.46	371.49	616.50	0.36	46.72
Reach 1	57145	0p5_BU				1.70	274.10	454.28	457.24		457.30	0.001201	1.48	392.42	637.56	0.36	45.45
Reach 1	57145	0p5-CC-LC_BU				1.89	383.70	454.28	457.43	456.97	457.49	0.001229	1.60	523.14	758.51	0.37	39.14
Reach 1	56479	5_BU				1.05	240.10	453.12	455.47	455.09	455.51	0.005101	1.12	306.13	656.22	0.35	32.50
Reach 1	56479	1_BU				1.11	296.00	453.12	455.54	455.20	455.58	0.005627	1.22	349.22	708.62	0.37	30.50
Reach 1	56479	0p5_BU				1.13	314.90	453.12	455.55	455.23	455.60	0.005788	1.26	362.46	723.99	0.38	29.88
Reach 1	56479	0p5-CC-LC_BU				1.25	440.90	453.12	455.68	455.34	455.74	0.006242	1.40	463.40	836.79	0.40	26.46
Reach 1	56103	5_BU				1.35	240.10	452.81	454.88	454.59	454.92	0.001233	1.30	480.43	1110.99	0.36	43.21
Reach 1	56103	1_BU				1.48	296.00	452.81	455.00	454.65	455.04	0.001075	1.28	619.04	1250.15	0.34	37.86
Reach 1	56103	0p5_BU				1.51	314.90	452.81	455.04	454.68	455.07	0.001035	1.28	660.65	1276.27	0.33	36.31
Reach 1	56103	0p5-CC-LC_BU				1.72	440.90	452.81	455.25	454.80	455.28	0.000857	1.27	929.03	1384.61	0.31	29.36
Reach 1	54315	5_BU				1.45	240.10	449.60	451.73	451.23	451.91	0.002405	2.04	149.24	151.29	0.54	82.29
Reach 1	54315	1_BU				1.56	296.00	449.60	451.85	451.42	452.08	0.002828	2.28	169.94	189.14	0.58	80.99
Reach 1	54315	0p5_BU				1.60	314.90	449.60	451.89	451.48	452.13	0.002970	2.36	177.13	201.14	0.60	80.66
Reach 1	54315	0p5-CC-LC_BU				1.79	440.90	449.60	452.08	451.78	452.41	0.003875	2.83	223.56	333.53	0.68	77.50
Reach 1	53429	5_BU				1.05	240.10	446.75	449.04	448.76	449.17	0.004087	1.81	160.79	290.59	0.56	64.39
Reach 1	53429	1_BU				1.23	296.00	446.75	449.22	448.87	449.34	0.003287	1.78	219.19	358.12	0.51	60.40
Reach 1	53429	0p5_BU				1.28	314.90	446.75	449.27	448.91	449.39	0.003094	1.78	239.73	373.58	0.50	59.14
Reach 1	53429	0p5-CC-LC_BU				1.57	440.90	446.75	449.61	449.12	449.71	0.002282	1.71	378.63	448.34	0.44	51.57
Reach 1	52840	5_BU				1.89	240.10	445.50	448.33		448.40	0.000706	1.22	225.51	161.57	0.28	91.14
Reach 1	52840	1_BU				2.09	296.00	445.50	448.53		448.61	0.000743	1.34	258.72	170.72	0.30	89.43
Reach 1	52840	0p5_BU				2.15	314.90	445.50	448.59		448.67	0.000755	1.38	269.27	175.04	0.30	88.94
Reach 1	52840	0p5-CC-LC_BU				2.49	440.90	445.50	448.93		449.05	0.000850	1.61	332.21	197.46	0.33	86.24
Reach 1	52279	5_BU				1.55	240.10	445.07	447.57		447.74	0.002219	1.90	140.01	174.63	0.49	97.07
Reach 1	52279	1_BU				1.71	296.00	445.07	447.73		447.93	0.002266	2.05	171.53	236.34	0.50	93.97
Reach 1	52279	0p5_BU				1.76	314.90	445.07	447.78		447.99	0.002290	2.10	182.03	249.32	0.51	92.95
Reach 1	52279	0p5-CC-LC_BU				2.03	440.90	445.07	448.05		448.29	0.002398	2.36	259.18	435.16	0.53	86.14
Reach 1	50899	5_BU				1.15	290.80	441.51	444.17		444.28	0.002637	1.69	262.99	378.00	0.50	75.78
Reach 1	50899	1_BU				1.25	363.60	441.51	444.31		444.43	0.002606	1.77	317.75	413.08	0.51	71.67
Reach 1	50899	0p5_BU				1.29	389.40	441.51	444.35		444.47	0.002582	1.81	336.60	423.60	0.51	70.54
Reach 1	50899	0p5-CC-LC_BU				1.50	545.10	441.51	444.60		444.73	0.002497	1.97	452.29	539.39	0.51	65.49
Reach 1	50334	5_BU				1.02	290.80	440.40	442.61		442.73	0.002914	1.65	216.07	310.43	0.52	89.27
Reach 1	50334	1_BU				1.14	363.60	440.40	442.73		442.88	0.002951	1.79	257.36	333.37	0.53	87.44
Reach 1	50334	0p5_BU				1.18	389.40	440.40	442.77		442.93	0.002979	1.84	271.26	347.22	0.54	86.94
Reach 1	50334	0p5-CC-LC_BU				1.41	545.10	440.40	443.00		443.19	0.003073	2.10	356.59	431.66	0.56	84.15
Reach 1	49973	5_BU				0.95	290.80	439.55	441.75	441.29	441.84	0.002227	1.37	233.64	298.17	0.45	92.65
Reach 1	49973	1_BU				1.06	363.60	439.55	441.89	441.47	441.99	0.002209	1.47	275.80	315.71	0.46	91.24
Reach 1	49973	0p5_BU				1.11	389.40	439.55	441.93	441.50	442.04	0.002190	1.51	289.92	320.11	0.46	90.82
Reach 1	49973	0p5-CC-LC_BU				1.35	545.10	439.55	442.17	441.67	442.30	0.002137	1.70	371.89	372.72	0.47	88.82
Reach 1	49383	5_BU				1.08	290.80	437.54	440.17		440.29	0.002869	1.69	199.86	221.20	0.52	73.70
Reach 1	49383	1_BU				1.22	363.60	437.54	440.35		440.48	0.002705	1.78	241.99	244.73	0.51	72.61
Reach 1	49383	0p5_BU				1.25	389.40	437.54	440.41		440.55	0.002671	1.80	257.13	255.51	0.51	72.07
Reach 1	49383	0p5-CC-LC_BU				1.47	545.10	437.54	440.73		440.88	0.002472	1.92	355.69	365.82	0.51	69.86
Reach 1	49175	5_BU				1.05	290.80	437.30	439.65		439.78	0.001867	1.56	187.04	181.06	0.48	99.97
Reach 1	49175	1_BU				1.14	363.60	437.30	439.86		439.99	0.001806	1.61	226.96	208.03	0.48	99.86
Reach 1	49175	0p5_BU				1.17	389.40	437.30	439.93		440.06	0.001806	1.63	240.54	220.70	0.48	99.82
Reach 1	49175	0p5-CC-LC_BU				1.45	545.10	437.30	440.27		440.42	0.001764	1.74	324.90	263.71	0.46	99.05
Reach 1	49000	5_BU				1.18	290.80	436.74	439.25		439.40	0.002557	1.69	178.29	167.36	0.50	97.96
Reach 1	49000	1_BU				1.28	363.60	436.74	439.48		439.63	0.002432	1.75	219.88	196.73	0.49	97.18
Reach 1	49000	0p5_BU				1.33	389.40	436.74	439.55		439.70	0.002354	1.77	233.67	201.66	0.49	96.85
Reach 1	49000	0p5-CC-LC_BU				1.66	545.10	436.74	439.92		440.09	0.002001	1.89	315.20	239.18	0.47	95.08
Reach 1	48700	5_BU				1.35	290.80	435.90	438.75		438.85	0.001302	1.42	205.87	172.61	0.39	99.96
Reach 1	48700	1_BU				1.58	363.60	435.90	438.98		439.09	0.001309	1.51	241.68	181.33	0.38	99.84
Reach 1	48700	0p5_BU				1.65	389.40	435.90	439.05		439.17	0.001316	1.55	253.42	187.02	0.38	99.78
Reach 1	48700	0p5-CC-LC_BU				2.04	545.10	435.90	439.44		439.60	0.001365	1.74	320.13	249.20	0.39	99.16
Reach 1	48530	5_BU				1.59	290.80	435.46	438.32	437.75	438.54	0.002629	2.09	150.63	142.57	0.53	98.38
Reach 1	48530	1_BU				1.78	363.60	435.46	438.51	437.93	438.77	0.002700	2.28	180.97	168.63	0.55	96.73
Reach 1	48530	0p5_BU				1.85	389.40	435.46	438.58	437.99	438.85	0.002716	2.35	192.06	179.12	0.55	96.07
Reach 1	48530	0p5-CC-LC_BU				2.20	545.10	435.46	438.93	438.40	439.26	0.002704	2.63	266.40	241.42	0.57	91.85
Reach 1	48400	5_BU				1.46	290.80	435.59	438.01		438.20	0.002423	1.95	172.86	184.61	0.52	95.64
Reach 1	48400	1_BU				1.66	363.60	435.59	438.22		438.43	0.002378	2.10	213.74	214.62	0.52	93.57
Reach 1	48400	0p5_BU				1.73	389.40	435.59	438.29		438.50	0.002345	2.13	228.98	222.76	0.52	92.66
Reach 1	48400	0p5-CC-LC_BU				2.12	545.10	435.59	438.68		438.92	0.002109	2.30	327.11	289.27	0.50	87.41
Reach 1	48250	5_BU				1.37	290.80	435.03	437.51		437.76	0.003482	2.20	140.07	144.73	0.60	98.84
Reach 1	48250	1_BU				1.64	363.60	435.03	437.78		438.03	0.002897	2.25	181.47	171.22	0.56	96.52
Reach 1	48250	0p5_BU				1.73	389.40	435.03	437.87		438.12	0.002720	2.26	198.18	198.67	0.55	95.52
Reach 1	48250	0p5-CC-LC_BU				2.23	545.10	435.03	438.37		438.61	0.001971	2.28	312.05	249.54	0.49	88.82
Reach 1	48100	5_BU				1.61	290.80	434.27	437.19		437.36	0.001910	1.85	156.94	97.43	0.47	100.00
Reach 1	48100	1_BU				1.85	363.60	434.27	437.48		437.68	0.001763	1.95	186.56	100.80	0.46	100.00
Reach 1	48100	0p5_BU				1.93	389.40	434.27	437.58		437.78	0.001735	1.98	196.44	101.88	0.46	100.00
Reach 1	48100	0p5-CC-LC_BU				2.36	545.10	434.27	438.10		438.34	0.001592	2.17	250.81	107.83	0.45	99.99
Reach 1	48010	5_BU				1.94	290.80	433.89	436.99		437.19	0.001805	1.98	147.16	75.94	0.45	100.00
Reach 1	48010	1_BU				2.11	363.60	433.89	437.27		437.51	0.001956	2.15	168.83	79.84	0.47	100.00
Reach 1	48010	0p5_BU				2.19	389.40	433.89	437.36		437.61	0.001990	2.21	176.10	80.43	0.48	100.00
Reach 1	48010	0p5-CC-LC_BU				2.60	545.10	433.89	437.84		438.17	0.002150	2.53	215.66	83.57	0.50	100.00
Reach 1	47901	5_BU				2.30	290.80	433.20	436.85		437.02	0.001211	1.82	160.01	70.67	0.38	99.98
Reach 1	47901	1_BU				2.56	363.60	433.20	437.11		437.32	0.001325	2.04	178.42	71.58	0.41	99.93
Reach 1	47901	0p5_BU				2.64	389.40	433.20	437.20		437.42	0.001362	2.12	184.49	71.88	0.42	99.91
Reach 1	47901	0p5-CC-LC_BU				3.08	545.10	433.20	437.64		437.97	0.001583	2.53	216.81	73.45	0.46	99.72
Reach 1	47790	5_BU				2.18	290.80	433.56	436.76		436.88	0.001084	1.58	184.27	84.47	0.34	100.00
Reach 1	47790	1_BU				2.40	363.60	433.56	437.01		437.17	0.001214	1.77	205.87	85.91	0.36	100.00
Reach 1	47790	0p5_BU				2.47	389.40	433.56	437.09		437.26	0.001259	1.83	213.03	86.41	0.37	100.00
Reach 1	47790	0p5-CC-LC_BU				2.85	545.10	433.56	437.53		437.77	0.001494	2.17	251.40	88.35	0.41	100.00
Reach 1	47700	5_BU				1.92	290.80	433.03	436.61	435.48	436.77	0.001328	1.76	165.54	86.19	0.40	100.00
Reach 1	47700	1_BU				2.11	363.60	433.03	436.85	435.72	437.05	0.001455	1.95	186.14	88.07	0.43	100.00
Reach 1	47700	0p5_BU				2.18	389.40	433.03	436.93	435.81	437.14	0.001492	2.02	192.98	88.50	0.44	100.00
Reach 1	47700	0p5-CC-LC_BU				2.53	545.10	433.03	437.33	436.23	437.62	0.001722	2.38	229.29	90.52	0.48	100.00
Reach 1	47550	5_BU				1.58	290.80	433.60	436.34	435.62	436.52	0.002061	1.91	152.11	96.52	0.49	100.00
Reach 1	47550	1_BU				1.72	363.60	433.60	436.56	435.82	436.78	0.002155	2.09	173.91	100.94	0.51	100.00
Reach 1	47550	0p5_BU				1.77	389.40	433.60	436.63	435.88	436.86	0.002193	2.15	181.26	102.69	0.52	100.00
Reach 1	47550	0p5-CC-LC_BU				2.09	545.10	433.60	437.02	436.23	437.32	0.002326	2.45	223.79	114.98	0.54	99.91
Reach 1	47390	5_BU				1.63	290.80	434.08	436.11		436.23	0.001427	1.59	183.42	114.36	0.40	99.99
Reach 1	47390	1_BU				1.81	363.60	434.08	436.31		436.47	0.001529	1.76	207.47	116.78	0.42	99.96

HEC-RAS Plan: KR_Jam_25700 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	47390	0p5_BU				1.88	389.40	434.08	436.38		436.55	0.001561	1.81	215.49	117.95	0.42	99.95
Reach 1	47390	0p5-CC-LC_BU				2.24	545.10	434.08	436.75		436.98	0.001728	2.12	262.25	146.18	0.45	99.77
Reach 1	47300	5_BU				1.43	290.80	433.73	435.91		436.04	0.003485	1.62	179.96	125.61	0.43	100.00
Reach 1	47300	1_BU				1.63	363.60	433.73	436.11		436.27	0.003540	1.77	205.35	126.98	0.44	100.00
Reach 1	47300	0p5_BU				1.70	389.40	433.73	436.18		436.35	0.003556	1.82	213.76	127.58	0.45	99.99
Reach 1	47300	0p5-CC-LC_BU				2.05	545.10	433.73	436.53		436.76	0.003671	2.10	262.15	152.05	0.47	99.82
Reach 1	47150	5_BU				1.40	290.80	433.25	435.27		435.51	0.003443	2.23	149.59	144.87	0.60	94.89
Reach 1	47150	1_BU				1.61	363.60	433.25	435.48		435.75	0.003273	2.38	181.09	159.22	0.60	93.06
Reach 1	47150	0p5_BU				1.68	389.40	433.25	435.55		435.82	0.003222	2.43	192.33	165.15	0.60	92.45
Reach 1	47150	0p5-CC-LC_BU				2.05	545.10	433.25	435.91		436.25	0.003043	2.69	254.56	171.80	0.60	89.19
Reach 1	47000	5_BU				1.44	290.80	432.80	434.82		435.03	0.002826	2.04	149.81	122.95	0.54	98.23
Reach 1	47000	1_BU				1.64	363.60	432.80	435.05		435.29	0.002727	2.19	180.18	148.20	0.55	97.62
Reach 1	47000	0p5_BU				1.70	389.40	432.80	435.12		435.37	0.002716	2.24	191.08	153.99	0.55	97.29
Reach 1	47000	0p5-CC-LC_BU				2.07	545.10	432.80	435.52		435.82	0.002545	2.46	261.54	207.74	0.55	94.50
Reach 1	46850	5_BU				1.56	290.80	432.38	434.53		434.68	0.001816	1.75	174.99	123.07	0.45	97.58
Reach 1	46850	1_BU				1.78	363.60	432.38	434.77		434.94	0.001776	1.88	207.02	144.02	0.45	96.91
Reach 1	46850	0p5_BU				1.85	389.40	432.38	434.84		435.03	0.001767	1.93	218.18	151.02	0.45	96.64
Reach 1	46850	0p5-CC-LC_BU				2.27	545.10	432.38	435.26		435.49	0.001717	2.16	285.75	186.50	0.46	94.81
Reach 1	46700	5_BU				1.60	290.80	431.90	434.11	433.60	434.34	0.002740	2.15	147.10	175.94	0.54	96.00
Reach 1	46700	1_BU				1.77	363.60	431.90	434.34	433.77	434.60	0.002809	2.35	172.41	193.28	0.56	95.38
Reach 1	46700	0p5_BU				1.83	389.40	431.90	434.41	433.84	434.69	0.002806	2.41	181.30	199.81	0.57	95.03
Reach 1	46700	0p5-CC-LC_BU				2.23	545.10	431.90	434.80	434.14	435.15	0.002759	2.71	237.42	254.43	0.58	92.86
Reach 1	46513	5_BU				1.49	290.80	431.49	433.78	433.15	433.97	0.002342	1.91	154.98	120.66	0.50	99.67
Reach 1	46513	1_BU				1.67	363.60	431.49	434.00	433.33	434.22	0.002396	2.06	186.00	172.97	0.51	98.93
Reach 1	46513	0p5_BU				1.73	389.40	431.49	434.08	433.39	434.30	0.002390	2.11	198.88	186.15	0.51	98.50
Reach 1	46513	0p5-CC-LC_BU				2.09	545.10	431.49	434.52	433.73	434.77	0.002211	2.25	283.52	260.90	0.50	95.03
Reach 1	46503		Bridge														
Reach 1	46441	5_BU				1.62	290.80	431.25	433.57		433.76	0.002123	1.92	152.77	112.65	0.48	99.91
Reach 1	46441	1_BU				1.80	363.60	431.25	433.76		433.99	0.002298	2.14	176.62	141.74	0.51	99.31
Reach 1	46441	0p5_BU				1.86	389.40	431.25	433.82		434.07	0.002333	2.20	185.89	152.34	0.52	98.96
Reach 1	46441	0p5-CC-LC_BU				2.23	545.10	431.25	434.19		434.50	0.002366	2.50	251.16	236.92	0.53	95.98
Reach 1	46352	5_BU				1.16	290.80	430.67	432.98		433.26	0.005055	2.36	125.55	123.56	0.70	99.72
Reach 1	46352	1_BU				1.41	363.60	430.67	433.24		433.53	0.004007	2.38	159.15	131.58	0.64	98.94
Reach 1	46352	0p5_BU				1.49	389.40	430.67	433.33		433.61	0.003769	2.40	170.51	134.16	0.63	98.63
Reach 1	46352	0p5-CC-LC_BU				1.94	545.10	430.67	433.79		434.10	0.002896	2.51	238.20	154.35	0.57	96.94
Reach 1	46300	5_BU				1.70	290.80	430.65	432.93		433.08	0.001583	1.71	171.70	119.01	0.42	99.96
Reach 1	46300	1_BU				1.95	363.60	430.65	433.20		433.37	0.001518	1.83	206.94	140.81	0.42	99.34
Reach 1	46300	0p5_BU				2.04	389.40	430.65	433.29		433.46	0.001499	1.87	219.22	142.63	0.42	99.01
Reach 1	46300	0p5-CC-LC_BU				2.49	545.10	430.65	433.75		433.97	0.001428	2.09	287.14	149.14	0.42	97.10
Reach 1	46250	5_BU				1.74	290.80	430.61	432.83		433.00	0.001752	1.82	162.34	105.55	0.44	99.46
Reach 1	46250	1_BU				1.96	363.60	430.61	433.09		433.29	0.001720	1.96	191.40	114.61	0.45	98.65
Reach 1	46250	0p5_BU				2.04	389.40	430.61	433.18		433.38	0.001708	2.00	201.68	122.56	0.45	98.27
Reach 1	46250	0p5-CC-LC_BU				2.51	545.10	430.61	433.65		433.89	0.001595	2.22	261.33	132.53	0.45	95.76
Reach 1	46200	5_BU				1.66	290.80	430.41	432.71		432.90	0.002058	1.92	151.52	91.32	0.48	100.00
Reach 1	46200	1_BU				1.87	363.60	430.41	432.97		433.19	0.002034	2.07	176.33	98.68	0.48	99.95
Reach 1	46200	0p5_BU				1.96	389.40	430.41	433.06		433.29	0.002013	2.12	184.72	100.57	0.48	99.91
Reach 1	46200	0p5-CC-LC_BU				2.41	545.10	430.41	433.51		433.80	0.001946	2.39	235.66	123.76	0.49	99.29
Reach 1	46150	5_BU				1.92	290.80	430.24	432.65		432.81	0.001435	1.74	167.12	89.21	0.40	100.00
Reach 1	46150	1_BU				2.14	363.60	430.24	432.91		433.10	0.001548	1.92	190.29	92.40	0.42	99.95
Reach 1	46150	0p5_BU				2.22	389.40	430.24	432.99		433.19	0.001576	1.98	197.99	93.26	0.42	99.92
Reach 1	46150	0p5-CC-LC_BU				2.62	545.10	430.24	433.44		433.70	0.001723	2.29	242.39	116.91	0.45	99.66
Reach 1	46100	5_BU				1.91	290.80	430.02	432.55		432.73	0.001621	1.87	157.14	85.31	0.43	99.80
Reach 1	46100	1_BU				2.13	363.60	430.02	432.79		433.01	0.001711	2.07	177.99	87.33	0.45	99.69
Reach 1	46100	0p5_BU				2.21	389.40	430.02	432.87		433.10	0.001743	2.13	184.96	93.22	0.46	99.65
Reach 1	46100	0p5-CC-LC_BU				2.64	545.10	430.02	433.30		433.61	0.001859	2.48	239.16	152.57	0.49	98.73
Reach 1	46050	5_BU				1.54	290.80	429.81	432.31		432.60	0.003475	2.38	122.09	81.49	0.61	99.99
Reach 1	46050	1_BU				1.71	363.60	429.81	432.54		432.88	0.003482	2.60	140.55	87.79	0.63	99.92
Reach 1	46050	0p5_BU				1.78	389.40	429.81	432.61		432.97	0.003491	2.67	147.05	91.22	0.64	99.88
Reach 1	46050	0p5-CC-LC_BU				2.14	545.10	429.81	433.01		433.47	0.003473	3.02	190.52	130.22	0.66	99.14
Reach 1	46000	5_BU				1.68	290.80	429.73	432.16		432.44	0.002966	2.33	124.90	74.15	0.57	100.00
Reach 1	46000	1_BU				1.84	363.60	429.73	432.37		432.71	0.003250	2.59	140.85	82.12	0.61	99.99
Reach 1	46000	0p5_BU				1.87	389.40	429.73	432.44		432.80	0.003310	2.67	146.60	88.32	0.62	99.96
Reach 1	46000	0p5-CC-LC_BU				2.22	545.10	429.73	432.81		433.29	0.003592	3.10	184.94	118.94	0.66	99.27
Reach 1	45950	5_BU				1.55	290.80	429.64	432.02		432.28	0.003117	2.26	128.54	82.74	0.58	100.00
Reach 1	45950	1_BU				1.64	363.60	429.64	432.22		432.54	0.003252	2.49	145.75	88.90	0.62	100.00
Reach 1	45950	0p5_BU				1.65	389.40	429.64	432.29		432.63	0.003282	2.56	152.02	91.87	0.64	100.00
Reach 1	45950	0p5-CC-LC_BU				1.60	545.10	429.64	432.68		433.10	0.003370	2.85	192.07	124.34	0.72	99.93
Reach 1	45850	5_BU				1.50	290.80	429.47	431.81		431.99	0.002311	1.90	153.96	111.86	0.50	99.95
Reach 1	45850	1_BU				1.69	363.60	429.47	432.02		432.24	0.002353	2.08	177.77	114.68	0.51	99.74
Reach 1	45850	0p5_BU				1.75	389.40	429.47	432.09		432.32	0.002360	2.13	186.04	116.16	0.51	99.65
Reach 1	45850	0p5-CC-LC_BU				1.99	545.10	429.47	432.49		432.78	0.002380	2.40	235.92	142.88	0.54	99.02
Reach 1	45750	5_BU				1.30	290.80	429.31	431.53		431.73	0.002962	1.96	148.56	114.20	0.55	100.00
Reach 1	45750	1_BU				1.50	363.60	429.31	431.76		431.98	0.002758	2.08	174.90	118.27	0.54	99.99
Reach 1	45750	0p5_BU				1.57	389.40	429.31	431.84		432.07	0.002700	2.12	184.04	120.04	0.54	99.98
Reach 1	45750	0p5-CC-LC_BU				1.94	545.10	429.31	432.25		432.53	0.002553	2.34	235.28	128.54	0.54	99.81
Reach 1	45600	5_BU				1.58	290.80	429.06	431.22		431.38	0.001809	1.75	166.35	105.02	0.44	100.00
Reach 1	45600	1_BU				1.79	363.60	429.06	431.45		431.64	0.001821	1.90	191.18	106.84	0.45	100.00
Reach 1	45600	0p5_BU				1.86	389.40	429.06	431.53		431.73	0.001823	1.95	199.63	107.45	0.46	100.00
Reach 1	45600	0p5-CC-LC_BU				2.18	545.10	429.06	431.93		432.19	0.001938	2.24	244.75	126.33	0.48	99.96
Reach 1	45400	5_BU				1.61	290.80	428.84	430.87		431.02	0.001698	1.71	170.86	115.10	0.43	99.90
Reach 1	45400	1_BU				1.83	363.60	428.84	431.11		431.28	0.001712	1.87	199.12	127.95	0.44	99.65
Reach 1	45400	0p5_BU				1.90	389.40	428.84	431.19		431.37	0.001700	1.91	209.63	132.14	0.44	99.49
Reach 1	45400	0p5-CC-LC_BU				2.26	545.10	428.84	431.57		431.81	0.001794	2.20	266.80	189.94	0.47	98.44
Reach 1	45200	5_BU				1.43	290.80	428.38	430.32		430.56	0.003209	2.18	135.45	102.76	0.58	99.76
Reach 1	45200	1_BU				1.61	363.60	428.38	430.54		430.82	0.003161	2.34	160.71	124.93	0.59	99.35
Reach 1	45200	0p5_BU				1.64	389.40	428.38	430.62		430.91	0.003214	2.38	170.77	134.50	0.59	99.19
Reach 1	45200	0p5-CC-LC_BU				1.96	545.10	428.38	430.99		431.34	0.003119	2.65	237.52	239.32	0.60	97.07
Reach 1	44985	5_BU				1.65	290.80	426.86	429.87		430.03	0.001765	1.77	165.94	114.91	0.44	99.87
Reach 1	44985	1_BU				1.88	363.60	426.86	430.10		430.29	0.001774	1.93	195.49	146.29	0.45	99.38
Reach 1	44985	0p5_BU				1.96	389.40	426.86	430.18		430.38	0.001781	1.99	206.80	162.46	0.45	99.07
Reach 1	44985	0p5-CC-LC_BU				2.34	545.10	426.86	430.56		430.81	0.001812	2.26	286.27	262.27	0.47	96.09
Reach 1	43733	5_BU				1.24	290.80	424.63	427.09		427.26	0.002842	1.85	167.20	154.71	0.53	91.67
Reach 1	43733	1_BU				1.33	363.60	424.63	427.24		427.44	0.002997	2.04	192.56	183.99	0.57	91.08
Reach 1	43733	0p5_BU				1.38	389.40	424.63	427.29		427.50	0.003027	2.10	202.47	195.79	0.57	90.86
Reach 1	43733	0p5-CC-LC_BU				1.64	545.10	424.63	427.56		427.82	0.003218	2.40	261.79	257.03	0.60	88.39
Reach 1	42697	5_BU				1.45	290.80	421.83	425.04	424.42	425.14	0.001612	1.54	289.57	457.65	0.41	77.28
Reach 1	42697	1_BU				1.58	363.60	421.83	425.17	424.76	425.27	0.001628	1.64	352.98	510.00	0.42	71.77

HEC-RAS Plan: KR_Jam_25700 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	42697	0p5_BU				1.62	389.40	421.83	425.21	424.81	425.32	0.001648	1.68	373.47	523.07	0.42	70.25
Reach 1	42697	0p5-CC-LC_BU				1.83	545.10	421.83	425.42	425.03	425.54	0.001731	1.86	487.42	580.10	0.44	62.80
Reach 1	41323	5_BU				0.87	290.80	419.47	421.45		421.64	0.004579	1.95	149.51	170.95	0.66	100.00
Reach 1	41323	1_BU				0.94	363.60	419.47	421.63		421.83	0.004330	1.99	183.53	214.64	0.65	99.96
Reach 1	41323	0p5_BU				0.98	389.40	419.47	421.69		421.90	0.004169	1.99	198.57	264.10	0.64	99.83
Reach 1	41323	0p5-CC-LC_BU				1.08	545.10	419.47	422.01		422.20	0.003660	1.98	308.47	435.93	0.61	95.73
Reach 1	40285	5_BU				1.48	290.80	416.85	419.58		419.62	0.001019	1.23	364.00	463.45	0.32	42.98
Reach 1	40285	1_BU				1.61	363.60	416.85	419.71		419.77	0.001082	1.35	436.90	572.89	0.34	41.14
Reach 1	40285	0p5_BU				1.66	389.40	416.85	419.76		419.81	0.001117	1.40	463.34	605.72	0.35	40.85
Reach 1	40285	0p5-CC-LC_BU				1.86	545.10	416.85	419.96		420.02	0.001281	1.61	590.93	671.87	0.38	37.73
Reach 1	39051	5_BU				0.78	290.80	414.48	417.40		417.47	0.005561	1.25	271.84	600.83	0.45	81.24
Reach 1	39051	1_BU				0.81	363.60	414.48	417.53		417.59	0.005291	1.21	362.97	757.27	0.43	74.59
Reach 1	39051	0p5_BU				0.84	389.40	414.48	417.57		417.63	0.005082	1.21	390.87	792.72	0.42	72.93
Reach 1	39051	0p5-CC-LC_BU				1.01	545.10	414.48	417.76		417.82	0.004222	1.24	561.04	981.88	0.39	65.70
Reach 1	38622	5_BU				0.85	290.80	413.89	416.80		416.82	0.000728	0.71	516.75	959.14	0.25	85.48
Reach 1	38622	1_BU				0.96	363.60	413.89	416.92		416.95	0.000767	0.75	634.79	1138.44	0.24	82.78
Reach 1	38622	0p5_BU				0.99	389.40	413.89	416.96		416.99	0.000780	0.76	674.47	1183.00	0.24	81.85
Reach 1	38622	0p5-CC-LC_BU				1.18	545.10	413.89	417.15		417.18	0.000881	0.85	880.71	1364.67	0.25	77.47
Reach 1	38155	5_BU				1.50	290.80	413.94	415.97	415.74	416.22	0.003668	2.39	195.91	409.83	0.62	85.16
Reach 1	38155	1_BU				1.70	363.60	413.94	416.18	416.00	416.40	0.003031	2.35	297.89	589.59	0.58	76.21
Reach 1	38155	0p5_BU				1.76	389.40	413.94	416.25	416.06	416.45	0.002842	2.33	339.06	658.08	0.56	73.34
Reach 1	38155	0p5-CC-LC_BU				2.07	545.10	413.94	416.57		416.72	0.002045	2.20	577.66	923.21	0.49	58.56
Reach 1	37333	5_BU				1.97	290.80	411.14	413.98		414.18	0.001838	2.03	162.39	147.21	0.46	97.40
Reach 1	37333	1_BU				2.14	363.60	411.14	414.16		414.41	0.002097	2.29	193.70	206.09	0.50	95.78
Reach 1	37333	0p5_BU				2.19	389.40	411.14	414.21		414.48	0.002200	2.38	204.03	216.08	0.51	95.12
Reach 1	37333	0p5-CC-LC_BU				2.42	545.10	411.14	414.43	413.86	414.83	0.002893	2.91	260.90	288.77	0.60	91.88
Reach 1	36316	5_BU				1.61	290.80	409.47	411.96	411.57	412.13	0.002447	2.05	234.55	523.28	0.52	79.39
Reach 1	36316	1_BU				1.70	363.60	409.47	412.13	411.81	412.29	0.002335	2.07	339.93	712.35	0.51	71.16
Reach 1	36316	0p5_BU				1.74	389.40	409.47	412.17		412.33	0.002298	2.09	371.42	742.01	0.51	68.69
Reach 1	36316	0p5-CC-LC_BU				1.96	545.10	409.47	412.41		412.55	0.002050	2.14	565.26	901.25	0.49	57.14
Reach 1	34806	5_BU				1.37	290.80	406.69	408.63		408.76	0.002135	1.72	201.64	182.57	0.47	89.52
Reach 1	34806	1_BU				1.54	363.60	406.69	408.81		408.97	0.002203	1.89	235.91	195.52	0.49	89.16
Reach 1	34806	0p5_BU				1.60	389.40	406.69	408.86		409.04	0.002219	1.94	247.23	198.71	0.49	88.67
Reach 1	34806	0p5-CC-LC_BU				1.88	545.10	406.69	409.18		409.40	0.002331	2.21	311.80	218.53	0.51	86.43
Reach 1	33067	5_BU				1.28	290.80	401.87	404.17	403.67	404.37	0.003085	1.98	147.41	118.96	0.56	99.97
Reach 1	33067	1_BU				1.48	363.60	401.87	404.38	403.86	404.61	0.002932	2.12	173.19	130.78	0.56	99.85
Reach 1	33067	0p5_BU				1.54	389.40	401.87	404.45	403.92	404.69	0.002891	2.17	182.11	155.91	0.56	99.77
Reach 1	33067	0p5-CC-LC_BU				1.92	545.10	401.87	404.83	404.22	405.12	0.002649	2.40	247.57	382.55	0.55	98.64
Reach 1	32800	5_BU				1.52	290.80	401.32	403.49	402.90	403.67	0.002219	1.88	154.88	239.36	0.49	100.00
Reach 1	32800	1_BU				1.73	363.60	401.32	403.71	403.06	403.93	0.002225	2.05	177.45	273.89	0.50	100.00
Reach 1	32800	0p5_BU				1.80	389.40	401.32	403.78	403.11	404.01	0.002229	2.11	184.83	289.60	0.50	100.00
Reach 1	32800	0p5-CC-LC_BU				2.18	545.10	401.32	404.17	403.40	404.47	0.002279	2.43	228.17	557.20	0.52	99.82
Reach 1	32550	5_BU				1.26	290.80	400.66	402.50	402.23	402.84	0.005302	2.57	113.98	152.21	0.73	99.84
Reach 1	32550	1_BU				1.36	363.60	400.66	402.66	402.43	403.07	0.005589	2.84	129.57	179.81	0.78	99.59
Reach 1	32550	0p5_BU				1.39	389.40	400.66	402.71	402.50	403.15	0.005678	2.93	135.02	192.11	0.79	99.49
Reach 1	32550	0p5-CC-LC_BU				1.64	545.10	400.66	402.99	402.85	403.56	0.006127	3.38	167.97	300.80	0.84	98.50
Reach 1	32400	5_BU				1.58	290.80	400.20	402.24	401.71	402.35	0.001660	1.67	221.26	182.99	0.42	66.96
Reach 1	32400	1_BU				1.76	363.60	400.20	402.43	401.83	402.55	0.001686	1.80	255.26	184.97	0.43	64.53
Reach 1	32400	0p5_BU				1.81	389.40	400.20	402.49	401.87	402.62	0.001697	1.85	266.47	185.95	0.44	63.85
Reach 1	32400	0p5-CC-LC_BU				2.12	545.10	400.20	402.81	402.10	402.98	0.001778	2.09	329.62	216.26	0.46	60.88
Reach 1	32250	5_BU				1.31	290.80	399.61	401.80	401.40	402.00	0.003433	2.12	161.25	163.77	0.59	80.23
Reach 1	32250	1_BU				1.46	363.60	399.61	401.98	401.54	402.20	0.003435	2.27	188.69	178.62	0.60	77.91
Reach 1	32250	0p5_BU				1.51	389.40	399.61	402.03	401.59	402.26	0.003452	2.32	198.09	186.55	0.60	77.22
Reach 1	32250	0p5-CC-LC_BU				1.78	545.10	399.61	402.33	401.92	402.61	0.003472	2.57	259.95	255.12	0.61	73.41
Reach 1	32150	5_BU				1.19	290.80	399.22	401.47	401.05	401.64	0.003328	1.96	169.41	184.02	0.57	84.50
Reach 1	32150	1_BU				1.37	363.60	399.22	401.67	401.23	401.85	0.003003	2.05	208.48	212.22	0.56	82.47
Reach 1	32150	0p5_BU				1.44	389.40	399.22	401.73	401.34	401.92	0.002895	2.07	222.40	219.43	0.55	81.55
Reach 1	32150	0p5-CC-LC_BU				1.78	545.10	399.22	402.08	401.60	402.28	0.002452	2.20	308.93	296.86	0.53	76.75
Reach 1	32000	5_BU				1.68	290.80	398.64	400.98	400.53	401.20	0.002630	2.18	159.88	147.63	0.54	87.02
Reach 1	32000	1_BU				1.88	363.60	398.64	401.20	400.72	401.44	0.002538	2.32	194.64	179.98	0.54	83.51
Reach 1	32000	0p5_BU				1.95	389.40	398.64	401.27	400.81	401.52	0.002515	2.36	207.77	195.12	0.54	82.39
Reach 1	32000	0p5-CC-LC_BU				2.32	545.10	398.64	401.66	401.12	401.92	0.002344	2.56	305.75	296.10	0.54	76.30
Reach 1	31850	5_BU				1.59	290.80	398.07	400.43	400.12	400.73	0.003690	2.50	133.22	122.53	0.63	91.60
Reach 1	31850	1_BU				1.72	363.60	398.07	400.59	400.31	400.95	0.004174	2.79	153.89	150.35	0.68	89.63
Reach 1	31850	0p5_BU				1.76	389.40	398.07	400.63	400.38	401.02	0.004321	2.88	161.30	154.87	0.70	88.88
Reach 1	31850	0p5-CC-LC_BU				1.95	545.10	398.07	400.88	400.77	401.39	0.005217	3.40	205.77	217.32	0.78	85.48
Reach 1	31700	5_BU				1.39	290.80	397.52	400.25	399.45	400.34	0.001320	1.37	246.24	267.26	0.37	86.74
Reach 1	31700	1_BU				1.51	363.60	397.52	400.40	399.59	400.51	0.001421	1.52	286.73	308.82	0.39	85.15
Reach 1	31700	0p5_BU				1.55	389.40	397.52	400.45	399.64	400.56	0.001462	1.57	299.96	320.41	0.40	84.69
Reach 1	31700	0p5-CC-LC_BU				1.77	545.10	397.52	400.69	399.93	400.84	0.001682	1.83	374.94	391.65	0.44	81.88
Reach 1	31597	5_BU				0.92	290.80	397.42	400.05	399.59	400.14	0.002506	1.42	235.52	326.55	0.47	74.31
Reach 1	31597	1_BU				1.01	363.60	397.42	400.21	399.70	400.30	0.002423	1.49	289.03	379.21	0.47	72.89
Reach 1	31597	0p5_BU				1.04	389.40	397.42	400.25	399.72	400.35	0.002396	1.51	307.26	399.15	0.47	72.44
Reach 1	31597	0p5-CC-LC_BU				1.25	545.10	397.42	400.49	399.95	400.60	0.002349	1.69	408.41	450.78	0.48	71.28
Reach 1	31500	5_BU				0.78	290.80	398.07	399.86	399.39	399.96	0.002083	1.17	233.01	292.38	0.42	28.63
Reach 1	31500	1_BU				0.88	363.60	398.07	400.00	399.53	400.12	0.002171	1.29	279.31	339.48	0.44	30.07
Reach 1	31500	0p5_BU				0.92	389.40	398.07	400.05	399.58	400.17	0.002194	1.34	295.18	354.10	0.45	30.67
Reach 1	31500	0p5-CC-LC_BU				1.15	545.10	398.07	400.29	399.81	400.42	0.002254	1.57	388.19	427.14	0.47	32.57
Reach 1	31400	5_BU				0.76	290.80	397.82	399.63	399.31	399.78	0.003235	1.39	208.92	300.13	0.51	34.05
Reach 1	31400	1_BU				0.90	363.60	397.82	399.78	399.50	399.93	0.003148	1.49	257.27	350.22	0.50	35.24
Reach 1	31400	0p5_BU				0.94	389.40	397.82	399.83	399.54	399.98	0.003156	1.53	273.08	363.11	0.50	35.42
Reach 1	31400	0p5-CC-LC_BU				1.15	545.10	397.82	400.06	399.75	400.22	0.003275	1.77	368.15	496.94	0.53	36.56
Reach 1	31350	5_BU				0.86	290.80	397.71	399.57	399.10	399.67	0.002272	1.30	241.31	292.39	0.45	39.11
Reach 1	31350	1_BU				0.98	363.60	397.71	399.72	399.25	399.83	0.002271	1.42	286.82	341.85	0.46	40.16
Reach 1	31350	0p5_BU				1.02	389.40	397.71	399.76	399.29	399.87	0.002302	1.47	301.60	360.14	0.46	40.47
Reach 1	31350	0p5-CC-LC_BU				1.23	545.10	397.71	399.98	399.51	400.12	0.002510	1.73	396.98	539.59	0.50	41.54
Reach 1	31300	5_BU				0.80	290.80	397.60	399.41	399.11	399.56	0.003833	1.62	201.57	281.10	0.58	39.00
Reach 1	31300	1_BU				0.81	363.60	397.60	399.56	399.28	399.72	0.003778	1.62	249.77	353.38	0.57	37.78
Reach 1	31300	0p5_BU				0.85	389.40	397.60	399.61	399.32	399.77	0.003707	1.65	266.05	369.11	0.57	38.09
Reach 1	31300	0p5-CC-LC_BU				1.05	545.10	397.60	399.84	399.57	400.01	0.003519	1.86	365.81	526.64	0.58	39.01
Reach 1	31250	5_BU				0.89	290.80	397.53	399.33	398.88	399.43	0.002294	1.36	245.07	340.96	0.46	44.27
Reach 1	31250	1_BU				0.94	363.60	397.53	399.49	399.00	399.59	0.002229	1.41	307.79	460.73	0.46	43.53
Reach 1	31250	0p5_BU				0.98	389.40	397.53	399.54	399.04	399.64	0.002205	1.43	330.34	489.06	0.46	43.50
Reach 1	31250	0p5-CC-LC_BU				1.22	545.10	397.53	399.78	399.30	399.88	0.002139	1.58	465.87	629.21	0.46	42.77
Reach 1	31200	5_BU				1.33	290.80	397.38	399.24	398.63	399.33	0.001518	1.47	254.08	325.28	0.41	56.44
Reach 1	31200	1_BU				1.44	363.60	397.38	399.39	398.78	399.49	0.001553	1.58	310.79	424.91	0.42	54.11
Reach 1	31200	0p5_BU				1.48	389.40	397.38	399.43	398.82	399.54	0.001583	1.62	330.42	458.85	0.42	53.45
Reach 1	31200	0p5-CC-LC_BU				1.70	545.10	397.38	399.66	399.06	399.78	0.001726	1.82	450.87	616.40	0.45	49.44

HEC-RAS Plan: KR_Jam_25700 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	31150	5_BU				1.04	290.80	397.22	399.14	398.64	399.21	0.001741	1.33	257.24	326.91	0.42	52.41
Reach 1	31150	1_BU				1.15	363.60	397.22	399.30	398.77	399.38	0.001641	1.39	321.59	483.50	0.42	50.88
Reach 1	31150	0p5_BU				1.18	389.40	397.22	399.34	398.80	399.42	0.001641	1.42	344.27	532.59	0.42	50.42
Reach 1	31150	0p5-CC-LC_BU				1.40	545.10	397.22	399.56	398.97	399.65	0.001672	1.58	476.07	652.08	0.43	47.47
Reach 1	31100	5_BU				0.99	290.80	397.05	398.70	398.44	398.89	0.004251	1.95	166.74	233.61	0.63	40.59
Reach 1	31100	1_BU				1.06	363.60	397.05	398.85	398.58	399.05	0.004369	2.07	210.37	341.55	0.64	39.98
Reach 1	31100	0p5_BU				1.08	389.40	397.05	398.90	398.64	399.10	0.004300	2.09	228.54	385.70	0.64	39.39
Reach 1	31100	0p5-CC-LC_BU				1.22	545.10	397.05	399.15	398.97	399.33	0.004043	2.20	344.36	565.57	0.63	36.81
Reach 1	31050	5_BU				0.97	290.80	396.94	398.59	398.23	398.71	0.003218	1.68	210.21	326.75	0.54	34.84
Reach 1	31050	1_BU				1.02	363.60	396.94	398.77	398.38	398.88	0.002926	1.70	276.50	455.86	0.54	33.42
Reach 1	31050	0p5_BU				1.03	389.40	396.94	398.82	398.43	398.93	0.002839	1.69	302.51	494.89	0.53	32.78
Reach 1	31050	0p5-CC-LC_BU				1.20	545.10	396.94	399.08	398.66	399.18	0.002458	1.75	448.04	624.49	0.51	30.76
Reach 1	31011	5_BU				1.05	290.80	396.85	398.45	397.94	398.53	0.002083	1.42	228.66	256.32	0.44	31.12
Reach 1	31011	1_BU				1.11	363.60	396.85	398.62	398.07	398.71	0.002190	1.52	278.90	338.29	0.46	31.04
Reach 1	31011	0p5_BU				1.13	389.40	396.85	398.67	398.10	398.76	0.002193	1.54	297.78	362.23	0.46	30.82
Reach 1	31011	0p5-CC-LC_BU				1.33	545.10	396.85	398.93	398.30	399.03	0.002015	1.64	406.26	484.58	0.45	29.22
Reach 1	30950	5_BU				0.97	290.80	396.52	398.25	397.77	398.33	0.001794	1.26	231.49	266.14	0.41	38.07
Reach 1	30950	1_BU				1.12	363.60	396.52	398.41	397.87	398.50	0.001755	1.36	278.52	309.57	0.41	38.62
Reach 1	30950	0p5_BU				1.16	389.40	396.52	398.46	397.91	398.56	0.001774	1.41	295.17	327.39	0.42	38.94
Reach 1	30950	0p5-CC-LC_BU				1.39	545.10	396.52	398.72	398.09	398.83	0.001880	1.63	390.43	406.78	0.44	39.58
Reach 1	30850	5_BU				0.79	290.80	395.91	398.09	397.56	398.16	0.002221	1.21	243.81	299.81	0.44	83.68
Reach 1	30850	1_BU				0.85	363.60	395.91	398.27	397.67	398.34	0.002048	1.22	301.50	348.46	0.42	84.05
Reach 1	30850	0p5_BU				0.88	389.40	395.91	398.32	397.71	398.39	0.001994	1.24	320.52	360.29	0.42	84.26
Reach 1	30850	0p5-CC-LC_BU				1.06	545.10	395.91	398.58	397.92	398.67	0.001840	1.34	427.59	445.43	0.42	86.28
Reach 1	30750	5_BU				0.90	290.80	395.77	397.74	397.37	397.90	0.004050	1.79	164.36	184.96	0.60	71.54
Reach 1	30750	1_BU				0.89	363.60	395.77	397.92	397.55	398.09	0.004136	1.79	201.00	223.13	0.61	70.17
Reach 1	30750	0p5_BU				0.90	389.40	395.77	397.98	397.60	398.15	0.004135	1.80	214.43	241.83	0.61	69.93
Reach 1	30750	0p5-CC-LC_BU				1.04	545.10	395.77	398.27	397.85	398.44	0.003805	1.90	305.91	391.15	0.59	71.76
Reach 1	30650	5_BU				1.18	290.80	395.40	397.49	396.94	397.62	0.002465	1.67	194.99	221.56	0.49	83.41
Reach 1	30650	1_BU				1.28	363.60	395.40	397.68	397.11	397.82	0.002400	1.74	239.44	254.17	0.49	81.09
Reach 1	30650	0p5_BU				1.32	389.40	395.40	397.74	397.16	397.88	0.002358	1.76	255.23	268.12	0.49	80.31
Reach 1	30650	0p5-CC-LC_BU				1.60	545.10	395.40	398.03	397.45	398.19	0.002214	1.95	357.35	439.55	0.49	77.42
Reach 1	30396	5_BU				1.66	290.80	394.21	396.80	396.46	397.02	0.002645	2.21	172.68	188.02	0.55	84.13
Reach 1	30396	1_BU				1.82	363.60	394.21	397.01	396.63	397.23	0.002568	2.31	213.96	220.10	0.55	79.47
Reach 1	30396	0p5_BU				1.89	389.40	394.21	397.08	396.70	397.31	0.002524	2.34	231.01	247.22	0.54	78.03
Reach 1	30396	0p5-CC-LC_BU				2.22	545.10	394.21	397.44	396.98	397.67	0.002348	2.48	343.73	380.75	0.53	70.40
Reach 1	30150	5_BU				1.58	290.80	393.70	396.10	395.64	396.34	0.003033	2.26	148.75	149.70	0.57	92.47
Reach 1	30150	1_BU				1.74	363.60	393.70	396.26	395.91	396.55	0.003242	2.49	174.87	170.30	0.60	89.98
Reach 1	30150	0p5_BU				1.79	389.40	393.70	396.31	395.97	396.62	0.003340	2.58	184.13	178.67	0.61	89.64
Reach 1	30150	0p5-CC-LC_BU				2.09	545.10	393.70	396.61	396.32	396.99	0.003592	2.96	244.34	237.40	0.65	85.36
Reach 1	29887	5_BU				1.03	290.80	393.58	395.39	394.94	395.51	0.002746	1.61	186.46	186.81	0.51	93.32
Reach 1	29887	1_BU				1.18	363.60	393.58	395.55	395.06	395.70	0.002645	1.72	218.23	196.00	0.51	92.95
Reach 1	29887	0p5_BU				1.23	389.40	393.58	395.60	395.11	395.76	0.002625	1.77	228.48	197.07	0.51	92.83
Reach 1	29887	0p5-CC-LC_BU				1.51	545.10	393.58	395.90	395.35	396.09	0.002550	1.98	287.54	206.60	0.51	92.17
Reach 1	29585	5_BU				1.06	290.80	392.36	394.38	394.02	394.56	0.003692	1.90	153.22	148.35	0.59	99.97
Reach 1	29585	1_BU				1.16	363.60	392.36	394.54	394.16	394.75	0.003786	2.05	178.32	158.82	0.61	99.84
Reach 1	29585	0p5_BU				1.21	389.40	392.36	394.59	394.20	394.81	0.003804	2.10	186.15	160.15	0.61	99.78
Reach 1	29585	0p5-CC-LC_BU				1.43	545.10	392.36	394.88	394.48	395.16	0.003769	2.35	235.07	170.81	0.63	99.41
Reach 1	29234	5_BU				1.18	290.80	391.76	393.33	392.89	393.48	0.002593	1.72	173.90	166.51	0.50	99.34
Reach 1	29234	1_BU				1.37	363.60	391.76	393.51	393.02	393.68	0.002473	1.85	205.61	175.03	0.50	98.82
Reach 1	29234	0p5_BU				1.43	389.40	391.76	393.58	393.06	393.75	0.002436	1.89	216.55	177.05	0.50	98.61
Reach 1	29234	0p5-CC-LC_BU				1.77	545.10	391.76	393.91	393.30	394.14	0.002311	2.12	279.96	203.44	0.51	97.64
Reach 1	28752	5_BU				1.41	290.80	389.58	392.12	391.58	392.27	0.002422	1.75	184.33	170.75	0.47	95.73
Reach 1	28752	1_BU				1.59	363.60	389.58	392.30	391.74	392.48	0.002520	1.92	216.62	180.35	0.49	94.58
Reach 1	28752	0p5_BU				1.64	389.40	389.58	392.35	391.79	392.54	0.002579	1.97	226.45	182.77	0.49	94.13
Reach 1	28752	0p5-CC-LC_BU				1.92	545.10	389.58	392.65	392.06	392.89	0.002847	2.28	283.34	202.44	0.53	91.67
Reach 1	27904	5_BU				1.19	290.80	387.11	389.61		389.80	0.003628	2.03	166.87	187.15	0.59	81.18
Reach 1	27904	1_BU				1.34	363.60	387.11	389.77		389.97	0.003570	2.18	197.01	202.36	0.60	78.84
Reach 1	27904	0p5_BU				1.40	389.40	387.11	389.83		390.04	0.003481	2.21	208.67	205.82	0.60	77.93
Reach 1	27904	0p5-CC-LC_BU				1.70	545.10	387.11	390.13		390.37	0.003183	2.41	280.44	289.28	0.59	73.74
Reach 1	27650	5_BU				1.30	290.80	386.21	388.68	388.26	388.87	0.003181	2.03	160.09	153.59	0.57	88.12
Reach 1	27650	1_BU				1.54	363.60	386.21	388.92	388.45	389.12	0.002680	2.08	199.70	171.34	0.54	86.20
Reach 1	27650	0p5_BU				1.61	389.40	386.21	389.00	388.49	389.20	0.002605	2.11	213.50	183.72	0.53	85.91
Reach 1	27650	0p5-CC-LC_BU				1.99	545.10	386.21	389.39	388.75	389.61	0.002269	2.25	311.67	307.89	0.51	81.02
Reach 1	27359	5_BU				2.17	290.80	385.38	388.38	387.14	388.47	0.000677	1.31	225.85	118.97	0.29	99.61
Reach 1	27359	1_BU				2.40	363.60	385.38	388.62	387.30	388.73	0.000746	1.48	254.63	125.00	0.30	99.25
Reach 1	27359	0p5_BU				2.47	389.40	385.38	388.69	387.36	388.81	0.000776	1.54	263.36	127.93	0.31	99.12
Reach 1	27359	0p5-CC-LC_BU				2.79	545.10	385.38	389.01	387.65	389.19	0.001002	1.89	313.62	199.14	0.36	98.35
Reach 1	27150	5_BU				3.06	290.80	383.59	388.31	386.21	388.37	0.000307	1.11	289.85	170.87	0.20	97.23
Reach 1	27150	1_BU				3.28	363.60	383.59	388.54	386.41	388.62	0.000365	1.28	335.08	243.89	0.22	95.50
Reach 1	27150	0p5_BU				3.35	389.40	383.59	388.60	386.49	388.69	0.000387	1.33	351.45	276.54	0.23	94.86
Reach 1	27150	0p5-CC-LC_BU				3.64	545.10	383.59	388.90	386.88	389.02	0.000524	1.64	458.38	498.03	0.27	90.76
Reach 1	26869	5_BU	387.81	0.40	388.21	3.05	290.80	383.32	388.18	386.13	388.21	0.001234	0.87	449.93	434.27	0.16	85.89
Reach 1	26869	1_BU	388.01	0.40	388.41	3.26	363.60	383.32	388.38	386.28	388.42	0.001401	0.97	548.46	527.97	0.17	81.60
Reach 1	26869	0p5_BU	388.07	0.40	388.47	3.31	389.40	383.32	388.44	386.34	388.48	0.001452	1.00	580.21	549.04	0.18	79.93
Reach 1	26869	0p5-CC-LC_BU	388.32	0.40	388.72	3.56	545.10	383.32	388.69	386.63	388.74	0.001882	1.19	732.39	681.33	0.20	73.27
Reach 1	26650	5_BU	384.20	3.99	388.19	0.89	290.80	382.27	387.86	387.14	387.88	0.004422	0.73	432.29	670.84	0.25	15.69
Reach 1	26650	1_BU	383.94	4.49	388.42	0.68	363.60	382.27	388.05	387.26	388.07	0.004717	0.63	495.48	826.73	0.24	7.73
Reach 1	26650	0p5_BU	383.84	4.65	388.49	0.60	389.40	382.27	388.10	387.30	388.13	0.004863	0.59	514.14	856.88	0.24	5.76
Reach 1	26650	0p5-CC-LC_BU	383.73	4.95	388.68	0.51	545.10	382.27	388.26	387.46	388.29	0.004824	0.52	767.31	1030.79	0.23	3.00
Reach 1	26500	5_BU	384.92	2.90	387.82	1.57	290.80	382.41	387.57	386.46	387.59	0.001990	0.71	587.76	888.37	0.18	32.42
Reach 1	26500	1_BU	384.94	3.07	388.01	1.59	363.60	382.41	387.76	386.73	387.77	0.002089	0.74	695.43	1027.08	0.19	27.11
Reach 1	26500	0p5_BU	384.94	3.13	388.07	1.59	389.40	382.41	387.80	386.76	387.82	0.002137	0.74	725.52	1043.51	0.19	25.60
Reach 1	26500	0p5-CC-LC_BU	385.07	3.15	388.22	1.69	545.10	382.41	387.95	386.95	387.97	0.001918	0.73	1073.40	1111.67	0.18	19.47
Reach 1	26363	5_BU	384.31	2.95	387.26	0.94	290.80	382.60	387.02		387.02	0.001785	0.48	689.62	792.21	0.16	10.57
Reach 1	26363	1_BU	384.17	3.17	387.34	0.82	363.60	382.60	387.07		387.09	0.002449	0.51	723.35	818.38	0.18	7.68
Reach 1	26363	0p5_BU	384.20	3.22	387.42	0.85	389.40	382.60	387.15		387.16	0.002219	0.50	787.02	907.44	0.17	7.25
Reach 1	26363	0p5-CC-LC_BU	384.15	3.35	387.50	0.81	545.10	382.60	387.22		387.24	0.003617	0.61	844.68	997.09	0.22	6.03
Reach 1	26186	5_BU	384.56	1.44	385.99	1.38	290.80	382.60	385.87	385.61	386.07	0.023271	2.23	163.12	222.93	0.61	72.09
Reach 1	26186	1_BU	384.96	1.12	386.08	1.74	363.60	382.60	385.99	385.52	386.11	0.011163	1.80	286.94	431.70	0.44	60.57
Reach 1	26186	0p5_BU	384.93	1.21	386.15	1.71	389.40	382.60	386.05	385.65	386.19	0.013892	1.99	275.30	411.91	0.49	61.43
Reach 1	26186	0p5-CC-LC_BU	385.50	0.80	386.30	2.28	545.10	382.60	386.23	385.51	386.30	0.005470	1.51	589.20	625.25	0.32	44.44
Reach 1	26100	5_BU	383.37	2.44	385.81	0.84	290.80	382.20	385.61	384.71	385.62	0.002538	0.53	524.11	625.75	0.18	7.16
Reach 1	26100	1_BU	383.62	2.31	385.93	1.02	363.60	382.20	385.74	384.86	385.76	0.002590	0.61	614.29	666.43	0.19	8.66
Reach 1	26100	0p5_BU	383.58	2.41	385.99	0.98	389.40	382.20	385.79	384.90	385.81	0.002636	0.60	641.95	679.58	0.19	7.64
Reach 1	26100	0p5-CC-LC_BU	384.00	2.20	386.20	1.23	545.10	382.20	386.02	385.03	386.04	0.002700	0.71	814.38	725.07	0.20	9.43
Reach 1	25969	5_BU	382.93	2.40	385.33	0.63	290.80	381.43	385.13	384.65	385.16	0.007337	0.74	383.62	587.86	0.30	8.50

HEC-RAS Plan: KR_Jam_25700 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	25969	1_BU	382.97	2.47	385.45	0.67	363.60	381.43	385.24	384.72	385.28	0.007488	0.78	446.46	621.18	0.30	7.58
Reach 1	25969	0p5_BU	382.96	2.53	385.49	0.65	389.40	381.43	385.27	384.75	385.31	0.007604	0.77	465.73	628.77	0.31	6.88
Reach 1	25969	0p5-CC-LC_BU	383.08	2.62	385.70	0.72	545.10	381.43	385.48	384.89	385.53	0.007367	0.81	593.51	663.14	0.31	6.13
Reach 1	25849	5_BU	382.45	2.55	385.00	1.10	290.80	380.61	384.78	384.28	384.82	0.007355	1.08	381.14	641.50	0.33	17.44
Reach 1	25849	1_BU	382.51	2.60	385.12	1.14	363.60	380.61	384.90	384.40	384.94	0.007373	1.11	453.98	665.90	0.33	15.18
Reach 1	25849	0p5_BU	382.52	2.64	385.16	1.14	389.40	380.61	384.93	384.44	384.97	0.007391	1.11	476.48	672.68	0.33	14.28
Reach 1	25849	0p5-CC-LC_BU	382.78	2.63	385.41	1.26	545.10	380.61	385.19	384.58	385.23	0.005861	1.06	653.69	756.20	0.30	12.03
Reach 1	25750	5_BU	381.54	2.90	384.44	1.06	290.80	379.67	384.20	383.64	384.24	0.009521	1.19	323.76	505.66	0.37	16.74
Reach 1	25750	1_BU	381.71	2.89	384.60	1.21	363.60	379.67	384.36	383.78	384.40	0.008410	1.22	409.74	553.15	0.36	15.99
Reach 1	25750	0p5_BU	381.74	2.90	384.64	1.23	389.40	379.67	384.40	383.82	384.44	0.008320	1.23	432.24	562.21	0.35	15.41
Reach 1	25750	0p5-CC-LC_BU	382.41	2.73	385.14	1.56	545.10	379.67	384.91	383.99	384.94	0.003355	0.94	779.36	788.30	0.24	13.50
Reach 1	25700	5_BU	382.85	0.54	383.40	2.04	290.80	379.24	383.35	382.51	383.62	0.016046	2.40	144.90	158.58	0.54	91.86
Reach 1	25700	1_BU	383.15	0.47	383.62	2.24	363.60	379.24	383.58	382.80	383.84	0.014790	2.45	190.29	208.85	0.52	86.21
Reach 1	25700	0p5_BU	383.27	0.41	383.68	2.35	389.40	379.24	383.65	382.95	383.91	0.013658	2.43	208.48	221.75	0.51	84.31
Reach 1	25700	0p5-CC-LC_BU	380.97	3.46	384.43	0.89	545.10	379.24	384.14	384.14	384.46	0.073114	2.95	218.36	334.20	1.00	16.84
Reach 1	25650	5_BU	382.77	0.40	383.17	2.24	290.80	379.37	383.13	382.08	383.34	0.002748	2.09	167.43	182.45	0.45	92.20
Reach 1	25650	1_BU	383.01	0.40	383.41	2.34	363.60	379.37	383.38	382.36	383.58	0.002771	2.16	220.16	256.26	0.45	84.65
Reach 1	25650	0p5_BU	383.09	0.40	383.49	2.37	389.40	379.37	383.45	382.47	383.66	0.002769	2.18	240.84	286.44	0.45	82.34
Reach 1	25650	0p5-CC-LC_BU	383.47	0.40	383.87	2.59	545.10	379.37	383.83	383.34	384.01	0.002467	2.18	362.40	343.24	0.43	68.81
Reach 1	25600	5_BU	382.51	0.40	382.91	2.02	290.80	379.47	382.88	382.13	383.17	0.004378	2.47	133.65	116.16	0.55	93.96
Reach 1	25600	1_BU	382.68	0.40	383.08	2.12	363.60	379.47	383.04	382.56	383.40	0.005139	2.76	155.32	148.19	0.60	90.95
Reach 1	25600	0p5_BU	382.73	0.40	383.13	2.15	389.40	379.47	383.09	382.69	383.47	0.005394	2.85	163.08	157.82	0.62	89.92
Reach 1	25600	0p5-CC-LC_BU	383.01	0.40	383.41	2.20	545.10	379.47	383.38	383.26	383.83	0.006685	3.23	213.81	208.83	0.69	82.83
Reach 1	25550	5_BU	382.31	0.40	382.71	1.67	290.80	379.57	382.68	382.45	382.94	0.005466	2.43	164.39	236.76	0.60	85.77
Reach 1	25550	1_BU	382.56	0.40	382.96	1.64	363.60	379.57	382.93	382.69	383.14	0.004928	2.28	233.52	306.23	0.57	75.16
Reach 1	25550	0p5_BU	382.64	0.40	383.04	1.68	389.40	379.57	383.01	382.75	383.21	0.004641	2.25	258.17	323.56	0.55	72.51
Reach 1	25550	0p5-CC-LC_BU	383.04	0.40	383.44	2.02	545.10	379.57	383.41	383.00	383.57	0.003242	2.13	400.02	390.47	0.48	60.98
Reach 1	25500	5_BU				1.84	290.80	379.67	382.62	381.71	382.77	0.001612	1.82	176.30	136.72	0.43	90.15
Reach 1	25500	1_BU				2.02	363.60	379.67	382.82	382.05	383.00	0.001713	1.99	204.97	150.79	0.45	87.48
Reach 1	25500	0p5_BU				2.08	389.40	379.67	382.88	382.16	383.08	0.001722	2.04	215.47	154.92	0.45	86.49
Reach 1	25500	0p5-CC-LC_BU				2.37	545.10	379.67	383.18	382.51	383.44	0.002027	2.41	268.28	199.68	0.50	83.45
Reach 1	25458	5_BU				1.31	290.80	379.86	382.43	382.17	382.66	0.003940	2.26	142.92	138.20	0.63	78.51
Reach 1	25458	1_BU				1.44	363.60	379.86	382.65	382.32	382.88	0.003585	2.29	174.71	154.29	0.61	74.64
Reach 1	25458	0p5_BU				1.45	389.40	379.86	382.73	382.37	382.96	0.003497	2.27	187.71	173.04	0.60	73.18
Reach 1	25458	0p5-CC-LC_BU				1.74	545.10	379.86	383.06	382.63	383.32	0.003224	2.45	257.78	242.41	0.59	69.47
Reach 1	25400	5_BU				1.66	290.80	379.62	382.24	381.85	382.46	0.002814	2.24	147.71	119.65	0.56	75.05
Reach 1	25400	1_BU				1.79	363.60	379.62	382.46	382.02	382.70	0.002836	2.36	175.03	133.97	0.56	71.54
Reach 1	25400	0p5_BU				1.79	389.40	379.62	382.52	382.09	382.77	0.002962	2.41	183.67	143.52	0.58	70.72
Reach 1	25400	0p5-CC-LC_BU				1.91	545.10	379.62	382.84	382.38	383.13	0.003170	2.61	246.24	241.43	0.60	65.42
Reach 1	25350	5_BU				1.79	290.80	379.52	382.12	381.57	382.29	0.002029	2.00	172.48	147.10	0.48	76.05
Reach 1	25350	1_BU				1.79	363.60	379.52	382.33	381.75	382.51	0.002221	2.09	204.77	171.33	0.50	71.58
Reach 1	25350	0p5_BU				1.84	389.40	379.52	382.38	381.82	382.58	0.002281	2.16	214.89	189.97	0.51	71.09
Reach 1	25350	0p5-CC-LC_BU				2.15	545.10	379.52	382.70	382.18	382.93	0.002294	2.40	285.05	248.00	0.52	66.10
Reach 1	25300	5_BU				1.19	290.80	379.41	382.04	381.37	382.15	0.001984	1.49	197.32	174.06	0.44	99.76
Reach 1	25300	1_BU				1.16	363.60	379.41	382.22	381.53	382.35	0.002342	1.59	232.35	209.83	0.47	99.53
Reach 1	25300	0p5_BU				1.18	389.40	379.41	382.27	381.58	382.41	0.002370	1.62	244.26	215.88	0.48	99.46
Reach 1	25300	0p5-CC-LC_BU				1.30	545.10	379.41	382.59	381.83	382.74	0.002415	1.74	321.20	257.64	0.49	99.01
Reach 1	25250	5_BU				1.11	290.80	379.31	381.97	381.24	382.05	0.001627	1.29	228.58	213.12	0.39	99.66
Reach 1	25250	1_BU				1.28	363.60	379.31	382.15	381.45	382.24	0.001565	1.38	267.92	225.28	0.39	99.48
Reach 1	25250	0p5_BU				1.33	389.40	379.31	382.20	381.51	382.30	0.001553	1.41	280.59	226.66	0.39	99.41
Reach 1	25250	0p5-CC-LC_BU				1.64	545.10	379.31	382.52	381.75	382.64	0.001490	1.60	353.35	246.98	0.40	98.93
Reach 1	25169	5_BU				1.09	290.80	379.70	381.71	381.15	381.87	0.003048	1.76	169.38	157.89	0.54	98.48
Reach 1	25169	1_BU				1.18	363.60	379.70	381.88	381.33	382.06	0.003215	1.90	196.77	169.84	0.56	98.32
Reach 1	25169	0p5_BU				1.23	389.40	379.70	381.93	381.38	382.12	0.003211	1.94	205.67	170.74	0.56	98.30
Reach 1	25169	0p5-CC-LC_BU				1.51	545.10	379.70	382.23	381.73	382.47	0.003104	2.18	262.42	210.25	0.57	98.06
Reach 1	25100	5_BU				1.22	290.80	378.81	381.54	381.04	381.68	0.002378	1.66	181.33	213.67	0.48	97.23
Reach 1	25100	1_BU				1.36	363.60	378.81	381.69	381.19	381.86	0.002558	1.85	203.72	217.45	0.51	97.17
Reach 1	25100	0p5_BU				1.41	389.40	378.81	381.74	381.23	381.92	0.002621	1.92	211.01	218.66	0.52	97.15
Reach 1	25100	0p5-CC-LC_BU				1.68	545.10	378.81	382.01	381.46	382.26	0.002880	2.25	252.85	241.99	0.55	97.05
Reach 1	24950	5_BU				0.92	290.80	378.16	380.88	380.71	381.13	0.006355	2.28	138.26	169.65	0.76	95.91
Reach 1	24950	1_BU				1.10	363.60	378.16	381.08	380.85	381.34	0.005190	2.32	173.77	184.29	0.70	94.94
Reach 1	24950	0p5_BU				1.17	389.40	378.16	381.14	380.89	381.41	0.004897	2.33	185.97	189.18	0.69	94.52
Reach 1	24950	0p5-CC-LC_BU				1.50	545.10	378.16	381.49	381.14	381.78	0.003905	2.46	254.63	222.32	0.64	92.54
Reach 1	24800	5_BU				1.60	290.80	377.37	380.57	379.81	380.69	0.001533	1.58	190.15	132.16	0.40	99.04
Reach 1	24800	1_BU				1.79	363.60	377.37	380.77	379.96	380.92	0.001610	1.75	217.69	143.63	0.42	98.68
Reach 1	24800	0p5_BU				1.86	389.40	377.37	380.83	380.02	381.00	0.001632	1.80	227.38	148.82	0.42	98.51
Reach 1	24800	0p5-CC-LC_BU				2.19	545.10	377.37	381.17	380.30	381.39	0.001804	2.11	283.21	185.34	0.46	97.40
Reach 1	24693	5_BU				0.92	290.80	377.15	379.85	379.85	380.31	0.011123	2.99	97.86	109.68	1.00	99.87
Reach 1	24693	1_BU				1.07	363.60	377.15	380.01	380.01	380.53	0.010483	3.20	114.62	110.88	0.99	99.73
Reach 1	24693	0p5_BU				1.12	389.40	377.15	380.06	380.06	380.60	0.010275	3.27	120.40	111.29	0.99	99.69
Reach 1	24693	0p5-CC-LC_BU				1.62	545.10	377.15	380.57	380.34	381.05	0.005620	3.10	186.09	148.90	0.78	98.59
Reach 1	24600	5_BU				2.57	290.80	376.10	379.65	378.04	379.77	0.000770	1.57	186.26	77.20	0.31	99.97
Reach 1	24600	1_BU				2.83	363.60	376.10	379.96	378.27	380.11	0.000840	1.74	211.47	88.64	0.33	99.80
Reach 1	24600	0p5_BU				2.93	389.40	376.10	380.06	378.36	380.22	0.000858	1.80	220.69	98.74	0.34	99.69
Reach 1	24600	0p5-CC-LC_BU				3.45	545.10	376.10	380.58	378.80	380.80	0.000928	2.09	289.35	147.03	0.36	97.60
Reach 1	24500	5_BU				2.32	290.80	375.69	379.51	378.27	379.67	0.001183	1.81	164.43	84.27	0.38	99.25
Reach 1	24500	1_BU				2.58	363.60	375.69	379.81	378.53	380.01	0.001235	1.99	191.77	96.25	0.39	98.30
Reach 1	24500	0p5_BU				2.67	389.40	375.69	379.91	378.60	380.11	0.001249	2.04	201.25	98.49	0.40	97.94
Reach 1	24500	0p5-CC-LC_BU				3.17	545.10	375.69	380.42	379.03	380.69	0.001305	2.34	260.26	136.36	0.42	95.60
Reach 1	24400	5_BU				2.23	290.80	375.71	379.24	378.32	379.51	0.002067	2.32	126.02	63.01	0.50	99.96
Reach 1	24400	1_BU				2.43	363.60	375.71	379.48	378.58	379.82	0.002382	2.60	142.42	69.92	0.53	99.63
Reach 1	24400	0p5_BU				2.49	389.40	375.71	379.56	378.66	379.93	0.002468	2.69	148.04	71.77	0.54	99.47
Reach 1	24400	0p5-CC-LC_BU				2.83	545.10	375.71	379.97	379.12	380.48	0.002913	3.20	178.94	86.26	0.61	98.35
Reach 1	24350	5_BU				2.29	290.80	375.54	379.18	378.09	379.40	0.001817	2.08	141.19	67.13	0.44	99.81
Reach 1	24350	1_BU				2.47	363.60	375.54	379.42	378.34	379.70	0.002122	2.34	158.94	80.82	0.48	99.42
Reach 1	24350	0p5_BU				2.52	389.40	375.54	379.50	378.41	379.80	0.002222	2.42	165.49	87.12	0.49	99.24
Reach 1	24350	0p5-CC-LC_BU				2.91	545.10	375.54	379.91	378.87	380.32	0.002589	2.87	206.77	116.82	0.54	97.66
Reach 1	24300	5_BU				2.20	290.80	375.93	379.12	378.07	379.31	0.001463	1.94	150.46	75.09	0.42	99.92
Reach 1	24300	1_BU				2.39	363.60	375.93	379.35	378.30	379.59	0.001671	2.19	168.53	82.28	0.45	99.67
Reach 1	24300	0p5_BU				2.44	389.40	375.93	379.42	378.37	379.69	0.001741	2.27	174.85	86.53	0.46	99.56
Reach 1	24300	0p5-CC-LC_BU				2.79	545.10	375.93	379.82	378.78	380.19	0.002067	2.70	214.28	111.96	0.52	98.52
Reach 1	24250	5_BU				2.22	290.80	376.30	379.08	377.96	379.23	0.001133	1.72	173.78	92.13	0.37	99.09
Reach 1	24250	1_BU				2.44	363.60	376.30	379.32	378.16	379.50	0.001266	1.94	196.30	101.16	0.40	98.43
Reach 1	24250	0p5_BU				2.52	389.40	376.30	379.39	378.23	379.59	0.001306	2.01	204.05	103.10	0.40	98.16
Reach 1	24250	0p5-CC-LC_BU				2.91	545.10	376.30	379.80	378.61	380.08	0.001516	2.38	252.69	153.48	0.45	96.65
Reach 1	24200	5_BU				1.92	290.80	376.73	379.00	378.13	379.17	0.001491	1.80	166.58	98.16	0.41	98.92
Reach 1	24200	1_BU				2.12	363.60	376.73	379.23	378.31	379.43	0.001603	1.99	189.60	102.93	0.44	98.26
Reach 1	24200	0p5_BU				2.20	389.40	376.73	379.31	378.37	379.52	0.001634	2.06	197.42	106.93	0.44	98.04

HEC-RAS Plan: KR_Jam_25700 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	24200	0p5-CC-LC_BU				2.60	545.10	376.73	379.71	378.74	380.00	0.001771	2.39	247.88	158.75	0.47	96.49
Reach 1	24150	5_BU				1.65	290.80	376.70	378.87	378.23	379.07	0.002248	2.00	147.33	95.95	0.50	99.58
Reach 1	24150	1_BU				1.87	363.60	376.70	379.09	378.42	379.33	0.002312	2.20	168.64	98.94	0.51	99.17
Reach 1	24150	0p5_BU				1.94	389.40	376.70	379.16	378.47	379.42	0.002333	2.26	175.78	101.03	0.52	99.03
Reach 1	24150	0p5-CC-LC_BU				2.32	545.10	376.70	379.55	378.81	379.89	0.002434	2.61	221.21	137.46	0.55	97.90
Reach 1	24100	5_BU				1.73	290.80	376.59	378.75	378.09	378.96	0.002236	2.05	144.33	93.93	0.50	99.46
Reach 1	24100	1_BU				1.93	363.60	376.59	378.96	378.27	379.22	0.002376	2.28	164.09	99.11	0.52	98.87
Reach 1	24100	0p5_BU				2.00	389.40	376.59	379.02	378.33	379.30	0.002420	2.35	170.87	101.93	0.53	98.65
Reach 1	24100	0p5-CC-LC_BU				2.36	545.10	376.59	379.39	378.71	379.76	0.002641	2.75	211.60	130.45	0.57	97.28
Reach 1	24050	5_BU				1.78	290.80	376.51	378.65	377.94	378.85	0.002068	2.02	146.22	154.30	0.48	99.68
Reach 1	24050	1_BU				1.97	363.60	376.51	378.84	378.13	379.10	0.002266	2.26	165.28	165.48	0.51	99.17
Reach 1	24050	0p5_BU				2.04	389.40	376.51	378.91	378.19	379.18	0.002327	2.34	172.02	171.76	0.52	98.96
Reach 1	24050	0p5-CC-LC_BU				2.39	545.10	376.51	379.25	378.55	379.63	0.002608	2.75	211.67	193.18	0.57	97.41
Reach 1	24000	5_BU				1.80	290.80	376.41	378.55	377.83	378.75	0.002004	1.99	146.70	119.15	0.47	99.96
Reach 1	24000	1_BU				1.97	363.60	376.41	378.73	378.00	378.99	0.002282	2.25	163.94	128.24	0.51	99.63
Reach 1	24000	0p5_BU				2.03	389.40	376.41	378.79	378.07	379.07	0.002379	2.34	169.70	133.86	0.53	99.51
Reach 1	24000	0p5-CC-LC_BU				2.32	545.10	376.41	379.10	378.41	379.49	0.002862	2.81	205.24	189.62	0.59	98.42
Reach 1	23950	5_BU				1.70	290.80	376.45	378.45	377.80	378.64	0.002072	1.95	158.09	149.75	0.48	97.52
Reach 1	23950	1_BU				1.86	363.60	376.45	378.63	377.98	378.86	0.002311	2.19	179.52	160.16	0.51	96.43
Reach 1	23950	0p5_BU				1.92	389.40	376.45	378.68	378.05	378.94	0.002393	2.27	186.74	164.37	0.52	96.09
Reach 1	23950	0p5-CC-LC_BU				2.18	545.10	376.45	378.98	378.40	379.33	0.002851	2.70	231.22	220.12	0.58	94.43
Reach 1	23900	5_BU				1.61	290.80	376.38	378.36	377.74	378.53	0.002005	1.86	166.89	160.21	0.47	95.73
Reach 1	23900	1_BU				1.77	363.60	376.38	378.53	377.91	378.74	0.002248	2.10	188.45	181.46	0.50	95.07
Reach 1	23900	0p5_BU				1.83	389.40	376.38	378.58	377.97	378.81	0.002326	2.18	195.91	190.09	0.51	94.79
Reach 1	23900	0p5-CC-LC_BU				2.11	545.10	376.38	378.86	378.26	379.18	0.002716	2.59	246.61	271.43	0.57	93.04
Reach 1	23850	5_BU				1.54	290.80	376.45	378.27	377.67	378.43	0.002019	1.80	172.45	166.51	0.46	94.47
Reach 1	23850	1_BU				1.68	363.60	376.45	378.42	377.82	378.62	0.002297	2.04	193.09	182.82	0.50	93.77
Reach 1	23850	0p5_BU				1.72	389.40	376.45	378.47	377.87	378.68	0.002394	2.12	199.85	195.75	0.51	93.54
Reach 1	23850	0p5-CC-LC_BU				1.94	545.10	376.45	378.72	378.17	379.03	0.002982	2.56	239.04	259.78	0.59	92.87
Reach 1	23800	5_BU				1.38	290.80	376.34	378.14	377.66	378.31	0.002516	1.87	174.23	198.61	0.51	92.85
Reach 1	23800	1_BU				1.52	363.60	376.34	378.28	377.82	378.49	0.002808	2.11	196.86	217.68	0.55	91.67
Reach 1	23800	0p5_BU				1.56	389.40	376.34	378.32	377.87	378.54	0.002911	2.18	204.27	224.19	0.56	91.27
Reach 1	23800	0p5-CC-LC_BU				1.79	545.10	376.34	378.55	378.16	378.86	0.003472	2.61	245.56	274.10	0.62	89.32
Reach 1	23750	5_BU				1.12	290.80	376.43	378.03	377.61	378.15	0.002562	1.63	219.58	253.72	0.49	79.36
Reach 1	23750	1_BU				1.24	363.60	376.43	378.16	377.73	378.30	0.002786	1.82	254.08	272.79	0.52	78.90
Reach 1	23750	0p5_BU				1.28	389.40	376.43	378.21	377.77	378.36	0.002826	1.86	266.18	283.89	0.53	78.31
Reach 1	23750	0p5-CC-LC_BU				1.50	545.10	376.43	378.45	377.98	378.63	0.002976	2.09	342.61	345.85	0.55	74.87
Reach 1	23700	5_BU				0.80	290.80	376.64	377.87	377.52	377.96	0.003627	1.55	241.39	354.52	0.55	60.76
Reach 1	23700	1_BU				0.93	363.60	376.64	378.01	377.62	378.11	0.003284	1.63	293.67	393.12	0.54	60.18
Reach 1	23700	0p5_BU				0.98	389.40	376.64	378.05	377.62	378.16	0.003165	1.65	312.75	409.28	0.53	59.82
Reach 1	23700	0p5-CC-LC_BU				1.23	545.10	376.64	378.32	377.80	378.43	0.002643	1.74	441.03	574.95	0.50	57.32
Reach 1	23650	5_BU				0.83	290.80	376.40	377.63	377.35	377.74	0.003995	1.67	205.68	310.26	0.58	64.76
Reach 1	23650	1_BU				1.00	363.60	376.40	377.81	377.45	377.92	0.003320	1.71	265.26	368.14	0.55	64.64
Reach 1	23650	0p5_BU				1.05	389.40	376.40	377.86	377.47	377.98	0.003181	1.73	286.04	381.40	0.54	64.45
Reach 1	23650	0p5-CC-LC_BU				1.26	545.10	376.40	378.16	377.65	378.28	0.002676	1.77	418.72	516.32	0.50	61.09
Reach 1	23600	5_BU				0.90	290.80	375.86	377.50	377.06	377.58	0.002473	1.40	256.78	345.39	0.47	60.95
Reach 1	23600	1_BU				1.09	363.60	375.86	377.71	377.15	377.78	0.001993	1.42	332.32	384.93	0.44	61.02
Reach 1	23600	0p5_BU				1.14	389.40	375.86	377.77	377.18	377.84	0.001890	1.43	356.60	400.61	0.43	60.62
Reach 1	23600	0p5-CC-LC_BU				1.37	545.10	375.86	378.08	377.35	378.16	0.001638	1.50	495.28	481.55	0.41	58.27
Reach 1	23550	5_BU				0.95	290.80	375.45	377.39	376.96	377.47	0.002199	1.36	236.27	313.11	0.45	65.21
Reach 1	23550	1_BU				1.17	363.60	375.45	377.62	377.06	377.70	0.001695	1.37	316.38	368.59	0.41	65.69
Reach 1	23550	0p5_BU				1.23	389.40	375.45	377.69	377.10	377.77	0.001631	1.39	340.74	380.78	0.40	65.69
Reach 1	23550	0p5-CC-LC_BU				1.44	545.10	375.45	378.01	377.30	378.09	0.001478	1.47	477.28	479.60	0.39	62.85
Reach 1	23500	5_BU				1.07	290.80	375.07	377.31	376.64	377.38	0.001490	1.20	258.58	270.65	0.37	66.74
Reach 1	23500	1_BU				1.27	363.60	375.07	377.56	376.76	377.63	0.001227	1.22	336.85	351.69	0.35	67.14
Reach 1	23500	0p5_BU				1.32	389.40	375.07	377.63	376.80	377.69	0.001196	1.24	361.00	365.19	0.34	66.90
Reach 1	23500	0p5-CC-LC_BU				1.58	545.10	375.07	377.95	377.02	378.03	0.001140	1.36	489.85	444.86	0.35	65.61
Reach 1	23450	5_BU				1.17	290.80	375.14	377.26	376.42	377.32	0.001048	1.11	285.69	265.50	0.33	72.80
Reach 1	23450	1_BU				1.33	363.60	375.14	377.52	376.54	377.57	0.000933	1.13	359.74	316.14	0.31	72.67
Reach 1	23450	0p5_BU				1.38	389.40	375.14	377.58	376.57	377.64	0.000929	1.16	381.57	331.28	0.31	72.77
Reach 1	23450	0p5-CC-LC_BU				1.47	545.10	375.14	377.91	376.80	377.97	0.001052	1.24	505.98	451.06	0.33	70.01
Reach 1	23400	5_BU				1.23	290.80	375.03	377.21	376.39	377.27	0.000989	1.12	281.06	236.58	0.32	71.29
Reach 1	23400	1_BU				1.31	363.60	375.03	377.47	376.50	377.53	0.000962	1.12	347.35	283.55	0.31	70.00
Reach 1	23400	0p5_BU				1.36	389.40	375.03	377.54	376.53	377.60	0.000952	1.15	366.73	291.92	0.31	70.12
Reach 1	23400	0p5-CC-LC_BU				1.49	545.10	375.03	377.85	376.74	377.92	0.001087	1.28	466.33	368.07	0.33	69.07
Reach 1	23300	5_BU				1.32	290.80	374.20	377.06	376.25	377.16	0.001496	1.40	226.97	196.95	0.39	90.18
Reach 1	23300	1_BU				1.17	363.60	374.20	377.33	376.40	377.41	0.001676	1.37	289.93	277.45	0.40	87.64
Reach 1	23300	0p5_BU				1.21	389.40	374.20	377.40	376.45	377.48	0.001615	1.37	310.26	289.05	0.40	87.39
Reach 1	23300	0p5-CC-LC_BU				1.41	545.10	374.20	377.70	376.71	377.80	0.001624	1.52	403.73	343.56	0.41	86.74
Reach 1	23200	5_BU				1.15	290.80	374.25	376.72	376.38	376.92	0.003629	2.01	150.64	143.99	0.60	94.78
Reach 1	23200	1_BU				1.18	363.60	374.25	376.97	376.53	377.17	0.003575	2.02	188.78	178.35	0.59	93.43
Reach 1	23200	0p5_BU				1.12	389.40	374.25	377.04	376.57	377.24	0.003783	2.01	202.83	198.09	0.61	92.66
Reach 1	23200	0p5-CC-LC_BU				1.23	545.10	374.25	377.32	376.86	377.55	0.003921	2.17	265.29	256.30	0.63	91.26
Reach 1	23016	5_BU				1.26	290.80	373.81	376.26		376.39	0.002152	1.63	198.73	222.39	0.46	84.28
Reach 1	23016	1_BU				1.22	363.60	373.81	376.48		376.60	0.002346	1.67	249.67	291.08	0.48	81.90
Reach 1	23016	0p5_BU				1.24	389.40	373.81	376.54		376.66	0.002319	1.67	266.09	307.22	0.48	80.69
Reach 1	23016	0p5-CC-LC_BU				1.43	545.10	373.81	376.85		376.99	0.002114	1.76	356.72	345.38	0.47	76.40
Reach 1	22900	5_BU				1.10	290.80	373.42	375.67		375.97	0.006033	2.49	123.78	154.32	0.76	94.80
Reach 1	22900	1_BU				1.28	363.60	373.42	375.92		376.21	0.004694	2.43	163.09	199.11	0.69	92.00
Reach 1	22900	0p5_BU				1.35	389.40	373.42	376.00		376.28	0.004366	2.43	176.86	213.80	0.67	90.99
Reach 1	22900	0p5-CC-LC_BU				1.32	545.10	373.42	376.37		376.63	0.004288	2.37	266.02	335.41	0.66	83.72
Reach 1	22750	5_BU				1.31	290.80	372.99	375.22		375.38	0.002450	1.78	163.49	126.86	0.50	100.00
Reach 1	22750	1_BU				1.21	363.60	372.99	375.46		375.63	0.002868	1.83	198.58	172.22	0.53	99.99
Reach 1	22750	0p5_BU				1.17	389.40	372.99	375.55		375.72	0.002982	1.83	213.24	192.08	0.54	99.98
Reach 1	22750	0p5-CC-LC_BU				1.20	545.10	372.99	375.92		376.09	0.002921	1.84	299.14	284.67	0.54	99.31
Reach 1	22584	5_BU				1.37	290.80	372.69	374.84		374.99	0.002172	1.73	168.93	131.58	0.47	99.94
Reach 1	22584	1_BU				1.58	363.60	372.69	375.06		375.23	0.002070	1.86	198.65	149.09	0.47	99.65
Reach 1	22584	0p5_BU				1.65	389.40	372.69	375.12		375.31	0.002056	1.91	209.51	173.56	0.47	99.47
Reach 1	22584	0p5-CC-LC_BU				2.00	545.10	372.69	375.48		375.70	0.001967	2.12	288.44	284.11	0.48	95.88
Reach 1	22500	5_BU				1.54	290.80	372.35	374.65		374.82	0.002012	1.80	168.51	128.37	0.46	98.09
Reach 1	22500	1_BU				1.63	363.60	372.35	374.87		375.06	0.002087	1.95	198.45	151.08	0.49	97.15
Reach 1	22500	0p5_BU				1.68	389.40	372.35	374.93		375.13	0.002093	2.00	208.89	158.67	0.49	96.97
Reach 1	22500	0p5-CC-LC_BU				2.01	545.10	372.35	375.27		375.52	0.002177	2.27	266.76	236.70	0.51	94.50
Reach 1	22400	5_BU				1.60	290.80	372.16	374.45		374.62	0.001956	1.84	159.96	109.70	0.46	98.21
Reach 1	22400	1_BU				1.78	363.60	372.16	374.64		374.85	0.002064	2.03	181.74	134.44	0.49	97.21
Reach 1	22400	0p5_BU				1.83	389.40	372.16	374.70		374.92	0.002102	2.09	189.33	139.15	0.49	96.82
Reach 1	22400	0p5-CC-LC_BU				2.12	545.10	372.16	375.02		375.29	0.002234	2.39	247.67	327.51	0.52	92.89

HEC-RAS Plan: KR_Jam_25700 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	22300	5_BU				1.39	290.80	371.96	374.08		374.35	0.003512	2.29	130.66	118.86	0.62	98.51
Reach 1	22300	1_BU				1.49	363.60	371.96	374.23		374.56	0.003870	2.55	150.16	140.76	0.67	97.21
Reach 1	22300	0p5_BU				1.53	389.40	371.96	374.28		374.62	0.003991	2.64	156.95	150.69	0.68	96.69
Reach 1	22300	0p5-CC-LC_BU				1.73	545.10	371.96	374.50	374.36	374.96	0.004706	3.10	196.71	213.04	0.75	93.00
Reach 1	22200	5_BU				1.32	290.80	371.77	373.91		374.04	0.002049	1.67	179.57	183.13	0.46	93.08
Reach 1	22200	1_BU				1.47	363.60	371.77	374.07		374.22	0.002077	1.80	212.09	217.42	0.47	90.09
Reach 1	22200	0p5_BU				1.53	389.40	371.77	374.12		374.28	0.002057	1.83	224.26	231.27	0.47	88.80
Reach 1	22200	0p5-CC-LC_BU				1.79	545.10	371.77	374.38		374.57	0.002019	2.01	296.98	324.53	0.48	81.43
Reach 1	22094	5_BU				1.06	310.30	371.63	373.58		373.75	0.003438	1.84	170.44	201.19	0.57	92.48
Reach 1	22094	1_BU				1.18	389.90	371.63	373.74		373.93	0.003274	1.92	207.80	253.50	0.57	89.39
Reach 1	22094	0p5_BU				1.21	418.50	371.63	373.80		373.99	0.003208	1.95	223.01	266.72	0.56	88.57
Reach 1	22094	0p5-CC-LC_BU				1.29	586.00	371.63	374.08		374.27	0.003085	1.99	305.59	361.49	0.56	80.32
Reach 1	22050	5_BU				0.97	310.30	371.32	373.41		373.58	0.004083	1.89	178.03	217.83	0.61	94.94
Reach 1	22050	1_BU				1.05	389.90	371.32	373.56		373.76	0.004239	2.03	215.09	274.47	0.63	94.47
Reach 1	22050	0p5_BU				1.06	418.50	371.32	373.62		373.83	0.004262	2.04	232.59	299.37	0.63	93.82
Reach 1	22050	0p5-CC-LC_BU				1.11	586.00	371.32	373.87		374.10	0.004632	2.21	316.69	382.68	0.67	91.25
Reach 1	21950	5_BU				0.85	310.30	370.75	372.91		373.10	0.005049	1.92	160.03	239.44	0.67	85.97
Reach 1	21950	1_BU				0.88	389.90	370.75	373.07		373.27	0.005012	1.96	199.41	288.74	0.67	84.72
Reach 1	21950	0p5_BU				0.89	418.50	370.75	373.13		373.32	0.005164	2.00	213.65	309.83	0.68	85.49
Reach 1	21950	0p5-CC-LC_BU				0.96	586.00	370.75	373.39		373.59	0.004627	1.99	301.48	440.28	0.65	81.19
Reach 1	21825	5_BU				0.84	310.30	370.87	372.60		372.72	0.002103	1.23	221.53	313.03	0.43	63.66
Reach 1	21825	1_BU				0.98	389.90	370.87	372.83		372.92	0.001731	1.24	299.33	413.95	0.40	65.74
Reach 1	21825	0p5_BU				1.03	418.50	370.87	372.90		372.98	0.001616	1.24	325.68	444.97	0.39	65.14
Reach 1	21825	0p5-CC-LC_BU				1.13	586.00	370.87	373.22		373.29	0.001320	1.19	499.06	744.61	0.36	60.26
Reach 1	21700	5_BU				1.29	310.30	369.78	372.29		372.44	0.002466	1.78	191.38	187.43	0.50	95.91
Reach 1	21700	1_BU				1.41	389.90	369.78	372.49		372.67	0.002523	1.90	234.40	283.52	0.51	94.63
Reach 1	21700	0p5_BU				1.41	418.50	369.78	372.55		372.74	0.002600	1.94	251.25	322.29	0.52	94.01
Reach 1	21700	0p5-CC-LC_BU				1.56	586.00	369.78	372.86		373.07	0.002682	2.10	353.60	502.07	0.54	90.12
Reach 1	21600	5_BU				1.22	310.30	369.52	372.01		372.18	0.002828	1.84	187.19	236.34	0.53	94.09
Reach 1	21600	1_BU				1.35	389.90	369.52	372.20		372.39	0.002916	2.00	229.11	287.47	0.55	93.78
Reach 1	21600	0p5_BU				1.39	418.50	369.52	372.25		372.45	0.002958	2.05	242.70	302.43	0.55	93.14
Reach 1	21600	0p5-CC-LC_BU				1.57	586.00	369.52	372.51		372.76	0.003205	2.31	320.06	429.72	0.59	89.91
Reach 1	21530	5_BU				1.18	310.30	369.79	371.83		371.97	0.002667	1.74	219.64	303.44	0.51	88.93
Reach 1	21530	1_BU				1.36	389.90	369.79	372.04		372.18	0.002343	1.79	278.36	385.00	0.49	86.18
Reach 1	21530	0p5_BU				1.41	418.50	369.79	372.09		372.24	0.002347	1.83	294.70	401.41	0.49	85.33
Reach 1	21530	0p5-CC-LC_BU				1.64	586.00	369.79	372.34		372.53	0.002545	2.11	388.74	602.41	0.53	82.63
Reach 1	21450	5_BU				1.20	310.30	368.92	371.65		371.77	0.002301	1.62	233.46	306.20	0.47	89.18
Reach 1	21450	1_BU				1.18	389.90	368.92	371.89		372.00	0.002269	1.60	312.16	520.10	0.47	85.75
Reach 1	21450	0p5_BU				1.24	418.50	368.92	371.95		372.06	0.002193	1.62	338.16	567.84	0.46	85.18
Reach 1	21450	0p5-CC-LC_BU				1.51	586.00	368.92	372.21		372.35	0.002047	1.78	486.72	775.07	0.46	81.24
Reach 1	21319	5_BU				1.19	310.30	368.49	371.18		371.39	0.003856	2.07	164.80	194.82	0.61	95.21
Reach 1	21319	1_BU				1.19	389.90	368.49	371.39		371.61	0.004191	2.16	205.28	285.52	0.63	93.43
Reach 1	21319	0p5_BU				1.18	418.50	368.49	371.45		371.68	0.004310	2.18	220.95	319.66	0.64	92.46
Reach 1	21319	0p5-CC-LC_BU				1.26	586.00	368.49	371.71		371.97	0.004657	2.37	299.25	437.61	0.68	89.27
Reach 1	21250	5_BU				1.10	310.30	368.22	370.93		371.12	0.003850	1.99	170.72	221.85	0.61	94.84
Reach 1	21250	1_BU				1.07	389.90	368.22	371.09		371.31	0.004572	2.13	205.36	286.20	0.66	93.86
Reach 1	21250	0p5_BU				1.07	418.50	368.22	371.15		371.37	0.004632	2.15	219.32	306.44	0.66	93.11
Reach 1	21250	0p5-CC-LC_BU				1.26	586.00	368.22	371.38		371.65	0.004609	2.38	285.11	377.02	0.68	90.67
Reach 1	21200	5_BU				0.94	310.30	368.17	370.81		370.93	0.003153	1.63	216.81	298.77	0.54	89.40
Reach 1	21200	1_BU				1.05	389.90	368.17	370.97		371.11	0.003048	1.72	262.42	343.48	0.54	88.21
Reach 1	21200	0p5_BU				1.09	418.50	368.17	371.03		371.17	0.002987	1.75	280.62	362.62	0.53	87.81
Reach 1	21200	0p5-CC-LC_BU				1.31	586.00	368.17	371.29		371.45	0.002816	1.91	371.38	446.07	0.53	85.43
Reach 1	21150	5_BU				0.92	310.30	368.09	370.60		370.76	0.004098	1.82	192.21	282.37	0.61	87.70
Reach 1	21150	1_BU				1.10	389.90	368.09	370.79		370.95	0.003464	1.89	240.27	344.29	0.58	86.52
Reach 1	21150	0p5_BU				1.16	418.50	368.09	370.85		371.01	0.003315	1.92	258.68	362.75	0.57	86.37
Reach 1	21150	0p5-CC-LC_BU				1.43	586.00	368.09	371.12		371.31	0.003021	2.10	347.37	421.30	0.56	83.23
Reach 1	21100	5_BU				1.15	310.30	368.03	370.49	370.02	370.60	0.002359	1.61	226.33	262.21	0.48	79.91
Reach 1	21100	1_BU				1.21	389.90	368.03	370.68	370.16	370.80	0.002353	1.65	277.41	334.20	0.48	77.11
Reach 1	21100	0p5_BU				1.24	418.50	368.03	370.75	370.20	370.87	0.002356	1.67	297.53	362.11	0.48	76.67
Reach 1	21100	0p5-CC-LC_BU				1.48	586.00	368.03	371.03	370.43	371.17	0.002342	1.86	398.48	463.89	0.49	74.91
Reach 1	21050	5_BU				1.26	310.30	367.97	370.29		370.46	0.002929	1.90	191.00	244.56	0.54	86.30
Reach 1	21050	1_BU				1.36	389.90	367.97	370.46		370.65	0.003134	2.06	229.05	290.77	0.56	84.41
Reach 1	21050	0p5_BU				1.30	418.50	367.97	370.52		370.71	0.003356	2.07	246.08	328.46	0.58	82.77
Reach 1	21050	0p5-CC-LC_BU				1.44	586.00	367.97	370.80		371.01	0.003472	2.23	341.07	441.35	0.59	78.51
Reach 1	21000	5_BU				1.23	310.30	367.91	370.19		370.30	0.002106	1.60	242.64	292.99	0.46	81.07
Reach 1	21000	1_BU				1.37	389.90	367.91	370.35		370.48	0.002107	1.73	288.32	370.42	0.47	79.52
Reach 1	21000	0p5_BU				1.42	418.50	367.91	370.40		370.54	0.002119	1.78	305.39	399.39	0.48	78.96
Reach 1	21000	0p5-CC-LC_BU				1.66	586.00	367.91	370.66		370.83	0.002295	2.05	406.13	525.09	0.51	76.54
Reach 1	20950	5_BU				1.27	310.30	367.85	370.14		370.20	0.001320	1.29	324.70	339.35	0.37	62.22
Reach 1	20950	1_BU				1.44	389.90	367.85	370.31		370.38	0.001337	1.41	385.51	413.89	0.38	61.40
Reach 1	20950	0p5_BU				1.49	418.50	367.85	370.36		370.44	0.001392	1.47	405.84	435.02	0.39	61.79
Reach 1	20950	0p5-CC-LC_BU				1.75	586.00	367.85	370.62		370.72	0.001478	1.69	536.22	634.98	0.41	59.35
Reach 1	20892	5_BU				1.23	310.30	367.84	370.01		370.11	0.002201	1.63	264.10	329.26	0.47	66.04
Reach 1	20892	1_BU				1.38	389.90	367.84	370.19		370.29	0.002131	1.73	325.62	413.64	0.47	63.85
Reach 1	20892	0p5_BU				1.43	418.50	367.84	370.23		370.35	0.002154	1.78	346.12	442.75	0.48	63.24
Reach 1	20892	0p5-CC-LC_BU				1.64	586.00	367.84	370.48		370.62	0.002353	2.04	476.62	669.29	0.51	60.79
Reach 1	20850	5_BU				1.13	310.30	367.74	369.95		370.03	0.002144	1.52	286.16	384.64	0.46	57.10
Reach 1	20850	1_BU				1.24	389.90	367.74	370.12		370.21	0.002205	1.64	359.70	475.29	0.47	56.84
Reach 1	20850	0p5_BU				1.29	418.50	367.74	370.17		370.26	0.002203	1.68	383.36	495.73	0.47	56.45
Reach 1	20850	0p5-CC-LC_BU				1.53	586.00	367.74	370.41		370.53	0.002297	1.92	519.67	681.40	0.50	54.79
Reach 1	20800	5_BU				1.22	310.30	367.71	369.79		369.93	0.003000	1.90	211.67	295.68	0.55	67.72
Reach 1	20800	1_BU				1.36	389.90	367.71	369.94		370.10	0.003213	2.10	261.20	388.81	0.58	67.19
Reach 1	20800	0p5_BU				1.40	418.50	367.71	369.98		370.15	0.003246	2.16	279.53	423.21	0.58	66.45
Reach 1	20800	0p5-CC-LC_BU				1.63	586.00	367.71	370.21		370.42	0.003380	2.44	395.24	594.50	0.61	62.34
Reach 1	20750	5_BU				1.18	310.30	367.67	369.71		369.80	0.002367	1.64	298.34	406.09	0.48	53.49
Reach 1	20750	1_BU				1.27	389.90	367.67	369.86		369.96	0.002613	1.82	362.54	477.33	0.51	53.16
Reach 1	20750	0p5_BU				1.30	418.50	367.67	369.91		370.02	0.002620	1.85	386.02	496.13	0.52	52.37
Reach 1	20750	0p5-CC-LC_BU				1.52	586.00	367.67	370.15		370.27	0.002638	2.05	516.91	629.73	0.53	49.31
Reach 1	20700	5_BU				1.17	310.30	367.63	369.57		369.70	0.003350	1.94	247.59	384.21	0.57	59.65
Reach 1	20700	1_BU				1.26	389.90	367.63	369.72		369.86	0.003394	2.06	310.65	461.34	0.59	56.95
Reach 1	20700	0p5_BU				1.30	418.50	367.63	369.77		369.91	0.003365	2.09	333.78	473.09	0.59	56.06
Reach 1	20700	0p5-CC-LC_BU				1.56	586.00	367.63	370.03		370.18	0.003101	2.26	462.57	567.47	0.58	51.70
Reach 1	20650	5_BU				1.13	310.30	367.50	369.47		369.59	0.003096	1.83	238.08	320.70	0.55	57.86
Reach 1	20650	1_BU				1.27	389.90	367.50	369.62		369.75	0.002991	1.95	289.75	365.50	0.55	55.70
Reach 1	20650	0p5_BU				1.32	418.50	367.50	369.67		369.81	0.002981	1.99	308.13	383.88	0.55	55.21
Reach 1	20650	0p5-CC-LC_BU				1.59	586.00	367.50	369.94		370.09	0.002797	2.18	418.60	484.79	0.55	51.62
Reach 1	20600	5_BU				1.12	310.30	367.38	369.38		369.47	0.002352	1.53	250.84	285.89	0.46	67.71
Reach 1	20600	1_BU				1.25	389.90	367.38	369.53		369.64	0.002396	1.64	296.95	328.47	0.47	66.20

HEC-RAS Plan: KR_Jam_25700 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	20600	0p5_BU				1.29	418.50	367.38	369.58		369.70	0.002415	1.69	313.35	348.73	0.47	65.76
Reach 1	20600	0p5-CC-LC_BU				1.51	586.00	367.38	369.85		369.98	0.002425	1.86	420.00	504.18	0.48	62.79
Reach 1	20550	5_BU				1.14	310.30	367.25	369.20		369.34	0.003036	1.81	226.63	325.75	0.54	77.10
Reach 1	20550	1_BU				1.28	389.90	367.25	369.35		369.51	0.003049	1.97	276.23	374.52	0.55	75.12
Reach 1	20550	0p5_BU				1.33	418.50	367.25	369.40		369.56	0.003040	2.01	294.45	391.52	0.56	74.34
Reach 1	20550	0p5-CC-LC_BU				1.59	586.00	367.25	369.66		369.85	0.002903	2.22	418.04	590.28	0.56	70.06
Reach 1	20400	5_BU				0.94	310.30	366.84	368.57		368.76	0.005556	2.16	170.25	229.54	0.71	63.53
Reach 1	20400	1_BU				1.06	389.90	366.84	368.69		368.92	0.005728	2.37	201.33	261.33	0.74	63.13
Reach 1	20400	0p5_BU				1.09	418.50	366.84	368.73		368.97	0.005845	2.45	211.49	271.49	0.75	62.94
Reach 1	20400	0p5-CC-LC_BU				1.30	586.00	366.84	368.95	368.72	369.25	0.006339	2.86	284.26	409.66	0.80	63.17
Reach 1	20221	5_BU				0.91	310.30	365.65	368.04		368.09	0.001942	1.10	336.42	488.26	0.37	56.84
Reach 1	20221	1_BU				1.03	389.90	365.65	368.18		368.24	0.001936	1.18	410.32	586.86	0.37	56.33
Reach 1	20221	0p5_BU				1.07	418.50	365.65	368.23		368.29	0.001896	1.20	439.59	618.86	0.37	55.74
Reach 1	20221	0p5-CC-LC_BU				1.23	586.00	365.65	368.45		368.51	0.002045	1.33	585.41	787.15	0.38	53.24
Reach 1	19763	5_BU				0.88	310.30	364.71	366.75		366.84	0.004562	1.41	236.51	330.42	0.48	91.75
Reach 1	19763	1_BU				0.92	389.90	364.71	366.97		367.05	0.004076	1.31	327.58	505.95	0.44	87.18
Reach 1	19763	0p5_BU				0.91	418.50	364.71	367.05		367.12	0.004019	1.26	372.38	590.30	0.42	85.23
Reach 1	19763	0p5-CC-LC_BU				1.02	586.00	364.71	367.38		367.43	0.003116	1.11	600.04	814.54	0.35	75.78
Reach 1	19335	5_BU				1.35	310.30	363.23	365.56	364.87	365.66	0.001963	1.49	237.40	275.09	0.41	94.40
Reach 1	19335	1_BU				1.44	389.90	363.23	365.72	365.07	365.85	0.002265	1.62	289.65	352.69	0.43	92.01
Reach 1	19335	0p5_BU				1.48	418.50	363.23	365.78	365.11	365.91	0.002361	1.66	308.71	384.43	0.44	91.44
Reach 1	19335	0p5-CC-LC_BU				1.43	586.00	363.23	366.11	365.35	366.23	0.003271	1.64	487.32	709.56	0.44	80.73
Reach 1	19009	5_BU				0.64	310.30	362.65	364.93	364.42	364.99	0.002114	1.07	296.34	498.95	0.43	99.54
Reach 1	19009	1_BU				0.68	389.90	362.65	365.06	364.53	365.12	0.002120	1.10	366.57	606.34	0.43	99.06
Reach 1	19009	0p5_BU				0.69	418.50	362.65	365.09	364.57	365.16	0.002157	1.11	389.60	639.56	0.43	98.89
Reach 1	19009	0p5-CC-LC_BU				0.79	586.00	362.65	365.28	364.80	365.35	0.002247	1.19	523.19	793.28	0.43	97.63
Reach 1	18575	5_BU				0.63	310.30	361.28	363.68	363.15	363.73	0.004237	1.00	318.76	567.80	0.40	96.79
Reach 1	18575	1_BU				0.68	389.90	361.28	363.82	363.27	363.87	0.004058	0.98	412.11	715.80	0.38	95.68
Reach 1	18575	0p5_BU				0.70	418.50	361.28	363.87	363.31	363.92	0.003946	0.99	443.08	748.03	0.38	95.26
Reach 1	18575	0p5-CC-LC_BU				0.83	586.00	361.28	364.06	363.53	364.11	0.003706	1.05	601.50	931.18	0.37	93.44
Reach 1	18123	5_BU				1.07	310.30	360.36	362.21	361.82	362.32	0.002875	1.69	238.94	334.97	0.52	66.31
Reach 1	18123	1_BU				1.14	389.90	360.36	362.34	361.97	362.46	0.003046	1.81	287.24	396.99	0.54	63.78
Reach 1	18123	0p5_BU				1.13	418.50	360.36	362.39	362.00	362.51	0.003118	1.83	307.15	428.45	0.55	62.49
Reach 1	18123	0p5-CC-LC_BU				1.20	586.00	360.36	362.63	362.22	362.76	0.003193	1.92	442.24	660.85	0.56	58.26
Reach 1	18000	5_BU				0.99	310.30	359.91	361.94	361.48	362.01	0.002860	1.49	296.38	463.08	0.48	49.86
Reach 1	18000	1_BU				1.12	389.90	359.91	362.09	361.68	362.16	0.002638	1.55	367.14	498.75	0.47	47.49
Reach 1	18000	0p5_BU				1.15	418.50	359.91	362.14	361.71	362.21	0.002596	1.57	392.10	526.92	0.47	46.67
Reach 1	18000	0p5-CC-LC_BU				1.10	586.00	359.91	362.40	361.85	362.47	0.002556	1.52	544.36	669.25	0.46	40.46
Reach 1	17900	5_BU				0.95	310.30	359.66	361.67	361.24	361.77	0.003020	1.58	242.42	360.65	0.52	53.91
Reach 1	17900	1_BU				1.08	389.90	359.66	361.84	361.35	361.94	0.002870	1.67	305.84	417.39	0.51	53.27
Reach 1	17900	0p5_BU				1.12	418.50	359.66	361.89	361.43	361.99	0.002853	1.70	327.50	443.60	0.51	53.00
Reach 1	17900	0p5-CC-LC_BU				1.24	586.00	359.66	362.13	361.64	362.25	0.002933	1.83	452.37	582.85	0.53	50.21
Reach 1	17850	5_BU				1.00	310.30	359.56	361.56	361.04	361.65	0.002775	1.59	258.96	344.65	0.51	59.90
Reach 1	17850	1_BU				1.15	389.90	359.56	361.71	361.20	361.82	0.002745	1.73	317.12	402.50	0.52	60.30
Reach 1	17850	0p5_BU				1.19	418.50	359.56	361.76	361.29	361.87	0.002723	1.77	337.42	423.61	0.52	59.92
Reach 1	17850	0p5-CC-LC_BU				1.39	586.00	359.56	361.99	361.50	362.13	0.002816	2.02	448.18	561.09	0.54	57.93
Reach 1	17800	5_BU				1.13	310.30	359.59	361.43	360.93	361.52	0.002534	1.65	276.88	396.20	0.50	58.23
Reach 1	17800	1_BU				1.15	389.90	359.59	361.60	361.11	361.69	0.002519	1.66	356.33	528.23	0.50	54.08
Reach 1	17800	0p5_BU				1.17	418.50	359.59	361.65	361.15	361.74	0.002531	1.69	384.12	556.48	0.50	53.46
Reach 1	17800	0p5-CC-LC_BU				1.38	586.00	359.59	361.89	361.41	361.99	0.002390	1.83	529.28	665.52	0.50	50.10
Reach 1	17750	5_BU				1.16	310.30	359.63	361.22	360.84	361.36	0.003583	1.96	222.48	326.95	0.58	56.67
Reach 1	17750	1_BU				1.27	389.90	359.63	361.38	361.01	361.52	0.003565	2.07	281.34	437.95	0.58	54.20
Reach 1	17750	0p5_BU				1.31	418.50	359.63	361.43	361.06	361.58	0.003552	2.09	304.56	470.02	0.58	53.26
Reach 1	17750	0p5-CC-LC_BU				1.51	586.00	359.63	361.68	361.30	361.83	0.003461	2.25	435.21	607.39	0.58	48.71
Reach 1	17700	5_BU				1.16	310.30	359.33	361.01	360.56	361.13	0.002672	1.73	232.84	346.60	0.51	60.72
Reach 1	17700	1_BU				1.29	389.90	359.33	361.17	360.69	361.29	0.002695	1.86	293.22	448.97	0.52	59.04
Reach 1	17700	0p5_BU				1.34	418.50	359.33	361.22	360.73	361.34	0.002673	1.90	316.70	487.24	0.52	58.16
Reach 1	17700	0p5-CC-LC_BU				1.58	586.00	359.33	361.46	360.96	361.60	0.002646	2.10	448.63	625.66	0.54	54.33
Reach 1	17650	5_BU				1.00	310.30	359.01	360.74	360.23	360.81	0.002061	1.39	277.45	397.42	0.44	55.45
Reach 1	17650	1_BU				1.15	389.90	359.01	360.89	360.35	360.97	0.001979	1.48	347.26	497.90	0.44	54.45
Reach 1	17650	0p5_BU				1.20	418.50	359.01	360.94	360.40	361.02	0.001964	1.51	373.11	529.22	0.44	54.10
Reach 1	17650	0p5-CC-LC_BU				1.41	586.00	359.01	361.17	360.60	361.26	0.002015	1.69	506.96	647.48	0.46	51.56
Reach 1	17600	5_BU				0.90	310.30	358.88	360.60	360.06	360.68	0.002311	1.35	252.03	368.78	0.46	40.29
Reach 1	17600	1_BU				0.97	389.90	358.88	360.76	360.20	360.84	0.002348	1.44	324.30	507.47	0.47	40.71
Reach 1	17600	0p5_BU				1.00	418.50	358.88	360.82	360.24	360.89	0.002333	1.45	352.39	547.99	0.47	40.51
Reach 1	17600	0p5-CC-LC_BU				1.22	586.00	358.88	361.04	360.50	361.13	0.002394	1.68	489.68	672.99	0.49	40.96
Reach 1	17574	5_BU				0.81	310.30	358.84	360.54	360.01	360.61	0.002531	1.31	263.32	416.15	0.47	37.02
Reach 1	17574	1_BU				0.90	389.90	358.84	360.70	360.16	360.77	0.002419	1.38	342.01	516.65	0.46	37.61
Reach 1	17574	0p5_BU				0.93	418.50	358.84	360.76	360.21	360.83	0.002404	1.40	370.27	551.83	0.47	37.87
Reach 1	17574	0p5-CC-LC_BU				1.12	586.00	358.84	360.98	360.47	361.06	0.002421	1.60	502.67	635.09	0.48	38.40
Reach 1	17500	5_BU				0.61	310.30	358.91	360.39	359.88	360.44	0.001799	0.93	310.55	507.82	0.38	26.18
Reach 1	17500	1_BU				0.75	389.90	358.91	360.58	360.01	360.62	0.001497	0.98	422.96	672.17	0.36	29.10
Reach 1	17500	0p5_BU				0.80	418.50	358.91	360.63	360.05	360.68	0.001550	1.04	458.49	710.02	0.37	30.65
Reach 1	17500	0p5-CC-LC_BU				1.03	586.00	358.91	360.87	360.28	360.91	0.001413	1.16	645.66	870.45	0.37	31.75
Reach 1	17450	5_BU				0.79	310.30	359.04	360.34	359.76	360.40	0.001853	1.11	310.59	532.63	0.40	23.84
Reach 1	17450	1_BU				0.97	389.90	359.04	360.53	359.87	360.58	0.001538	1.16	428.40	668.01	0.38	24.81
Reach 1	17450	0p5_BU				1.02	418.50	359.04	360.58	359.91	360.63	0.001499	1.18	462.84	705.97	0.37	24.77
Reach 1	17450	0p5-CC-LC_BU				1.25	586.00	359.04	360.82	360.18	360.87	0.001376	1.30	650.73	862.50	0.37	23.97
Reach 1	17350	5_BU				0.83	310.30	358.05	360.04	359.63	360.21	0.003855	1.51	182.52	224.25	0.53	36.48
Reach 1	17350	1_BU				0.79	389.90	358.05	360.27	359.83	360.42	0.003758	1.47	250.01	405.70	0.53	36.92
Reach 1	17350	0p5_BU				0.80	418.50	358.05	360.34	359.90	360.48	0.003538	1.44	284.05	490.19	0.52	37.23
Reach 1	17350	0p5-CC-LC_BU				0.96	586.00	358.05	360.65	360.32	360.74	0.002816	1.46	487.11	805.07	0.48	38.71
Reach 1	17200	5_BU				0.90	310.30	357.76	359.56	359.23	359.81	0.006161	2.00	148.21	156.56	0.67	45.45
Reach 1	17200	1_BU				1.08	389.90	357.76	359.81	359.38	360.05	0.005085	2.04	191.80	197.05	0.63	47.81
Reach 1	17200	0p5_BU				1.15	418.50	357.76	359.88	359.48	360.13	0.004868	2.07	207.68	236.80	0.62	48.42
Reach 1	17200	0p5-CC-LC_BU				1.53	586.00	357.76	360.27	359.87	360.46	0.003839	2.20	356.12	541.25	0.57	49.03
Reach 1	17050	5_BU				2.08	310.30	356.29	359.31	358.29	359.46	0.001286	1.73	195.75	168.81	0.38	98.42
Reach 1	17050	1_BU				2.28	389.90	356.29	359.52	358.49	359.70	0.001441	1.93	244.64	284.64	0.41	96.30
Reach 1	17050	0p5_BU				2.34	418.50	356.29	359.59	358.56	359.78	0.001482	1.99	264.96	326.43	0.42	95.22
Reach 1	17050	0p5-CC-LC_BU				2.67	586.00	356.29	359.92	358.91	360.15	0.001595	2.25	408.12	557.30	0.44	87.84
Reach 1	16812	5_BU				1.29	310.30	354.74	358.79	358.37	359.00	0.003176	2.03	164.67	172.46	0.57	97.13
Reach 1	16812	1_BU				1.44	389.90	354.74	358.98	358.54	359.22	0.003193	2.21	199.14	203.94	0.59	96.17
Reach 1	16812	0p5_BU				1.50	418.50	354.74	359.04	358.59	359.29	0.003192	2.26	211.79	219.23	0.59	95.61
Reach 1	16812	0p5-CC-LC_BU				1.80	586.00	354.74	359.33	358.94	359.64	0.003263	2.55	288.64	290.27	0.61	92.15
Reach 1	16285	5_BU				1.29	310.30	354.72	357.31	356.83	357.47	0.002544	1.79	186.03	178.06	0.50	96.89
Reach 1	16285	1_BU				1.47	389.90	354.72	357.49	357.00	357.68	0.002533	1.95	219.80	195.26	0.51	95.47
Reach 1	16285	0p5_BU				1.53	418.50	354.72	357.55	357.05	357.75	0.002503	1.99	233.03	213.33	0.51	95.03
Reach 1	16285	0p5-CC-LC_BU				1.89	586.00	354.72	357.91	357.31	358.13	0.002260	2.18	330.56	349.48	0.51	91.31

HEC-RAS Plan: KR_Jam_25700 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	15937	5_BU				1.15	310.30	353.96	356.55	355.99	356.66	0.001993	1.48	213.08	196.51	0.44	99.64
Reach 1	15937	1_BU				1.32	389.90	353.96	356.79	356.15	356.91	0.001754	1.52	262.73	218.22	0.42	99.27
Reach 1	15937	0p5_BU				1.37	418.50	353.96	356.88	356.19	356.99	0.001694	1.53	282.03	231.75	0.42	99.11
Reach 1	15937	0p5-CC-LC_BU				1.53	586.00	353.96	357.31	356.41	357.43	0.001506	1.55	401.68	322.50	0.40	97.68
Reach 1	15657	5_BU				1.80	310.30	352.57	355.89	355.16	356.09	0.002009	2.00	156.62	94.77	0.48	99.89
Reach 1	15657	1_BU				1.98	389.90	352.57	356.08	355.35	356.34	0.002275	2.26	176.12	114.07	0.51	99.71
Reach 1	15657	0p5_BU				2.05	418.50	352.57	356.15	355.42	356.43	0.002331	2.34	184.40	123.76	0.52	99.58
Reach 1	15657	0p5-CC-LC_BU				2.33	586.00	352.57	356.43	355.77	356.84	0.002921	2.86	226.94	196.65	0.60	98.51
Reach 1	15073	5_BU				1.03	310.30	351.49	354.04	353.78	354.29	0.005298	2.22	139.94	136.15	0.70	100.00
Reach 1	15073	1_BU				1.17	389.90	351.49	354.31	353.94	354.55	0.004314	2.18	178.93	153.78	0.64	99.97
Reach 1	15073	0p5_BU				1.18	418.50	351.49	354.41	353.99	354.64	0.004107	2.15	195.11	165.66	0.63	99.95
Reach 1	15073	0p5-CC-LC_BU				1.50	586.00	351.49	354.93	354.28	355.14	0.002695	2.04	288.09	193.33	0.53	99.86
Reach 1	14797	5_BU				1.93	310.30	350.08	353.33	352.47	353.51	0.001652	1.88	164.99	85.46	0.43	100.00
Reach 1	14797	1_BU				2.20	389.90	350.08	353.63	352.66	353.85	0.001641	2.04	190.74	86.57	0.44	100.00
Reach 1	14797	0p5_BU				2.29	418.50	350.08	353.73	352.73	353.96	0.001638	2.10	199.49	86.94	0.44	100.00
Reach 1	14797	0p5-CC-LC_BU				2.79	586.00	350.08	354.27	353.09	354.56	0.001665	2.38	246.59	88.73	0.45	100.00
Reach 1	14088	5_BU				1.84	320.00	349.51	352.07	351.30	352.26	0.001887	1.96	163.20	156.19	0.46	99.97
Reach 1	14088	1_BU				2.02	403.00	349.51	352.25	351.51	352.51	0.002188	2.25	179.49	159.65	0.51	99.92
Reach 1	14088	0p5_BU				2.08	433.00	349.51	352.31	351.57	352.59	0.002293	2.35	184.87	161.17	0.52	99.90
Reach 1	14088	0p5-CC-LC_BU				2.38	606.20	349.51	352.61	351.92	353.03	0.002826	2.86	213.11	193.90	0.59	99.75
Reach 1	14004	5_BU				1.34	320.00	349.38	351.76	351.47	352.00	0.003720	2.24	154.58	406.98	0.62	92.14
Reach 1	14004	1_BU				1.49	403.00	349.38	351.91	351.64	352.20	0.003913	2.47	177.25	423.28	0.64	89.75
Reach 1	14004	0p5_BU				1.55	433.00	349.38	351.96	351.70	352.27	0.003966	2.54	185.01	430.68	0.65	89.02
Reach 1	14004	0p5-CC-LC_BU				1.83	606.20	349.38	352.25	351.96	352.64	0.004070	2.88	228.44	498.77	0.68	85.56
Reach 1	13755	5_BU				1.05	320.00	347.42	350.84	350.38	350.98	0.003002	1.70	188.76	474.85	0.53	64.78
Reach 1	13755	1_BU				1.24	403.00	347.42	351.03	350.54	351.19	0.002746	1.81	226.33	538.97	0.52	64.86
Reach 1	13755	0p5_BU				1.30	433.00	347.42	351.09	350.60	351.26	0.002685	1.85	239.27	563.02	0.52	64.75
Reach 1	13755	0p5-CC-LC_BU				1.55	606.20	347.42	351.35	350.85	351.56	0.002842	2.14	299.78	633.83	0.55	64.09
Reach 1	13404	5_BU				1.57	320.00	346.33	349.21	349.07	349.66	0.005546	3.02	115.39	194.73	0.77	94.39
Reach 1	13404	1_BU				1.74	403.00	346.33	349.40	349.33	349.91	0.005810	3.30	137.39	221.46	0.80	91.30
Reach 1	13404	0p5_BU				1.79	433.00	346.33	349.45	349.38	349.99	0.005889	3.39	145.42	228.79	0.81	90.21
Reach 1	13404	0p5-CC-LC_BU				2.16	606.20	346.33	349.83	349.83	350.36	0.004970	3.53	215.55	338.32	0.77	81.10
Reach 1	13209	5_BU				1.59	320.00	345.37	348.73	348.16	348.91	0.002341	1.98	180.57	298.16	0.50	85.41
Reach 1	13209	1_BU				1.81	403.00	345.37	348.95	348.37	349.15	0.002256	2.11	215.61	311.89	0.50	82.40
Reach 1	13209	0p5_BU				1.88	433.00	345.37	349.01	348.43	349.22	0.002251	2.16	226.31	313.19	0.50	81.27
Reach 1	13209	0p5-CC-LC_BU				2.20	606.20	345.37	349.34	348.74	349.60	0.002308	2.43	279.56	329.02	0.52	76.65
Reach 1	13100	5_BU				1.53	320.00	345.58	348.43	347.89	348.63	0.002530	2.01	167.58	550.93	0.52	98.07
Reach 1	13100	1_BU				1.77	403.00	345.58	348.67	348.07	348.89	0.002289	2.11	209.49	615.83	0.51	94.73
Reach 1	13100	0p5_BU				1.83	433.00	345.58	348.74	348.14	348.96	0.002283	2.16	221.36	629.43	0.51	93.59
Reach 1	13100	0p5-CC-LC_BU				2.15	606.20	345.58	349.06	348.54	349.33	0.002344	2.44	279.88	723.48	0.53	88.46
Reach 1	13000	5_BU				1.26	320.00	345.10	347.52	347.52	348.15	0.009954	3.51	91.13	184.47	1.00	100.00
Reach 1	13000	1_BU				1.10	403.00	345.10	347.92	347.92	348.45	0.009925	3.20	126.89	334.53	0.98	99.70
Reach 1	13000	0p5_BU				1.13	433.00	345.10	347.98	347.98	348.52	0.009856	3.26	134.58	348.55	0.98	99.52
Reach 1	13000	0p5-CC-LC_BU				1.39	606.20	345.10	348.30	348.30	348.91	0.008577	3.49	179.40	435.98	0.94	97.90
Reach 1	12950	5_BU				1.56	320.00	344.85	347.63	346.40	347.70	0.000835	1.17	272.75	503.53	0.30	100.00
Reach 1	12950	1_BU				1.66	403.00	344.85	347.80	346.56	347.89	0.000973	1.32	305.77	538.18	0.33	99.98
Reach 1	12950	0p5_BU				1.71	433.00	344.85	347.86	346.62	347.96	0.001003	1.37	317.47	549.79	0.33	99.94
Reach 1	12950	0p5-CC-LC_BU				1.96	606.20	344.85	348.13	346.89	348.27	0.001205	1.64	378.37	663.55	0.37	99.25
Reach 1	12887	5_BU				1.05	320.00	344.53	347.45	346.95	347.60	0.003024	1.71	188.96	348.90	0.53	99.38
Reach 1	12887	1_BU				1.12	403.00	344.53	347.61	347.12	347.78	0.003235	1.85	220.56	373.70	0.56	98.99
Reach 1	12887	0p5_BU				1.12	433.00	344.53	347.67	347.17	347.85	0.003372	1.88	232.13	386.49	0.57	98.84
Reach 1	12887	0p5-CC-LC_BU				1.30	606.20	344.53	347.91	347.47	348.14	0.003542	2.14	290.23	441.36	0.60	98.40
Reach 1	12850	5_BU				0.76	320.00	344.40	347.00	347.00	347.38	0.011768	2.72	117.56	295.82	1.00	100.00
Reach 1	12850	1_BU				0.80	403.00	344.40	347.16	347.16	347.56	0.011472	2.79	144.67	346.12	0.99	99.99
Reach 1	12850	0p5_BU				0.82	433.00	344.40	347.21	347.21	347.62	0.011356	2.81	154.13	358.77	0.99	99.99
Reach 1	12850	0p5-CC-LC_BU				1.09	606.20	344.40	347.72	347.45	347.98	0.005000	2.27	269.33	498.23	0.69	99.76
Reach 1	12800	5_BU				1.13	320.00	343.70	346.67	346.29	346.89	0.003993	2.07	154.86	251.95	0.62	99.97
Reach 1	12800	1_BU				1.28	403.00	343.70	347.03	346.45	347.20	0.002820	1.89	224.02	434.02	0.53	97.70
Reach 1	12800	0p5_BU				1.35	433.00	343.70	347.15	346.51	347.31	0.002411	1.81	257.43	471.65	0.50	96.01
Reach 1	12800	0p5-CC-LC_BU				1.75	606.20	343.70	347.71	346.89	347.83	0.001281	1.57	438.76	681.63	0.38	86.22
Reach 1	12735	5_BU				2.19	320.00	340.98	346.75	344.02	346.79	0.000263	0.82	402.63	365.39	0.18	98.81
Reach 1	12735	1_BU				2.47	403.00	340.98	347.09	344.27	347.12	0.000252	0.87	499.59	441.45	0.18	96.04
Reach 1	12735	0p5_BU				2.58	433.00	340.98	347.20	344.35	347.24	0.000243	0.89	536.95	473.84	0.18	94.89
Reach 1	12735	0p5-CC-LC_BU				3.12	606.20	340.98	347.73	344.85	347.78	0.000223	0.96	722.68	586.00	0.17	88.70
Reach 1	12700	5_BU				2.13	320.00	342.78	346.71	345.06	346.77	0.000501	1.12	324.08	394.09	0.24	90.32
Reach 1	12700	1_BU				2.41	403.00	342.78	347.05	345.27	347.11	0.000448	1.15	413.64	483.39	0.24	85.30
Reach 1	12700	0p5_BU				2.51	433.00	342.78	347.17	345.35	347.23	0.000421	1.14	448.20	502.05	0.23	83.11
Reach 1	12700	0p5-CC-LC_BU				3.04	606.20	342.78	347.70	345.79	347.76	0.000363	1.21	622.72	670.36	0.22	75.88
Reach 1	12650	5_BU				2.32	320.00	342.92	346.64	345.22	346.74	0.000753	1.45	252.50	325.79	0.30	87.31
Reach 1	12650	1_BU				2.63	403.00	342.92	346.97	345.47	347.07	0.000695	1.51	309.47	403.37	0.30	82.88
Reach 1	12650	0p5_BU				2.75	433.00	342.92	347.09	345.57	347.19	0.000691	1.55	332.99	441.04	0.30	82.55
Reach 1	12650	0p5-CC-LC_BU				3.28	606.20	342.92	347.62	346.15	347.73	0.000608	1.64	479.16	631.62	0.29	74.44
Reach 1	12600	5_BU				2.36	320.00	342.87	346.55	345.54	346.68	0.001093	1.76	208.72	234.29	0.37	73.79
Reach 1	12600	1_BU				2.61	403.00	342.87	346.88	345.81	347.02	0.001060	1.85	251.57	323.60	0.37	70.31
Reach 1	12600	0p5_BU				2.73	433.00	342.87	346.99	345.88	347.14	0.001026	1.87	269.15	380.40	0.36	69.28
Reach 1	12600	0p5-CC-LC_BU				3.26	606.20	342.87	347.53	346.23	347.68	0.000949	2.03	405.92	672.93	0.36	64.17
Reach 1	12550	5_BU				2.22	320.00	343.00	346.54	345.29	346.63	0.000725	1.38	273.46	527.51	0.30	81.65
Reach 1	12550	1_BU				2.56	403.00	343.00	346.88	345.65	346.96	0.000605	1.39	369.71	661.56	0.28	75.28
Reach 1	12550	0p5_BU				2.69	433.00	343.00	347.01	345.75	347.08	0.000549	1.37	412.02	715.94	0.27	72.24
Reach 1	12550	0p5-CC-LC_BU				3.24	606.20	343.00	347.56	346.12	347.63	0.000408	1.34	637.26	878.19	0.24	60.83
Reach 1	12500	5_BU				1.42	320.00	343.14	346.46	345.73	346.57	0.001454	1.46	229.44	387.16	0.39	98.48
Reach 1	12500	1_BU				1.75	403.00	343.14	346.81	345.90	346.92	0.001097	1.45	296.87	431.74	0.35	97.33
Reach 1	12500	0p5_BU				1.87	433.00	343.14	346.93	345.95	347.04	0.001007	1.46	326.27	500.79	0.34	97.19
Reach 1	12500	0p5-CC-LC_BU				2.43	606.20	343.14	347.49	346.20	347.59	0.000702	1.45	595.49	952.06	0.30	89.77
Reach 1	12436	5_BU				1.61	320.00	343.08	345.50	345.50	346.31	0.009314	3.97	81.44	159.70	1.00	99.85
Reach 1	12436	1_BU				1.92	403.00	343.08	345.82	345.82	346.69	0.008060	4.16	100.94	189.19	0.96	99.10
Reach 1	12436	0p5_BU				2.01	433.00	343.08	345.90	345.90	346.82	0.007976	4.26	106.77	192.24	0.96	98.80
Reach 1	12436	0p5-CC-LC_BU				2.73	606.20	343.08	346.62	346.62	347.43	0.004947	4.12	180.63	349.80	0.79	92.64
Reach 1	12300	5_BU				1.78	320.00	342.78	345.33	344.60	345.53	0.002035	2.00	179.61	385.48	0.48	96.16
Reach 1	12300	1_BU				1.99	403.00	342.78	345.56	344.84	345.79	0.002081	2.18	216.40	427.85	0.49	93.92
Reach 1	12300	0p5_BU				2.07	433.00	342.78	345.63	344.92	345.87	0.002104	2.24	228.89	446.49	0.50	93.18
Reach 1	12300	0p5-CC-LC_BU				2.41	606.20	342.78	345.97	345.33	346.28	0.002280	2.58	297.98	508.88	0.53	89.32
Reach 1	11788	5_BU				1.50	320.00	342.07	344.28	343.70	344.43	0.002150	1.82	189.03	494.22	0.48	86.94
Reach 1	11788	1_BU				1.62	403.00	342.07	344.49	343.86	344.66	0.002202	1.95	229.44	547.83	0.49	84.21
Reach 1	11788	0p5_BU				1.67	433.00	342.07	344.56	343.91	344.74	0.002202	1.99	244.34	563.24	0.49	83.35
Reach 1	11788	0p5-CC-LC_BU				2.00	606.20	342.07	344.92	344.21	345.12	0.002044	2.16	352.36	733.30	0.49	79.07
Reach 1	11514	5_BU				1.15	320.00	340.85	343.20	342.96	343.52	0.005754	2.52	128.50	248.30	0.75	99.68

HEC-RAS Plan: KR_Jam_25700 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	11514	1_BU				1.36	403.00	340.85	343.42	343.16	343.78	0.005136	2.66	154.38	314.65	0.73	99.50
Reach 1	11514	0p5_BU				1.45	433.00	340.85	343.51	343.22	343.87	0.004825	2.68	165.34	351.59	0.71	99.39
Reach 1	11514	0p5-CC-LC_BU				1.78	606.20	340.85	343.85	343.51	344.31	0.004636	3.01	212.99	435.24	0.72	98.71
Reach 1	11034	5_BU				1.76	320.00	338.63	342.19		342.31	0.001320	1.59	209.27	299.51	0.38	94.76
Reach 1	11034	1_BU				1.93	403.00	338.63	342.47		342.61	0.001325	1.69	251.35	377.96	0.39	93.19
Reach 1	11034	0p5_BU				1.98	433.00	338.63	342.56		342.71	0.001354	1.75	268.42	405.64	0.40	93.69
Reach 1	11034	0p5-CC-LC_BU				2.26	606.20	338.63	342.98		343.15	0.001355	1.90	360.09	514.44	0.40	89.06
Reach 1	10544	5_BU				1.58	320.00	337.82	341.05		341.33	0.003273	2.34	141.82	282.87	0.59	99.16
Reach 1	10544	1_BU				1.78	403.00	337.82	341.26		341.60	0.003387	2.57	172.41	350.27	0.62	98.37
Reach 1	10544	0p5_BU				1.84	433.00	337.82	341.34		341.69	0.003379	2.63	185.52	373.13	0.62	97.77
Reach 1	10544	0p5-CC-LC_BU				2.20	606.20	337.82	341.71	341.25	342.12	0.003315	2.93	271.67	504.87	0.63	93.42
Reach 1	9771	5_BU				1.38	320.00	336.80	339.07		339.22	0.002221	1.77	189.58	510.56	0.48	97.49
Reach 1	9771	1_BU				1.55	403.00	336.80	339.26		339.45	0.002237	1.92	223.17	623.30	0.49	96.22
Reach 1	9771	0p5_BU				1.60	433.00	336.80	339.32		339.51	0.002286	1.98	233.28	646.96	0.50	95.80
Reach 1	9771	0p5-CC-LC_BU				1.88	606.20	336.80	339.60		339.85	0.002519	2.31	288.66	741.62	0.54	93.50
Reach 1	8903	5_BU				1.72	320.00	333.65	336.76		337.04	0.003232	2.44	148.51	322.20	0.60	85.53
Reach 1	8903	1_BU				1.92	403.00	333.65	337.00		337.30	0.003173	2.61	184.71	433.04	0.60	82.48
Reach 1	8903	0p5_BU				1.98	433.00	333.65	337.08		337.38	0.003097	2.63	200.13	459.69	0.60	80.85
Reach 1	8903	0p5-CC-LC_BU				2.30	606.20	333.65	337.45		337.77	0.002871	2.80	281.96	539.53	0.59	73.03
Reach 1	8300	5_BU				1.67	320.00	332.67	335.37		335.54	0.001933	1.87	190.29	318.02	0.46	95.51
Reach 1	8300	1_BU				1.88	403.00	332.67	335.59		335.80	0.001993	2.05	228.56	385.20	0.48	94.26
Reach 1	8300	0p5_BU				1.95	433.00	332.67	335.67		335.89	0.002032	2.12	243.02	414.95	0.48	94.36
Reach 1	8300	0p5-CC-LC_BU				2.26	606.20	332.67	336.02		336.29	0.002172	2.42	337.32	603.59	0.51	90.96
Reach 1	7514	5_BU				1.32	320.00	330.29	332.85		333.20	0.005065	2.66	128.63	313.89	0.74	96.68
Reach 1	7514	1_BU				1.51	403.00	330.29	333.08		333.47	0.004723	2.82	154.62	334.68	0.73	96.09
Reach 1	7514	0p5_BU				1.60	433.00	330.29	333.17		333.57	0.004548	2.86	165.75	356.64	0.72	95.82
Reach 1	7514	0p5-CC-LC_BU				2.02	606.20	330.29	333.61	333.21	334.05	0.003875	3.03	252.49	501.78	0.68	92.72
Reach 1	6800	5_BU				2.02	320.00	327.67	330.75		330.99	0.002035	2.16	147.90	172.09	0.49	100.00
Reach 1	6800	1_BU				2.33	403.00	327.67	331.06		331.34	0.001996	2.35	171.92	243.05	0.49	99.91
Reach 1	6800	0p5_BU				2.41	433.00	327.67	331.15		331.45	0.002033	2.44	178.94	252.79	0.50	99.83
Reach 1	6800	0p5-CC-LC_BU				2.93	606.20	327.67	331.67		332.06	0.002055	2.79	221.65	291.32	0.52	99.07
Reach 1	6650	5_BU				1.60	320.00	327.66	330.43		330.64	0.002467	2.03	158.71	302.71	0.51	99.89
Reach 1	6650	1_BU				1.57	403.00	327.66	330.77		330.99	0.002542	2.05	199.90	354.43	0.52	99.73
Reach 1	6650	0p5_BU				1.69	433.00	327.66	330.89		331.10	0.002334	2.05	214.63	358.43	0.50	99.68
Reach 1	6650	0p5-CC-LC_BU				2.32	606.20	327.66	331.52		331.74	0.001561	2.08	301.19	407.70	0.44	99.31
Reach 1	6563	5_BU				1.40	320.00	327.63	330.23		330.41	0.002627	1.93	176.49	189.07	0.52	97.70
Reach 1	6563	1_BU				1.72	403.00	327.63	330.61		330.79	0.001910	1.89	227.44	208.58	0.46	97.52
Reach 1	6563	0p5_BU				1.85	433.00	327.63	330.74		330.91	0.001737	1.89	244.99	217.47	0.44	97.49
Reach 1	6563	0p5-CC-LC_BU				2.54	606.20	327.63	331.43		331.61	0.001173	1.92	341.61	284.75	0.38	97.24
Reach 1	6400	5_BU				2.29	320.00	325.72	329.86		330.05	0.001947	1.92	166.92	132.56	0.40	100.00
Reach 1	6400	1_BU				2.65	403.00	325.72	330.26		330.47	0.001901	2.06	196.05	146.94	0.40	100.00
Reach 1	6400	0p5_BU				2.77	433.00	325.72	330.39		330.61	0.001896	2.10	205.88	153.61	0.40	100.00
Reach 1	6400	0p5-CC-LC_BU				3.39	606.20	325.72	331.09		331.37	0.001858	2.35	258.58	287.63	0.41	100.00
Reach 1	6300	5_BU				2.38	320.00	325.66	329.61		329.86	0.001694	2.21	145.14	95.39	0.46	100.00
Reach 1	6300	1_BU				2.77	403.00	325.66	330.00		330.29	0.001625	2.39	169.14	102.40	0.46	99.95
Reach 1	6300	0p5_BU				2.89	433.00	325.66	330.12		330.43	0.001614	2.45	177.16	105.93	0.46	99.92
Reach 1	6300	0p5-CC-LC_BU				3.56	606.20	325.66	330.79		331.18	0.001569	2.78	222.80	173.04	0.47	99.49
Reach 1	6200	5_BU				2.36	320.00	325.60	329.47		329.68	0.001592	2.04	157.10	139.61	0.42	100.00
Reach 1	6200	1_BU				2.72	403.00	325.60	329.87		330.12	0.001557	2.19	183.94	158.25	0.42	100.00
Reach 1	6200	0p5_BU				2.85	433.00	325.60	330.00		330.26	0.001536	2.25	193.11	171.60	0.42	99.98
Reach 1	6200	0p5-CC-LC_BU				3.54	606.20	325.60	330.69		331.01	0.001451	2.52	248.46	264.26	0.43	99.50
Reach 1	6150	5_BU				2.57	320.00	325.56	329.35		329.60	0.001556	2.22	144.41	104.58	0.44	100.00
Reach 1	6150	1_BU				2.91	403.00	325.56	329.73		330.03	0.001591	2.43	165.98	108.70	0.45	100.00
Reach 1	6150	0p5_BU				3.03	433.00	325.56	329.86		330.17	0.001598	2.50	173.24	110.26	0.46	99.99
Reach 1	6150	0p5-CC-LC_BU				3.68	606.20	325.56	330.50		330.92	0.001635	2.88	212.09	130.38	0.48	99.77
Reach 1	6100	5_BU				2.48	320.00	325.53	329.25		329.52	0.001771	2.31	138.70	83.86	0.47	100.00
Reach 1	6100	1_BU				2.81	403.00	325.53	329.62		329.95	0.001798	2.52	159.92	95.73	0.48	100.00
Reach 1	6100	0p5_BU				2.93	433.00	325.53	329.75		330.09	0.001800	2.59	167.02	103.57	0.48	100.00
Reach 1	6100	0p5-CC-LC_BU				3.57	606.20	325.53	330.39		330.84	0.001821	2.98	204.72	173.34	0.50	99.88
Reach 1	6050	5_BU				2.52	320.00	325.50	329.18		329.43	0.001591	2.21	144.84	126.35	0.44	100.00
Reach 1	6050	1_BU				2.90	403.00	325.50	329.55		329.85	0.001582	2.42	167.03	135.47	0.45	99.95
Reach 1	6050	0p5_BU				3.02	433.00	325.50	329.68		330.00	0.001586	2.49	174.48	138.46	0.46	99.92
Reach 1	6050	0p5-CC-LC_BU				3.66	606.20	325.50	330.32		330.74	0.001626	2.87	213.65	153.50	0.48	99.68
Reach 1	6000	5_BU				2.45	320.00	325.48	329.06		329.34	0.001814	2.32	138.05	100.17	0.47	100.00
Reach 1	6000	1_BU				2.78	403.00	325.48	329.44		329.76	0.001928	2.53	159.14	127.11	0.48	100.00
Reach 1	6000	0p5_BU				2.90	433.00	325.48	329.56		329.90	0.001974	2.61	166.24	129.90	0.49	99.99
Reach 1	6000	0p5-CC-LC_BU				3.52	606.20	325.48	330.19		330.65	0.002059	2.99	203.93	147.08	0.51	99.82
Reach 1	5950	5_BU				2.38	320.00	325.47	328.93		329.24	0.002133	2.47	129.81	72.91	0.51	100.00
Reach 1	5950	1_BU				2.69	403.00	325.47	329.28		329.65	0.002283	2.70	149.50	87.64	0.52	100.00
Reach 1	5950	0p5_BU				2.81	433.00	325.47	329.40		329.79	0.002293	2.78	156.05	89.09	0.53	100.00
Reach 1	5950	0p5-CC-LC_BU				3.42	606.20	325.47	330.01		330.53	0.002322	3.19	191.29	103.34	0.55	99.90
Reach 1	5900	5_BU				2.34	320.00	325.42	328.83		329.13	0.002117	2.43	131.43	88.62	0.51	100.00
Reach 1	5900	1_BU				2.69	403.00	325.42	329.18		329.54	0.002107	2.66	151.51	113.13	0.52	99.98
Reach 1	5900	0p5_BU				2.81	433.00	325.42	329.30		329.68	0.002108	2.74	158.30	114.20	0.52	99.95
Reach 1	5900	0p5-CC-LC_BU				3.43	606.20	325.42	329.91		330.42	0.002127	3.14	194.50	124.30	0.54	99.71
Reach 1	5850	5_BU				2.21	320.00	325.40	328.54		328.98	0.003336	2.94	108.82	69.00	0.63	100.00
Reach 1	5850	1_BU				2.49	403.00	325.40	328.86		329.39	0.003472	3.24	124.38	73.42	0.66	100.00
Reach 1	5850	0p5_BU				2.59	433.00	325.40	328.96		329.53	0.003510	3.34	129.50	77.94	0.66	99.99
Reach 1	5850	0p5-CC-LC_BU				3.11	606.20	325.40	329.48		330.25	0.003735	3.90	156.20	110.07	0.71	99.89
Reach 1	5800	5_BU				2.17	320.00	325.36	328.42		328.81	0.003002	2.76	116.10	102.42	0.60	100.00
Reach 1	5800	1_BU				2.46	403.00	325.36	328.74		329.21	0.003064	3.02	133.40	111.65	0.62	100.00
Reach 1	5800	0p5_BU				2.55	433.00	325.36	328.85		329.34	0.003095	3.11	139.13	119.28	0.62	99.99
Reach 1	5800	0p5-CC-LC_BU				3.08	606.20	325.36	329.38		330.04	0.003221	3.60	169.15	158.82	0.66	99.94
Reach 1	5750	5_BU				2.12	320.00	325.34	328.25		328.65	0.003181	2.80	114.16	159.30	0.61	100.00
Reach 1	5750	1_BU				2.39	403.00	325.34	328.57		329.05	0.003270	3.07	131.16	168.35	0.63	100.00
Reach 1	5750	0p5_BU				2.49	433.00	325.34	328.67		329.18	0.003301	3.17	136.76	171.04	0.64	100.00
Reach 1	5750	0p5-CC-LC_BU				3.01	606.20	325.34	329.20		329.88	0.003400	3.65	166.79	193.07	0.67	99.87
Reach 1	5724	5_BU				2.16	320.00	325.30	328.22		328.56	0.002684	2.60	123.18	81.33	0.56	100.00
Reach 1	5724	1_BU				2.46	403.00	325.30	328.54		328.95	0.002717	2.85	141.55	111.38	0.58	99.99
Reach 1	5724	0p5_BU				2.56	433.00	325.30	328.64		329.08	0.002735	2.94	147.59	124.27	0.59	99.98
Reach 1	5724	0p5-CC-LC_BU				3.10	606.20	325.30	329.18		329.77	0.002825	3.39	179.66	172.58	0.61	99.85
Reach 1	5650	5_BU				2.10	320.00	325.13	327.97		328.35	0.003057	2.73	117.18	81.77	0.60	100.00
Reach 1	5650	1_BU				2.37	403.00	325.13	328.27		328.73	0.003157	3.00	134.28	85.55	0.62	100.00
Reach 1	5650	0p5_BU				2.47	433.00	325.13	328.37		328.86	0.003183	3.10	139.88	93.37	0.63	100.00
Reach 1	5650	0p5-CC-LC_BU				2.98	606.20	325.13	328.88		329.54	0.003342	3.59	169.41	135.41	0.66	99.88
Reach 1	5550	5_BU				1.98	320.00	324.87	327.59		328.01	0.003607	2.85	112.09	71.61	0.65	100.00
Reach 1	5550	1_BU				2.23	403.00	324.87	327.88		328.38	0.003749	3.14	128.17	86.49	0.67	100.00
Reach 1	5550	0p5_BU				2.32	433.00	324.87	327.97		328.50	0.003799	3.25	133.42	90.24	0.68	99.99

HEC-RAS Plan: KR_Jam_25700 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	5550	0p5-CC-LC_BU				2.76	606.20	324.87	328.41		329.15	0.004132	3.81	159.57	112.47	0.73	99.93
Reach 1	5400	5_BU				1.93	320.00	324.48	327.24		327.52	0.002514	2.34	136.52	109.54	0.54	100.00
Reach 1	5400	1_BU				2.17	403.00	324.48	327.53		327.87	0.002556	2.56	157.68	118.37	0.55	100.00
Reach 1	5400	0p5_BU				2.25	433.00	324.48	327.63		327.98	0.002574	2.63	164.68	121.11	0.56	100.00
Reach 1	5400	0p5-CC-LC_BU				2.68	606.20	324.48	328.10		328.57	0.002710	3.03	200.13	133.57	0.59	99.95
Reach 1	5200	5_BU				2.14	320.00	323.95	326.96		327.13	0.001346	1.84	174.18	147.28	0.40	100.00
Reach 1	5200	1_BU				2.38	403.00	323.95	327.24		327.45	0.001437	2.04	197.79	158.87	0.42	100.00
Reach 1	5200	0p5_BU				2.46	433.00	323.95	327.33		327.56	0.001473	2.11	205.48	161.95	0.43	100.00
Reach 1	5200	0p5-CC-LC_BU				2.86	606.20	323.95	327.79		328.10	0.001671	2.48	244.14	180.17	0.47	100.00
Reach 1	4950	5_BU				1.74	320.00	323.31	326.48		326.70	0.002239	2.06	167.42	179.76	0.50	98.31
Reach 1	4950	1_BU				1.86	403.00	323.31	326.74		326.99	0.002395	2.23	197.79	228.08	0.52	97.76
Reach 1	4950	0p5_BU				1.92	433.00	323.31	326.83		327.09	0.002417	2.29	208.52	243.88	0.53	97.61
Reach 1	4950	0p5-CC-LC_BU				2.33	606.20	323.31	327.28		327.61	0.002374	2.57	271.12	340.15	0.54	96.92
Reach 1	4694	5_BU				1.61	320.00	322.84	326.02		326.17	0.001753	1.73	191.54	371.95	0.44	99.55
Reach 1	4694	1_BU				1.89	403.00	322.84	326.30		326.47	0.001612	1.84	230.30	393.36	0.43	99.03
Reach 1	4694	0p5_BU				1.98	433.00	322.84	326.40		326.58	0.001574	1.88	243.58	397.53	0.43	98.85
Reach 1	4694	0p5-CC-LC_BU				2.48	606.20	322.84	326.90		327.11	0.001433	2.09	315.21	433.58	0.42	97.91
Reach 1	4150	5_BU				1.93	320.00	322.29	324.97		325.17	0.001922	1.99	160.79	187.71	0.46	100.00
Reach 1	4150	1_BU				2.15	403.00	322.29	325.20		325.46	0.002150	2.24	180.21	208.64	0.49	100.00
Reach 1	4150	0p5_BU				2.23	433.00	322.29	325.28		325.55	0.002239	2.32	186.43	221.04	0.50	100.00
Reach 1	4150	0p5-CC-LC_BU				2.59	606.20	322.29	325.65		326.05	0.002716	2.78	218.13	251.44	0.55	99.99
Reach 1	3843	5_BU				1.08	320.00	322.07	323.61	323.54	324.05	0.008683	2.95	108.45	175.59	0.91	100.00
Reach 1	3843	1_BU				1.29	403.00	322.07	323.84	323.71	324.32	0.007441	3.07	131.42	179.92	0.86	100.00
Reach 1	3843	0p5_BU				1.37	433.00	322.07	323.92		324.41	0.006974	3.09	140.13	181.35	0.84	99.99
Reach 1	3843	0p5-CC-LC_BU				1.82	606.20	322.07	324.41		324.93	0.005028	3.17	191.67	190.38	0.75	99.88
Reach 1	3700	5_BU				1.43	320.00	320.95	323.51		323.60	0.001117	1.28	250.48	236.57	0.34	100.00
Reach 1	3700	1_BU				1.73	403.00	320.95	323.81		323.90	0.000943	1.33	302.94	251.63	0.32	100.00
Reach 1	3700	0p5_BU				1.83	433.00	320.95	323.92		324.01	0.000895	1.35	321.25	260.23	0.32	100.00
Reach 1	3700	0p5-CC-LC_BU				2.40	606.20	320.95	324.48		324.59	0.000721	1.45	420.26	288.09	0.30	99.95
Reach 1	3600	5_BU				1.60	320.00	320.47	323.08		323.39	0.003779	2.49	138.75	171.33	0.63	98.27
Reach 1	3600	1_BU				1.90	403.00	320.47	323.38		323.72	0.003346	2.62	168.55	179.59	0.61	97.56
Reach 1	3600	0p5_BU				2.00	433.00	320.47	323.48		323.83	0.003239	2.67	178.79	182.01	0.60	97.37
Reach 1	3600	0p5-CC-LC_BU				2.53	606.20	320.47	324.01		324.43	0.002842	2.93	233.97	199.34	0.59	96.31
Reach 1	3500	5_BU				2.02	320.00	320.12	322.84		323.08	0.002241	2.18	149.01	144.00	0.49	99.80
Reach 1	3500	1_BU				2.32	403.00	320.12	323.15		323.43	0.002216	2.37	173.88	151.87	0.50	99.59
Reach 1	3500	0p5_BU				2.42	433.00	320.12	323.25		323.55	0.002210	2.44	182.62	155.28	0.50	99.49
Reach 1	3500	0p5-CC-LC_BU				2.95	606.20	320.12	323.78		324.17	0.002188	2.77	237.82	215.92	0.52	98.61
Reach 1	3450	5_BU				1.96	320.00	319.97	322.62		322.94	0.003189	2.55	140.03	170.62	0.58	96.55
Reach 1	3450	1_BU				2.24	403.00	319.97	322.94		323.30	0.003111	2.70	170.26	196.02	0.58	94.74
Reach 1	3450	0p5_BU				2.34	433.00	319.97	323.05		323.41	0.003095	2.75	180.66	205.57	0.58	94.17
Reach 1	3450	0p5-CC-LC_BU				2.87	606.20	319.97	323.60		324.04	0.002903	3.04	240.27	255.50	0.57	91.90
Reach 1	3400	5_BU				1.86	320.00	319.80	322.38		322.76	0.003795	2.75	116.90	78.31	0.64	99.97
Reach 1	3400	1_BU				2.10	403.00	319.80	322.65		323.11	0.003970	3.00	135.61	84.04	0.66	99.82
Reach 1	3400	0p5_BU				2.19	433.00	319.80	322.74		323.23	0.003983	3.09	142.01	85.47	0.67	99.75
Reach 1	3400	0p5-CC-LC_BU				2.67	606.20	319.80	323.22		323.85	0.003994	3.53	177.99	100.85	0.69	99.23
Reach 1	3350	5_BU				1.88	320.00	319.64	322.25		322.57	0.003199	2.53	128.75	92.65	0.59	99.49
Reach 1	3350	1_BU				2.14	403.00	319.64	322.52		322.91	0.003298	2.77	148.61	96.70	0.61	99.39
Reach 1	3350	0p5_BU				2.23	433.00	319.64	322.61		323.03	0.003325	2.85	155.59	97.68	0.61	99.30
Reach 1	3350	0p5-CC-LC_BU				2.69	606.20	319.64	323.11		323.64	0.003421	3.25	193.88	107.25	0.63	98.79
Reach 1	3300	5_BU				1.74	320.00	319.48	321.96		322.38	0.004342	2.87	121.38	98.84	0.70	98.22
Reach 1	3300	1_BU				1.98	403.00	319.48	322.24		322.72	0.004236	3.09	145.48	104.84	0.70	97.46
Reach 1	3300	0p5_BU				2.06	433.00	319.48	322.34		322.83	0.004198	3.16	154.07	107.06	0.70	97.22
Reach 1	3300	0p5-CC-LC_BU				2.55	606.20	319.48	322.86		323.45	0.003851	3.48	203.86	121.37	0.70	96.06
Reach 1	3275	5_BU				1.47	320.00	319.45	321.68	321.54	322.23	0.007153	3.29	97.17	147.83	0.87	100.00
Reach 1	3275	1_BU				1.71	403.00	319.45	321.95	321.77	322.57	0.007017	3.49	115.43	155.14	0.85	100.00
Reach 1	3275	0p5_BU				1.79	433.00	319.45	322.04		322.69	0.006939	3.56	121.71	157.82	0.85	100.00
Reach 1	3275	0p5-CC-LC_BU				2.26	606.20	319.45	322.56		323.32	0.006449	3.85	157.41	167.42	0.82	100.00
Reach 1	3250	5_BU				1.54	320.00	319.30	321.58		322.12	0.002874	3.24	98.77	123.23	0.83	100.00
Reach 1	3250	1_BU				1.79	403.00	319.30	321.85		322.46	0.002706	3.46	116.38	141.36	0.83	100.00
Reach 1	3250	0p5_BU				1.87	433.00	319.30	321.95		322.58	0.002659	3.54	122.43	144.71	0.83	100.00
Reach 1	3250	0p5-CC-LC_BU				2.34	606.20	319.30	322.45		323.22	0.002410	3.90	155.49	151.00	0.81	100.00
Reach 1	3150	5_BU				1.97	320.00	318.88	321.59		321.87	0.001096	2.35	136.08	104.96	0.54	100.00
Reach 1	3150	1_BU				2.21	403.00	318.88	321.87		322.21	0.001131	2.58	156.06	108.66	0.55	100.00
Reach 1	3150	0p5_BU				2.30	433.00	318.88	321.97		322.33	0.001140	2.66	162.96	109.94	0.56	100.00
Reach 1	3150	0p5-CC-LC_BU				2.83	606.20	318.88	322.50		322.97	0.001114	3.02	201.41	119.42	0.57	99.91
Reach 1	3037	5_BU				2.40	320.00	318.40	321.50		321.76	0.000852	2.26	144.36	81.27	0.46	99.56
Reach 1	3037	1_BU				2.67	403.00	318.40	321.77		322.09	0.000955	2.55	162.16	88.18	0.50	99.24
Reach 1	3037	0p5_BU				2.77	433.00	318.40	321.86		322.21	0.000987	2.64	168.33	91.25	0.51	99.12
Reach 1	3037	0p5-CC-LC_BU				3.26	606.20	318.40	322.35		322.84	0.001122	3.12	202.41	104.55	0.55	98.41
Reach 1	2965	5_BU				2.44	320.00	318.25	321.43	320.38	321.70	0.000798	2.27	141.01	57.82	0.46	100.00
Reach 1	2965	1_BU				2.66	403.00	318.25	321.68	320.65	322.02	0.000965	2.59	155.47	58.53	0.51	100.00
Reach 1	2965	0p5_BU				2.74	433.00	318.25	321.77	320.75	322.14	0.001019	2.70	160.40	58.76	0.52	100.00
Reach 1	2965	0p5-CC-LC_BU				3.18	606.20	318.25	322.21	321.21	322.75	0.001215	3.25	186.98	61.92	0.58	99.98
Reach 1	2946		Bridge														
Reach 1	2919	5_BU				3.35	320.00	317.23	321.47		321.60	0.000212	1.60	200.61	61.77	0.28	99.93
Reach 1	2919	1_BU				3.61	403.00	317.23	321.73		321.90	0.000263	1.87	216.55	62.76	0.31	99.86
Reach 1	2919	0p5_BU				3.70	433.00	317.23	321.81		322.01	0.000280	1.96	222.00	63.13	0.33	99.82
Reach 1	2919	0p5-CC-LC_BU				4.16	606.20	317.23	322.28		322.58	0.000368	2.43	251.87	65.06	0.38	99.56
Reach 1	2850	5_BU				2.57	320.00	318.15	321.36		321.56	0.000543	1.96	163.05	63.56	0.39	100.00
Reach 1	2850	1_BU				2.79	403.00	318.15	321.59		321.85	0.000651	2.27	177.64	64.72	0.43	99.99
Reach 1	2850	0p5_BU				2.86	433.00	318.15	321.66		321.95	0.000687	2.37	182.57	64.87	0.45	99.98
Reach 1	2850	0p5-CC-LC_BU				3.27	606.20	318.15	322.07		322.50	0.000865	2.91	209.02	67.68	0.51	99.90
Reach 1	2800	5_BU				2.23	320.00	317.92	321.34		321.53	0.000642	1.95	186.71	110.81	0.42	97.48
Reach 1	2800	1_BU				2.40	403.00	317.92	321.57		321.81	0.000725	2.20	213.00	114.44	0.45	96.61
Reach 1	2800	0p5_BU				2.47	433.00	317.92	321.65		321.91	0.000751	2.28	222.19	117.36	0.46	96.36
Reach 1	2800	0p5-CC-LC_BU				2.85	606.20	317.92	322.08		322.43	0.000843	2.68	277.17	137.53	0.51	95.16
Reach 1	2770	5_BU				2.07	320.00	317.84	321.29		321.50	0.000792	2.06	165.40	97.03	0.46	98.99
Reach 1	2770	1_BU				2.25	403.00	317.84	321.51		321.78	0.000907	2.33	187.13	99.11	0.50	98.47
Reach 1	2770	0p5_BU				2.32	433.00	317.84	321.58		321.88	0.000940	2.42	194.59	101.02	0.51	98.30
Reach 1	2770	0p5-CC-LC_BU				2.63	606.20	317.84	322.00		322.40	0.001076	2.83	238.00	117.28	0.56	97.44
Reach 1	2750	5_BU				1.91	320.00	318.03	321.25		321.48	0.000939	2.13	150.03	78.47	0.49	100.00
Reach 1	2750	1_BU				2.09	403.00	318.03	321.46		321.76	0.001073	2.42	166.68	79.72	0.53	100.00
Reach 1	2750	0p5_BU				2.15	433.00	318.03	321.53		321.85	0.001114	2.51	172.32	80.00	0.55	100.00
Reach 1	2750	0p5-CC-LC_BU				2.49	606.20	318.03	321.92		322.37	0.001287	2.98	203.85	86.28	0.60	99.99
Reach 1	2700	5_BU				1.68	320.00	318.39	321.21		321.43	0.001072	2.10	152.62	90.75	0.52	100.00
Reach 1	2700	1_BU				1.87	403.00	318.39	321.42		321.70	0.001161	2.34	171.97	92.86	0.55	100.00
Reach 1	2700	0p5_BU				1.94	433.00	318.39	321.49		321.79	0.001186	2.42	178.60	94.20	0.56	100.00

HEC-RAS Plan: KR_Jam_25700 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	2700	0p5-CC-LC_BU				2.34	606.20	318.39	321.89		322.29	0.001245	2.81	215.72	98.83	0.59	99.97
Reach 1	2666	5_BU				1.53	320.00	318.64	321.11		321.38	0.001479	2.31	138.40	90.37	0.60	100.00
Reach 1	2666	1_BU				1.72	403.00	318.64	321.31		321.65	0.001586	2.58	156.22	91.07	0.63	100.00
Reach 1	2666	0p5_BU				1.78	433.00	318.64	321.37		321.74	0.001618	2.67	162.30	91.28	0.64	100.00
Reach 1	2666	0p5-CC-LC_BU				2.14	606.20	318.64	321.76		322.24	0.001679	3.07	197.36	93.08	0.67	100.00
Reach 1	2650	5_BU				1.53	320.00	318.67	321.06		321.36	0.001610	2.41	133.00	94.44	0.62	99.94
Reach 1	2650	1_BU				1.71	403.00	318.67	321.24		321.62	0.001756	2.71	149.44	98.47	0.66	99.81
Reach 1	2650	0p5_BU				1.77	433.00	318.67	321.30		321.71	0.001799	2.81	155.04	99.35	0.67	99.76
Reach 1	2650	0p5-CC-LC_BU				2.13	606.20	318.67	321.66		322.20	0.001892	3.26	187.85	104.90	0.71	99.39
Reach 1	2600	5_BU				1.42	320.00	318.85	321.00		321.27	0.001619	2.31	138.88	129.85	0.62	99.97
Reach 1	2600	1_BU				1.60	403.00	318.85	321.18		321.52	0.001715	2.57	157.21	135.19	0.65	99.92
Reach 1	2600	0p5_BU				1.66	433.00	318.85	321.24		321.60	0.001742	2.65	163.50	136.29	0.66	99.90
Reach 1	2600	0p5-CC-LC_BU				2.04	606.20	318.85	321.62		322.09	0.001716	3.02	201.47	155.84	0.68	99.78
Reach 1	2563	5_BU				1.29	320.00	319.01	320.89		321.20	0.002065	2.44	131.10	102.05	0.69	100.00
Reach 1	2563	1_BU				1.46	403.00	319.01	321.07		321.44	0.002151	2.70	149.22	118.27	0.71	100.00
Reach 1	2563	0p5_BU				1.52	433.00	319.01	321.13		321.53	0.002172	2.78	155.52	122.83	0.72	100.00
Reach 1	2563	0p5-CC-LC_BU				1.91	606.20	319.01	321.54		322.02	0.001948	3.07	197.28	139.18	0.71	99.99
Reach 1	2550	5_BU				1.31	320.00	318.95	320.87		321.17	0.002010	2.43	131.47	127.32	0.68	100.00
Reach 1	2550	1_BU				1.48	403.00	318.95	321.04		321.42	0.002101	2.70	149.12	138.36	0.71	99.99
Reach 1	2550	0p5_BU				1.54	433.00	318.95	321.10		321.50	0.002126	2.79	155.19	142.01	0.72	99.98
Reach 1	2550	0p5-CC-LC_BU				1.95	606.20	318.95	321.51		321.99	0.001914	3.09	196.56	167.31	0.71	99.85
Reach 1	2500	5_BU				1.32	320.00	318.86	320.77		321.07	0.001957	2.42	133.30	104.85	0.67	99.32
Reach 1	2500	1_BU				1.49	403.00	318.86	320.94		321.31	0.002062	2.69	151.14	107.71	0.70	99.03
Reach 1	2500	0p5_BU				1.55	433.00	318.86	321.00		321.39	0.002088	2.78	157.34	109.91	0.71	98.94
Reach 1	2500	0p5-CC-LC_BU				1.98	606.20	318.86	321.43		321.89	0.001792	3.03	202.81	149.69	0.69	98.32
Reach 1	2464	5_BU				1.24	328.00	318.82	320.67		320.99	0.002313	2.51	130.68	110.84	0.72	100.00
Reach 1	2464	1_BU				1.37	413.80	318.82	320.81		321.22	0.002572	2.84	145.77	116.59	0.77	99.99
Reach 1	2464	0p5_BU				1.42	445.00	318.82	320.86		321.30	0.002671	2.96	150.64	116.89	0.79	99.98
Reach 1	2464	0p5-CC-LC_BU				1.89	623.00	318.82	321.34		321.82	0.001970	3.07	203.43	135.25	0.71	99.87
Reach 1	2400	5_BU				1.14	328.00	318.95	320.55		320.83	0.002306	2.33	141.19	126.37	0.70	99.99
Reach 1	2400	1_BU				1.27	413.80	318.95	320.69		321.04	0.002575	2.62	158.57	128.45	0.74	99.94
Reach 1	2400	0p5_BU				1.31	445.00	318.95	320.73		321.11	0.002682	2.72	164.09	129.28	0.76	99.93
Reach 1	2400	0p5-CC-LC_BU				1.91	623.00	318.95	321.33		321.67	0.001575	2.60	254.36	196.55	0.60	99.07
Reach 1	2369	5_BU				0.89	328.00	318.74	320.39	320.30	320.73	0.004225	2.59	127.60	151.30	0.88	99.93
Reach 1	2369	1_BU				1.07	413.80	318.74	320.57	320.45	320.94	0.003674	2.70	155.79	154.57	0.83	99.74
Reach 1	2369	0p5_BU				1.12	445.00	318.74	320.62	320.50	321.01	0.003663	2.77	163.62	155.96	0.84	99.68
Reach 1	2369	0p5-CC-LC_BU				1.83	623.00	318.74	321.33		321.60	0.001444	2.35	288.26	232.45	0.55	98.29
Reach 1	2350	5_BU				1.05	328.00	318.43	320.41		320.64	0.002315	2.13	160.16	160.38	0.66	98.83
Reach 1	2350	1_BU				1.14	413.80	318.43	320.60		320.85	0.002258	2.25	192.84	177.23	0.67	98.50
Reach 1	2350	0p5_BU				1.20	445.00	318.43	320.65		320.92	0.002244	2.30	202.65	177.99	0.67	98.42
Reach 1	2350	0p5-CC-LC_BU				1.90	623.00	318.43	321.36		321.56	0.000959	1.99	353.43	293.10	0.46	96.83
Reach 1	2300	5_BU				1.07	328.00	317.71	320.35		320.51	0.001803	1.78	190.75	187.27	0.55	98.75
Reach 1	2300	1_BU				1.27	413.80	317.71	320.56		320.74	0.001575	1.88	229.25	189.69	0.53	98.52
Reach 1	2300	0p5_BU				1.32	445.00	317.71	320.61		320.80	0.001565	1.94	240.20	190.41	0.54	98.46
Reach 1	2300	0p5-CC-LC_BU				2.06	623.00	317.71	321.36		321.50	0.000662	1.71	414.82	331.33	0.38	97.12
Reach 1	2254	5_BU				1.04	328.00	317.67	319.85	319.85	320.34	0.006168	3.11	109.28	153.24	0.98	99.31
Reach 1	2254	1_BU				1.09	413.80	317.67	320.05	320.05	320.57	0.006361	3.23	134.33	170.39	0.99	98.65
Reach 1	2254	0p5_BU				1.16	445.00	317.67	320.19	320.11	320.65	0.005326	3.06	153.80	180.77	0.91	98.20
Reach 1	2254	0p5-CC-LC_BU				1.90	623.00	317.67	321.30		321.46	0.000982	1.87	416.87	429.81	0.43	93.75
Reach 1	2200	5_BU				0.98	328.00	317.45	319.53	319.54	320.04	0.004941	3.16	103.90	107.93	1.02	99.98
Reach 1	2200	1_BU				1.19	413.80	317.45	319.79	319.72	320.29	0.003839	3.14	132.83	114.78	0.92	99.89
Reach 1	2200	0p5_BU				1.42	445.00	317.45	320.06		320.44	0.002362	2.74	164.60	137.26	0.74	99.78
Reach 1	2200	0p5-CC-LC_BU				1.90	623.00	317.45	321.28		321.41	0.000590	1.64	485.88	444.60	0.38	93.84
Reach 1	2168	5_BU				0.81	328.00	317.62	319.29	319.38	319.85	0.007107	3.32	99.35	130.50	1.18	99.92
Reach 1	2168	1_BU				1.28	413.80	317.62	319.84		320.14	0.002056	2.42	174.00	160.21	0.68	99.56
Reach 1	2168	0p5_BU				1.47	445.00	317.62	320.11		320.34	0.001340	2.14	216.35	200.89	0.56	99.04
Reach 1	2168	0p5-CC-LC_BU				1.95	623.00	317.62	321.30		321.38	0.000323	1.27	622.21	489.61	0.29	91.69
Reach 1	2054	5_BU				1.17	328.00	317.47	319.42	318.95	319.54	0.000992	1.58	215.17	209.07	0.47	93.24
Reach 1	2054	1_BU				1.60	413.80	317.47	319.89		319.98	0.000491	1.37	322.08	246.15	0.35	90.06
Reach 1	2054	0p5_BU				1.83	445.00	317.47	320.15		320.23	0.000330	1.23	389.00	264.65	0.29	87.60
Reach 1	2054	0p5-CC-LC_BU				2.53	623.00	317.47	321.32		321.35	0.000103	0.85	813.50	414.77	0.17	77.51
Reach 1	1884	5_BU				1.76	328.00	315.75	319.08		319.34	0.001167	2.25	148.18	94.59	0.54	99.08
Reach 1	1884	1_BU				2.40	413.80	315.75	319.72		319.89	0.000540	1.88	260.50	212.16	0.39	89.42
Reach 1	1884	0p5_BU				2.72	445.00	315.75	320.05		320.17	0.000356	1.66	333.78	253.74	0.32	83.28
Reach 1	1884	0p5-CC-LC_BU				3.96	623.00	315.75	321.28		321.33	0.000105	1.16	740.48	366.60	0.19	60.50
Reach 1	1760	5_BU				2.29	328.00	315.68	318.93		319.21	0.000959	2.42	151.26	122.64	0.51	94.78
Reach 1	1760	1_BU				2.92	413.80	315.68	319.68		319.83	0.000421	1.88	284.81	212.77	0.35	78.47
Reach 1	1760	0p5_BU				3.26	445.00	315.68	320.02		320.13	0.000278	1.64	362.94	245.81	0.29	71.14
Reach 1	1760	0p5-CC-LC_BU				4.50	623.00	315.68	321.27		321.32	0.000104	1.25	682.98	271.53	0.19	53.45
Reach 1	1639	5_BU				2.24	328.00	314.98	318.93	317.49	319.09	0.000545	1.79	186.85	121.18	0.38	99.54
Reach 1	1639	1_BU				2.96	413.80	314.98	319.65	317.99	319.78	0.000326	1.67	269.30	147.29	0.31	97.18
Reach 1	1639	0p5_BU				3.28	445.00	314.98	319.97	318.08	320.10	0.000258	1.59	313.41	166.63	0.28	95.72
Reach 1	1639	0p5-CC-LC_BU				4.51	623.00	314.98	321.20	318.49	321.30	0.000154	1.52	490.86	219.49	0.23	89.66
Reach 1	1548	5_BU				2.66	328.00	314.79	318.87	317.38	319.04	0.000464	1.85	177.21	83.95	0.36	100.00
Reach 1	1548	1_BU				3.29	413.80	314.79	319.58	317.65	319.75	0.000347	1.84	225.25	98.13	0.32	99.99
Reach 1	1548	0p5_BU				3.61	445.00	314.79	319.90	317.77	320.07	0.000293	1.80	247.96	105.87	0.30	99.95
Reach 1	1548	0p5-CC-LC_BU				4.81	623.00	314.79	321.10	318.24	321.28	0.000218	1.88	338.07	175.40	0.27	99.30
Reach 1	1460	5_BU				2.02	328.00	316.31	318.84	317.89	318.99	0.000559	1.70	213.79	178.90	0.38	96.38
Reach 1	1460	1_BU				2.77	413.80	316.31	319.59	318.08	319.70	0.000289	1.51	322.14	248.68	0.29	93.03
Reach 1	1460	0p5_BU				3.11	445.00	316.31	319.93	318.15	320.02	0.000218	1.42	376.16	266.33	0.26	90.90
Reach 1	1460	0p5-CC-LC_BU				4.33	623.00	316.31	321.16	318.49	321.24	0.000120	1.31	591.46	313.61	0.20	83.90
Reach 1	1371	5_BU				1.85	328.00	315.74	318.81	317.86	318.91	0.000970	1.45	253.27	172.05	0.34	92.50
Reach 1	1371	1_BU				2.63	413.80	315.74	319.59	318.02	319.66	0.000446	1.22	407.50	220.75	0.24	87.72
Reach 1	1371	0p5_BU				2.97	445.00	315.74	319.93	318.08	319.99	0.000319	1.11	483.76	231.38	0.21	84.10
Reach 1	1371	0p5-CC-LC_BU				4.21	623.00	315.74	321.17	318.38	321.21	0.000156	0.97	785.64	341.16	0.15	74.18
Reach 1	1226	5_BU				2.20	328.00	315.18	318.65	317.48	318.77	0.000940	1.58	224.47	124.53	0.34	96.91
Reach 1	1226	1_BU				3.06	413.80	315.18	319.50	317.71	319.59	0.000475	1.37	381.73	218.03	0.25	92.52
Reach 1	1226	0p5_BU				3.42	445.00	315.18	319.86	317.78	319.94	0.000353	1.27	463.56	228.92	0.22	89.01
Reach 1	1226	0p5-CC-LC_BU				4.69	623.00	315.18	321.13	318.14	321.18	0.000193	1.14	770.17	329.62	0.17	78.60
Reach 1	1171	5_BU				2.44	328.00	314.92	318.63	317.20	318.72	0.000593	1.34	302.91	192.44	0.27	92.28
Reach 1	1171	1_BU				3.31	413.80	314.92	319.50	317.44	319.56	0.000296	1.14	501.93	271.23	0.20	84.71
Reach 1	1171	0p5_BU				3.67	445.00	314.92	319.86	317.51	319.91	0.000231	1.08	601.45	278.50	0.18	82.42
Reach 1	1171	0p5-CC-LC_BU				4.94	623.00	314.92	321.13	317.89	321.17	0.000126	0.96	1001.73	369.12	0.14	70.90
Reach 1	1060	5_BU				2.97	328.00	314.65	318.60	316.72	318.66	0.000356	1.17	348.30	210.07	0.22	93.21
Reach 1	1060	1_BU				3.85	413.80	314.65	319.48	316.92	319.53	0.000197	1.04	572.12	330.75	0.17	85.08
Reach 1	1060	0p5_BU				4.22	445.00	314.65	319.85	316.99	319.89	0.000154	0.97	696.52	341.21	0.15	81.43
Reach 1	1060	0p5-CC-LC_BU				5.50	623.00	314.65	321.12	317.35	321.16	0.000093	0.90	1135.77	347.36	0.12	70.10

HEC-RAS Plan: KR_Jam_25700 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	964	5_BU				2.76	328.00	314.83	318.59	316.49	318.63	0.000229	0.89	445.60	284.73	0.17	94.36
Reach 1	964	1_BU				3.66	413.80	314.83	319.48	316.71	319.51	0.000121	0.78	719.47	317.08	0.13	86.67
Reach 1	964	0p5_BU				4.03	445.00	314.83	319.85	316.78	319.87	0.000095	0.74	837.53	326.13	0.12	83.84
Reach 1	964	0p5-CC-LC_BU				5.30	623.00	314.83	321.12	317.15	321.15	0.000062	0.72	1266.49	375.70	0.10	76.63
Reach 1	856	5_BU				2.74	328.00	314.15	318.58	316.32	318.60	0.000164	0.75	563.50	317.43	0.14	86.98
Reach 1	856	1_BU				3.65	413.80	314.15	319.48	316.51	319.50	0.000088	0.66	865.55	387.73	0.11	81.32
Reach 1	856	0p5_BU				4.01	445.00	314.15	319.85	316.58	319.86	0.000070	0.63	993.31	392.91	0.10	78.84
Reach 1	856	0p5-CC-LC_BU				5.29	623.00	314.15	321.12	316.90	321.14	0.000046	0.62	1443.68	438.41	0.09	72.84
Reach 1	746	5_BU				3.12	328.00	313.89	318.57	316.13	318.59	0.000082	0.58	716.97	434.89	0.10	92.69
Reach 1	746	1_BU				4.02	413.80	313.89	319.48	316.27	319.49	0.000046	0.51	1118.86	566.57	0.08	84.21
Reach 1	746	0p5_BU				4.39	445.00	313.89	319.85	316.31	319.86	0.000037	0.49	1288.74	601.50	0.07	81.46
Reach 1	746	0p5-CC-LC_BU				5.67	623.00	313.89	321.12	316.55	321.13	0.000026	0.48	1892.63	664.17	0.06	74.24
Reach 1	638	5_BU				3.16	328.00	313.68	318.57	315.88	318.58	0.000060	0.50	773.57	484.53	0.09	95.79
Reach 1	638	1_BU				4.07	413.80	313.68	319.47	316.05	319.48	0.000035	0.45	1245.00	705.98	0.07	88.42
Reach 1	638	0p5_BU				4.44	445.00	313.68	319.84	316.11	319.85	0.000028	0.43	1450.27	759.64	0.07	85.75
Reach 1	638	0p5-CC-LC_BU				5.72	623.00	313.68	321.12	316.40	321.13	0.000019	0.42	2180.02	873.57	0.06	77.42

HEC-RAS Plan: KR_Jam_30950 River: Klondike River Reach: Reach 1

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	58149	5_BU				0.60	211.80	457.19	459.11	458.78	459.18	0.003960	1.28	176.98	311.40	0.53	69.92
Reach 1	58149	1_BU				0.62	258.70	457.19	459.21	458.88	459.29	0.003968	1.31	209.35	358.41	0.53	68.61
Reach 1	58149	0p5_BU				0.63	274.10	457.19	459.23	458.92	459.31	0.003967	1.34	218.21	365.59	0.54	68.59
Reach 1	58149	0p5-CC-LC_BU				0.78	383.70	457.19	459.40	459.08	459.50	0.003748	1.50	283.35	422.35	0.54	69.68
Reach 1	57145	5_BU				1.56	211.80	454.28	457.10		457.15	0.001219	1.40	307.38	553.20	0.36	51.15
Reach 1	57145	1_BU				1.67	258.70	454.28	457.21		457.26	0.001207	1.46	371.49	616.50	0.36	46.72
Reach 1	57145	0p5_BU				1.70	274.10	454.28	457.24		457.30	0.001201	1.48	392.42	637.56	0.36	45.45
Reach 1	57145	0p5-CC-LC_BU				1.89	383.70	454.28	457.43	456.97	457.49	0.001229	1.60	523.14	758.51	0.37	39.14
Reach 1	56479	5_BU				1.05	240.10	453.12	455.47	455.09	455.51	0.005101	1.12	306.13	656.22	0.35	32.50
Reach 1	56479	1_BU				1.11	296.00	453.12	455.54	455.20	455.58	0.005627	1.22	349.22	708.62	0.37	30.50
Reach 1	56479	0p5_BU				1.13	314.90	453.12	455.55	455.23	455.60	0.005788	1.26	362.46	723.99	0.38	29.88
Reach 1	56479	0p5-CC-LC_BU				1.25	440.90	453.12	455.68	455.34	455.74	0.006242	1.40	463.40	836.79	0.40	26.46
Reach 1	56103	5_BU				1.35	240.10	452.81	454.88	454.59	454.92	0.001233	1.30	480.43	1110.99	0.36	43.21
Reach 1	56103	1_BU				1.48	296.00	452.81	455.00	454.65	455.04	0.001075	1.28	619.04	1250.15	0.34	37.86
Reach 1	56103	0p5_BU				1.51	314.90	452.81	455.04	454.68	455.07	0.001035	1.28	660.65	1276.27	0.33	36.31
Reach 1	56103	0p5-CC-LC_BU				1.72	440.90	452.81	455.25	454.80	455.28	0.000857	1.27	929.03	1384.61	0.31	29.36
Reach 1	54315	5_BU				1.45	240.10	449.60	451.73	451.23	451.91	0.002405	2.04	149.24	151.29	0.54	82.29
Reach 1	54315	1_BU				1.56	296.00	449.60	451.85	451.42	452.08	0.002828	2.28	169.94	189.14	0.58	80.99
Reach 1	54315	0p5_BU				1.60	314.90	449.60	451.89	451.48	452.13	0.002970	2.36	177.13	201.14	0.60	80.66
Reach 1	54315	0p5-CC-LC_BU				1.79	440.90	449.60	452.08	451.78	452.41	0.003875	2.83	223.56	333.53	0.68	77.50
Reach 1	53429	5_BU				1.05	240.10	446.75	449.04	448.76	449.17	0.004087	1.81	160.79	290.59	0.56	64.39
Reach 1	53429	1_BU				1.23	296.00	446.75	449.22	448.87	449.34	0.003287	1.78	219.19	358.12	0.51	60.40
Reach 1	53429	0p5_BU				1.28	314.90	446.75	449.27	448.91	449.39	0.003094	1.78	239.73	373.58	0.50	59.14
Reach 1	53429	0p5-CC-LC_BU				1.57	440.90	446.75	449.61	449.12	449.71	0.002282	1.71	378.63	448.34	0.44	51.57
Reach 1	52840	5_BU				1.89	240.10	445.50	448.33		448.40	0.000706	1.22	225.51	161.57	0.28	91.14
Reach 1	52840	1_BU				2.09	296.00	445.50	448.53		448.61	0.000743	1.34	258.72	170.72	0.30	89.43
Reach 1	52840	0p5_BU				2.15	314.90	445.50	448.59		448.67	0.000755	1.38	269.27	175.04	0.30	88.94
Reach 1	52840	0p5-CC-LC_BU				2.49	440.90	445.50	448.93		449.05	0.000850	1.61	332.21	197.46	0.33	86.24
Reach 1	52279	5_BU				1.55	240.10	445.07	447.57		447.74	0.002219	1.90	140.01	174.63	0.49	97.07
Reach 1	52279	1_BU				1.71	296.00	445.07	447.73		447.93	0.002266	2.05	171.53	236.34	0.50	93.97
Reach 1	52279	0p5_BU				1.76	314.90	445.07	447.78		447.99	0.002290	2.10	182.03	249.32	0.51	92.95
Reach 1	52279	0p5-CC-LC_BU				2.03	440.90	445.07	448.05		448.29	0.002398	2.36	259.18	435.16	0.53	86.14
Reach 1	50899	5_BU				1.15	290.80	441.51	444.17		444.28	0.002637	1.69	262.99	378.00	0.50	75.78
Reach 1	50899	1_BU				1.25	363.60	441.51	444.31		444.43	0.002606	1.77	317.75	413.08	0.51	71.67
Reach 1	50899	0p5_BU				1.29	389.40	441.51	444.35		444.47	0.002582	1.81	336.60	423.60	0.51	70.54
Reach 1	50899	0p5-CC-LC_BU				1.50	545.10	441.51	444.60		444.73	0.002497	1.97	452.29	539.39	0.51	65.49
Reach 1	50334	5_BU				1.02	290.80	440.40	442.61		442.73	0.002914	1.65	216.07	310.43	0.52	89.27
Reach 1	50334	1_BU				1.14	363.60	440.40	442.73		442.88	0.002951	1.79	257.36	333.37	0.53	87.44
Reach 1	50334	0p5_BU				1.18	389.40	440.40	442.77		442.93	0.002979	1.84	271.26	347.22	0.54	86.94
Reach 1	50334	0p5-CC-LC_BU				1.41	545.10	440.40	443.00		443.19	0.003073	2.10	356.59	431.66	0.56	84.15
Reach 1	49973	5_BU				0.95	290.80	439.55	441.75	441.29	441.84	0.002227	1.37	233.64	298.17	0.45	92.65
Reach 1	49973	1_BU				1.06	363.60	439.55	441.89	441.47	441.99	0.002209	1.47	275.80	315.71	0.46	91.24
Reach 1	49973	0p5_BU				1.11	389.40	439.55	441.93	441.50	442.04	0.002190	1.51	289.92	320.11	0.46	90.82
Reach 1	49973	0p5-CC-LC_BU				1.35	545.10	439.55	442.17	441.67	442.30	0.002137	1.70	371.89	372.72	0.47	88.82
Reach 1	49383	5_BU				1.08	290.80	437.54	440.17		440.29	0.002869	1.69	199.86	221.20	0.52	73.70
Reach 1	49383	1_BU				1.22	363.60	437.54	440.35		440.48	0.002705	1.78	241.99	244.73	0.51	72.61
Reach 1	49383	0p5_BU				1.25	389.40	437.54	440.41		440.55	0.002671	1.80	257.13	255.51	0.51	72.07
Reach 1	49383	0p5-CC-LC_BU				1.47	545.10	437.54	440.73		440.88	0.002472	1.92	355.69	365.82	0.51	69.86
Reach 1	49175	5_BU				1.05	290.80	437.30	439.65		439.78	0.001867	1.56	187.04	181.06	0.48	99.97
Reach 1	49175	1_BU				1.14	363.60	437.30	439.86		439.99	0.001806	1.61	226.96	208.03	0.48	99.86
Reach 1	49175	0p5_BU				1.17	389.40	437.30	439.93		440.06	0.001806	1.63	240.54	220.70	0.48	99.82
Reach 1	49175	0p5-CC-LC_BU				1.45	545.10	437.30	440.27		440.42	0.001764	1.74	324.90	263.71	0.46	99.05
Reach 1	49000	5_BU				1.18	290.80	436.74	439.25		439.40	0.002557	1.69	178.29	167.36	0.50	97.96
Reach 1	49000	1_BU				1.28	363.60	436.74	439.48		439.63	0.002432	1.75	219.88	196.73	0.49	97.18
Reach 1	49000	0p5_BU				1.33	389.40	436.74	439.55		439.70	0.002354	1.77	233.67	201.66	0.49	96.85
Reach 1	49000	0p5-CC-LC_BU				1.66	545.10	436.74	439.92		440.09	0.002001	1.89	315.20	239.18	0.47	95.08
Reach 1	48700	5_BU				1.35	290.80	435.90	438.75		438.85	0.001302	1.42	205.87	172.61	0.39	99.96
Reach 1	48700	1_BU				1.58	363.60	435.90	438.98		439.09	0.001309	1.51	241.68	181.33	0.38	99.84
Reach 1	48700	0p5_BU				1.65	389.40	435.90	439.05		439.17	0.001316	1.55	253.42	187.02	0.38	99.78
Reach 1	48700	0p5-CC-LC_BU				2.04	545.10	435.90	439.44		439.60	0.001365	1.74	320.13	249.20	0.39	99.16
Reach 1	48530	5_BU				1.59	290.80	435.46	438.32	437.75	438.54	0.002629	2.09	150.63	142.57	0.53	98.38
Reach 1	48530	1_BU				1.78	363.60	435.46	438.51	437.93	438.77	0.002700	2.28	180.97	168.63	0.55	96.73
Reach 1	48530	0p5_BU				1.85	389.40	435.46	438.58	437.99	438.85	0.002716	2.35	192.06	179.12	0.55	96.07
Reach 1	48530	0p5-CC-LC_BU				2.20	545.10	435.46	438.93	438.40	439.26	0.002704	2.63	266.40	241.42	0.57	91.85
Reach 1	48400	5_BU				1.46	290.80	435.59	438.01		438.20	0.002423	1.95	172.86	184.61	0.52	95.64
Reach 1	48400	1_BU				1.66	363.60	435.59	438.22		438.43	0.002378	2.10	213.74	214.62	0.52	93.57
Reach 1	48400	0p5_BU				1.73	389.40	435.59	438.29		438.50	0.002345	2.13	228.98	222.76	0.52	92.66
Reach 1	48400	0p5-CC-LC_BU				2.12	545.10	435.59	438.68		438.92	0.002109	2.30	327.11	289.27	0.50	87.41
Reach 1	48250	5_BU				1.37	290.80	435.03	437.51		437.76	0.003482	2.20	140.07	144.73	0.60	98.84
Reach 1	48250	1_BU				1.64	363.60	435.03	437.78		438.03	0.002897	2.25	181.47	171.22	0.56	96.52
Reach 1	48250	0p5_BU				1.73	389.40	435.03	437.87		438.12	0.002720	2.26	198.18	198.67	0.55	95.52
Reach 1	48250	0p5-CC-LC_BU				2.23	545.10	435.03	438.37		438.61	0.001971	2.28	312.05	249.54	0.49	88.82
Reach 1	48100	5_BU				1.61	290.80	434.27	437.19		437.36	0.001910	1.85	156.94	97.43	0.47	100.00
Reach 1	48100	1_BU				1.85	363.60	434.27	437.48		437.68	0.001763	1.95	186.56	100.80	0.46	100.00
Reach 1	48100	0p5_BU				1.93	389.40	434.27	437.58		437.78	0.001735	1.98	196.44	101.88	0.46	100.00
Reach 1	48100	0p5-CC-LC_BU				2.36	545.10	434.27	438.10		438.34	0.001592	2.17	250.81	107.83	0.45	99.99
Reach 1	48010	5_BU				1.94	290.80	433.89	436.99		437.19	0.001805	1.98	147.16	75.94	0.45	100.00
Reach 1	48010	1_BU				2.11	363.60	433.89	437.27		437.51	0.001956	2.15	168.83	79.84	0.47	100.00
Reach 1	48010	0p5_BU				2.19	389.40	433.89	437.36		437.61	0.001990	2.21	176.10	80.43	0.48	100.00
Reach 1	48010	0p5-CC-LC_BU				2.60	545.10	433.89	437.84		438.17	0.002150	2.53	215.66	83.57	0.50	100.00
Reach 1	47901	5_BU				2.30	290.80	433.20	436.85		437.02	0.001211	1.82	160.01	70.67	0.38	99.98
Reach 1	47901	1_BU				2.56	363.60	433.20	437.11		437.32	0.001325	2.04	178.42	71.58	0.41	99.93
Reach 1	47901	0p5_BU				2.64	389.40	433.20	437.20		437.42	0.001362	2.12	184.49	71.88	0.42	99.91
Reach 1	47901	0p5-CC-LC_BU				3.08	545.10	433.20	437.64		437.97	0.001583	2.53	216.81	73.45	0.46	99.72
Reach 1	47790	5_BU				2.18	290.80	433.56	436.76		436.88	0.001084	1.58	184.27	84.47	0.34	100.00
Reach 1	47790	1_BU				2.40	363.60	433.56	437.01		437.17	0.001214	1.77	205.87	85.91	0.36	100.00
Reach 1	47790	0p5_BU				2.47	389.40	433.56	437.09		437.26	0.001259	1.83	213.03	86.41	0.37	100.00
Reach 1	47790	0p5-CC-LC_BU				2.85	545.10	433.56	437.53		437.77	0.001494	2.17	251.40	88.35	0.41	100.00
Reach 1	47700	5_BU				1.92	290.80	433.03	436.61	435.48	436.77	0.001328	1.76	165.54	86.19	0.40	100.00
Reach 1	47700	1_BU				2.11	363.60	433.03	436.85	435.72	437.05	0.001455	1.95	186.14	88.07	0.43	100.00
Reach 1	47700	0p5_BU				2.18	389.40	433.03	436.93	435.81	437.14	0.001492	2.02	192.98	88.50	0.44	100.00
Reach 1	47700	0p5-CC-LC_BU				2.53	545.10	433.03	437.33	436.23	437.62	0.001722	2.38	229.29	90.52	0.48	100.00
Reach 1	47550	5_BU				1.58	290.80	433.60	436.34	435.62	436.52	0.002061	1.91	152.11	96.52	0.49	100.00
Reach 1	47550	1_BU				1.72	363.60	433.60	436.56	435.82	436.78	0.002155	2.09	173.91	100.94	0.51	100.00
Reach 1	47550	0p5_BU				1.77	389.40	433.60	436.63	435.88	436.86	0.002193	2.15	181.26	102.69	0.52	100.00
Reach 1	47550	0p5-CC-LC_BU				2.09	545.10	433.60	437.02	436.23	437.32	0.002326	2.45	223.79	114.98	0.54	99.91
Reach 1	47390	5_BU				1.63	290.80	434.08	436.11		436.23	0.001427	1.59	183.42	114.36	0.40	99.99
Reach 1	47390	1_BU				1.81	363.60	434.08	436.31		436.47	0.001529	1.76	207.47	116.78	0.42	99.96

HEC-RAS Plan: KR_Jam_30950 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	47390	0p5_BU				1.88	389.40	434.08	436.38		436.55	0.001561	1.81	215.49	117.95	0.42	99.95
Reach 1	47390	0p5-CC-LC_BU				2.24	545.10	434.08	436.75		436.98	0.001728	2.12	262.25	146.18	0.45	99.77
Reach 1	47300	5_BU				1.43	290.80	433.73	435.91		436.04	0.003485	1.62	179.96	125.61	0.43	100.00
Reach 1	47300	1_BU				1.63	363.60	433.73	436.11		436.27	0.003540	1.77	205.35	126.98	0.44	100.00
Reach 1	47300	0p5_BU				1.70	389.40	433.73	436.18		436.35	0.003556	1.82	213.76	127.58	0.45	99.99
Reach 1	47300	0p5-CC-LC_BU				2.05	545.10	433.73	436.53		436.76	0.003671	2.10	262.15	152.05	0.47	99.82
Reach 1	47150	5_BU				1.40	290.80	433.25	435.27		435.51	0.003443	2.23	149.59	144.87	0.60	94.89
Reach 1	47150	1_BU				1.61	363.60	433.25	435.48		435.75	0.003273	2.38	181.09	159.22	0.60	93.06
Reach 1	47150	0p5_BU				1.68	389.40	433.25	435.55		435.82	0.003222	2.43	192.33	165.15	0.60	92.45
Reach 1	47150	0p5-CC-LC_BU				2.05	545.10	433.25	435.91		436.25	0.003043	2.69	254.56	171.80	0.60	89.19
Reach 1	47000	5_BU				1.44	290.80	432.80	434.82		435.03	0.002826	2.04	149.81	122.95	0.54	98.23
Reach 1	47000	1_BU				1.64	363.60	432.80	435.05		435.29	0.002727	2.19	180.18	148.20	0.55	97.62
Reach 1	47000	0p5_BU				1.70	389.40	432.80	435.12		435.37	0.002716	2.24	191.08	153.99	0.55	97.29
Reach 1	47000	0p5-CC-LC_BU				2.07	545.10	432.80	435.52		435.82	0.002545	2.46	261.54	207.74	0.55	94.50
Reach 1	46850	5_BU				1.56	290.80	432.38	434.53		434.68	0.001816	1.75	174.99	123.07	0.45	97.58
Reach 1	46850	1_BU				1.78	363.60	432.38	434.77		434.94	0.001776	1.88	207.02	144.02	0.45	96.91
Reach 1	46850	0p5_BU				1.85	389.40	432.38	434.84		435.03	0.001767	1.93	218.18	151.02	0.45	96.64
Reach 1	46850	0p5-CC-LC_BU				2.27	545.10	432.38	435.26		435.49	0.001717	2.16	285.75	186.50	0.46	94.81
Reach 1	46700	5_BU				1.60	290.80	431.90	434.11	433.60	434.34	0.002740	2.15	147.10	175.94	0.54	96.00
Reach 1	46700	1_BU				1.77	363.60	431.90	434.34	433.77	434.60	0.002809	2.35	172.41	193.28	0.56	95.38
Reach 1	46700	0p5_BU				1.83	389.40	431.90	434.41	433.84	434.69	0.002806	2.41	181.30	199.81	0.57	95.03
Reach 1	46700	0p5-CC-LC_BU				2.23	545.10	431.90	434.80	434.14	435.15	0.002759	2.71	237.42	254.43	0.58	92.86
Reach 1	46513	5_BU				1.49	290.80	431.49	433.78	433.15	433.97	0.002342	1.91	154.98	120.66	0.50	99.67
Reach 1	46513	1_BU				1.67	363.60	431.49	434.00	433.33	434.22	0.002396	2.06	186.00	172.97	0.51	98.93
Reach 1	46513	0p5_BU				1.73	389.40	431.49	434.08	433.39	434.30	0.002390	2.11	198.88	186.15	0.51	98.50
Reach 1	46513	0p5-CC-LC_BU				2.09	545.10	431.49	434.52	433.73	434.77	0.002211	2.25	283.52	260.90	0.50	95.03
Reach 1	46503		Bridge														
Reach 1	46441	5_BU				1.62	290.80	431.25	433.57		433.76	0.002123	1.92	152.77	112.65	0.48	99.91
Reach 1	46441	1_BU				1.80	363.60	431.25	433.76		433.99	0.002298	2.14	176.62	141.74	0.51	99.31
Reach 1	46441	0p5_BU				1.86	389.40	431.25	433.82		434.07	0.002333	2.20	185.89	152.34	0.52	98.96
Reach 1	46441	0p5-CC-LC_BU				2.23	545.10	431.25	434.19		434.50	0.002366	2.50	251.16	236.92	0.53	95.98
Reach 1	46352	5_BU				1.16	290.80	430.67	432.98		433.26	0.005055	2.36	125.55	123.56	0.70	99.72
Reach 1	46352	1_BU				1.41	363.60	430.67	433.24		433.53	0.004007	2.38	159.15	131.58	0.64	98.94
Reach 1	46352	0p5_BU				1.49	389.40	430.67	433.33		433.61	0.003769	2.40	170.51	134.16	0.63	98.63
Reach 1	46352	0p5-CC-LC_BU				1.94	545.10	430.67	433.79		434.10	0.002896	2.51	238.20	154.35	0.57	96.94
Reach 1	46300	5_BU				1.70	290.80	430.65	432.93		433.08	0.001583	1.71	171.70	119.01	0.42	99.96
Reach 1	46300	1_BU				1.95	363.60	430.65	433.20		433.37	0.001518	1.83	206.94	140.81	0.42	99.34
Reach 1	46300	0p5_BU				2.04	389.40	430.65	433.29		433.46	0.001499	1.87	219.22	142.63	0.42	99.01
Reach 1	46300	0p5-CC-LC_BU				2.49	545.10	430.65	433.75		433.97	0.001428	2.09	287.14	149.14	0.42	97.10
Reach 1	46250	5_BU				1.74	290.80	430.61	432.83		433.00	0.001752	1.82	162.34	105.55	0.44	99.46
Reach 1	46250	1_BU				1.96	363.60	430.61	433.09		433.29	0.001720	1.96	191.40	114.61	0.45	98.65
Reach 1	46250	0p5_BU				2.04	389.40	430.61	433.18		433.38	0.001708	2.00	201.68	122.56	0.45	98.27
Reach 1	46250	0p5-CC-LC_BU				2.51	545.10	430.61	433.65		433.89	0.001595	2.22	261.33	132.53	0.45	95.76
Reach 1	46200	5_BU				1.66	290.80	430.41	432.71		432.90	0.002058	1.92	151.52	91.32	0.48	100.00
Reach 1	46200	1_BU				1.87	363.60	430.41	432.97		433.19	0.002034	2.07	176.33	98.68	0.48	99.95
Reach 1	46200	0p5_BU				1.96	389.40	430.41	433.06		433.29	0.002013	2.12	184.72	100.57	0.48	99.91
Reach 1	46200	0p5-CC-LC_BU				2.41	545.10	430.41	433.51		433.80	0.001946	2.39	235.66	123.76	0.49	99.29
Reach 1	46150	5_BU				1.92	290.80	430.24	432.65		432.81	0.001435	1.74	167.12	89.21	0.40	100.00
Reach 1	46150	1_BU				2.14	363.60	430.24	432.91		433.10	0.001548	1.92	190.29	92.40	0.42	99.95
Reach 1	46150	0p5_BU				2.22	389.40	430.24	432.99		433.19	0.001576	1.98	197.99	93.26	0.42	99.92
Reach 1	46150	0p5-CC-LC_BU				2.62	545.10	430.24	433.44		433.70	0.001723	2.29	242.39	116.91	0.45	99.66
Reach 1	46100	5_BU				1.91	290.80	430.02	432.55		432.73	0.001621	1.87	157.14	85.31	0.43	99.80
Reach 1	46100	1_BU				2.13	363.60	430.02	432.79		433.01	0.001711	2.07	177.99	87.33	0.45	99.69
Reach 1	46100	0p5_BU				2.21	389.40	430.02	432.87		433.10	0.001743	2.13	184.96	93.22	0.46	99.65
Reach 1	46100	0p5-CC-LC_BU				2.64	545.10	430.02	433.30		433.61	0.001859	2.48	239.16	152.57	0.49	98.73
Reach 1	46050	5_BU				1.54	290.80	429.81	432.31		432.60	0.003475	2.38	122.09	81.49	0.61	99.99
Reach 1	46050	1_BU				1.71	363.60	429.81	432.54		432.88	0.003482	2.60	140.55	87.79	0.63	99.92
Reach 1	46050	0p5_BU				1.78	389.40	429.81	432.61		432.97	0.003491	2.67	147.05	91.22	0.64	99.88
Reach 1	46050	0p5-CC-LC_BU				2.14	545.10	429.81	433.01		433.47	0.003473	3.02	190.52	130.22	0.66	99.14
Reach 1	46000	5_BU				1.68	290.80	429.73	432.16		432.44	0.002966	2.33	124.90	74.15	0.57	100.00
Reach 1	46000	1_BU				1.84	363.60	429.73	432.37		432.71	0.003250	2.59	140.85	82.12	0.61	99.99
Reach 1	46000	0p5_BU				1.87	389.40	429.73	432.44		432.80	0.003310	2.67	146.60	88.32	0.62	99.96
Reach 1	46000	0p5-CC-LC_BU				2.22	545.10	429.73	432.81		433.29	0.003592	3.10	184.94	118.94	0.66	99.27
Reach 1	45950	5_BU				1.55	290.80	429.64	432.02		432.28	0.003117	2.26	128.54	82.74	0.58	100.00
Reach 1	45950	1_BU				1.64	363.60	429.64	432.22		432.54	0.003252	2.49	145.75	88.90	0.62	100.00
Reach 1	45950	0p5_BU				1.65	389.40	429.64	432.29		432.63	0.003282	2.56	152.02	91.87	0.64	100.00
Reach 1	45950	0p5-CC-LC_BU				1.60	545.10	429.64	432.68		433.10	0.003370	2.85	192.07	124.34	0.72	99.93
Reach 1	45850	5_BU				1.50	290.80	429.47	431.81		431.99	0.002311	1.90	153.96	111.86	0.50	99.95
Reach 1	45850	1_BU				1.69	363.60	429.47	432.02		432.24	0.002353	2.08	177.77	114.68	0.51	99.74
Reach 1	45850	0p5_BU				1.75	389.40	429.47	432.09		432.32	0.002360	2.13	186.04	116.16	0.51	99.65
Reach 1	45850	0p5-CC-LC_BU				1.99	545.10	429.47	432.49		432.78	0.002380	2.40	235.92	142.88	0.54	99.02
Reach 1	45750	5_BU				1.30	290.80	429.31	431.53		431.73	0.002962	1.96	148.56	114.20	0.55	100.00
Reach 1	45750	1_BU				1.50	363.60	429.31	431.76		431.98	0.002758	2.08	174.90	118.27	0.54	99.99
Reach 1	45750	0p5_BU				1.57	389.40	429.31	431.84		432.07	0.002700	2.12	184.04	120.04	0.54	99.98
Reach 1	45750	0p5-CC-LC_BU				1.94	545.10	429.31	432.25		432.53	0.002553	2.34	235.28	128.54	0.54	99.81
Reach 1	45600	5_BU				1.58	290.80	429.06	431.22		431.38	0.001809	1.75	166.35	105.02	0.44	100.00
Reach 1	45600	1_BU				1.79	363.60	429.06	431.45		431.64	0.001821	1.90	191.18	106.84	0.45	100.00
Reach 1	45600	0p5_BU				1.86	389.40	429.06	431.53		431.73	0.001823	1.95	199.63	107.45	0.46	100.00
Reach 1	45600	0p5-CC-LC_BU				2.18	545.10	429.06	431.93		432.19	0.001938	2.24	244.75	126.33	0.48	99.96
Reach 1	45400	5_BU				1.61	290.80	428.84	430.87		431.02	0.001698	1.71	170.86	115.10	0.43	99.90
Reach 1	45400	1_BU				1.83	363.60	428.84	431.11		431.28	0.001712	1.87	199.12	127.95	0.44	99.65
Reach 1	45400	0p5_BU				1.90	389.40	428.84	431.19		431.37	0.001700	1.91	209.63	132.14	0.44	99.49
Reach 1	45400	0p5-CC-LC_BU				2.26	545.10	428.84	431.57		431.81	0.001794	2.20	266.80	189.94	0.47	98.44
Reach 1	45200	5_BU				1.43	290.80	428.38	430.32		430.56	0.003209	2.18	135.45	102.76	0.58	99.76
Reach 1	45200	1_BU				1.61	363.60	428.38	430.54		430.82	0.003161	2.34	160.71	124.93	0.59	99.35
Reach 1	45200	0p5_BU				1.64	389.40	428.38	430.62		430.91	0.003214	2.38	170.77	134.50	0.59	99.19
Reach 1	45200	0p5-CC-LC_BU				1.96	545.10	428.38	430.99		431.34	0.003119	2.65	237.52	239.32	0.60	97.07
Reach 1	44985	5_BU				1.65	290.80	426.86	429.87		430.03	0.001765	1.77	165.94	114.91	0.44	99.87
Reach 1	44985	1_BU				1.88	363.60	426.86	430.10		430.29	0.001774	1.93	195.49	146.29	0.45	99.38
Reach 1	44985	0p5_BU				1.96	389.40	426.86	430.18		430.38	0.001781	1.99	206.80	162.46	0.45	99.07
Reach 1	44985	0p5-CC-LC_BU				2.34	545.10	426.86	430.56		430.81	0.001812	2.26	286.29	262.32	0.47	96.09
Reach 1	43733	5_BU				1.24	290.80	424.63	427.09		427.26	0.002842	1.85	167.20	154.71	0.53	91.67
Reach 1	43733	1_BU				1.33	363.60	424.63	427.24		427.44	0.002997	2.04	192.56	183.99	0.57	91.08
Reach 1	43733	0p5_BU				1.38	389.40	424.63	427.29		427.50	0.003027	2.10	202.47	195.79	0.57	90.86
Reach 1	43733	0p5-CC-LC_BU				1.64	545.10	424.63	427.56		427.82	0.003219	2.40	261.76	256.98	0.60	88.39
Reach 1	42697	5_BU				1.45	290.80	421.83	425.04	424.42	425.14	0.001612	1.54	289.57	457.65	0.41	77.28
Reach 1	42697	1_BU				1.58	363.60	421.83	425.17	424.76	425.27	0.001628	1.64	352.98	510.00	0.42	71.77

HEC-RAS Plan: KR_Jam_30950 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	42697	0p5_BU				1.62	389.40	421.83	425.21	424.81	425.32	0.001648	1.68	373.47	523.07	0.42	70.25
Reach 1	42697	0p5-CC-LC_BU				1.83	545.10	421.83	425.42	425.03	425.54	0.001731	1.86	487.44	580.12	0.44	62.80
Reach 1	41323	5_BU				0.87	290.80	419.47	421.45		421.64	0.004579	1.95	149.51	170.95	0.66	100.00
Reach 1	41323	1_BU				0.94	363.60	419.47	421.63		421.83	0.004329	1.99	183.54	214.66	0.65	99.96
Reach 1	41323	0p5_BU				0.98	389.40	419.47	421.69		421.90	0.004169	1.99	198.57	264.10	0.64	99.83
Reach 1	41323	0p5-CC-LC_BU				1.08	545.10	419.47	422.01		422.20	0.003660	1.98	308.50	435.96	0.61	95.73
Reach 1	40285	5_BU				1.48	290.80	416.85	419.58		419.62	0.001019	1.23	364.00	463.45	0.32	42.98
Reach 1	40285	1_BU				1.61	363.60	416.85	419.71		419.77	0.001082	1.35	436.88	572.86	0.34	41.14
Reach 1	40285	0p5_BU				1.66	389.40	416.85	419.76		419.81	0.001117	1.40	463.38	605.75	0.35	40.84
Reach 1	40285	0p5-CC-LC_BU				1.86	545.10	416.85	419.96		420.02	0.001281	1.61	590.90	671.86	0.38	37.73
Reach 1	39051	5_BU				0.78	290.80	414.48	417.40		417.47	0.005561	1.25	271.84	600.83	0.45	81.24
Reach 1	39051	1_BU				0.81	363.60	414.48	417.53		417.59	0.005292	1.21	362.94	757.24	0.43	74.59
Reach 1	39051	0p5_BU				0.84	389.40	414.48	417.57		417.63	0.005083	1.21	390.84	792.67	0.42	72.93
Reach 1	39051	0p5-CC-LC_BU				1.01	545.10	414.48	417.76		417.82	0.004223	1.24	561.01	981.85	0.39	65.70
Reach 1	38622	5_BU				0.85	290.80	413.89	416.80		416.82	0.000728	0.71	516.75	959.14	0.25	85.48
Reach 1	38622	1_BU				0.96	363.60	413.89	416.92		416.95	0.000766	0.75	634.90	1138.57	0.24	82.78
Reach 1	38622	0p5_BU				0.99	389.40	413.89	416.96		416.99	0.000779	0.76	674.63	1183.16	0.24	81.85
Reach 1	38622	0p5-CC-LC_BU				1.18	545.10	413.89	417.15		417.18	0.000881	0.85	880.80	1364.72	0.25	77.46
Reach 1	38155	5_BU				1.50	290.80	413.94	415.97	415.74	416.22	0.003668	2.39	195.93	409.87	0.62	85.16
Reach 1	38155	1_BU				1.70	363.60	413.94	416.18	416.00	416.40	0.003036	2.35	297.63	589.26	0.58	76.23
Reach 1	38155	0p5_BU				1.76	389.40	413.94	416.25	416.07	416.45	0.002850	2.33	338.46	657.16	0.56	73.38
Reach 1	38155	0p5-CC-LC_BU				2.07	545.10	413.94	416.56		416.72	0.002050	2.21	577.04	922.58	0.49	58.59
Reach 1	37333	5_BU				1.97	290.80	411.14	413.98		414.18	0.001838	2.03	162.38	147.21	0.46	97.40
Reach 1	37333	1_BU				2.14	363.60	411.14	414.16		414.41	0.002093	2.29	193.91	206.28	0.50	95.77
Reach 1	37333	0p5_BU				2.19	389.40	411.14	414.21		414.48	0.002191	2.37	204.52	216.76	0.51	95.09
Reach 1	37333	0p5-CC-LC_BU				2.42	545.10	411.14	414.44	413.86	414.83	0.002879	2.91	261.69	289.79	0.60	91.83
Reach 1	36316	5_BU				1.61	290.80	409.47	411.96	411.57	412.13	0.002447	2.05	234.59	523.42	0.52	79.39
Reach 1	36316	1_BU				1.69	363.60	409.47	412.13	411.80	412.29	0.002343	2.07	339.30	711.71	0.51	71.21
Reach 1	36316	0p5_BU				1.73	389.40	409.47	412.17		412.33	0.002313	2.09	370.04	740.91	0.51	68.79
Reach 1	36316	0p5-CC-LC_BU				1.96	545.10	409.47	412.41		412.55	0.002063	2.15	563.53	900.33	0.49	57.23
Reach 1	34806	5_BU				1.37	290.80	406.69	408.63		408.76	0.002136	1.72	201.62	182.57	0.47	89.52
Reach 1	34806	1_BU				1.55	363.60	406.69	408.81		408.97	0.002194	1.89	236.27	195.62	0.49	89.14
Reach 1	34806	0p5_BU				1.60	389.40	406.69	408.87		409.04	0.002202	1.94	247.92	198.90	0.49	88.64
Reach 1	34806	0p5-CC-LC_BU				1.89	545.10	406.69	409.18		409.40	0.002309	2.21	312.92	218.86	0.51	86.39
Reach 1	33067	5_BU				1.28	290.80	401.87	404.17	403.67	404.37	0.003083	1.98	147.44	118.97	0.56	99.97
Reach 1	33067	1_BU				1.47	363.60	401.87	404.38	403.86	404.61	0.002956	2.13	172.73	130.12	0.56	99.85
Reach 1	33067	0p5_BU				1.54	389.40	401.87	404.44	403.92	404.69	0.002926	2.18	181.39	153.76	0.56	99.78
Reach 1	33067	0p5-CC-LC_BU				1.91	545.10	401.87	404.82	404.22	405.12	0.002687	2.41	245.64	375.31	0.56	98.64
Reach 1	32800	5_BU				1.48	290.80	401.32	403.45	402.90	403.64	0.002423	1.93	150.73	235.69	0.51	100.00
Reach 1	32800	1_BU				1.68	363.60	401.32	403.66	403.06	403.89	0.002445	2.11	172.45	261.97	0.52	100.00
Reach 1	32800	0p5_BU				1.75	389.40	401.32	403.73	403.11	403.97	0.002454	2.17	179.55	278.12	0.52	100.00
Reach 1	32800	0p5-CC-LC_BU				2.10	545.10	401.32	404.08	403.40	404.41	0.002608	2.53	217.69	503.99	0.56	99.92
Reach 1	32550	5_BU				1.46	290.80	400.66	402.81	402.23	403.02	0.002551	2.04	145.79	217.66	0.54	99.23
Reach 1	32550	1_BU				1.65	363.60	400.66	403.00	402.43	403.25	0.002653	2.23	169.71	305.06	0.55	98.43
Reach 1	32550	0p5_BU				1.71	389.40	400.66	403.06	402.50	403.32	0.002722	2.31	177.31	339.05	0.56	98.15
Reach 1	32550	0p5-CC-LC_BU				2.00	545.10	400.66	403.35	402.85	403.70	0.003036	2.68	225.50	578.97	0.61	95.59
Reach 1	32400	5_BU				2.07	290.80	400.20	402.76	401.71	402.81	0.000552	1.15	319.69	209.74	0.25	61.28
Reach 1	32400	1_BU				2.27	363.60	400.20	402.96	401.83	403.02	0.000604	1.28	363.42	249.89	0.27	59.70
Reach 1	32400	0p5_BU				2.32	389.40	400.20	403.02	401.87	403.09	0.000628	1.32	377.36	267.76	0.28	59.32
Reach 1	32400	0p5-CC-LC_BU				2.63	545.10	400.20	403.33	402.10	403.42	0.000753	1.57	466.57	411.88	0.31	57.01
Reach 1	32250	5_BU				2.14	290.80	399.61	402.69	401.40	402.73	0.000468	1.06	371.23	414.20	0.23	68.32
Reach 1	32250	1_BU				2.34	363.60	399.61	402.89	401.54	402.94	0.000493	1.16	457.33	489.03	0.24	65.07
Reach 1	32250	0p5_BU				2.39	389.40	399.61	402.95	401.59	403.00	0.000505	1.19	484.25	506.40	0.25	64.04
Reach 1	32250	0p5-CC-LC_BU				2.70	545.10	399.61	403.25	401.92	403.31	0.000565	1.36	640.69	618.33	0.26	58.97
Reach 1	32150	5_BU				2.37	290.80	399.22	402.68	401.05	402.70	0.000202	0.76	567.96	547.40	0.16	66.83
Reach 1	32150	1_BU				2.57	363.60	399.22	402.87	401.23	402.90	0.000219	0.84	682.05	592.70	0.17	63.59
Reach 1	32150	0p5_BU				2.63	389.40	399.22	402.93	401.34	402.96	0.000227	0.87	715.73	598.43	0.17	62.61
Reach 1	32150	0p5-CC-LC_BU				2.93	545.10	399.22	403.23	401.60	403.26	0.000265	1.01	902.44	646.99	0.19	57.89
Reach 1	32000	5_BU	402.25	0.40	402.65	2.91	290.80	398.64	402.62	400.90	402.64	0.001146	0.82	571.69	701.96	0.15	57.25
Reach 1	32000	1_BU	402.45	0.40	402.85	3.11	363.60	398.64	402.81	401.08	402.84	0.001192	0.87	716.09	782.53	0.16	52.05
Reach 1	32000	0p5_BU	402.50	0.40	402.90	3.16	389.40	398.64	402.87	401.17	402.89	0.001213	0.89	758.69	789.39	0.16	50.49
Reach 1	32000	0p5-CC-LC_BU	402.80	0.40	403.20	3.46	545.10	398.64	403.16	401.47	403.19	0.001290	0.97	989.10	815.62	0.17	43.14
Reach 1	31850	5_BU	400.13	2.46	402.58	1.34	290.80	398.07	402.38	401.44	402.39	0.002208	0.67	595.40	730.39	0.19	19.99
Reach 1	31850	1_BU	400.09	2.70	402.79	1.31	363.60	398.07	402.57	401.60	402.58	0.002178	0.66	720.21	763.99	0.18	15.22
Reach 1	31850	0p5_BU	400.08	2.77	402.85	1.30	389.40	398.07	402.62	401.64	402.63	0.002211	0.66	754.03	775.26	0.19	14.12
Reach 1	31850	0p5-CC-LC_BU	400.04	3.10	403.15	1.27	545.10	398.07	402.89	401.87	402.90	0.002394	0.68	951.20	850.00	0.19	10.08
Reach 1	31700	5_BU	399.53	2.62	402.15	1.00	290.80	397.52	401.93	400.92	401.94	0.002182	0.55	579.91	765.33	0.18	19.77
Reach 1	31700	1_BU	398.87	3.11	401.98	0.42	363.60	397.52	401.72	401.12	401.76	0.008755	0.62	398.48	656.44	0.31	6.68
Reach 1	31700	0p5_BU	398.90	3.14	402.04	0.44	389.40	397.52	401.77	401.16	401.82	0.008504	0.63	428.52	697.34	0.30	6.71
Reach 1	31700	0p5-CC-LC_BU	399.00	3.33	402.33	0.54	545.10	397.52	402.05	401.39	402.10	0.007221	0.67	601.95	793.98	0.29	6.31
Reach 1	31597	5_BU	400.16	1.33	401.50	0.99	290.80	397.42	401.38	400.81	401.45	0.009933	1.17	273.20	361.35	0.37	68.56
Reach 1	31597	1_BU	400.98	0.40	401.38	1.69	363.60	397.42	401.34	400.06	401.36	0.001596	0.67	647.16	531.13	0.16	59.30
Reach 1	31597	0p5_BU	401.03	0.40	401.43	1.74	389.40	397.42	401.39	400.10	401.41	0.001632	0.69	674.13	549.35	0.17	58.76
Reach 1	31597	0p5-CC-LC_BU	401.29	0.40	401.69	2.01	545.10	397.42	401.66	400.32	401.68	0.001837	0.81	836.60	704.17	0.18	56.38
Reach 1	31500	5_BU	399.02	2.21	401.23	0.50	290.80	398.07	401.04	399.81	401.06	0.003359	0.43	460.23	549.65	0.20	2.81
Reach 1	31500	1_BU	399.46	1.89	401.35	0.63	363.60	398.07	401.19	400.12	401.21	0.003297	0.50	560.49	622.13	0.20	5.58
Reach 1	31500	0p5_BU	399.47	1.93	401.40	0.64	389.40	398.07	401.24	400.17	401.26	0.003350	0.51	588.31	648.54	0.20	5.33
Reach 1	31500	0p5-CC-LC_BU	399.57	2.10	401.67	0.68	545.10	398.07	401.49	400.48	401.52	0.003454	0.54	754.65	725.35	0.21	4.71
Reach 1	31400	5_BU	399.04	1.93	400.97	0.61	290.80	397.82	400.81	400.01	400.83	0.003779	0.84	487.69	682.54	0.34	8.31
Reach 1	31400	1_BU	399.17	1.96	401.13	0.61	363.60	397.82	400.97	400.13	400.99	0.003428	0.79	596.17	729.99	0.33	7.84
Reach 1	31400	0p5_BU	399.19	2.00	401.18	0.61	389.40	397.82	401.02	400.18	401.04	0.003386	0.79	628.70	741.80	0.32	7.49
Reach 1	31400	0p5-CC-LC_BU	399.32	2.14	401.46	0.66	545.10	397.82	401.28	400.51	401.30	0.003185	0.81	819.07	809.16	0.32	6.63
Reach 1	31350	5_BU	399.00	1.88	400.88	0.72	290.80	397.71	400.72	399.80	400.74	0.002757	0.50	511.70	718.56	0.19	7.27
Reach 1	31350	1_BU	399.08	1.97	401.05	0.75	363.60	397.71	400.89	399.92	400.90	0.002674	0.50	626.13	753.32	0.19	6.55
Reach 1	31350	0p5_BU	399.10	2.00	401.10	0.76	389.40	397.71	400.93	399.98	400.95	0.002735	0.51	659.87	764.25	0.19	6.41
Reach 1	31350	0p5-CC-LC_BU	399.22	2.15	401.37	0.76	545.10	397.71	401.19	400.31	401.21	0.002939	0.53	855.34	825.81	0.20	5.60
Reach 1	31300	5_BU	399.03	1.75	400.78	0.85	290.80	397.60	400.63	399.77	400.65	0.002884	0.57	528.26	695.67	0.20	8.62
Reach 1	31300	1_BU	399.09	1.86	400.95	0.82	363.60	397.60	400.80	399.92	400.81	0.003080	0.57	636.38	729.07	0.20	7.48
Reach 1	31300	0p5_BU	399.11	1.90	401.00	0.81	389.40	397.60	400.84	399.96	400.86	0.003061	0.57	667.86	738.56	0.20	7.04
Reach 1	31300	0p5-CC-LC_BU	399.21	2.07	401.28	0.82	545.10	397.60	401.10	400.21	401.13	0.002894	0.56	852.86	799.93	0.20	5.63
Reach 1	31250	5_BU	399.03	1.67	400.71	0.78	290.80	397.53	400.57	399.54	400.58	0.002072	0.46	635.66	744.20	0.17	10.46
Reach 1	31250	1_BU	399.09	1.79	400.88	0.82	363.60	397.53	400.73	399.74	400.74	0.002001	0.47	748.60	767.39	0.16	9.06
Reach 1	31250	0p5_BU	399.10	1.83	400.93	0.83	389.40	397.53	400.78	399.76	400.79	0.002005	0.47	781.88	775.85	0.16	8.71
Reach 1	31250	0p5-CC-LC_BU	399.22	1.98	401.21	0.86	545.10	397.53	401.04	400.03	401.06	0.001985	0.48	979.75	878.71	0.17	7.39
Reach 1	31200	5_BU	398.89	1.72	400.61	1.06	290.80	397.38	400.47	399.47	400.48	0.001720	0.52	671.13	792.75	0.16	14.90
Reach 1	31200	1_BU	398.96	1.83	400.78	1.12	363.60	397.38	400.63	399.65	400.64	0.001701	0.53	794.95	821.80	0.16	13.04
Reach 1	31200	0p5_BU	398.98	1.85	400.83	1.14	389.40	397.38	400.68	399.70	400.69	0.001704	0.54	831.17	831.69	0.16	12.63
Reach 1	31200	0p5-CC-LC_BU	399.12	1.99	401.11	1.25	545.10	397.38	400.94	399.92	400.95	0.001723	0.58	1041.25	883.44	0.17	10.88

HEC-RAS Plan: KR_Jam_30950 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	31150	5_BU	398.62	1.86	400.48	0.83	290.80	397.22	400.32	399.36	400.33	0.001958	0.46	613.05	732.56	0.16	10.23
Reach 1	31150	1_BU	398.67	1.98	400.65	0.84	363.60	397.22	400.49	399.51	400.50	0.002017	0.47	723.87	759.44	0.16	8.93
Reach 1	31150	0p5_BU	398.70	2.00	400.70	0.84	389.40	397.22	400.53	399.55	400.54	0.002024	0.48	757.11	772.88	0.17	8.71
Reach 1	31150	0p5-CC-LC_BU	398.84	2.13	400.97	0.87	545.10	397.22	400.79	399.79	400.81	0.002013	0.49	952.82	847.28	0.17	7.48
Reach 1	31100	5_BU	397.90	2.19	400.09	0.63	290.80	397.05	399.90	399.26	399.92	0.003329	0.50	493.79	703.01	0.20	3.84
Reach 1	31100	1_BU	397.94	2.32	400.26	0.66	363.60	397.05	400.06	399.39	400.08	0.003249	0.51	605.80	784.49	0.20	3.35
Reach 1	31100	0p5_BU	397.98	2.33	400.31	0.69	389.40	397.05	400.11	399.43	400.13	0.003182	0.52	643.05	808.78	0.20	3.39
Reach 1	31100	0p5-CC-LC_BU	398.12	2.47	400.59	0.74	545.10	397.05	400.38	399.57	400.40	0.003087	0.54	859.40	902.89	0.20	3.01
Reach 1	31050	5_BU	397.80	2.17	399.98	0.61	290.80	396.94	399.79	398.64	399.81	0.002239	0.40	578.76	686.43	0.16	3.06
Reach 1	31050	1_BU	397.85	2.30	400.15	0.64	363.60	396.94	399.96	399.02	399.97	0.002206	0.41	686.50	742.04	0.16	2.71
Reach 1	31050	0p5_BU	397.90	2.30	400.20	0.67	389.40	396.94	400.01	399.06	400.02	0.002203	0.43	722.38	775.31	0.17	2.79
Reach 1	31050	0p5-CC-LC_BU	398.02	2.47	400.48	0.73	545.10	396.94	400.27	399.25	400.29	0.002259	0.45	929.97	874.92	0.17	2.52
Reach 1	31011	5_BU	397.81	1.97	399.78	0.68	290.80	396.85	399.61	398.44	399.63	0.002701	0.47	487.00	614.15	0.18	4.94
Reach 1	31011	1_BU	397.87	2.09	399.96	0.72	363.60	396.85	399.78	398.76	399.80	0.002610	0.48	580.14	647.59	0.18	4.40
Reach 1	31011	0p5_BU	397.90	2.10	400.01	0.74	389.40	396.85	399.83	398.77	399.85	0.002614	0.49	609.48	667.52	0.18	4.40
Reach 1	31011	0p5-CC-LC_BU	398.00	2.28	400.28	0.80	545.10	396.85	400.09	398.98	400.11	0.002697	0.53	785.74	829.39	0.19	3.85
Reach 1	30950	5_BU	396.81	2.28	399.09	0.15	290.80	396.52	398.90	398.02	399.01	0.012978	0.39	209.21	285.41	0.31	0.49
Reach 1	30950	1_BU	396.85	2.43	399.27	0.18	363.60	396.52	399.07	398.50	399.18	0.014366	0.45	257.72	333.34	0.34	0.57
Reach 1	30950	0p5_BU	396.88	2.45	399.33	0.20	389.40	396.52	399.12	398.56	399.23	0.013997	0.48	275.49	349.98	0.34	0.67
Reach 1	30950	0p5-CC-LC_BU	396.93	2.64	399.57	0.25	545.10	396.52	399.35	398.94	399.48	0.014631	0.57	358.92	444.11	0.36	0.73
Reach 1	30850	5_BU	398.22	0.40	398.62	0.83	290.80	395.91	398.59	397.93	398.64	0.002441	1.02	285.67	336.29	0.36	82.92
Reach 1	30850	1_BU	398.39	0.40	398.79	0.91	363.60	395.91	398.76	398.03	398.81	0.002321	1.05	347.17	390.50	0.35	83.43
Reach 1	30850	0p5_BU	398.45	0.40	398.85	0.93	389.40	395.91	398.81	398.07	398.87	0.002315	1.07	369.95	411.59	0.35	84.13
Reach 1	30850	0p5-CC-LC_BU	398.70	0.40	399.10	1.17	545.10	395.91	399.07	398.28	399.14	0.002106	1.19	483.12	485.72	0.35	85.27
Reach 1	30750	5_BU	397.42	0.40	397.82	0.89	290.80	395.77	397.79	397.75	398.16	0.019662	2.47	113.18	136.87	0.84	68.80
Reach 1	30750	1_BU	397.59	0.40	397.99	0.87	363.60	395.77	397.96	397.93	398.34	0.020311	2.48	138.37	163.99	0.85	66.89
Reach 1	30750	0p5_BU	397.64	0.40	398.04	0.87	389.40	395.77	398.01	397.99	398.40	0.020555	2.48	146.87	172.82	0.85	66.38
Reach 1	30750	0p5-CC-LC_BU	397.90	0.40	398.30	0.90	545.10	395.77	398.26	398.21	398.69	0.020842	2.56	195.76	215.06	0.86	64.92
Reach 1	30650	5_BU				1.18	290.80	395.40	397.49	396.94	397.62	0.002465	1.67	194.99	221.56	0.49	83.41
Reach 1	30650	1_BU				1.28	363.60	395.40	397.68	397.11	397.82	0.002400	1.74	239.44	254.17	0.49	81.09
Reach 1	30650	0p5_BU				1.32	389.40	395.40	397.74	397.16	397.88	0.002357	1.76	255.24	268.13	0.49	80.31
Reach 1	30650	0p5-CC-LC_BU				1.60	545.10	395.40	398.03	397.45	398.19	0.002214	1.95	357.35	439.55	0.49	77.42
Reach 1	30396	5_BU				1.66	290.80	394.21	396.80	396.46	397.02	0.002645	2.21	172.68	188.02	0.55	84.13
Reach 1	30396	1_BU				1.82	363.60	394.21	397.01	396.63	397.23	0.002568	2.31	213.96	220.11	0.55	79.47
Reach 1	30396	0p5_BU				1.89	389.40	394.21	397.08	396.70	397.31	0.002524	2.34	231.02	247.24	0.54	78.03
Reach 1	30396	0p5-CC-LC_BU				2.22	545.10	394.21	397.44	396.98	397.67	0.002348	2.48	343.72	380.74	0.53	70.40
Reach 1	30150	5_BU				1.58	290.80	393.70	396.10	395.64	396.34	0.003033	2.26	148.74	149.69	0.57	92.47
Reach 1	30150	1_BU				1.74	363.60	393.70	396.26	395.91	396.55	0.003242	2.49	174.86	170.30	0.60	89.98
Reach 1	30150	0p5_BU				1.79	389.40	393.70	396.31	395.97	396.62	0.003340	2.58	184.11	178.66	0.61	89.64
Reach 1	30150	0p5-CC-LC_BU				2.09	545.10	393.70	396.61	396.32	396.99	0.003592	2.96	244.33	237.39	0.65	85.36
Reach 1	29887	5_BU				1.03	290.80	393.58	395.39	394.94	395.51	0.002743	1.61	186.54	186.83	0.51	93.32
Reach 1	29887	1_BU				1.18	363.60	393.58	395.55	395.06	395.70	0.002643	1.72	218.27	196.00	0.51	92.95
Reach 1	29887	0p5_BU				1.23	389.40	393.58	395.60	395.11	395.76	0.002622	1.77	228.56	197.08	0.51	92.83
Reach 1	29887	0p5-CC-LC_BU				1.51	545.10	393.58	395.90	395.35	396.09	0.002549	1.98	287.57	206.61	0.51	92.17
Reach 1	29585	5_BU				1.06	290.80	392.36	394.38	394.02	394.56	0.003708	1.90	152.99	148.27	0.59	99.97
Reach 1	29585	1_BU				1.16	363.60	392.36	394.54	394.16	394.75	0.003795	2.05	178.19	158.79	0.61	99.84
Reach 1	29585	0p5_BU				1.21	389.40	392.36	394.59	394.20	394.81	0.003817	2.11	185.94	160.12	0.61	99.79
Reach 1	29585	0p5-CC-LC_BU				1.43	545.10	392.36	394.88	394.48	395.16	0.003775	2.35	234.95	170.80	0.63	99.42
Reach 1	29234	5_BU				1.19	290.80	391.76	393.33	392.89	393.48	0.002557	1.71	174.72	166.81	0.50	99.33
Reach 1	29234	1_BU				1.37	363.60	391.76	393.52	393.02	393.69	0.002432	1.84	206.79	175.25	0.50	98.80
Reach 1	29234	0p5_BU				1.44	389.40	391.76	393.58	393.06	393.76	0.002400	1.88	217.64	177.22	0.50	98.59
Reach 1	29234	0p5-CC-LC_BU				1.77	545.10	391.76	393.92	393.30	394.14	0.002290	2.11	280.91	203.76	0.51	97.62
Reach 1	28752	5_BU				1.40	290.80	389.58	392.10	391.58	392.25	0.002521	1.77	181.42	168.69	0.48	95.80
Reach 1	28752	1_BU				1.56	363.60	389.58	392.27	391.74	392.46	0.002664	1.95	211.99	178.58	0.50	94.78
Reach 1	28752	0p5_BU				1.62	389.40	389.58	392.33	391.79	392.53	0.002710	2.01	222.14	182.22	0.50	94.34
Reach 1	28752	0p5-CC-LC_BU				1.90	545.10	389.58	392.63	392.06	392.88	0.002952	2.30	279.45	201.07	0.53	91.84
Reach 1	27904	5_BU				1.21	290.80	387.11	389.64		389.81	0.003390	1.98	170.90	190.32	0.58	80.82
Reach 1	27904	1_BU				1.37	363.60	387.11	389.80		389.99	0.003247	2.11	203.75	204.39	0.58	78.31
Reach 1	27904	0p5_BU				1.43	389.40	387.11	389.86		390.06	0.003200	2.15	215.04	208.53	0.58	77.48
Reach 1	27904	0p5-CC-LC_BU				1.73	545.10	387.11	390.15		390.38	0.002988	2.36	288.26	296.64	0.57	73.34
Reach 1	27650	5_BU				1.24	290.80	386.21	388.61	388.26	388.83	0.003776	2.14	150.64	151.08	0.61	88.65
Reach 1	27650	1_BU				1.41	363.60	386.21	388.79	388.45	389.04	0.003687	2.30	178.10	158.42	0.62	87.18
Reach 1	27650	0p5_BU				1.47	389.40	386.21	388.85	388.49	389.11	0.003642	2.35	187.85	160.95	0.62	86.72
Reach 1	27650	0p5-CC-LC_BU				1.81	545.10	386.21	389.21	388.75	389.50	0.003283	2.55	260.03	263.35	0.61	83.66
Reach 1	27359	5_BU				1.33	290.80	385.38	387.54	387.14	387.78	0.003540	2.17	134.16	101.12	0.60	100.00
Reach 1	27359	1_BU				1.54	363.60	385.38	387.76	387.30	388.03	0.003304	2.32	157.05	103.33	0.60	100.00
Reach 1	27359	0p5_BU				1.62	389.40	385.38	387.83	387.36	388.12	0.003245	2.37	164.70	104.75	0.59	99.99
Reach 1	27359	0p5-CC-LC_BU				2.03	545.10	385.38	388.25	387.65	388.60	0.002963	2.63	209.90	115.86	0.59	99.77
Reach 1	27150	5_BU				1.76	290.80	383.59	387.01	386.21	387.21	0.002056	2.00	145.82	85.60	0.48	99.98
Reach 1	27150	1_BU				1.95	363.60	383.59	387.21	386.41	387.47	0.002246	2.24	163.45	88.80	0.51	99.90
Reach 1	27150	0p5_BU				2.02	389.40	383.59	387.28	386.49	387.55	0.002305	2.32	169.33	89.72	0.52	99.85
Reach 1	27150	0p5-CC-LC_BU				2.39	545.10	383.59	387.64	386.88	388.02	0.002571	2.74	203.33	97.32	0.57	99.48
Reach 1	26869	5_BU				1.19	290.80	383.32	385.95	385.76	386.28	0.005851	2.58	115.76	105.03	0.76	99.09
Reach 1	26869	1_BU				1.41	363.60	383.32	386.17	385.92	386.54	0.005071	2.70	139.82	108.76	0.72	98.62
Reach 1	26869	0p5_BU				1.49	389.40	383.32	386.25	385.98	386.62	0.004901	2.74	147.80	110.13	0.72	98.44
Reach 1	26869	0p5-CC-LC_BU				1.87	545.10	383.32	386.63	386.27	387.09	0.004355	3.02	191.67	116.18	0.70	97.46
Reach 1	26650	5_BU				2.06	290.80	382.27	385.62	384.53	385.75	0.001116	1.63	184.95	108.85	0.36	98.62
Reach 1	26650	1_BU				2.27	363.60	382.27	385.83	384.73	386.00	0.001253	1.85	208.28	116.04	0.39	98.01
Reach 1	26650	0p5_BU				2.34	389.40	382.27	385.89	384.80	386.08	0.001299	1.92	216.04	117.45	0.40	97.79
Reach 1	26650	0p5-CC-LC_BU				2.69	545.10	382.27	386.24	385.17	386.51	0.001557	2.30	263.14	161.27	0.45	96.53
Reach 1	26500	5_BU				2.02	290.80	382.41	385.47	384.32	385.59	0.001068	1.57	199.61	118.76	0.35	97.11
Reach 1	26500	1_BU				2.20	363.60	382.41	385.65	384.56	385.81	0.001232	1.79	223.44	139.91	0.39	96.58
Reach 1	26500	0p5_BU				2.26	389.40	382.41	385.71	384.64	385.88	0.001288	1.86	231.85	143.68	0.40	96.36
Reach 1	26500	0p5-CC-LC_BU				2.57	545.10	382.41	386.02	384.98	386.27	0.001596	2.26	285.04	212.49	0.45	94.95
Reach 1	26363	5_BU				1.46	290.80	382.60	385.21		385.37	0.002217	1.82	190.65	202.42	0.48	94.44
Reach 1	26363	1_BU				1.62	363.60	382.60	385.37		385.56	0.002333	2.00	225.75	245.53	0.50	92.33
Reach 1	26363	0p5_BU				1.67	389.40	382.60	385.42		385.62	0.002360	2.06	239.74	274.47	0.51	91.55
Reach 1	26363	0p5-CC-LC_BU				1.96	545.10	382.60	385.71	385.21	385.96	0.002461	2.34	338.43	392.24	0.53	87.26
Reach 1	26186	5_BU				1.27	290.80	382.60	384.44	384.30	384.73	0.005572	2.64	138.54	200.60	0.75	78.27
Reach 1	26186	1_BU				1.41	363.60	382.60	384.59	384.50	384.91	0.005502	2.80	171.00	229.70	0.75	74.32
Reach 1	26186	0p5_BU				1.44	389.40	382.60	384.63	384.54	384.96	0.005568	2.87	180.96	240.98	0.76	73.17
Reach 1	26186	0p5-CC-LC_BU				1.63	545.10	382.60	384.85	384.79	385.25	0.006135	3.26	241.78	350.55	0.82	68.24
Reach 1	26100	5_BU				1.43	290.80	382.20	384.35	383.84	384.46	0.001785	1.61	218.82	266.68	0.43	52.58
Reach 1	26100	1_BU				1.52	363.60	382.20	384.51	383.98	384.63	0.001863	1.72	267.68	346.89	0.45	49.97
Reach 1	26100	0p5_BU				1.56	389.40	382.20	384.56	384.02	384.67	0.001895	1.76	283.63	360.06	0.45	49.11
Reach 1	26100	0p5-CC-LC_BU				1.71	545.10	382.20	384.77	384.26	384.92	0.002200	2.02	371.34	461.96	0.49	45.90
Reach 1	25969	5_BU				1.06	290.80	381.43	384.01	383.68	384.17	0.003714	1.91	183.13	271.43	0.59	72.64

HEC-RAS Plan: KR_Jam_30950 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	25969	1_BU				1.20	363.60	381.43	384.20	383.85	384.35	0.003150	1.91	247.06	414.87	0.56	68.88
Reach 1	25969	0p5_BU				1.24	389.40	381.43	384.25	383.95	384.40	0.003123	1.95	266.37	442.54	0.56	68.00
Reach 1	25969	0p5-CC-LC_BU				1.47	545.10	381.43	384.49	384.16	384.64	0.002691	2.02	384.52	525.05	0.53	60.43
Reach 1	25849	5_BU				1.47	290.80	380.61	383.22	383.14	383.66	0.006096	3.04	109.19	114.49	0.80	89.89
Reach 1	25849	1_BU				1.57	363.60	380.61	383.43	383.39	383.89	0.006150	3.19	137.99	159.38	0.81	86.39
Reach 1	25849	0p5_BU				1.60	389.40	380.61	383.50	383.49	383.95	0.005963	3.18	149.97	170.85	0.80	84.34
Reach 1	25849	0p5-CC-LC_BU				1.75	545.10	380.61	383.82	383.80	384.27	0.005659	3.29	215.39	255.25	0.79	75.34
Reach 1	25750	5_BU				1.68	290.80	379.67	383.13	382.59	383.28	0.001855	1.90	204.16	215.40	0.47	82.34
Reach 1	25750	1_BU				1.75	363.60	379.67	383.37	382.79	383.52	0.001721	1.92	266.43	302.58	0.46	76.74
Reach 1	25750	0p5_BU				1.80	389.40	379.67	383.45	382.84	383.60	0.001686	1.92	291.44	350.73	0.46	75.13
Reach 1	25750	0p5-CC-LC_BU				2.12	545.10	379.67	383.82	383.09	383.95	0.001449	1.95	459.90	547.44	0.43	65.55
Reach 1	25700	5_BU				2.04	290.80	379.24	382.84	382.01	383.15	0.002751	2.52	130.86	141.75	0.56	95.98
Reach 1	25700	1_BU				2.15	363.60	379.24	383.05	382.34	383.39	0.002957	2.70	163.50	173.70	0.59	91.04
Reach 1	25700	0p5_BU				2.21	389.40	379.24	383.12	382.55	383.47	0.002939	2.75	176.17	187.98	0.59	89.28
Reach 1	25700	0p5-CC-LC_BU				2.52	545.10	379.24	383.45	383.26	383.83	0.002929	2.99	251.31	269.96	0.60	79.86
Reach 1	25650	5_BU				2.27	290.80	379.37	382.84	381.72	383.02	0.001474	1.99	180.63	202.08	0.42	90.34
Reach 1	25650	1_BU				2.36	363.60	379.37	383.07	381.99	383.25	0.001512	2.07	235.53	279.42	0.43	82.98
Reach 1	25650	0p5_BU				2.36	389.40	379.37	383.15	382.10	383.33	0.001520	2.07	258.39	300.83	0.43	80.21
Reach 1	25650	0p5-CC-LC_BU				2.64	545.10	379.37	383.53	382.97	383.69	0.001314	2.07	382.70	352.01	0.41	66.96
Reach 1	25600	5_BU				2.15	290.80	379.47	382.73	381.76	382.94	0.001797	2.12	164.31	159.32	0.46	89.93
Reach 1	25600	1_BU				2.19	363.60	379.47	382.94	382.19	383.17	0.002016	2.27	200.26	194.66	0.49	84.75
Reach 1	25600	0p5_BU				2.21	389.40	379.47	383.01	382.32	383.25	0.002049	2.30	214.72	209.74	0.50	82.94
Reach 1	25600	0p5-CC-LC_BU				2.53	545.10	379.47	383.36	382.89	383.61	0.002047	2.52	303.82	304.77	0.51	74.84
Reach 1	25550	5_BU				1.75	290.80	379.57	382.76	382.08	382.85	0.001197	1.51	297.50	340.41	0.37	70.01
Reach 1	25550	1_BU				1.97	363.60	379.57	382.99	382.32	383.07	0.001045	1.53	378.98	382.31	0.35	64.04
Reach 1	25550	0p5_BU				2.04	389.40	379.57	383.06	382.46	383.15	0.000992	1.53	408.79	394.04	0.34	62.09
Reach 1	25550	0p5-CC-LC_BU				2.41	545.10	379.57	383.43	382.64	383.52	0.000893	1.62	564.13	460.89	0.33	55.28
Reach 1	25500	5_BU				1.84	290.80	379.67	382.62	381.71	382.77	0.001612	1.82	176.30	136.72	0.43	90.15
Reach 1	25500	1_BU				2.02	363.60	379.67	382.82	382.05	383.00	0.001713	1.99	204.97	150.79	0.45	87.48
Reach 1	25500	0p5_BU				2.08	389.40	379.67	382.88	382.16	383.08	0.001722	2.04	215.47	154.92	0.45	86.49
Reach 1	25500	0p5-CC-LC_BU				2.37	545.10	379.67	383.18	382.51	383.44	0.002027	2.41	268.28	199.68	0.50	83.45
Reach 1	25458	5_BU				1.31	290.80	379.86	382.43	382.17	382.66	0.003940	2.26	142.92	138.20	0.63	78.51
Reach 1	25458	1_BU				1.44	363.60	379.86	382.65	382.32	382.88	0.003585	2.29	174.71	154.29	0.61	74.64
Reach 1	25458	0p5_BU				1.45	389.40	379.86	382.73	382.37	382.96	0.003497	2.27	187.71	173.04	0.60	73.18
Reach 1	25458	0p5-CC-LC_BU				1.74	545.10	379.86	383.06	382.63	383.32	0.003224	2.45	257.78	242.41	0.59	69.47
Reach 1	25400	5_BU				1.66	290.80	379.62	382.24	381.85	382.46	0.002814	2.24	147.71	119.65	0.56	75.05
Reach 1	25400	1_BU				1.79	363.60	379.62	382.46	382.02	382.70	0.002836	2.36	175.03	133.97	0.56	71.54
Reach 1	25400	0p5_BU				1.79	389.40	379.62	382.52	382.09	382.77	0.002962	2.41	183.67	143.52	0.58	70.72
Reach 1	25400	0p5-CC-LC_BU				1.91	545.10	379.62	382.84	382.38	383.13	0.003170	2.61	246.24	241.43	0.60	65.42
Reach 1	25350	5_BU				1.79	290.80	379.52	382.12	381.57	382.29	0.002029	2.00	172.48	147.10	0.48	76.05
Reach 1	25350	1_BU				1.79	363.60	379.52	382.33	381.75	382.51	0.002221	2.09	204.77	171.33	0.50	71.58
Reach 1	25350	0p5_BU				1.84	389.40	379.52	382.38	381.82	382.58	0.002281	2.16	214.89	189.97	0.51	71.09
Reach 1	25350	0p5-CC-LC_BU				2.15	545.10	379.52	382.70	382.18	382.93	0.002294	2.40	285.05	248.00	0.52	66.10
Reach 1	25300	5_BU				1.19	290.80	379.41	382.04	381.37	382.15	0.001984	1.49	197.32	174.06	0.44	99.76
Reach 1	25300	1_BU				1.16	363.60	379.41	382.22	381.53	382.35	0.002342	1.59	232.35	209.83	0.47	99.53
Reach 1	25300	0p5_BU				1.18	389.40	379.41	382.27	381.58	382.41	0.002370	1.62	244.26	215.88	0.48	99.46
Reach 1	25300	0p5-CC-LC_BU				1.30	545.10	379.41	382.59	381.83	382.74	0.002415	1.74	321.20	257.64	0.49	99.01
Reach 1	25250	5_BU				1.11	290.80	379.31	381.97	381.24	382.05	0.001627	1.29	228.58	213.12	0.39	99.66
Reach 1	25250	1_BU				1.28	363.60	379.31	382.15	381.45	382.24	0.001565	1.38	267.92	225.28	0.39	99.48
Reach 1	25250	0p5_BU				1.33	389.40	379.31	382.20	381.51	382.30	0.001553	1.41	280.59	226.66	0.39	99.41
Reach 1	25250	0p5-CC-LC_BU				1.64	545.10	379.31	382.52	381.75	382.64	0.001490	1.60	353.35	246.98	0.40	98.93
Reach 1	25169	5_BU				1.09	290.80	379.70	381.71	381.15	381.87	0.003048	1.76	169.38	157.89	0.54	98.48
Reach 1	25169	1_BU				1.18	363.60	379.70	381.88	381.33	382.06	0.003215	1.90	196.77	169.84	0.56	98.32
Reach 1	25169	0p5_BU				1.23	389.40	379.70	381.93	381.38	382.12	0.003211	1.94	205.67	170.74	0.56	98.30
Reach 1	25169	0p5-CC-LC_BU				1.51	545.10	379.70	382.23	381.73	382.47	0.003104	2.18	262.42	210.25	0.57	98.06
Reach 1	25100	5_BU				1.22	290.80	378.81	381.54	381.04	381.68	0.002378	1.66	181.33	213.67	0.48	97.23
Reach 1	25100	1_BU				1.36	363.60	378.81	381.69	381.19	381.86	0.002558	1.85	203.72	217.45	0.51	97.17
Reach 1	25100	0p5_BU				1.41	389.40	378.81	381.74	381.23	381.92	0.002621	1.92	211.01	218.66	0.52	97.15
Reach 1	25100	0p5-CC-LC_BU				1.68	545.10	378.81	382.01	381.46	382.26	0.002880	2.25	252.85	241.99	0.55	97.05
Reach 1	24950	5_BU				0.92	290.80	378.16	380.88	380.71	381.13	0.006355	2.28	138.26	169.65	0.76	95.91
Reach 1	24950	1_BU				1.10	363.60	378.16	381.08	380.85	381.34	0.005190	2.32	173.77	184.29	0.70	94.94
Reach 1	24950	0p5_BU				1.17	389.40	378.16	381.14	380.89	381.41	0.004897	2.33	185.97	189.18	0.69	94.52
Reach 1	24950	0p5-CC-LC_BU				1.50	545.10	378.16	381.49	381.14	381.78	0.003905	2.46	254.63	222.32	0.64	92.54
Reach 1	24800	5_BU				1.60	290.80	377.37	380.57	379.81	380.69	0.001533	1.58	190.15	132.16	0.40	99.04
Reach 1	24800	1_BU				1.79	363.60	377.37	380.77	379.96	380.92	0.001610	1.75	217.69	143.63	0.42	98.68
Reach 1	24800	0p5_BU				1.86	389.40	377.37	380.83	380.02	381.00	0.001632	1.80	227.38	148.82	0.42	98.51
Reach 1	24800	0p5-CC-LC_BU				2.19	545.10	377.37	381.17	380.30	381.39	0.001804	2.11	283.21	185.34	0.46	97.40
Reach 1	24693	5_BU				0.92	290.80	377.15	379.85	379.85	380.31	0.011123	2.99	97.86	109.68	1.00	99.87
Reach 1	24693	1_BU				1.07	363.60	377.15	380.01	380.01	380.53	0.010483	3.20	114.62	110.88	0.99	99.73
Reach 1	24693	0p5_BU				1.12	389.40	377.15	380.06	380.06	380.60	0.010275	3.27	120.40	111.29	0.99	99.69
Reach 1	24693	0p5-CC-LC_BU				1.62	545.10	377.15	380.57	380.34	381.05	0.005620	3.10	186.09	148.90	0.78	98.59
Reach 1	24600	5_BU				2.57	290.80	376.10	379.65	378.04	379.77	0.000770	1.57	186.26	77.20	0.31	99.97
Reach 1	24600	1_BU				2.83	363.60	376.10	379.96	378.27	380.11	0.000840	1.74	211.47	88.64	0.33	99.80
Reach 1	24600	0p5_BU				2.93	389.40	376.10	380.06	378.36	380.22	0.000858	1.80	220.69	98.74	0.34	99.69
Reach 1	24600	0p5-CC-LC_BU				3.45	545.10	376.10	380.58	378.80	380.80	0.000928	2.09	289.35	147.03	0.36	97.60
Reach 1	24500	5_BU				2.32	290.80	375.69	379.51	378.27	379.67	0.001183	1.81	164.43	84.27	0.38	99.25
Reach 1	24500	1_BU				2.58	363.60	375.69	379.81	378.53	380.01	0.001235	1.99	191.77	96.25	0.39	98.30
Reach 1	24500	0p5_BU				2.67	389.40	375.69	379.91	378.60	380.11	0.001249	2.04	201.25	98.49	0.40	97.94
Reach 1	24500	0p5-CC-LC_BU				3.17	545.10	375.69	380.42	379.03	380.69	0.001305	2.34	260.26	136.36	0.42	95.60
Reach 1	24400	5_BU				2.23	290.80	375.71	379.24	378.32	379.51	0.002067	2.32	126.02	63.01	0.50	99.96
Reach 1	24400	1_BU				2.43	363.60	375.71	379.48	378.58	379.82	0.002382	2.60	142.42	69.92	0.53	99.63
Reach 1	24400	0p5_BU				2.49	389.40	375.71	379.56	378.66	379.93	0.002468	2.69	148.04	71.77	0.54	99.47
Reach 1	24400	0p5-CC-LC_BU				2.83	545.10	375.71	379.97	379.12	380.48	0.002913	3.20	178.94	86.26	0.61	98.35
Reach 1	24350	5_BU				2.29	290.80	375.54	379.18	378.09	379.40	0.001817	2.08	141.19	67.13	0.44	99.81
Reach 1	24350	1_BU				2.47	363.60	375.54	379.42	378.34	379.70	0.002122	2.34	158.94	80.82	0.48	99.42
Reach 1	24350	0p5_BU				2.52	389.40	375.54	379.50	378.41	379.80	0.002222	2.42	165.49	87.12	0.49	99.24
Reach 1	24350	0p5-CC-LC_BU				2.91	545.10	375.54	379.91	378.87	380.32	0.002589	2.87	206.77	116.82	0.54	97.66
Reach 1	24300	5_BU				2.20	290.80	375.93	379.12	378.07	379.31	0.001463	1.94	150.46	75.09	0.42	99.92
Reach 1	24300	1_BU				2.39	363.60	375.93	379.35	378.30	379.59	0.001671	2.19	168.53	82.28	0.45	99.67
Reach 1	24300	0p5_BU				2.44	389.40	375.93	379.42	378.37	379.69	0.001741	2.27	174.85	86.53	0.46	99.56
Reach 1	24300	0p5-CC-LC_BU				2.79	545.10	375.93	379.82	378.78	380.19	0.002067	2.70	214.28	111.96	0.52	98.52
Reach 1	24250	5_BU				2.22	290.80	376.30	379.08	377.96	379.23	0.001133	1.72	173.78	92.13	0.37	99.09
Reach 1	24250	1_BU				2.44	363.60	376.30	379.32	378.16	379.50	0.001266	1.94	196.30	101.16	0.40	98.43
Reach 1	24250	0p5_BU				2.52	389.40	376.30	379.39	378.23	379.59	0.001306	2.01	204.05	103.10	0.40	98.16
Reach 1	24250	0p5-CC-LC_BU				2.91	545.10	376.30	379.80	378.61	380.08	0.001516	2.38	252.69	153.48	0.45	96.65
Reach 1	24200	5_BU				1.92	290.80	376.73	379.00	378.13	379.17	0.001491	1.80	166.58	98.16	0.41	98.92
Reach 1	24200	1_BU				2.12	363.60	376.73	379.23	378.31	379.43	0.001603	1.99	189.60	102.93	0.44	98.26
Reach 1	24200	0p5_BU				2.20	389.40	376.73	379.31	378.37	379.52	0.001634	2.06	197.42	106.93	0.44	98.04

HEC-RAS Plan: KR_Jam_30950 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	24200	0p5-CC-LC_BU				2.60	545.10	376.73	379.71	378.74	380.00	0.001771	2.39	247.88	158.75	0.47	96.49
Reach 1	24150	5_BU				1.65	290.80	376.70	378.87	378.23	379.07	0.002248	2.00	147.33	95.95	0.50	99.58
Reach 1	24150	1_BU				1.87	363.60	376.70	379.09	378.42	379.33	0.002312	2.20	168.64	98.94	0.51	99.17
Reach 1	24150	0p5_BU				1.94	389.40	376.70	379.16	378.47	379.42	0.002333	2.26	175.78	101.03	0.52	99.03
Reach 1	24150	0p5-CC-LC_BU				2.32	545.10	376.70	379.55	378.81	379.89	0.002434	2.61	221.21	137.46	0.55	97.90
Reach 1	24100	5_BU				1.73	290.80	376.59	378.75	378.09	378.96	0.002236	2.05	144.33	93.93	0.50	99.46
Reach 1	24100	1_BU				1.93	363.60	376.59	378.96	378.27	379.22	0.002376	2.28	164.09	99.11	0.52	98.87
Reach 1	24100	0p5_BU				2.00	389.40	376.59	379.02	378.33	379.30	0.002420	2.35	170.87	101.93	0.53	98.65
Reach 1	24100	0p5-CC-LC_BU				2.36	545.10	376.59	379.39	378.71	379.76	0.002641	2.75	211.60	130.45	0.57	97.28
Reach 1	24050	5_BU				1.78	290.80	376.51	378.65	377.94	378.85	0.002068	2.02	146.22	154.30	0.48	99.68
Reach 1	24050	1_BU				1.97	363.60	376.51	378.84	378.13	379.10	0.002266	2.26	165.28	165.48	0.51	99.17
Reach 1	24050	0p5_BU				2.04	389.40	376.51	378.91	378.19	379.18	0.002327	2.34	172.02	171.76	0.52	98.96
Reach 1	24050	0p5-CC-LC_BU				2.39	545.10	376.51	379.25	378.55	379.63	0.002608	2.75	211.67	193.18	0.57	97.41
Reach 1	24000	5_BU				1.80	290.80	376.41	378.55	377.83	378.75	0.002004	1.99	146.70	119.15	0.47	99.96
Reach 1	24000	1_BU				1.97	363.60	376.41	378.73	378.00	378.99	0.002282	2.25	163.94	128.24	0.51	99.63
Reach 1	24000	0p5_BU				2.03	389.40	376.41	378.79	378.07	379.07	0.002379	2.34	169.70	133.86	0.53	99.51
Reach 1	24000	0p5-CC-LC_BU				2.32	545.10	376.41	379.10	378.41	379.49	0.002862	2.81	205.24	189.62	0.59	98.42
Reach 1	23950	5_BU				1.70	290.80	376.45	378.45	377.80	378.64	0.002072	1.95	158.09	149.75	0.48	97.52
Reach 1	23950	1_BU				1.86	363.60	376.45	378.63	377.98	378.86	0.002311	2.19	179.52	160.16	0.51	96.43
Reach 1	23950	0p5_BU				1.92	389.40	376.45	378.68	378.05	378.94	0.002393	2.27	186.74	164.37	0.52	96.09
Reach 1	23950	0p5-CC-LC_BU				2.18	545.10	376.45	378.98	378.40	379.33	0.002851	2.70	231.22	220.12	0.58	94.43
Reach 1	23900	5_BU				1.61	290.80	376.38	378.36	377.74	378.53	0.002005	1.86	166.89	160.21	0.47	95.73
Reach 1	23900	1_BU				1.77	363.60	376.38	378.53	377.91	378.74	0.002248	2.10	188.45	181.46	0.50	95.07
Reach 1	23900	0p5_BU				1.83	389.40	376.38	378.58	377.97	378.81	0.002326	2.18	195.91	190.09	0.51	94.79
Reach 1	23900	0p5-CC-LC_BU				2.11	545.10	376.38	378.86	378.26	379.18	0.002716	2.59	246.61	271.43	0.57	93.04
Reach 1	23850	5_BU				1.54	290.80	376.45	378.27	377.67	378.43	0.002019	1.80	172.45	166.51	0.46	94.47
Reach 1	23850	1_BU				1.68	363.60	376.45	378.42	377.82	378.62	0.002297	2.04	193.09	182.82	0.50	93.77
Reach 1	23850	0p5_BU				1.72	389.40	376.45	378.47	377.87	378.68	0.002394	2.12	199.85	195.75	0.51	93.54
Reach 1	23850	0p5-CC-LC_BU				1.94	545.10	376.45	378.72	378.17	379.03	0.002982	2.56	239.04	259.78	0.59	92.87
Reach 1	23800	5_BU				1.38	290.80	376.34	378.14	377.66	378.31	0.002516	1.87	174.23	198.61	0.51	92.85
Reach 1	23800	1_BU				1.52	363.60	376.34	378.28	377.82	378.49	0.002808	2.11	196.86	217.68	0.55	91.67
Reach 1	23800	0p5_BU				1.56	389.40	376.34	378.32	377.87	378.54	0.002911	2.18	204.27	224.19	0.56	91.27
Reach 1	23800	0p5-CC-LC_BU				1.79	545.10	376.34	378.55	378.16	378.86	0.003472	2.61	245.56	274.10	0.62	89.32
Reach 1	23750	5_BU				1.12	290.80	376.43	378.03	377.61	378.15	0.002562	1.63	219.58	253.72	0.49	79.36
Reach 1	23750	1_BU				1.24	363.60	376.43	378.16	377.73	378.30	0.002786	1.82	254.08	272.79	0.52	78.90
Reach 1	23750	0p5_BU				1.28	389.40	376.43	378.21	377.77	378.36	0.002826	1.86	266.18	283.89	0.53	78.31
Reach 1	23750	0p5-CC-LC_BU				1.50	545.10	376.43	378.45	377.98	378.63	0.002976	2.09	342.61	345.85	0.55	74.87
Reach 1	23700	5_BU				0.80	290.80	376.64	377.87	377.52	377.96	0.003627	1.55	241.39	354.52	0.55	60.76
Reach 1	23700	1_BU				0.93	363.60	376.64	378.01	377.62	378.11	0.003284	1.63	293.67	393.12	0.54	60.18
Reach 1	23700	0p5_BU				0.98	389.40	376.64	378.05	377.62	378.16	0.003165	1.65	312.75	409.28	0.53	59.82
Reach 1	23700	0p5-CC-LC_BU				1.23	545.10	376.64	378.32	377.80	378.43	0.002643	1.74	441.03	574.95	0.50	57.32
Reach 1	23650	5_BU				0.83	290.80	376.40	377.63	377.35	377.74	0.003995	1.67	205.68	310.26	0.58	64.76
Reach 1	23650	1_BU				1.00	363.60	376.40	377.81	377.45	377.92	0.003320	1.71	265.26	368.14	0.55	64.64
Reach 1	23650	0p5_BU				1.05	389.40	376.40	377.86	377.47	377.98	0.003181	1.73	286.04	381.40	0.54	64.45
Reach 1	23650	0p5-CC-LC_BU				1.26	545.10	376.40	378.16	377.65	378.28	0.002676	1.77	418.72	516.32	0.50	61.09
Reach 1	23600	5_BU				0.90	290.80	375.86	377.50	377.06	377.58	0.002473	1.40	256.78	345.39	0.47	60.95
Reach 1	23600	1_BU				1.09	363.60	375.86	377.71	377.15	377.78	0.001993	1.42	332.32	384.93	0.44	61.02
Reach 1	23600	0p5_BU				1.14	389.40	375.86	377.77	377.18	377.84	0.001890	1.43	356.60	400.61	0.43	60.62
Reach 1	23600	0p5-CC-LC_BU				1.37	545.10	375.86	378.08	377.35	378.16	0.001638	1.50	495.28	481.55	0.41	58.27
Reach 1	23550	5_BU				0.95	290.80	375.45	377.39	376.96	377.47	0.002199	1.36	236.27	313.11	0.45	65.21
Reach 1	23550	1_BU				1.17	363.60	375.45	377.62	377.06	377.70	0.001695	1.37	316.38	368.59	0.41	65.69
Reach 1	23550	0p5_BU				1.23	389.40	375.45	377.69	377.10	377.77	0.001631	1.39	340.74	380.78	0.40	65.69
Reach 1	23550	0p5-CC-LC_BU				1.44	545.10	375.45	378.01	377.30	378.09	0.001478	1.47	477.28	479.60	0.39	62.85
Reach 1	23500	5_BU				1.07	290.80	375.07	377.31	376.64	377.38	0.001490	1.20	258.58	270.65	0.37	66.74
Reach 1	23500	1_BU				1.27	363.60	375.07	377.56	376.76	377.63	0.001227	1.22	336.85	351.69	0.35	67.14
Reach 1	23500	0p5_BU				1.32	389.40	375.07	377.63	376.80	377.69	0.001196	1.24	361.00	365.19	0.34	66.90
Reach 1	23500	0p5-CC-LC_BU				1.58	545.10	375.07	377.95	377.02	378.03	0.001140	1.36	489.85	444.86	0.35	65.61
Reach 1	23450	5_BU				1.17	290.80	375.14	377.26	376.42	377.32	0.001048	1.11	285.69	265.50	0.33	72.80
Reach 1	23450	1_BU				1.33	363.60	375.14	377.52	376.54	377.57	0.000933	1.13	359.74	316.14	0.31	72.67
Reach 1	23450	0p5_BU				1.38	389.40	375.14	377.58	376.57	377.64	0.000929	1.16	381.57	331.28	0.31	72.77
Reach 1	23450	0p5-CC-LC_BU				1.47	545.10	375.14	377.91	376.80	377.97	0.001052	1.24	505.98	451.06	0.33	70.01
Reach 1	23400	5_BU				1.23	290.80	375.03	377.21	376.39	377.27	0.000989	1.12	281.06	236.58	0.32	71.29
Reach 1	23400	1_BU				1.31	363.60	375.03	377.47	376.50	377.53	0.000962	1.12	347.35	283.55	0.31	70.00
Reach 1	23400	0p5_BU				1.36	389.40	375.03	377.54	376.53	377.60	0.000952	1.15	366.73	291.92	0.31	70.12
Reach 1	23400	0p5-CC-LC_BU				1.49	545.10	375.03	377.85	376.74	377.92	0.001087	1.28	466.33	368.07	0.33	69.07
Reach 1	23300	5_BU				1.32	290.80	374.20	377.06	376.25	377.16	0.001496	1.40	226.97	196.95	0.39	90.18
Reach 1	23300	1_BU				1.17	363.60	374.20	377.33	376.40	377.41	0.001676	1.37	289.93	277.45	0.40	87.64
Reach 1	23300	0p5_BU				1.21	389.40	374.20	377.40	376.45	377.48	0.001615	1.37	310.26	289.05	0.40	87.39
Reach 1	23300	0p5-CC-LC_BU				1.41	545.10	374.20	377.70	376.71	377.80	0.001624	1.52	403.73	343.56	0.41	86.74
Reach 1	23200	5_BU				1.15	290.80	374.25	376.72	376.38	376.92	0.003629	2.01	150.64	143.99	0.60	94.78
Reach 1	23200	1_BU				1.18	363.60	374.25	376.97	376.53	377.17	0.003575	2.02	188.78	178.35	0.59	93.43
Reach 1	23200	0p5_BU				1.12	389.40	374.25	377.04	376.57	377.24	0.003783	2.01	202.83	198.09	0.61	92.66
Reach 1	23200	0p5-CC-LC_BU				1.23	545.10	374.25	377.32	376.86	377.55	0.003921	2.17	265.29	256.30	0.63	91.26
Reach 1	23016	5_BU				1.26	290.80	373.81	376.26		376.39	0.002152	1.63	198.73	222.39	0.46	84.28
Reach 1	23016	1_BU				1.22	363.60	373.81	376.48		376.60	0.002346	1.67	249.67	291.08	0.48	81.90
Reach 1	23016	0p5_BU				1.24	389.40	373.81	376.54		376.66	0.002319	1.67	266.09	307.22	0.48	80.69
Reach 1	23016	0p5-CC-LC_BU				1.43	545.10	373.81	376.85		376.99	0.002114	1.76	356.72	345.38	0.47	76.40
Reach 1	22900	5_BU				1.10	290.80	373.42	375.67		375.97	0.006033	2.49	123.78	154.32	0.76	94.80
Reach 1	22900	1_BU				1.28	363.60	373.42	375.92		376.21	0.004694	2.43	163.09	199.11	0.69	92.00
Reach 1	22900	0p5_BU				1.35	389.40	373.42	376.00		376.28	0.004366	2.43	176.86	213.80	0.67	90.99
Reach 1	22900	0p5-CC-LC_BU				1.32	545.10	373.42	376.37		376.63	0.004288	2.37	266.02	335.41	0.66	83.72
Reach 1	22750	5_BU				1.31	290.80	372.99	375.22		375.38	0.002450	1.78	163.49	126.86	0.50	100.00
Reach 1	22750	1_BU				1.21	363.60	372.99	375.46		375.63	0.002868	1.83	198.58	172.22	0.53	99.99
Reach 1	22750	0p5_BU				1.17	389.40	372.99	375.55		375.72	0.002982	1.83	213.24	192.08	0.54	99.98
Reach 1	22750	0p5-CC-LC_BU				1.20	545.10	372.99	375.92		376.09	0.002921	1.84	299.14	284.67	0.54	99.31
Reach 1	22584	5_BU				1.37	290.80	372.69	374.84		374.99	0.002172	1.73	168.93	131.58	0.47	99.94
Reach 1	22584	1_BU				1.58	363.60	372.69	375.06		375.23	0.002070	1.86	198.65	149.09	0.47	99.65
Reach 1	22584	0p5_BU				1.65	389.40	372.69	375.12		375.31	0.002056	1.91	209.51	173.56	0.47	99.47
Reach 1	22584	0p5-CC-LC_BU				2.00	545.10	372.69	375.48		375.70	0.001967	2.12	288.44	284.11	0.48	95.88
Reach 1	22500	5_BU				1.54	290.80	372.35	374.65		374.82	0.002012	1.80	168.51	128.37	0.46	98.09
Reach 1	22500	1_BU				1.63	363.60	372.35	374.87		375.06	0.002087	1.95	198.45	151.08	0.49	97.15
Reach 1	22500	0p5_BU				1.68	389.40	372.35	374.93		375.13	0.002093	2.00	208.89	158.67	0.49	96.97
Reach 1	22500	0p5-CC-LC_BU				2.01	545.10	372.35	375.27		375.52	0.002177	2.27	266.76	236.70	0.51	94.50
Reach 1	22400	5_BU				1.60	290.80	372.16	374.45		374.62	0.001956	1.84	159.96	109.70	0.46	98.21
Reach 1	22400	1_BU				1.78	363.60	372.16	374.64		374.85	0.002064	2.03	181.74	134.44	0.49	97.21
Reach 1	22400	0p5_BU				1.83	389.40	372.16	374.70		374.92	0.002102	2.09	189.33	139.15	0.49	96.82
Reach 1	22400	0p5-CC-LC_BU				2.12	545.10	372.16	375.02		375.29	0.002234	2.39	247.67	327.51	0.52	92.89

HEC-RAS Plan: KR_Jam_30950 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	22300	5_BU				1.39	290.80	371.96	374.08		374.35	0.003512	2.29	130.66	118.86	0.62	98.51
Reach 1	22300	1_BU				1.49	363.60	371.96	374.23		374.56	0.003870	2.55	150.16	140.76	0.67	97.21
Reach 1	22300	0p5_BU				1.53	389.40	371.96	374.28		374.62	0.003991	2.64	156.95	150.69	0.68	96.69
Reach 1	22300	0p5-CC-LC_BU				1.73	545.10	371.96	374.50	374.36	374.96	0.004706	3.10	196.71	213.04	0.75	93.00
Reach 1	22200	5_BU				1.32	290.80	371.77	373.91		374.04	0.002049	1.67	179.57	183.13	0.46	93.08
Reach 1	22200	1_BU				1.47	363.60	371.77	374.07		374.22	0.002077	1.80	212.09	217.42	0.47	90.09
Reach 1	22200	0p5_BU				1.53	389.40	371.77	374.12		374.28	0.002057	1.83	224.26	231.27	0.47	88.80
Reach 1	22200	0p5-CC-LC_BU				1.79	545.10	371.77	374.38		374.57	0.002019	2.01	296.98	324.53	0.48	81.43
Reach 1	22094	5_BU				1.06	310.30	371.63	373.58		373.75	0.003438	1.84	170.44	201.19	0.57	92.48
Reach 1	22094	1_BU				1.18	389.90	371.63	373.74		373.93	0.003274	1.92	207.80	253.50	0.57	89.39
Reach 1	22094	0p5_BU				1.21	418.50	371.63	373.80		373.99	0.003208	1.95	223.01	266.72	0.56	88.57
Reach 1	22094	0p5-CC-LC_BU				1.29	586.00	371.63	374.08		374.27	0.003085	1.99	305.59	361.49	0.56	80.32
Reach 1	22050	5_BU				0.97	310.30	371.32	373.41		373.58	0.004083	1.89	178.03	217.83	0.61	94.94
Reach 1	22050	1_BU				1.05	389.90	371.32	373.56		373.76	0.004239	2.03	215.09	274.47	0.63	94.47
Reach 1	22050	0p5_BU				1.06	418.50	371.32	373.62		373.83	0.004262	2.04	232.59	299.37	0.63	93.82
Reach 1	22050	0p5-CC-LC_BU				1.11	586.00	371.32	373.87		374.10	0.004632	2.21	316.69	382.68	0.67	91.25
Reach 1	21950	5_BU				0.85	310.30	370.75	372.91		373.10	0.005049	1.92	160.03	239.44	0.67	85.97
Reach 1	21950	1_BU				0.88	389.90	370.75	373.07		373.27	0.005012	1.96	199.41	288.74	0.67	84.72
Reach 1	21950	0p5_BU				0.89	418.50	370.75	373.13		373.32	0.005164	2.00	213.65	309.83	0.68	85.49
Reach 1	21950	0p5-CC-LC_BU				0.96	586.00	370.75	373.39		373.59	0.004627	1.99	301.48	440.28	0.65	81.19
Reach 1	21825	5_BU				0.84	310.30	370.87	372.60		372.72	0.002103	1.23	221.53	313.03	0.43	63.66
Reach 1	21825	1_BU				0.98	389.90	370.87	372.83		372.92	0.001731	1.24	299.33	413.95	0.40	65.74
Reach 1	21825	0p5_BU				1.03	418.50	370.87	372.90		372.98	0.001616	1.24	325.68	444.97	0.39	65.14
Reach 1	21825	0p5-CC-LC_BU				1.13	586.00	370.87	373.22		373.29	0.001320	1.19	499.06	744.61	0.36	60.26
Reach 1	21700	5_BU				1.29	310.30	369.78	372.29		372.44	0.002466	1.78	191.38	187.43	0.50	95.91
Reach 1	21700	1_BU				1.41	389.90	369.78	372.49		372.67	0.002523	1.90	234.40	283.52	0.51	94.63
Reach 1	21700	0p5_BU				1.41	418.50	369.78	372.55		372.74	0.002600	1.94	251.25	322.29	0.52	94.01
Reach 1	21700	0p5-CC-LC_BU				1.56	586.00	369.78	372.86		373.07	0.002682	2.10	353.60	502.07	0.54	90.12
Reach 1	21600	5_BU				1.22	310.30	369.52	372.01		372.18	0.002828	1.84	187.19	236.34	0.53	94.09
Reach 1	21600	1_BU				1.35	389.90	369.52	372.20		372.39	0.002916	2.00	229.11	287.47	0.55	93.78
Reach 1	21600	0p5_BU				1.39	418.50	369.52	372.25		372.45	0.002958	2.05	242.70	302.43	0.55	93.14
Reach 1	21600	0p5-CC-LC_BU				1.57	586.00	369.52	372.51		372.76	0.003205	2.31	320.06	429.72	0.59	89.91
Reach 1	21530	5_BU				1.18	310.30	369.79	371.83		371.97	0.002667	1.74	219.64	303.44	0.51	88.93
Reach 1	21530	1_BU				1.36	389.90	369.79	372.04		372.18	0.002343	1.79	278.36	385.00	0.49	86.18
Reach 1	21530	0p5_BU				1.41	418.50	369.79	372.09		372.24	0.002347	1.83	294.70	401.41	0.49	85.33
Reach 1	21530	0p5-CC-LC_BU				1.64	586.00	369.79	372.34		372.53	0.002545	2.11	388.74	602.41	0.53	82.63
Reach 1	21450	5_BU				1.20	310.30	368.92	371.65		371.77	0.002301	1.62	233.46	306.20	0.47	89.18
Reach 1	21450	1_BU				1.18	389.90	368.92	371.89		372.00	0.002269	1.60	312.16	520.10	0.47	85.75
Reach 1	21450	0p5_BU				1.24	418.50	368.92	371.95		372.06	0.002193	1.62	338.16	567.84	0.46	85.18
Reach 1	21450	0p5-CC-LC_BU				1.51	586.00	368.92	372.21		372.35	0.002047	1.78	486.72	775.07	0.46	81.24
Reach 1	21319	5_BU				1.19	310.30	368.49	371.18		371.39	0.003856	2.07	164.80	194.82	0.61	95.21
Reach 1	21319	1_BU				1.19	389.90	368.49	371.39		371.61	0.004191	2.16	205.28	285.52	0.63	93.43
Reach 1	21319	0p5_BU				1.18	418.50	368.49	371.45		371.68	0.004310	2.18	220.95	319.66	0.64	92.46
Reach 1	21319	0p5-CC-LC_BU				1.26	586.00	368.49	371.71		371.97	0.004657	2.37	299.25	437.61	0.68	89.27
Reach 1	21250	5_BU				1.10	310.30	368.22	370.93		371.12	0.003850	1.99	170.72	221.85	0.61	94.84
Reach 1	21250	1_BU				1.07	389.90	368.22	371.09		371.31	0.004572	2.13	205.36	286.20	0.66	93.86
Reach 1	21250	0p5_BU				1.07	418.50	368.22	371.15		371.37	0.004632	2.15	219.32	306.44	0.66	93.11
Reach 1	21250	0p5-CC-LC_BU				1.26	586.00	368.22	371.38		371.65	0.004609	2.38	285.11	377.02	0.68	90.67
Reach 1	21200	5_BU				0.94	310.30	368.17	370.81		370.93	0.003153	1.63	216.81	298.77	0.54	89.40
Reach 1	21200	1_BU				1.05	389.90	368.17	370.97		371.11	0.003048	1.72	262.42	343.48	0.54	88.21
Reach 1	21200	0p5_BU				1.09	418.50	368.17	371.03		371.17	0.002987	1.75	280.62	362.62	0.53	87.81
Reach 1	21200	0p5-CC-LC_BU				1.31	586.00	368.17	371.29		371.45	0.002816	1.91	371.38	446.07	0.53	85.43
Reach 1	21150	5_BU				0.92	310.30	368.09	370.60		370.76	0.004098	1.82	192.21	282.37	0.61	87.70
Reach 1	21150	1_BU				1.10	389.90	368.09	370.79		370.95	0.003464	1.89	240.27	344.29	0.58	86.52
Reach 1	21150	0p5_BU				1.16	418.50	368.09	370.85		371.01	0.003315	1.92	258.68	362.75	0.57	86.37
Reach 1	21150	0p5-CC-LC_BU				1.43	586.00	368.09	371.12		371.31	0.003021	2.10	347.37	421.30	0.56	83.23
Reach 1	21100	5_BU				1.15	310.30	368.03	370.49	370.02	370.60	0.002359	1.61	226.33	262.21	0.48	79.91
Reach 1	21100	1_BU				1.21	389.90	368.03	370.68	370.16	370.80	0.002353	1.65	277.41	334.20	0.48	77.11
Reach 1	21100	0p5_BU				1.24	418.50	368.03	370.75	370.20	370.87	0.002356	1.67	297.53	362.11	0.48	76.67
Reach 1	21100	0p5-CC-LC_BU				1.48	586.00	368.03	371.03	370.43	371.17	0.002342	1.86	398.48	463.89	0.49	74.91
Reach 1	21050	5_BU				1.26	310.30	367.97	370.29		370.46	0.002929	1.90	191.00	244.56	0.54	86.30
Reach 1	21050	1_BU				1.36	389.90	367.97	370.46		370.65	0.003134	2.06	229.05	290.77	0.56	84.41
Reach 1	21050	0p5_BU				1.30	418.50	367.97	370.52		370.71	0.003356	2.07	246.08	328.46	0.58	82.77
Reach 1	21050	0p5-CC-LC_BU				1.44	586.00	367.97	370.80		371.01	0.003472	2.23	341.07	441.35	0.59	78.51
Reach 1	21000	5_BU				1.23	310.30	367.91	370.19		370.30	0.002106	1.60	242.64	292.99	0.46	81.07
Reach 1	21000	1_BU				1.37	389.90	367.91	370.35		370.48	0.002107	1.73	288.32	370.42	0.47	79.52
Reach 1	21000	0p5_BU				1.42	418.50	367.91	370.40		370.54	0.002119	1.78	305.39	399.39	0.48	78.96
Reach 1	21000	0p5-CC-LC_BU				1.66	586.00	367.91	370.66		370.83	0.002295	2.05	406.13	525.09	0.51	76.54
Reach 1	20950	5_BU				1.27	310.30	367.85	370.14		370.20	0.001320	1.29	324.70	339.35	0.37	62.22
Reach 1	20950	1_BU				1.44	389.90	367.85	370.31		370.38	0.001337	1.41	385.51	413.89	0.38	61.40
Reach 1	20950	0p5_BU				1.49	418.50	367.85	370.36		370.44	0.001392	1.47	405.84	435.02	0.39	61.79
Reach 1	20950	0p5-CC-LC_BU				1.75	586.00	367.85	370.62		370.72	0.001478	1.69	536.22	634.98	0.41	59.35
Reach 1	20892	5_BU				1.23	310.30	367.84	370.01		370.11	0.002201	1.63	264.10	329.26	0.47	66.04
Reach 1	20892	1_BU				1.38	389.90	367.84	370.19		370.29	0.002131	1.73	325.62	413.64	0.47	63.85
Reach 1	20892	0p5_BU				1.43	418.50	367.84	370.23		370.35	0.002154	1.78	346.12	442.75	0.48	63.24
Reach 1	20892	0p5-CC-LC_BU				1.64	586.00	367.84	370.48		370.62	0.002353	2.04	476.62	669.29	0.51	60.79
Reach 1	20850	5_BU				1.13	310.30	367.74	369.95		370.03	0.002144	1.52	286.16	384.64	0.46	57.10
Reach 1	20850	1_BU				1.24	389.90	367.74	370.12		370.21	0.002205	1.64	359.70	475.29	0.47	56.84
Reach 1	20850	0p5_BU				1.29	418.50	367.74	370.17		370.26	0.002203	1.68	383.36	495.73	0.47	56.45
Reach 1	20850	0p5-CC-LC_BU				1.53	586.00	367.74	370.41		370.53	0.002297	1.92	519.67	681.40	0.50	54.79
Reach 1	20800	5_BU				1.22	310.30	367.71	369.79		369.93	0.003000	1.90	211.67	295.68	0.55	67.72
Reach 1	20800	1_BU				1.36	389.90	367.71	369.94		370.10	0.003213	2.10	261.20	388.81	0.58	67.19
Reach 1	20800	0p5_BU				1.40	418.50	367.71	369.98		370.15	0.003246	2.16	279.53	423.21	0.58	66.45
Reach 1	20800	0p5-CC-LC_BU				1.63	586.00	367.71	370.21		370.42	0.003380	2.44	395.24	594.50	0.61	62.34
Reach 1	20750	5_BU				1.18	310.30	367.67	369.71		369.80	0.002367	1.64	298.34	406.09	0.48	53.49
Reach 1	20750	1_BU				1.27	389.90	367.67	369.86		369.96	0.002613	1.82	362.54	477.33	0.51	53.16
Reach 1	20750	0p5_BU				1.30	418.50	367.67	369.91		370.02	0.002620	1.85	386.02	496.13	0.52	52.37
Reach 1	20750	0p5-CC-LC_BU				1.52	586.00	367.67	370.15		370.27	0.002638	2.05	516.91	629.73	0.53	49.31
Reach 1	20700	5_BU				1.17	310.30	367.63	369.57		369.70	0.003350	1.94	247.59	384.21	0.57	59.65
Reach 1	20700	1_BU				1.26	389.90	367.63	369.72		369.86	0.003394	2.06	310.65	461.34	0.59	56.95
Reach 1	20700	0p5_BU				1.30	418.50	367.63	369.77		369.91	0.003365	2.09	333.78	473.09	0.59	56.06
Reach 1	20700	0p5-CC-LC_BU				1.56	586.00	367.63	370.03		370.18	0.003101	2.26	462.57	567.47	0.58	51.70
Reach 1	20650	5_BU				1.13	310.30	367.50	369.47		369.59	0.003096	1.83	238.08	320.70	0.55	57.86
Reach 1	20650	1_BU				1.27	389.90	367.50	369.62		369.75	0.002991	1.95	289.75	365.50	0.55	55.70
Reach 1	20650	0p5_BU				1.32	418.50	367.50	369.67		369.81	0.002981	1.99	308.13	383.88	0.55	55.21
Reach 1	20650	0p5-CC-LC_BU				1.59	586.00	367.50	369.94		370.09	0.002797	2.18	418.60	484.79	0.55	51.62
Reach 1	20600	5_BU				1.12	310.30	367.38	369.38		369.47	0.002352	1.53	250.84	285.89	0.46	67.71
Reach 1	20600	1_BU				1.25	389.90	367.38	369.53		369.64	0.002396	1.64	296.95	328.47	0.47	66.20

HEC-RAS Plan: KR_Jam_30950 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	20600	0p5_BU				1.29	418.50	367.38	369.58		369.70	0.002415	1.69	313.35	348.73	0.47	65.76
Reach 1	20600	0p5-CC-LC_BU				1.51	586.00	367.38	369.85		369.98	0.002425	1.86	420.00	504.18	0.48	62.79
Reach 1	20550	5_BU				1.14	310.30	367.25	369.20		369.34	0.003036	1.81	226.63	325.75	0.54	77.10
Reach 1	20550	1_BU				1.28	389.90	367.25	369.35		369.51	0.003049	1.97	276.23	374.52	0.55	75.12
Reach 1	20550	0p5_BU				1.33	418.50	367.25	369.40		369.56	0.003040	2.01	294.45	391.52	0.56	74.34
Reach 1	20550	0p5-CC-LC_BU				1.59	586.00	367.25	369.66		369.85	0.002903	2.22	418.04	590.28	0.56	70.06
Reach 1	20400	5_BU				0.94	310.30	366.84	368.57		368.76	0.005556	2.16	170.25	229.54	0.71	63.53
Reach 1	20400	1_BU				1.06	389.90	366.84	368.69		368.92	0.005728	2.37	201.33	261.33	0.74	63.13
Reach 1	20400	0p5_BU				1.09	418.50	366.84	368.73		368.97	0.005845	2.45	211.49	271.49	0.75	62.94
Reach 1	20400	0p5-CC-LC_BU				1.30	586.00	366.84	368.95	368.72	369.25	0.006339	2.86	284.26	409.66	0.80	63.17
Reach 1	20221	5_BU				0.91	310.30	365.65	368.04		368.09	0.001942	1.10	336.42	488.26	0.37	56.84
Reach 1	20221	1_BU				1.03	389.90	365.65	368.18		368.24	0.001936	1.18	410.32	586.86	0.37	56.33
Reach 1	20221	0p5_BU				1.07	418.50	365.65	368.23		368.29	0.001896	1.20	439.59	618.86	0.37	55.74
Reach 1	20221	0p5-CC-LC_BU				1.23	586.00	365.65	368.45		368.51	0.002045	1.33	585.41	787.15	0.38	53.24
Reach 1	19763	5_BU				0.88	310.30	364.71	366.75		366.84	0.004562	1.41	236.51	330.42	0.48	91.75
Reach 1	19763	1_BU				0.92	389.90	364.71	366.97		367.05	0.004076	1.31	327.58	505.95	0.44	87.18
Reach 1	19763	0p5_BU				0.91	418.50	364.71	367.05		367.12	0.004019	1.26	372.38	590.30	0.42	85.23
Reach 1	19763	0p5-CC-LC_BU				1.02	586.00	364.71	367.38		367.43	0.003116	1.11	600.04	814.54	0.35	75.78
Reach 1	19335	5_BU				1.35	310.30	363.23	365.56	364.87	365.66	0.001963	1.49	237.40	275.09	0.41	94.40
Reach 1	19335	1_BU				1.44	389.90	363.23	365.72	365.07	365.85	0.002265	1.62	289.65	352.69	0.43	92.01
Reach 1	19335	0p5_BU				1.48	418.50	363.23	365.78	365.11	365.91	0.002361	1.66	308.71	384.43	0.44	91.44
Reach 1	19335	0p5-CC-LC_BU				1.43	586.00	363.23	366.11	365.35	366.23	0.003271	1.64	487.32	709.56	0.44	80.73
Reach 1	19009	5_BU				0.64	310.30	362.65	364.93	364.42	364.99	0.002114	1.07	296.34	498.95	0.43	99.54
Reach 1	19009	1_BU				0.68	389.90	362.65	365.06	364.53	365.12	0.002120	1.10	366.57	606.34	0.43	99.06
Reach 1	19009	0p5_BU				0.69	418.50	362.65	365.09	364.57	365.16	0.002157	1.11	389.60	639.56	0.43	98.89
Reach 1	19009	0p5-CC-LC_BU				0.79	586.00	362.65	365.28	364.80	365.35	0.002247	1.19	523.19	793.28	0.43	97.63
Reach 1	18575	5_BU				0.63	310.30	361.28	363.68	363.15	363.73	0.004237	1.00	318.76	567.80	0.40	96.79
Reach 1	18575	1_BU				0.68	389.90	361.28	363.82	363.27	363.87	0.004058	0.98	412.11	715.80	0.38	95.68
Reach 1	18575	0p5_BU				0.70	418.50	361.28	363.87	363.31	363.92	0.003946	0.99	443.08	748.03	0.38	95.26
Reach 1	18575	0p5-CC-LC_BU				0.83	586.00	361.28	364.06	363.53	364.11	0.003706	1.05	601.50	931.18	0.37	93.44
Reach 1	18123	5_BU				1.07	310.30	360.36	362.21	361.82	362.32	0.002875	1.69	238.94	334.97	0.52	66.31
Reach 1	18123	1_BU				1.14	389.90	360.36	362.34	361.97	362.46	0.003046	1.81	287.24	396.99	0.54	63.78
Reach 1	18123	0p5_BU				1.13	418.50	360.36	362.39	362.00	362.51	0.003118	1.83	307.15	428.45	0.55	62.49
Reach 1	18123	0p5-CC-LC_BU				1.20	586.00	360.36	362.63	362.22	362.76	0.003193	1.92	442.24	660.85	0.56	58.26
Reach 1	18000	5_BU				0.99	310.30	359.91	361.94	361.48	362.01	0.002860	1.49	296.38	463.08	0.48	49.86
Reach 1	18000	1_BU				1.12	389.90	359.91	362.09	361.68	362.16	0.002638	1.55	367.14	498.75	0.47	47.49
Reach 1	18000	0p5_BU				1.15	418.50	359.91	362.14	361.71	362.21	0.002596	1.57	392.10	526.92	0.47	46.67
Reach 1	18000	0p5-CC-LC_BU				1.10	586.00	359.91	362.40	361.85	362.47	0.002556	1.52	544.36	669.25	0.46	40.46
Reach 1	17900	5_BU				0.95	310.30	359.66	361.67	361.24	361.77	0.003020	1.58	242.42	360.65	0.52	53.91
Reach 1	17900	1_BU				1.08	389.90	359.66	361.84	361.35	361.94	0.002870	1.67	305.84	417.39	0.51	53.27
Reach 1	17900	0p5_BU				1.12	418.50	359.66	361.89	361.43	361.99	0.002853	1.70	327.50	443.60	0.51	53.00
Reach 1	17900	0p5-CC-LC_BU				1.24	586.00	359.66	362.13	361.64	362.25	0.002933	1.83	452.37	582.85	0.53	50.21
Reach 1	17850	5_BU				1.00	310.30	359.56	361.56	361.04	361.65	0.002775	1.59	258.96	344.65	0.51	59.90
Reach 1	17850	1_BU				1.15	389.90	359.56	361.71	361.20	361.82	0.002745	1.73	317.12	402.50	0.52	60.30
Reach 1	17850	0p5_BU				1.19	418.50	359.56	361.76	361.29	361.87	0.002723	1.77	337.42	423.61	0.52	59.92
Reach 1	17850	0p5-CC-LC_BU				1.39	586.00	359.56	361.99	361.50	362.13	0.002816	2.02	448.18	561.09	0.54	57.93
Reach 1	17800	5_BU				1.13	310.30	359.59	361.43	360.93	361.52	0.002534	1.65	276.88	396.20	0.50	58.23
Reach 1	17800	1_BU				1.15	389.90	359.59	361.60	361.11	361.69	0.002519	1.66	356.33	528.23	0.50	54.08
Reach 1	17800	0p5_BU				1.17	418.50	359.59	361.65	361.15	361.74	0.002531	1.69	384.12	556.48	0.50	53.46
Reach 1	17800	0p5-CC-LC_BU				1.38	586.00	359.59	361.89	361.41	361.99	0.002390	1.83	529.28	665.52	0.50	50.10
Reach 1	17750	5_BU				1.16	310.30	359.63	361.22	360.84	361.36	0.003583	1.96	222.48	326.95	0.58	56.67
Reach 1	17750	1_BU				1.27	389.90	359.63	361.38	361.01	361.52	0.003565	2.07	281.34	437.95	0.58	54.20
Reach 1	17750	0p5_BU				1.31	418.50	359.63	361.43	361.06	361.58	0.003552	2.09	304.56	470.02	0.58	53.26
Reach 1	17750	0p5-CC-LC_BU				1.51	586.00	359.63	361.68	361.30	361.83	0.003461	2.25	435.21	607.39	0.58	48.71
Reach 1	17700	5_BU				1.16	310.30	359.33	361.01	360.56	361.13	0.002672	1.73	232.84	346.60	0.51	60.72
Reach 1	17700	1_BU				1.29	389.90	359.33	361.17	360.69	361.29	0.002695	1.86	293.22	448.97	0.52	59.04
Reach 1	17700	0p5_BU				1.34	418.50	359.33	361.22	360.73	361.34	0.002673	1.90	316.70	487.24	0.52	58.16
Reach 1	17700	0p5-CC-LC_BU				1.58	586.00	359.33	361.46	360.96	361.60	0.002646	2.10	448.63	625.66	0.54	54.33
Reach 1	17650	5_BU				1.00	310.30	359.01	360.74	360.23	360.81	0.002061	1.39	277.45	397.42	0.44	55.45
Reach 1	17650	1_BU				1.15	389.90	359.01	360.89	360.35	360.97	0.001979	1.48	347.26	497.90	0.44	54.45
Reach 1	17650	0p5_BU				1.20	418.50	359.01	360.94	360.40	361.02	0.001964	1.51	373.11	529.22	0.44	54.10
Reach 1	17650	0p5-CC-LC_BU				1.41	586.00	359.01	361.17	360.60	361.26	0.002015	1.69	506.96	647.48	0.46	51.56
Reach 1	17600	5_BU				0.90	310.30	358.88	360.60	360.06	360.68	0.002311	1.35	252.03	368.78	0.46	40.29
Reach 1	17600	1_BU				0.97	389.90	358.88	360.76	360.20	360.84	0.002348	1.44	324.30	507.47	0.47	40.71
Reach 1	17600	0p5_BU				1.00	418.50	358.88	360.82	360.24	360.89	0.002333	1.45	352.39	547.99	0.47	40.51
Reach 1	17600	0p5-CC-LC_BU				1.22	586.00	358.88	361.04	360.50	361.13	0.002394	1.68	489.68	672.99	0.49	40.96
Reach 1	17574	5_BU				0.81	310.30	358.84	360.54	360.01	360.61	0.002531	1.31	263.32	416.15	0.47	37.02
Reach 1	17574	1_BU				0.90	389.90	358.84	360.70	360.16	360.77	0.002419	1.38	342.01	516.65	0.46	37.61
Reach 1	17574	0p5_BU				0.93	418.50	358.84	360.76	360.21	360.83	0.002404	1.40	370.27	551.83	0.47	37.87
Reach 1	17574	0p5-CC-LC_BU				1.12	586.00	358.84	360.98	360.47	361.06	0.002421	1.60	502.67	635.09	0.48	38.40
Reach 1	17500	5_BU				0.61	310.30	358.91	360.39	359.88	360.44	0.001799	0.93	310.55	507.82	0.38	26.18
Reach 1	17500	1_BU				0.75	389.90	358.91	360.58	360.01	360.62	0.001497	0.98	422.96	672.17	0.36	29.10
Reach 1	17500	0p5_BU				0.80	418.50	358.91	360.63	360.05	360.68	0.001550	1.04	458.49	710.02	0.37	30.65
Reach 1	17500	0p5-CC-LC_BU				1.03	586.00	358.91	360.87	360.28	360.91	0.001413	1.16	645.66	870.45	0.37	31.75
Reach 1	17450	5_BU				0.79	310.30	359.04	360.34	359.76	360.40	0.001853	1.11	310.59	532.63	0.40	23.84
Reach 1	17450	1_BU				0.97	389.90	359.04	360.53	359.87	360.58	0.001538	1.16	428.40	668.01	0.38	24.81
Reach 1	17450	0p5_BU				1.02	418.50	359.04	360.58	359.91	360.63	0.001499	1.18	462.84	705.97	0.37	24.77
Reach 1	17450	0p5-CC-LC_BU				1.25	586.00	359.04	360.82	360.18	360.87	0.001376	1.30	650.73	862.50	0.37	23.97
Reach 1	17350	5_BU				0.83	310.30	358.05	360.04	359.63	360.21	0.003855	1.51	182.52	224.25	0.53	36.48
Reach 1	17350	1_BU				0.79	389.90	358.05	360.27	359.83	360.42	0.003758	1.47	250.01	405.70	0.53	36.92
Reach 1	17350	0p5_BU				0.80	418.50	358.05	360.34	359.90	360.48	0.003538	1.44	284.05	490.19	0.52	37.23
Reach 1	17350	0p5-CC-LC_BU				0.96	586.00	358.05	360.65	360.32	360.74	0.002816	1.46	487.11	805.07	0.48	38.71
Reach 1	17200	5_BU				0.90	310.30	357.76	359.56	359.23	359.81	0.006161	2.00	148.21	156.56	0.67	45.45
Reach 1	17200	1_BU				1.08	389.90	357.76	359.81	359.38	360.05	0.005085	2.04	191.80	197.05	0.63	47.81
Reach 1	17200	0p5_BU				1.15	418.50	357.76	359.88	359.48	360.13	0.004868	2.07	207.68	236.80	0.62	48.42
Reach 1	17200	0p5-CC-LC_BU				1.53	586.00	357.76	360.27	359.87	360.46	0.003839	2.20	356.12	541.25	0.57	49.03
Reach 1	17050	5_BU				2.08	310.30	356.29	359.31	358.29	359.46	0.001286	1.73	195.75	168.81	0.38	98.42
Reach 1	17050	1_BU				2.28	389.90	356.29	359.52	358.49	359.70	0.001441	1.93	244.64	284.64	0.41	96.30
Reach 1	17050	0p5_BU				2.34	418.50	356.29	359.59	358.56	359.78	0.001482	1.99	264.96	326.43	0.42	95.22
Reach 1	17050	0p5-CC-LC_BU				2.67	586.00	356.29	359.92	358.91	360.15	0.001595	2.25	408.12	557.30	0.44	87.84
Reach 1	16812	5_BU				1.29	310.30	354.74	358.79	358.37	359.00	0.003176	2.03	164.67	172.46	0.57	97.13
Reach 1	16812	1_BU				1.44	389.90	354.74	358.98	358.54	359.22	0.003193	2.21	199.14	203.94	0.59	96.17
Reach 1	16812	0p5_BU				1.50	418.50	354.74	359.04	358.59	359.29	0.003192	2.26	211.79	219.23	0.59	95.61
Reach 1	16812	0p5-CC-LC_BU				1.80	586.00	354.74	359.33	358.94	359.64	0.003263	2.55	288.64	290.27	0.61	92.15
Reach 1	16285	5_BU				1.29	310.30	354.72	357.31	356.83	357.47	0.002544	1.79	186.03	178.06	0.50	96.89
Reach 1	16285	1_BU				1.47	389.90	354.72	357.49	357.00	357.68	0.002533	1.95	219.80	195.26	0.51	95.47
Reach 1	16285	0p5_BU				1.53	418.50	354.72	357.55	357.05	357.75	0.002503	1.99	233.03	213.33	0.51	95.03
Reach 1	16285	0p5-CC-LC_BU				1.89	586.00	354.72	357.91	357.31	358.13	0.002260	2.18	330.56	349.48	0.51	91.31

HEC-RAS Plan: KR_Jam_30950 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	15937	5_BU				1.15	310.30	353.96	356.55	355.99	356.66	0.001993	1.48	213.08	196.51	0.44	99.64
Reach 1	15937	1_BU				1.32	389.90	353.96	356.79	356.15	356.91	0.001754	1.52	262.73	218.22	0.42	99.27
Reach 1	15937	0p5_BU				1.37	418.50	353.96	356.88	356.19	356.99	0.001694	1.53	282.03	231.75	0.42	99.11
Reach 1	15937	0p5-CC-LC_BU				1.53	586.00	353.96	357.31	356.41	357.43	0.001506	1.55	401.68	322.50	0.40	97.68
Reach 1	15657	5_BU				1.80	310.30	352.57	355.89	355.16	356.09	0.002009	2.00	156.62	94.77	0.48	99.89
Reach 1	15657	1_BU				1.98	389.90	352.57	356.08	355.35	356.34	0.002275	2.26	176.12	114.07	0.51	99.71
Reach 1	15657	0p5_BU				2.05	418.50	352.57	356.15	355.42	356.43	0.002331	2.34	184.40	123.76	0.52	99.58
Reach 1	15657	0p5-CC-LC_BU				2.33	586.00	352.57	356.43	355.77	356.84	0.002921	2.86	226.94	196.65	0.60	98.51
Reach 1	15073	5_BU				1.03	310.30	351.49	354.04	353.78	354.29	0.005298	2.22	139.94	136.15	0.70	100.00
Reach 1	15073	1_BU				1.17	389.90	351.49	354.31	353.94	354.55	0.004314	2.18	178.93	153.78	0.64	99.97
Reach 1	15073	0p5_BU				1.18	418.50	351.49	354.41	353.99	354.64	0.004107	2.15	195.11	165.66	0.63	99.95
Reach 1	15073	0p5-CC-LC_BU				1.50	586.00	351.49	354.93	354.28	355.14	0.002695	2.04	288.09	193.33	0.53	99.86
Reach 1	14797	5_BU				1.93	310.30	350.08	353.33	352.47	353.51	0.001652	1.88	164.99	85.46	0.43	100.00
Reach 1	14797	1_BU				2.20	389.90	350.08	353.63	352.66	353.85	0.001641	2.04	190.74	86.57	0.44	100.00
Reach 1	14797	0p5_BU				2.29	418.50	350.08	353.73	352.73	353.96	0.001638	2.10	199.49	86.94	0.44	100.00
Reach 1	14797	0p5-CC-LC_BU				2.79	586.00	350.08	354.27	353.09	354.56	0.001665	2.38	246.59	88.73	0.45	100.00
Reach 1	14088	5_BU				1.84	320.00	349.51	352.07	351.30	352.26	0.001887	1.96	163.20	156.19	0.46	99.97
Reach 1	14088	1_BU				2.02	403.00	349.51	352.25	351.51	352.51	0.002188	2.25	179.49	159.65	0.51	99.92
Reach 1	14088	0p5_BU				2.08	433.00	349.51	352.31	351.57	352.59	0.002293	2.35	184.87	161.17	0.52	99.90
Reach 1	14088	0p5-CC-LC_BU				2.38	606.20	349.51	352.61	351.92	353.03	0.002826	2.86	213.11	193.90	0.59	99.75
Reach 1	14004	5_BU				1.34	320.00	349.38	351.76	351.47	352.00	0.003720	2.24	154.58	406.98	0.62	92.14
Reach 1	14004	1_BU				1.49	403.00	349.38	351.91	351.64	352.20	0.003913	2.47	177.25	423.28	0.64	89.75
Reach 1	14004	0p5_BU				1.55	433.00	349.38	351.96	351.70	352.27	0.003966	2.54	185.01	430.68	0.65	89.02
Reach 1	14004	0p5-CC-LC_BU				1.83	606.20	349.38	352.25	351.96	352.64	0.004070	2.88	228.44	498.77	0.68	85.56
Reach 1	13755	5_BU				1.05	320.00	347.42	350.84	350.38	350.98	0.003002	1.70	188.76	474.85	0.53	64.78
Reach 1	13755	1_BU				1.24	403.00	347.42	351.03	350.54	351.19	0.002746	1.81	226.33	538.97	0.52	64.86
Reach 1	13755	0p5_BU				1.30	433.00	347.42	351.09	350.60	351.26	0.002685	1.85	239.27	563.02	0.52	64.75
Reach 1	13755	0p5-CC-LC_BU				1.55	606.20	347.42	351.35	350.85	351.56	0.002842	2.14	299.78	633.83	0.55	64.09
Reach 1	13404	5_BU				1.57	320.00	346.33	349.21	349.07	349.66	0.005546	3.02	115.39	194.73	0.77	94.39
Reach 1	13404	1_BU				1.74	403.00	346.33	349.40	349.33	349.91	0.005810	3.30	137.39	221.46	0.80	91.30
Reach 1	13404	0p5_BU				1.79	433.00	346.33	349.45	349.38	349.99	0.005889	3.39	145.42	228.79	0.81	90.21
Reach 1	13404	0p5-CC-LC_BU				2.16	606.20	346.33	349.83	349.83	350.36	0.004970	3.53	215.55	338.32	0.77	81.10
Reach 1	13209	5_BU				1.59	320.00	345.37	348.73	348.16	348.91	0.002341	1.98	180.57	298.16	0.50	85.41
Reach 1	13209	1_BU				1.81	403.00	345.37	348.95	348.37	349.15	0.002256	2.11	215.61	311.89	0.50	82.40
Reach 1	13209	0p5_BU				1.88	433.00	345.37	349.01	348.43	349.22	0.002251	2.16	226.31	313.19	0.50	81.27
Reach 1	13209	0p5-CC-LC_BU				2.20	606.20	345.37	349.34	348.74	349.60	0.002308	2.43	279.56	329.02	0.52	76.65
Reach 1	13100	5_BU				1.53	320.00	345.58	348.43	347.89	348.63	0.002530	2.01	167.58	550.93	0.52	98.07
Reach 1	13100	1_BU				1.77	403.00	345.58	348.67	348.07	348.89	0.002289	2.11	209.49	615.83	0.51	94.73
Reach 1	13100	0p5_BU				1.83	433.00	345.58	348.74	348.14	348.96	0.002283	2.16	221.36	629.43	0.51	93.59
Reach 1	13100	0p5-CC-LC_BU				2.15	606.20	345.58	349.06	348.54	349.33	0.002344	2.44	279.88	723.48	0.53	88.46
Reach 1	13000	5_BU				1.26	320.00	345.10	347.52	347.52	348.15	0.009954	3.51	91.13	184.47	1.00	100.00
Reach 1	13000	1_BU				1.10	403.00	345.10	347.92	347.92	348.45	0.009925	3.20	126.89	334.53	0.98	99.70
Reach 1	13000	0p5_BU				1.13	433.00	345.10	347.98	347.98	348.52	0.009856	3.26	134.58	348.55	0.98	99.52
Reach 1	13000	0p5-CC-LC_BU				1.39	606.20	345.10	348.30	348.30	348.91	0.008577	3.49	179.40	435.98	0.94	97.90
Reach 1	12950	5_BU				1.56	320.00	344.85	347.63	346.40	347.70	0.000835	1.17	272.75	503.53	0.30	100.00
Reach 1	12950	1_BU				1.66	403.00	344.85	347.80	346.56	347.89	0.000973	1.32	305.77	538.18	0.33	99.98
Reach 1	12950	0p5_BU				1.71	433.00	344.85	347.86	346.62	347.96	0.001003	1.37	317.47	549.79	0.33	99.94
Reach 1	12950	0p5-CC-LC_BU				1.96	606.20	344.85	348.13	346.89	348.27	0.001205	1.64	378.37	663.55	0.37	99.25
Reach 1	12887	5_BU				1.05	320.00	344.53	347.45	346.95	347.60	0.003024	1.71	188.96	348.90	0.53	99.38
Reach 1	12887	1_BU				1.12	403.00	344.53	347.61	347.12	347.78	0.003235	1.85	220.56	373.70	0.56	98.99
Reach 1	12887	0p5_BU				1.12	433.00	344.53	347.67	347.17	347.85	0.003372	1.88	232.13	386.49	0.57	98.84
Reach 1	12887	0p5-CC-LC_BU				1.30	606.20	344.53	347.91	347.47	348.14	0.003542	2.14	290.23	441.36	0.60	98.40
Reach 1	12850	5_BU				0.76	320.00	344.40	347.00	347.00	347.38	0.011768	2.72	117.56	295.82	1.00	100.00
Reach 1	12850	1_BU				0.80	403.00	344.40	347.16	347.16	347.56	0.011472	2.79	144.67	346.12	0.99	99.99
Reach 1	12850	0p5_BU				0.82	433.00	344.40	347.21	347.21	347.62	0.011356	2.81	154.13	358.77	0.99	99.99
Reach 1	12850	0p5-CC-LC_BU				1.09	606.20	344.40	347.72	347.45	347.98	0.005000	2.27	269.33	498.23	0.69	99.76
Reach 1	12800	5_BU				1.13	320.00	343.70	346.67	346.29	346.89	0.003993	2.07	154.86	251.95	0.62	99.97
Reach 1	12800	1_BU				1.28	403.00	343.70	347.03	346.45	347.20	0.002820	1.89	224.02	434.02	0.53	97.70
Reach 1	12800	0p5_BU				1.35	433.00	343.70	347.15	346.51	347.31	0.002411	1.81	257.43	471.65	0.50	96.01
Reach 1	12800	0p5-CC-LC_BU				1.75	606.20	343.70	347.71	346.89	347.83	0.001281	1.57	438.76	681.63	0.38	86.22
Reach 1	12735	5_BU				2.19	320.00	340.98	346.75	344.02	346.79	0.000263	0.82	402.63	365.39	0.18	98.81
Reach 1	12735	1_BU				2.47	403.00	340.98	347.09	344.27	347.12	0.000252	0.87	499.59	441.45	0.18	96.04
Reach 1	12735	0p5_BU				2.58	433.00	340.98	347.20	344.35	347.24	0.000243	0.89	536.95	473.84	0.18	94.89
Reach 1	12735	0p5-CC-LC_BU				3.12	606.20	340.98	347.73	344.85	347.78	0.000223	0.96	722.68	586.00	0.17	88.70
Reach 1	12700	5_BU				2.13	320.00	342.78	346.71	345.06	346.77	0.000501	1.12	324.08	394.09	0.24	90.32
Reach 1	12700	1_BU				2.41	403.00	342.78	347.05	345.27	347.11	0.000448	1.15	413.64	483.39	0.24	85.30
Reach 1	12700	0p5_BU				2.51	433.00	342.78	347.17	345.35	347.23	0.000421	1.14	448.20	502.05	0.23	83.11
Reach 1	12700	0p5-CC-LC_BU				3.04	606.20	342.78	347.70	345.79	347.76	0.000363	1.21	622.72	670.36	0.22	75.88
Reach 1	12650	5_BU				2.32	320.00	342.92	346.64	345.22	346.74	0.000753	1.45	252.50	325.79	0.30	87.31
Reach 1	12650	1_BU				2.63	403.00	342.92	346.97	345.47	347.07	0.000695	1.51	309.47	403.37	0.30	82.88
Reach 1	12650	0p5_BU				2.75	433.00	342.92	347.09	345.57	347.19	0.000691	1.55	332.99	441.04	0.30	82.55
Reach 1	12650	0p5-CC-LC_BU				3.28	606.20	342.92	347.62	346.15	347.73	0.000608	1.64	479.16	631.62	0.29	74.44
Reach 1	12600	5_BU				2.36	320.00	342.87	346.55	345.54	346.68	0.001093	1.76	208.72	234.29	0.37	73.79
Reach 1	12600	1_BU				2.61	403.00	342.87	346.88	345.81	347.02	0.001060	1.85	251.57	323.60	0.37	70.31
Reach 1	12600	0p5_BU				2.73	433.00	342.87	346.99	345.88	347.14	0.001026	1.87	269.15	380.40	0.36	69.28
Reach 1	12600	0p5-CC-LC_BU				3.26	606.20	342.87	347.53	346.23	347.68	0.000949	2.03	405.92	672.93	0.36	64.17
Reach 1	12550	5_BU				2.22	320.00	343.00	346.54	345.29	346.63	0.000725	1.38	273.46	527.51	0.30	81.65
Reach 1	12550	1_BU				2.56	403.00	343.00	346.88	345.65	346.96	0.000605	1.39	369.71	661.56	0.28	75.28
Reach 1	12550	0p5_BU				2.69	433.00	343.00	347.01	345.75	347.08	0.000549	1.37	412.02	715.94	0.27	72.24
Reach 1	12550	0p5-CC-LC_BU				3.24	606.20	343.00	347.56	346.12	347.63	0.000408	1.34	637.26	878.19	0.24	60.83
Reach 1	12500	5_BU				1.42	320.00	343.14	346.46	345.73	346.57	0.001454	1.46	229.44	387.16	0.39	98.48
Reach 1	12500	1_BU				1.75	403.00	343.14	346.81	345.90	346.92	0.001097	1.45	296.87	431.74	0.35	97.33
Reach 1	12500	0p5_BU				1.87	433.00	343.14	346.93	345.95	347.04	0.001007	1.46	326.27	500.79	0.34	97.19
Reach 1	12500	0p5-CC-LC_BU				2.43	606.20	343.14	347.49	346.20	347.59	0.000702	1.45	595.49	952.06	0.30	89.77
Reach 1	12436	5_BU				1.61	320.00	343.08	345.50	345.50	346.31	0.009314	3.97	81.44	159.70	1.00	99.85
Reach 1	12436	1_BU				1.92	403.00	343.08	345.82	345.82	346.69	0.008060	4.16	100.94	189.19	0.96	99.10
Reach 1	12436	0p5_BU				2.01	433.00	343.08	345.90	345.90	346.82	0.007976	4.26	106.77	192.24	0.96	98.80
Reach 1	12436	0p5-CC-LC_BU				2.73	606.20	343.08	346.62	346.62	347.43	0.004947	4.12	180.63	349.80	0.79	92.64
Reach 1	12300	5_BU				1.78	320.00	342.78	345.33	344.60	345.53	0.002035	2.00	179.61	385.48	0.48	96.16
Reach 1	12300	1_BU				1.99	403.00	342.78	345.56	344.84	345.79	0.002081	2.18	216.40	427.85	0.49	93.92
Reach 1	12300	0p5_BU				2.07	433.00	342.78	345.63	344.92	345.87	0.002104	2.24	228.89	446.49	0.50	93.18
Reach 1	12300	0p5-CC-LC_BU				2.41	606.20	342.78	345.97	345.33	346.28	0.002280	2.58	297.98	508.88	0.53	89.32
Reach 1	11788	5_BU				1.50	320.00	342.07	344.28	343.70	344.43	0.002150	1.82	189.03	494.22	0.48	86.94
Reach 1	11788	1_BU				1.62	403.00	342.07	344.49	343.86	344.66	0.002202	1.95	229.44	547.83	0.49	84.21
Reach 1	11788	0p5_BU				1.67	433.00	342.07	344.56	343.91	344.74	0.002202	1.99	244.34	563.24	0.49	83.35
Reach 1	11788	0p5-CC-LC_BU				2.00	606.20	342.07	344.92	344.21	345.12	0.002044	2.16	352.36	733.30	0.49	79.07
Reach 1	11514	5_BU				1.15	320.00	340.85	343.20	342.96	343.52	0.005754	2.52	128.50	248.30	0.75	99.68

HEC-RAS Plan: KR_Jam_30950 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	11514	1_BU				1.36	403.00	340.85	343.42	343.16	343.78	0.005136	2.66	154.38	314.65	0.73	99.50
Reach 1	11514	0p5_BU				1.45	433.00	340.85	343.51	343.22	343.87	0.004825	2.68	165.34	351.59	0.71	99.39
Reach 1	11514	0p5-CC-LC_BU				1.78	606.20	340.85	343.85	343.51	344.31	0.004636	3.01	212.99	435.24	0.72	98.71
Reach 1	11034	5_BU				1.76	320.00	338.63	342.19		342.31	0.001320	1.59	209.27	299.51	0.38	94.76
Reach 1	11034	1_BU				1.93	403.00	338.63	342.47		342.61	0.001325	1.69	251.35	377.96	0.39	93.19
Reach 1	11034	0p5_BU				1.98	433.00	338.63	342.56		342.71	0.001354	1.75	268.42	405.64	0.40	93.69
Reach 1	11034	0p5-CC-LC_BU				2.26	606.20	338.63	342.98		343.15	0.001355	1.90	360.09	514.44	0.40	89.06
Reach 1	10544	5_BU				1.58	320.00	337.82	341.05		341.33	0.003273	2.34	141.82	282.87	0.59	99.16
Reach 1	10544	1_BU				1.78	403.00	337.82	341.26		341.60	0.003387	2.57	172.41	350.27	0.62	98.37
Reach 1	10544	0p5_BU				1.84	433.00	337.82	341.34		341.69	0.003379	2.63	185.52	373.13	0.62	97.77
Reach 1	10544	0p5-CC-LC_BU				2.20	606.20	337.82	341.71	341.25	342.12	0.003315	2.93	271.67	504.87	0.63	93.42
Reach 1	9771	5_BU				1.38	320.00	336.80	339.07		339.22	0.002221	1.77	189.58	510.56	0.48	97.49
Reach 1	9771	1_BU				1.55	403.00	336.80	339.26		339.45	0.002237	1.92	223.17	623.30	0.49	96.22
Reach 1	9771	0p5_BU				1.60	433.00	336.80	339.32		339.51	0.002286	1.98	233.28	646.96	0.50	95.80
Reach 1	9771	0p5-CC-LC_BU				1.88	606.20	336.80	339.60		339.85	0.002519	2.31	288.66	741.62	0.54	93.50
Reach 1	8903	5_BU				1.72	320.00	333.65	336.76		337.04	0.003232	2.44	148.51	322.20	0.60	85.53
Reach 1	8903	1_BU				1.92	403.00	333.65	337.00		337.30	0.003173	2.61	184.71	433.04	0.60	82.48
Reach 1	8903	0p5_BU				1.98	433.00	333.65	337.08		337.38	0.003097	2.63	200.13	459.69	0.60	80.85
Reach 1	8903	0p5-CC-LC_BU				2.30	606.20	333.65	337.45		337.77	0.002871	2.80	281.96	539.53	0.59	73.03
Reach 1	8300	5_BU				1.67	320.00	332.67	335.37		335.54	0.001933	1.87	190.29	318.02	0.46	95.51
Reach 1	8300	1_BU				1.88	403.00	332.67	335.59		335.80	0.001993	2.05	228.56	385.20	0.48	94.26
Reach 1	8300	0p5_BU				1.95	433.00	332.67	335.67		335.89	0.002032	2.12	243.02	414.95	0.48	94.36
Reach 1	8300	0p5-CC-LC_BU				2.26	606.20	332.67	336.02		336.29	0.002172	2.42	337.32	603.59	0.51	90.96
Reach 1	7514	5_BU				1.32	320.00	330.29	332.85		333.20	0.005065	2.66	128.63	313.89	0.74	96.68
Reach 1	7514	1_BU				1.51	403.00	330.29	333.08		333.47	0.004723	2.82	154.62	334.68	0.73	96.09
Reach 1	7514	0p5_BU				1.60	433.00	330.29	333.17		333.57	0.004548	2.86	165.75	356.64	0.72	95.82
Reach 1	7514	0p5-CC-LC_BU				2.02	606.20	330.29	333.61	333.21	334.05	0.003875	3.03	252.49	501.78	0.68	92.72
Reach 1	6800	5_BU				2.02	320.00	327.67	330.75		330.99	0.002035	2.16	147.90	172.09	0.49	100.00
Reach 1	6800	1_BU				2.33	403.00	327.67	331.06		331.34	0.001996	2.35	171.92	243.05	0.49	99.91
Reach 1	6800	0p5_BU				2.41	433.00	327.67	331.15		331.45	0.002033	2.44	178.94	252.79	0.50	99.83
Reach 1	6800	0p5-CC-LC_BU				2.93	606.20	327.67	331.67		332.06	0.002055	2.79	221.65	291.32	0.52	99.07
Reach 1	6650	5_BU				1.60	320.00	327.66	330.43		330.64	0.002467	2.03	158.71	302.71	0.51	99.89
Reach 1	6650	1_BU				1.57	403.00	327.66	330.77		330.99	0.002542	2.05	199.90	354.43	0.52	99.73
Reach 1	6650	0p5_BU				1.69	433.00	327.66	330.89		331.10	0.002334	2.05	214.63	358.43	0.50	99.68
Reach 1	6650	0p5-CC-LC_BU				2.32	606.20	327.66	331.52		331.74	0.001561	2.08	301.19	407.70	0.44	99.31
Reach 1	6563	5_BU				1.40	320.00	327.63	330.23		330.41	0.002627	1.93	176.49	189.07	0.52	97.70
Reach 1	6563	1_BU				1.72	403.00	327.63	330.61		330.79	0.001910	1.89	227.44	208.58	0.46	97.52
Reach 1	6563	0p5_BU				1.85	433.00	327.63	330.74		330.91	0.001737	1.89	244.99	217.47	0.44	97.49
Reach 1	6563	0p5-CC-LC_BU				2.54	606.20	327.63	331.43		331.61	0.001173	1.92	341.61	284.75	0.38	97.24
Reach 1	6400	5_BU				2.29	320.00	325.72	329.86		330.05	0.001947	1.92	166.92	132.56	0.40	100.00
Reach 1	6400	1_BU				2.65	403.00	325.72	330.26		330.47	0.001901	2.06	196.05	146.94	0.40	100.00
Reach 1	6400	0p5_BU				2.77	433.00	325.72	330.39		330.61	0.001896	2.10	205.88	153.61	0.40	100.00
Reach 1	6400	0p5-CC-LC_BU				3.39	606.20	325.72	331.09		331.37	0.001858	2.35	258.58	287.63	0.41	100.00
Reach 1	6300	5_BU				2.38	320.00	325.66	329.61		329.86	0.001694	2.21	145.14	95.39	0.46	100.00
Reach 1	6300	1_BU				2.77	403.00	325.66	330.00		330.29	0.001625	2.39	169.14	102.40	0.46	99.95
Reach 1	6300	0p5_BU				2.89	433.00	325.66	330.12		330.43	0.001614	2.45	177.16	105.93	0.46	99.92
Reach 1	6300	0p5-CC-LC_BU				3.56	606.20	325.66	330.79		331.18	0.001569	2.78	222.80	173.04	0.47	99.49
Reach 1	6200	5_BU				2.36	320.00	325.60	329.47		329.68	0.001592	2.04	157.10	139.61	0.42	100.00
Reach 1	6200	1_BU				2.72	403.00	325.60	329.87		330.12	0.001557	2.19	183.94	158.25	0.42	100.00
Reach 1	6200	0p5_BU				2.85	433.00	325.60	330.00		330.26	0.001536	2.25	193.11	171.60	0.42	99.98
Reach 1	6200	0p5-CC-LC_BU				3.54	606.20	325.60	330.69		331.01	0.001451	2.52	248.46	264.26	0.43	99.50
Reach 1	6150	5_BU				2.57	320.00	325.56	329.35		329.60	0.001556	2.22	144.41	104.58	0.44	100.00
Reach 1	6150	1_BU				2.91	403.00	325.56	329.73		330.03	0.001591	2.43	165.98	108.70	0.45	100.00
Reach 1	6150	0p5_BU				3.03	433.00	325.56	329.86		330.17	0.001598	2.50	173.24	110.26	0.46	99.99
Reach 1	6150	0p5-CC-LC_BU				3.68	606.20	325.56	330.50		330.92	0.001635	2.88	212.09	130.38	0.48	99.77
Reach 1	6100	5_BU				2.48	320.00	325.53	329.25		329.52	0.001771	2.31	138.70	83.86	0.47	100.00
Reach 1	6100	1_BU				2.81	403.00	325.53	329.62		329.95	0.001798	2.52	159.92	95.73	0.48	100.00
Reach 1	6100	0p5_BU				2.93	433.00	325.53	329.75		330.09	0.001800	2.59	167.02	103.57	0.48	100.00
Reach 1	6100	0p5-CC-LC_BU				3.57	606.20	325.53	330.39		330.84	0.001821	2.98	204.72	173.34	0.50	99.88
Reach 1	6050	5_BU				2.52	320.00	325.50	329.18		329.43	0.001591	2.21	144.84	126.35	0.44	100.00
Reach 1	6050	1_BU				2.90	403.00	325.50	329.55		329.85	0.001582	2.42	167.03	135.47	0.45	99.95
Reach 1	6050	0p5_BU				3.02	433.00	325.50	329.68		330.00	0.001586	2.49	174.48	138.46	0.46	99.92
Reach 1	6050	0p5-CC-LC_BU				3.66	606.20	325.50	330.32		330.74	0.001626	2.87	213.65	153.50	0.48	99.68
Reach 1	6000	5_BU				2.45	320.00	325.48	329.06		329.34	0.001814	2.32	138.05	100.17	0.47	100.00
Reach 1	6000	1_BU				2.78	403.00	325.48	329.44		329.76	0.001928	2.53	159.14	127.11	0.48	100.00
Reach 1	6000	0p5_BU				2.90	433.00	325.48	329.56		329.90	0.001974	2.61	166.24	129.90	0.49	99.99
Reach 1	6000	0p5-CC-LC_BU				3.52	606.20	325.48	330.19		330.65	0.002059	2.99	203.93	147.08	0.51	99.82
Reach 1	5950	5_BU				2.38	320.00	325.47	328.93		329.24	0.002133	2.47	129.81	72.91	0.51	100.00
Reach 1	5950	1_BU				2.69	403.00	325.47	329.28		329.65	0.002283	2.70	149.50	87.64	0.52	100.00
Reach 1	5950	0p5_BU				2.81	433.00	325.47	329.40		329.79	0.002293	2.78	156.05	89.09	0.53	100.00
Reach 1	5950	0p5-CC-LC_BU				3.42	606.20	325.47	330.01		330.53	0.002322	3.19	191.29	103.34	0.55	99.90
Reach 1	5900	5_BU				2.34	320.00	325.42	328.83		329.13	0.002117	2.43	131.43	88.62	0.51	100.00
Reach 1	5900	1_BU				2.69	403.00	325.42	329.18		329.54	0.002107	2.66	151.51	113.13	0.52	99.98
Reach 1	5900	0p5_BU				2.81	433.00	325.42	329.30		329.68	0.002108	2.74	158.30	114.20	0.52	99.95
Reach 1	5900	0p5-CC-LC_BU				3.43	606.20	325.42	329.91		330.42	0.002127	3.14	194.50	124.30	0.54	99.71
Reach 1	5850	5_BU				2.21	320.00	325.40	328.54		328.98	0.003336	2.94	108.82	69.00	0.63	100.00
Reach 1	5850	1_BU				2.49	403.00	325.40	328.86		329.39	0.003472	3.24	124.38	73.42	0.66	100.00
Reach 1	5850	0p5_BU				2.59	433.00	325.40	328.96		329.53	0.003510	3.34	129.50	77.94	0.66	99.99
Reach 1	5850	0p5-CC-LC_BU				3.11	606.20	325.40	329.48		330.25	0.003735	3.90	156.20	110.07	0.71	99.89
Reach 1	5800	5_BU				2.17	320.00	325.36	328.42		328.81	0.003002	2.76	116.10	102.42	0.60	100.00
Reach 1	5800	1_BU				2.46	403.00	325.36	328.74		329.21	0.003064	3.02	133.40	111.65	0.62	100.00
Reach 1	5800	0p5_BU				2.55	433.00	325.36	328.85		329.34	0.003095	3.11	139.13	119.28	0.62	99.99
Reach 1	5800	0p5-CC-LC_BU				3.08	606.20	325.36	329.38		330.04	0.003221	3.60	169.15	158.82	0.66	99.94
Reach 1	5750	5_BU				2.12	320.00	325.34	328.25		328.65	0.003181	2.80	114.16	159.30	0.61	100.00
Reach 1	5750	1_BU				2.39	403.00	325.34	328.57		329.05	0.003270	3.07	131.16	168.35	0.63	100.00
Reach 1	5750	0p5_BU				2.49	433.00	325.34	328.67		329.18	0.003301	3.17	136.76	171.04	0.64	100.00
Reach 1	5750	0p5-CC-LC_BU				3.01	606.20	325.34	329.20		329.88	0.003400	3.65	166.79	193.07	0.67	99.87
Reach 1	5724	5_BU				2.16	320.00	325.30	328.22		328.56	0.002684	2.60	123.18	81.33	0.56	100.00
Reach 1	5724	1_BU				2.46	403.00	325.30	328.54		328.95	0.002717	2.85	141.55	111.38	0.58	99.99
Reach 1	5724	0p5_BU				2.56	433.00	325.30	328.64		329.08	0.002735	2.94	147.59	124.27	0.59	99.98
Reach 1	5724	0p5-CC-LC_BU				3.10	606.20	325.30	329.18		329.77	0.002825	3.39	179.66	172.58	0.61	99.85
Reach 1	5650	5_BU				2.10	320.00	325.13	327.97		328.35	0.003057	2.73	117.18	81.77	0.60	100.00
Reach 1	5650	1_BU				2.37	403.00	325.13	328.27		328.73	0.003157	3.00	134.28	85.55	0.62	100.00
Reach 1	5650	0p5_BU				2.47	433.00	325.13	328.37		328.86	0.003183	3.10	139.88	93.37	0.63	100.00
Reach 1	5650	0p5-CC-LC_BU				2.98	606.20	325.13	328.88		329.54	0.003342	3.59	169.41	135.41	0.66	99.88
Reach 1	5550	5_BU				1.98	320.00	324.87	327.59		328.01	0.003607	2.85	112.09	71.61	0.65	100.00
Reach 1	5550	1_BU				2.23	403.00	324.87	327.88		328.38	0.003749	3.14	128.17	86.49	0.67	100.00
Reach 1	5550	0p5_BU				2.32	433.00	324.87	327.97		328.50	0.003799	3.25	133.42	90.24	0.68	99.99

HEC-RAS Plan: KR_Jam_30950 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	5550	0p5-CC-LC_BU				2.76	606.20	324.87	328.41		329.15	0.004132	3.81	159.57	112.47	0.73	99.93
Reach 1	5400	5_BU				1.93	320.00	324.48	327.24		327.52	0.002514	2.34	136.52	109.54	0.54	100.00
Reach 1	5400	1_BU				2.17	403.00	324.48	327.53		327.87	0.002556	2.56	157.68	118.37	0.55	100.00
Reach 1	5400	0p5_BU				2.25	433.00	324.48	327.63		327.98	0.002574	2.63	164.68	121.11	0.56	100.00
Reach 1	5400	0p5-CC-LC_BU				2.68	606.20	324.48	328.10		328.57	0.002710	3.03	200.13	133.57	0.59	99.95
Reach 1	5200	5_BU				2.14	320.00	323.95	326.96		327.13	0.001346	1.84	174.18	147.28	0.40	100.00
Reach 1	5200	1_BU				2.38	403.00	323.95	327.24		327.45	0.001437	2.04	197.79	158.87	0.42	100.00
Reach 1	5200	0p5_BU				2.46	433.00	323.95	327.33		327.56	0.001473	2.11	205.48	161.95	0.43	100.00
Reach 1	5200	0p5-CC-LC_BU				2.86	606.20	323.95	327.79		328.10	0.001671	2.48	244.14	180.17	0.47	100.00
Reach 1	4950	5_BU				1.74	320.00	323.31	326.48		326.70	0.002239	2.06	167.42	179.76	0.50	98.31
Reach 1	4950	1_BU				1.86	403.00	323.31	326.74		326.99	0.002395	2.23	197.79	228.08	0.52	97.76
Reach 1	4950	0p5_BU				1.92	433.00	323.31	326.83		327.09	0.002417	2.29	208.52	243.88	0.53	97.61
Reach 1	4950	0p5-CC-LC_BU				2.33	606.20	323.31	327.28		327.61	0.002374	2.57	271.12	340.15	0.54	96.92
Reach 1	4694	5_BU				1.61	320.00	322.84	326.02		326.17	0.001753	1.73	191.54	371.95	0.44	99.55
Reach 1	4694	1_BU				1.89	403.00	322.84	326.30		326.47	0.001612	1.84	230.30	393.36	0.43	99.03
Reach 1	4694	0p5_BU				1.98	433.00	322.84	326.40		326.58	0.001574	1.88	243.58	397.53	0.43	98.85
Reach 1	4694	0p5-CC-LC_BU				2.48	606.20	322.84	326.90		327.11	0.001433	2.09	315.21	433.58	0.42	97.91
Reach 1	4150	5_BU				1.93	320.00	322.29	324.97		325.17	0.001922	1.99	160.79	187.71	0.46	100.00
Reach 1	4150	1_BU				2.15	403.00	322.29	325.20		325.46	0.002150	2.24	180.21	208.64	0.49	100.00
Reach 1	4150	0p5_BU				2.23	433.00	322.29	325.28		325.55	0.002239	2.32	186.43	221.04	0.50	100.00
Reach 1	4150	0p5-CC-LC_BU				2.59	606.20	322.29	325.65		326.05	0.002716	2.78	218.13	251.44	0.55	99.99
Reach 1	3843	5_BU				1.08	320.00	322.07	323.61	323.54	324.05	0.008683	2.95	108.45	175.59	0.91	100.00
Reach 1	3843	1_BU				1.29	403.00	322.07	323.84	323.71	324.32	0.007441	3.07	131.42	179.92	0.86	100.00
Reach 1	3843	0p5_BU				1.37	433.00	322.07	323.92		324.41	0.006974	3.09	140.13	181.35	0.84	99.99
Reach 1	3843	0p5-CC-LC_BU				1.82	606.20	322.07	324.41		324.93	0.005028	3.17	191.67	190.38	0.75	99.88
Reach 1	3700	5_BU				1.43	320.00	320.95	323.51		323.60	0.001117	1.28	250.48	236.57	0.34	100.00
Reach 1	3700	1_BU				1.73	403.00	320.95	323.81		323.90	0.000943	1.33	302.94	251.63	0.32	100.00
Reach 1	3700	0p5_BU				1.83	433.00	320.95	323.92		324.01	0.000895	1.35	321.25	260.23	0.32	100.00
Reach 1	3700	0p5-CC-LC_BU				2.40	606.20	320.95	324.48		324.59	0.000721	1.45	420.26	288.09	0.30	99.95
Reach 1	3600	5_BU				1.60	320.00	320.47	323.08		323.39	0.003779	2.49	138.75	171.33	0.63	98.27
Reach 1	3600	1_BU				1.90	403.00	320.47	323.38		323.72	0.003346	2.62	168.55	179.59	0.61	97.56
Reach 1	3600	0p5_BU				2.00	433.00	320.47	323.48		323.83	0.003239	2.67	178.79	182.01	0.60	97.37
Reach 1	3600	0p5-CC-LC_BU				2.53	606.20	320.47	324.01		324.43	0.002842	2.93	233.97	199.34	0.59	96.31
Reach 1	3500	5_BU				2.02	320.00	320.12	322.84		323.08	0.002241	2.18	149.01	144.00	0.49	99.80
Reach 1	3500	1_BU				2.32	403.00	320.12	323.15		323.43	0.002216	2.37	173.88	151.87	0.50	99.59
Reach 1	3500	0p5_BU				2.42	433.00	320.12	323.25		323.55	0.002210	2.44	182.62	155.28	0.50	99.49
Reach 1	3500	0p5-CC-LC_BU				2.95	606.20	320.12	323.78		324.17	0.002188	2.77	237.82	215.92	0.52	98.61
Reach 1	3450	5_BU				1.96	320.00	319.97	322.62		322.94	0.003189	2.55	140.03	170.62	0.58	96.55
Reach 1	3450	1_BU				2.24	403.00	319.97	322.94		323.30	0.003111	2.70	170.26	196.02	0.58	94.74
Reach 1	3450	0p5_BU				2.34	433.00	319.97	323.05		323.41	0.003095	2.75	180.66	205.57	0.58	94.17
Reach 1	3450	0p5-CC-LC_BU				2.87	606.20	319.97	323.60		324.04	0.002903	3.04	240.27	255.50	0.57	91.90
Reach 1	3400	5_BU				1.86	320.00	319.80	322.38		322.76	0.003795	2.75	116.90	78.31	0.64	99.97
Reach 1	3400	1_BU				2.10	403.00	319.80	322.65		323.11	0.003970	3.00	135.61	84.04	0.66	99.82
Reach 1	3400	0p5_BU				2.19	433.00	319.80	322.74		323.23	0.003983	3.09	142.01	85.47	0.67	99.75
Reach 1	3400	0p5-CC-LC_BU				2.67	606.20	319.80	323.22		323.85	0.003994	3.53	177.99	100.85	0.69	99.23
Reach 1	3350	5_BU				1.88	320.00	319.64	322.25		322.57	0.003199	2.53	128.75	92.65	0.59	99.49
Reach 1	3350	1_BU				2.14	403.00	319.64	322.52		322.91	0.003298	2.77	148.61	96.70	0.61	99.39
Reach 1	3350	0p5_BU				2.23	433.00	319.64	322.61		323.03	0.003325	2.85	155.59	97.68	0.61	99.30
Reach 1	3350	0p5-CC-LC_BU				2.69	606.20	319.64	323.11		323.64	0.003421	3.25	193.88	107.25	0.63	98.79
Reach 1	3300	5_BU				1.74	320.00	319.48	321.96		322.38	0.004342	2.87	121.38	98.84	0.70	98.22
Reach 1	3300	1_BU				1.98	403.00	319.48	322.24		322.72	0.004236	3.09	145.48	104.84	0.70	97.46
Reach 1	3300	0p5_BU				2.06	433.00	319.48	322.34		322.83	0.004198	3.16	154.07	107.06	0.70	97.22
Reach 1	3300	0p5-CC-LC_BU				2.55	606.20	319.48	322.86		323.45	0.003851	3.48	203.86	121.37	0.70	96.06
Reach 1	3275	5_BU				1.47	320.00	319.45	321.68	321.54	322.23	0.007153	3.29	97.17	147.83	0.87	100.00
Reach 1	3275	1_BU				1.71	403.00	319.45	321.95	321.77	322.57	0.007017	3.49	115.43	155.14	0.85	100.00
Reach 1	3275	0p5_BU				1.79	433.00	319.45	322.04		322.69	0.006939	3.56	121.71	157.82	0.85	100.00
Reach 1	3275	0p5-CC-LC_BU				2.26	606.20	319.45	322.56		323.32	0.006449	3.85	157.41	167.42	0.82	100.00
Reach 1	3250	5_BU				1.54	320.00	319.30	321.58		322.12	0.002874	3.24	98.77	123.23	0.83	100.00
Reach 1	3250	1_BU				1.79	403.00	319.30	321.85		322.46	0.002706	3.46	116.38	141.36	0.83	100.00
Reach 1	3250	0p5_BU				1.87	433.00	319.30	321.95		322.58	0.002659	3.54	122.43	144.71	0.83	100.00
Reach 1	3250	0p5-CC-LC_BU				2.34	606.20	319.30	322.45		323.22	0.002410	3.90	155.49	151.00	0.81	100.00
Reach 1	3150	5_BU				1.97	320.00	318.88	321.59		321.87	0.001096	2.35	136.08	104.96	0.54	100.00
Reach 1	3150	1_BU				2.21	403.00	318.88	321.87		322.21	0.001131	2.58	156.06	108.66	0.55	100.00
Reach 1	3150	0p5_BU				2.30	433.00	318.88	321.97		322.33	0.001140	2.66	162.96	109.94	0.56	100.00
Reach 1	3150	0p5-CC-LC_BU				2.83	606.20	318.88	322.50		322.97	0.001114	3.02	201.41	119.42	0.57	99.91
Reach 1	3037	5_BU				2.40	320.00	318.40	321.50		321.76	0.000852	2.26	144.36	81.27	0.46	99.56
Reach 1	3037	1_BU				2.67	403.00	318.40	321.77		322.09	0.000955	2.55	162.16	88.18	0.50	99.24
Reach 1	3037	0p5_BU				2.77	433.00	318.40	321.86		322.21	0.000987	2.64	168.33	91.25	0.51	99.12
Reach 1	3037	0p5-CC-LC_BU				3.26	606.20	318.40	322.35		322.84	0.001122	3.12	202.41	104.55	0.55	98.41
Reach 1	2965	5_BU				2.44	320.00	318.25	321.43	320.38	321.70	0.000798	2.27	141.01	57.82	0.46	100.00
Reach 1	2965	1_BU				2.66	403.00	318.25	321.68	320.65	322.02	0.000965	2.59	155.47	58.53	0.51	100.00
Reach 1	2965	0p5_BU				2.74	433.00	318.25	321.77	320.75	322.14	0.001019	2.70	160.40	58.76	0.52	100.00
Reach 1	2965	0p5-CC-LC_BU				3.18	606.20	318.25	322.21	321.21	322.75	0.001215	3.25	186.98	61.92	0.58	99.98
Reach 1	2946		Bridge														
Reach 1	2919	5_BU				3.35	320.00	317.23	321.47		321.60	0.000212	1.60	200.61	61.77	0.28	99.93
Reach 1	2919	1_BU				3.61	403.00	317.23	321.73		321.90	0.000263	1.87	216.55	62.76	0.31	99.86
Reach 1	2919	0p5_BU				3.70	433.00	317.23	321.81		322.01	0.000280	1.96	222.00	63.13	0.33	99.82
Reach 1	2919	0p5-CC-LC_BU				4.16	606.20	317.23	322.28		322.58	0.000368	2.43	251.87	65.06	0.38	99.56
Reach 1	2850	5_BU				2.57	320.00	318.15	321.36		321.56	0.000543	1.96	163.05	63.56	0.39	100.00
Reach 1	2850	1_BU				2.79	403.00	318.15	321.59		321.85	0.000651	2.27	177.64	64.72	0.43	99.99
Reach 1	2850	0p5_BU				2.86	433.00	318.15	321.66		321.95	0.000687	2.37	182.57	64.87	0.45	99.98
Reach 1	2850	0p5-CC-LC_BU				3.27	606.20	318.15	322.07		322.50	0.000865	2.91	209.02	67.68	0.51	99.90
Reach 1	2800	5_BU				2.23	320.00	317.92	321.34		321.53	0.000642	1.95	186.71	110.81	0.42	97.48
Reach 1	2800	1_BU				2.40	403.00	317.92	321.57		321.81	0.000725	2.20	213.00	114.44	0.45	96.61
Reach 1	2800	0p5_BU				2.47	433.00	317.92	321.65		321.91	0.000751	2.28	222.19	117.36	0.46	96.36
Reach 1	2800	0p5-CC-LC_BU				2.85	606.20	317.92	322.08		322.43	0.000843	2.68	277.17	137.53	0.51	95.16
Reach 1	2770	5_BU				2.07	320.00	317.84	321.29		321.50	0.000792	2.06	165.40	97.03	0.46	98.99
Reach 1	2770	1_BU				2.25	403.00	317.84	321.51		321.78	0.000907	2.33	187.13	99.11	0.50	98.47
Reach 1	2770	0p5_BU				2.32	433.00	317.84	321.58		321.88	0.000940	2.42	194.59	101.02	0.51	98.30
Reach 1	2770	0p5-CC-LC_BU				2.63	606.20	317.84	322.00		322.40	0.001076	2.83	238.00	117.28	0.56	97.44
Reach 1	2750	5_BU				1.91	320.00	318.03	321.25		321.48	0.000939	2.13	150.03	78.47	0.49	100.00
Reach 1	2750	1_BU				2.09	403.00	318.03	321.46		321.76	0.001073	2.42	166.68	79.72	0.53	100.00
Reach 1	2750	0p5_BU				2.15	433.00	318.03	321.53		321.85	0.001114	2.51	172.32	80.00	0.55	100.00
Reach 1	2750	0p5-CC-LC_BU				2.49	606.20	318.03	321.92		322.37	0.001287	2.98	203.85	86.28	0.60	99.99
Reach 1	2700	5_BU				1.68	320.00	318.39	321.21		321.43	0.001072	2.10	152.62	90.75	0.52	100.00
Reach 1	2700	1_BU				1.87	403.00	318.39	321.42		321.70	0.001161	2.34	171.97	92.86	0.55	100.00
Reach 1	2700	0p5_BU				1.94	433.00	318.39	321.49		321.79	0.001186	2.42	178.60	94.20	0.56	100.00

HEC-RAS Plan: KR_Jam_30950 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	2700	0p5-CC-LC_BU				2.34	606.20	318.39	321.89		322.29	0.001245	2.81	215.72	98.83	0.59	99.97
Reach 1	2666	5_BU				1.53	320.00	318.64	321.11		321.38	0.001479	2.31	138.40	90.37	0.60	100.00
Reach 1	2666	1_BU				1.72	403.00	318.64	321.31		321.65	0.001586	2.58	156.22	91.07	0.63	100.00
Reach 1	2666	0p5_BU				1.78	433.00	318.64	321.37		321.74	0.001618	2.67	162.30	91.28	0.64	100.00
Reach 1	2666	0p5-CC-LC_BU				2.14	606.20	318.64	321.76		322.24	0.001679	3.07	197.36	93.08	0.67	100.00
Reach 1	2650	5_BU				1.53	320.00	318.67	321.06		321.36	0.001610	2.41	133.00	94.44	0.62	99.94
Reach 1	2650	1_BU				1.71	403.00	318.67	321.24		321.62	0.001756	2.71	149.44	98.47	0.66	99.81
Reach 1	2650	0p5_BU				1.77	433.00	318.67	321.30		321.71	0.001799	2.81	155.04	99.35	0.67	99.76
Reach 1	2650	0p5-CC-LC_BU				2.13	606.20	318.67	321.66		322.20	0.001892	3.26	187.85	104.90	0.71	99.39
Reach 1	2600	5_BU				1.42	320.00	318.85	321.00		321.27	0.001619	2.31	138.88	129.85	0.62	99.97
Reach 1	2600	1_BU				1.60	403.00	318.85	321.18		321.52	0.001715	2.57	157.21	135.19	0.65	99.92
Reach 1	2600	0p5_BU				1.66	433.00	318.85	321.24		321.60	0.001742	2.65	163.50	136.29	0.66	99.90
Reach 1	2600	0p5-CC-LC_BU				2.04	606.20	318.85	321.62		322.09	0.001716	3.02	201.47	155.84	0.68	99.78
Reach 1	2563	5_BU				1.29	320.00	319.01	320.89		321.20	0.002065	2.44	131.10	102.05	0.69	100.00
Reach 1	2563	1_BU				1.46	403.00	319.01	321.07		321.44	0.002151	2.70	149.22	118.27	0.71	100.00
Reach 1	2563	0p5_BU				1.52	433.00	319.01	321.13		321.53	0.002172	2.78	155.52	122.83	0.72	100.00
Reach 1	2563	0p5-CC-LC_BU				1.91	606.20	319.01	321.54		322.02	0.001948	3.07	197.28	139.18	0.71	99.99
Reach 1	2550	5_BU				1.31	320.00	318.95	320.87		321.17	0.002010	2.43	131.47	127.32	0.68	100.00
Reach 1	2550	1_BU				1.48	403.00	318.95	321.04		321.42	0.002101	2.70	149.12	138.36	0.71	99.99
Reach 1	2550	0p5_BU				1.54	433.00	318.95	321.10		321.50	0.002126	2.79	155.19	142.01	0.72	99.98
Reach 1	2550	0p5-CC-LC_BU				1.95	606.20	318.95	321.51		321.99	0.001914	3.09	196.56	167.31	0.71	99.85
Reach 1	2500	5_BU				1.32	320.00	318.86	320.77		321.07	0.001957	2.42	133.30	104.85	0.67	99.32
Reach 1	2500	1_BU				1.49	403.00	318.86	320.94		321.31	0.002062	2.69	151.14	107.71	0.70	99.03
Reach 1	2500	0p5_BU				1.55	433.00	318.86	321.00		321.39	0.002088	2.78	157.34	109.91	0.71	98.94
Reach 1	2500	0p5-CC-LC_BU				1.98	606.20	318.86	321.43		321.89	0.001792	3.03	202.81	149.69	0.69	98.32
Reach 1	2464	5_BU				1.24	328.00	318.82	320.67		320.99	0.002313	2.51	130.68	110.84	0.72	100.00
Reach 1	2464	1_BU				1.37	413.80	318.82	320.81		321.22	0.002572	2.84	145.77	116.59	0.77	99.99
Reach 1	2464	0p5_BU				1.42	445.00	318.82	320.86		321.30	0.002671	2.96	150.64	116.89	0.79	99.98
Reach 1	2464	0p5-CC-LC_BU				1.89	623.00	318.82	321.34		321.82	0.001970	3.07	203.43	135.25	0.71	99.87
Reach 1	2400	5_BU				1.14	328.00	318.95	320.55		320.83	0.002306	2.33	141.19	126.37	0.70	99.99
Reach 1	2400	1_BU				1.27	413.80	318.95	320.69		321.04	0.002575	2.62	158.57	128.45	0.74	99.94
Reach 1	2400	0p5_BU				1.31	445.00	318.95	320.73		321.11	0.002682	2.72	164.09	129.28	0.76	99.93
Reach 1	2400	0p5-CC-LC_BU				1.91	623.00	318.95	321.33		321.67	0.001575	2.60	254.36	196.55	0.60	99.07
Reach 1	2369	5_BU				0.89	328.00	318.74	320.39	320.30	320.73	0.004225	2.59	127.60	151.30	0.88	99.93
Reach 1	2369	1_BU				1.07	413.80	318.74	320.57	320.45	320.94	0.003674	2.70	155.79	154.57	0.83	99.74
Reach 1	2369	0p5_BU				1.12	445.00	318.74	320.62	320.50	321.01	0.003663	2.77	163.62	155.96	0.84	99.68
Reach 1	2369	0p5-CC-LC_BU				1.83	623.00	318.74	321.33		321.60	0.001444	2.35	288.26	232.45	0.55	98.29
Reach 1	2350	5_BU				1.05	328.00	318.43	320.41		320.64	0.002315	2.13	160.16	160.38	0.66	98.83
Reach 1	2350	1_BU				1.14	413.80	318.43	320.60		320.85	0.002258	2.25	192.84	177.23	0.67	98.50
Reach 1	2350	0p5_BU				1.20	445.00	318.43	320.65		320.92	0.002244	2.30	202.65	177.99	0.67	98.42
Reach 1	2350	0p5-CC-LC_BU				1.90	623.00	318.43	321.36		321.56	0.000959	1.99	353.43	293.10	0.46	96.83
Reach 1	2300	5_BU				1.07	328.00	317.71	320.35		320.51	0.001803	1.78	190.75	187.27	0.55	98.75
Reach 1	2300	1_BU				1.27	413.80	317.71	320.56		320.74	0.001575	1.88	229.25	189.69	0.53	98.52
Reach 1	2300	0p5_BU				1.32	445.00	317.71	320.61		320.80	0.001565	1.94	240.20	190.41	0.54	98.46
Reach 1	2300	0p5-CC-LC_BU				2.06	623.00	317.71	321.36		321.50	0.000662	1.71	414.82	331.33	0.38	97.12
Reach 1	2254	5_BU				1.04	328.00	317.67	319.85	319.85	320.34	0.006168	3.11	109.28	153.24	0.98	99.31
Reach 1	2254	1_BU				1.09	413.80	317.67	320.05	320.05	320.57	0.006361	3.23	134.33	170.39	0.99	98.65
Reach 1	2254	0p5_BU				1.16	445.00	317.67	320.19	320.11	320.65	0.005326	3.06	153.80	180.77	0.91	98.20
Reach 1	2254	0p5-CC-LC_BU				1.90	623.00	317.67	321.30		321.46	0.000982	1.87	416.87	429.81	0.43	93.75
Reach 1	2200	5_BU				0.98	328.00	317.45	319.53	319.54	320.04	0.004941	3.16	103.90	107.93	1.02	99.98
Reach 1	2200	1_BU				1.19	413.80	317.45	319.79	319.72	320.29	0.003839	3.14	132.83	114.78	0.92	99.89
Reach 1	2200	0p5_BU				1.42	445.00	317.45	320.06		320.44	0.002362	2.74	164.60	137.26	0.74	99.78
Reach 1	2200	0p5-CC-LC_BU				1.90	623.00	317.45	321.28		321.41	0.000590	1.64	485.88	444.60	0.38	93.84
Reach 1	2168	5_BU				0.81	328.00	317.62	319.29	319.38	319.85	0.007107	3.32	99.35	130.50	1.18	99.92
Reach 1	2168	1_BU				1.28	413.80	317.62	319.84		320.14	0.002056	2.42	174.00	160.21	0.68	99.56
Reach 1	2168	0p5_BU				1.47	445.00	317.62	320.11		320.34	0.001340	2.14	216.35	200.89	0.56	99.04
Reach 1	2168	0p5-CC-LC_BU				1.95	623.00	317.62	321.30		321.38	0.000323	1.27	622.21	489.61	0.29	91.69
Reach 1	2054	5_BU				1.17	328.00	317.47	319.42	318.95	319.54	0.000992	1.58	215.17	209.07	0.47	93.24
Reach 1	2054	1_BU				1.60	413.80	317.47	319.89		319.98	0.000491	1.37	322.08	246.15	0.35	90.06
Reach 1	2054	0p5_BU				1.83	445.00	317.47	320.15		320.23	0.000330	1.23	389.00	264.65	0.29	87.60
Reach 1	2054	0p5-CC-LC_BU				2.53	623.00	317.47	321.32		321.35	0.000103	0.85	813.50	414.77	0.17	77.51
Reach 1	1884	5_BU				1.76	328.00	315.75	319.08		319.34	0.001167	2.25	148.18	94.59	0.54	99.08
Reach 1	1884	1_BU				2.40	413.80	315.75	319.72		319.89	0.000540	1.88	260.50	212.16	0.39	89.42
Reach 1	1884	0p5_BU				2.72	445.00	315.75	320.05		320.17	0.000356	1.66	333.78	253.74	0.32	83.28
Reach 1	1884	0p5-CC-LC_BU				3.96	623.00	315.75	321.28		321.33	0.000105	1.16	740.48	366.60	0.19	60.50
Reach 1	1760	5_BU				2.29	328.00	315.68	318.93		319.21	0.000959	2.42	151.26	122.64	0.51	94.78
Reach 1	1760	1_BU				2.92	413.80	315.68	319.68		319.83	0.000421	1.88	284.81	212.77	0.35	78.47
Reach 1	1760	0p5_BU				3.26	445.00	315.68	320.02		320.13	0.000278	1.64	362.94	245.81	0.29	71.14
Reach 1	1760	0p5-CC-LC_BU				4.50	623.00	315.68	321.27		321.32	0.000104	1.25	682.98	271.53	0.19	53.45
Reach 1	1639	5_BU				2.24	328.00	314.98	318.93	317.49	319.09	0.000545	1.79	186.85	121.18	0.38	99.54
Reach 1	1639	1_BU				2.96	413.80	314.98	319.65	317.99	319.78	0.000326	1.67	269.30	147.29	0.31	97.18
Reach 1	1639	0p5_BU				3.28	445.00	314.98	319.97	318.08	320.10	0.000258	1.59	313.41	166.63	0.28	95.72
Reach 1	1639	0p5-CC-LC_BU				4.51	623.00	314.98	321.20	318.49	321.30	0.000154	1.52	490.86	219.49	0.23	89.66
Reach 1	1548	5_BU				2.66	328.00	314.79	318.87	317.38	319.04	0.000464	1.85	177.21	83.95	0.36	100.00
Reach 1	1548	1_BU				3.29	413.80	314.79	319.58	317.65	319.75	0.000347	1.84	225.25	98.13	0.32	99.99
Reach 1	1548	0p5_BU				3.61	445.00	314.79	319.90	317.77	320.07	0.000293	1.80	247.96	105.87	0.30	99.95
Reach 1	1548	0p5-CC-LC_BU				4.81	623.00	314.79	321.10	318.24	321.28	0.000218	1.88	338.07	175.40	0.27	99.30
Reach 1	1460	5_BU				2.02	328.00	316.31	318.84	317.89	318.99	0.000559	1.70	213.79	178.90	0.38	96.38
Reach 1	1460	1_BU				2.77	413.80	316.31	319.59	318.08	319.70	0.000289	1.51	322.14	248.68	0.29	93.03
Reach 1	1460	0p5_BU				3.11	445.00	316.31	319.93	318.15	320.02	0.000218	1.42	376.16	266.33	0.26	90.90
Reach 1	1460	0p5-CC-LC_BU				4.33	623.00	316.31	321.16	318.49	321.24	0.000120	1.31	591.46	313.61	0.20	83.90
Reach 1	1371	5_BU				1.85	328.00	315.74	318.81	317.86	318.91	0.000970	1.45	253.27	172.05	0.34	92.50
Reach 1	1371	1_BU				2.63	413.80	315.74	319.59	318.02	319.66	0.000446	1.22	407.50	220.75	0.24	87.72
Reach 1	1371	0p5_BU				2.97	445.00	315.74	319.93	318.08	319.99	0.000319	1.11	483.76	231.38	0.21	84.10
Reach 1	1371	0p5-CC-LC_BU				4.21	623.00	315.74	321.17	318.38	321.21	0.000156	0.97	785.64	341.16	0.15	74.18
Reach 1	1226	5_BU				2.20	328.00	315.18	318.65	317.48	318.77	0.000940	1.58	224.47	124.53	0.34	96.91
Reach 1	1226	1_BU				3.06	413.80	315.18	319.50	317.71	319.59	0.000475	1.37	381.73	218.03	0.25	92.52
Reach 1	1226	0p5_BU				3.42	445.00	315.18	319.86	317.78	319.94	0.000353	1.27	463.56	228.92	0.22	89.01
Reach 1	1226	0p5-CC-LC_BU				4.69	623.00	315.18	321.13	318.14	321.18	0.000193	1.14	770.17	329.62	0.17	78.60
Reach 1	1171	5_BU				2.44	328.00	314.92	318.63	317.20	318.72	0.000593	1.34	302.91	192.44	0.27	92.28
Reach 1	1171	1_BU				3.31	413.80	314.92	319.50	317.44	319.56	0.000296	1.14	501.93	271.23	0.20	84.71
Reach 1	1171	0p5_BU				3.67	445.00	314.92	319.86	317.51	319.91	0.000231	1.08	601.45	278.50	0.18	82.42
Reach 1	1171	0p5-CC-LC_BU				4.94	623.00	314.92	321.13	317.89	321.17	0.000126	0.96	1001.73	369.12	0.14	70.90
Reach 1	1060	5_BU				2.97	328.00	314.65	318.60	316.72	318.66	0.000356	1.17	348.30	210.07	0.22	93.21
Reach 1	1060	1_BU				3.85	413.80	314.65	319.48	316.92	319.53	0.000197	1.04	572.12	330.75	0.17	85.08
Reach 1	1060	0p5_BU				4.22	445.00	314.65	319.85	316.99	319.89	0.000154	0.97	696.52	341.21	0.15	81.43
Reach 1	1060	0p5-CC-LC_BU				5.50	623.00	314.65	321.12	317.35	321.16	0.000093	0.90	1135.77	347.36	0.12	70.10

HEC-RAS Plan: KR_Jam_30950 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	964	5_BU				2.76	328.00	314.83	318.59	316.49	318.63	0.000229	0.89	445.60	284.73	0.17	94.36
Reach 1	964	1_BU				3.66	413.80	314.83	319.48	316.71	319.51	0.000121	0.78	719.47	317.08	0.13	86.67
Reach 1	964	0p5_BU				4.03	445.00	314.83	319.85	316.78	319.87	0.000095	0.74	837.53	326.13	0.12	83.84
Reach 1	964	0p5-CC-LC_BU				5.30	623.00	314.83	321.12	317.15	321.15	0.000062	0.72	1266.49	375.70	0.10	76.63
Reach 1	856	5_BU				2.74	328.00	314.15	318.58	316.32	318.60	0.000164	0.75	563.50	317.43	0.14	86.98
Reach 1	856	1_BU				3.65	413.80	314.15	319.48	316.51	319.50	0.000088	0.66	865.55	387.73	0.11	81.32
Reach 1	856	0p5_BU				4.01	445.00	314.15	319.85	316.58	319.86	0.000070	0.63	993.31	392.91	0.10	78.84
Reach 1	856	0p5-CC-LC_BU				5.29	623.00	314.15	321.12	316.90	321.14	0.000046	0.62	1443.68	438.41	0.09	72.84
Reach 1	746	5_BU				3.12	328.00	313.89	318.57	316.13	318.59	0.000082	0.58	716.97	434.89	0.10	92.69
Reach 1	746	1_BU				4.02	413.80	313.89	319.48	316.27	319.49	0.000046	0.51	1118.86	566.57	0.08	84.21
Reach 1	746	0p5_BU				4.39	445.00	313.89	319.85	316.31	319.86	0.000037	0.49	1288.74	601.50	0.07	81.46
Reach 1	746	0p5-CC-LC_BU				5.67	623.00	313.89	321.12	316.55	321.13	0.000026	0.48	1892.63	664.17	0.06	74.24
Reach 1	638	5_BU				3.16	328.00	313.68	318.57	315.88	318.58	0.000060	0.50	773.57	484.53	0.09	95.79
Reach 1	638	1_BU				4.07	413.80	313.68	319.47	316.05	319.48	0.000035	0.45	1245.00	705.98	0.07	88.42
Reach 1	638	0p5_BU				4.44	445.00	313.68	319.84	316.11	319.85	0.000028	0.43	1450.27	759.64	0.07	85.75
Reach 1	638	0p5-CC-LC_BU				5.72	623.00	313.68	321.12	316.40	321.13	0.000019	0.42	2180.02	873.57	0.06	77.42

HEC-RAS Plan: KR_Jam_46050 River: Klondike River Reach: Reach 1

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	58149	5_BU				0.60	211.80	457.19	459.11	458.78	459.18	0.003960	1.28	176.98	311.40	0.53	69.92
Reach 1	58149	1_BU				0.62	258.70	457.19	459.21	458.88	459.29	0.003968	1.31	209.35	358.41	0.53	68.61
Reach 1	58149	0p5_BU				0.63	274.10	457.19	459.23	458.92	459.31	0.003967	1.34	218.21	365.59	0.54	68.59
Reach 1	58149	0p5-CC-LC_BU				0.78	383.70	457.19	459.40	459.08	459.50	0.003748	1.50	283.35	422.35	0.54	69.68
Reach 1	57145	5_BU				1.56	211.80	454.28	457.10		457.15	0.001219	1.40	307.38	553.20	0.36	51.15
Reach 1	57145	1_BU				1.67	258.70	454.28	457.21		457.26	0.001207	1.46	371.49	616.50	0.36	46.72
Reach 1	57145	0p5_BU				1.70	274.10	454.28	457.24		457.30	0.001201	1.48	392.42	637.56	0.36	45.45
Reach 1	57145	0p5-CC-LC_BU				1.89	383.70	454.28	457.43	456.97	457.49	0.001229	1.60	523.14	758.51	0.37	39.14
Reach 1	56479	5_BU				1.05	240.10	453.12	455.47	455.09	455.51	0.005101	1.12	306.13	656.22	0.35	32.50
Reach 1	56479	1_BU				1.11	296.00	453.12	455.54	455.20	455.58	0.005627	1.22	349.22	708.62	0.37	30.50
Reach 1	56479	0p5_BU				1.13	314.90	453.12	455.55	455.23	455.60	0.005788	1.26	362.46	723.99	0.38	29.88
Reach 1	56479	0p5-CC-LC_BU				1.25	440.90	453.12	455.68	455.34	455.74	0.006242	1.40	463.40	836.79	0.40	26.46
Reach 1	56103	5_BU				1.35	240.10	452.81	454.88	454.59	454.92	0.001233	1.30	480.43	1110.99	0.36	43.21
Reach 1	56103	1_BU				1.48	296.00	452.81	455.00	454.65	455.04	0.001075	1.28	619.04	1250.15	0.34	37.86
Reach 1	56103	0p5_BU				1.51	314.90	452.81	455.04	454.68	455.07	0.001035	1.28	660.65	1276.27	0.33	36.31
Reach 1	56103	0p5-CC-LC_BU				1.72	440.90	452.81	455.25	454.80	455.28	0.000857	1.27	929.03	1384.61	0.31	29.36
Reach 1	54315	5_BU				1.45	240.10	449.60	451.73	451.23	451.91	0.002405	2.04	149.24	151.29	0.54	82.29
Reach 1	54315	1_BU				1.56	296.00	449.60	451.85	451.42	452.08	0.002828	2.28	169.94	189.14	0.58	80.99
Reach 1	54315	0p5_BU				1.60	314.90	449.60	451.89	451.48	452.13	0.002970	2.36	177.13	201.14	0.60	80.66
Reach 1	54315	0p5-CC-LC_BU				1.79	440.90	449.60	452.08	451.78	452.41	0.003875	2.83	223.56	333.53	0.68	77.50
Reach 1	53429	5_BU				1.05	240.10	446.75	449.04	448.76	449.17	0.004087	1.81	160.79	290.59	0.56	64.39
Reach 1	53429	1_BU				1.23	296.00	446.75	449.22	448.87	449.34	0.003287	1.78	219.19	358.12	0.51	60.40
Reach 1	53429	0p5_BU				1.28	314.90	446.75	449.27	448.91	449.39	0.003094	1.78	239.73	373.58	0.50	59.14
Reach 1	53429	0p5-CC-LC_BU				1.57	440.90	446.75	449.61	449.12	449.71	0.002282	1.71	378.63	448.34	0.44	51.57
Reach 1	52840	5_BU				1.89	240.10	445.50	448.33		448.40	0.000706	1.22	225.51	161.57	0.28	91.14
Reach 1	52840	1_BU				2.09	296.00	445.50	448.53		448.61	0.000743	1.34	258.72	170.72	0.30	89.43
Reach 1	52840	0p5_BU				2.15	314.90	445.50	448.59		448.67	0.000755	1.38	269.27	175.04	0.30	88.94
Reach 1	52840	0p5-CC-LC_BU				2.49	440.90	445.50	448.93		449.05	0.000850	1.61	332.21	197.46	0.33	86.24
Reach 1	52279	5_BU				1.55	240.10	445.07	447.57		447.74	0.002219	1.90	140.01	174.63	0.49	97.07
Reach 1	52279	1_BU				1.71	296.00	445.07	447.73		447.93	0.002266	2.05	171.53	236.34	0.50	93.97
Reach 1	52279	0p5_BU				1.76	314.90	445.07	447.78		447.99	0.002285	2.10	182.24	249.62	0.50	92.93
Reach 1	52279	0p5-CC-LC_BU				2.03	440.90	445.07	448.05		448.29	0.002398	2.36	259.18	435.16	0.53	86.14
Reach 1	50899	5_BU				1.15	290.80	441.51	444.17		444.28	0.002637	1.69	262.99	378.00	0.50	75.78
Reach 1	50899	1_BU				1.25	363.60	441.51	444.31		444.43	0.002606	1.77	317.75	413.08	0.51	71.67
Reach 1	50899	0p5_BU				1.29	389.40	441.51	444.35		444.47	0.002583	1.81	336.55	423.57	0.51	70.54
Reach 1	50899	0p5-CC-LC_BU				1.50	545.10	441.51	444.60		444.73	0.002497	1.97	452.29	539.39	0.51	65.49
Reach 1	50334	5_BU				1.02	290.80	440.40	442.61		442.73	0.002914	1.65	216.07	310.43	0.52	89.27
Reach 1	50334	1_BU				1.14	363.60	440.40	442.73		442.88	0.002951	1.79	257.36	333.37	0.53	87.44
Reach 1	50334	0p5_BU				1.18	389.40	440.40	442.77		442.93	0.002978	1.84	271.27	347.23	0.54	86.94
Reach 1	50334	0p5-CC-LC_BU				1.41	545.10	440.40	443.00		443.19	0.003073	2.10	356.59	431.66	0.56	84.15
Reach 1	49973	5_BU				0.95	290.80	439.55	441.75	441.29	441.84	0.002227	1.37	233.64	298.17	0.45	92.65
Reach 1	49973	1_BU				1.06	363.60	439.55	441.89	441.47	441.99	0.002209	1.47	275.80	315.71	0.46	91.24
Reach 1	49973	0p5_BU				1.11	389.40	439.55	441.93	441.50	442.04	0.002190	1.51	289.93	320.11	0.46	90.82
Reach 1	49973	0p5-CC-LC_BU				1.35	545.10	439.55	442.17	441.67	442.30	0.002137	1.70	371.91	372.74	0.47	88.82
Reach 1	49383	5_BU				1.08	290.80	437.54	440.17		440.29	0.002869	1.69	199.86	221.20	0.52	73.70
Reach 1	49383	1_BU				1.22	363.60	437.54	440.35		440.48	0.002705	1.78	241.99	244.73	0.51	72.61
Reach 1	49383	0p5_BU				1.25	389.40	437.54	440.41		440.55	0.002670	1.80	257.14	255.52	0.51	72.07
Reach 1	49383	0p5-CC-LC_BU				1.47	545.10	437.54	440.73		440.88	0.002472	1.92	355.71	365.86	0.51	69.86
Reach 1	49175	5_BU				1.05	290.80	437.30	439.65		439.78	0.001866	1.56	187.05	181.07	0.48	99.97
Reach 1	49175	1_BU				1.14	363.60	437.30	439.86		439.99	0.001806	1.61	226.96	208.03	0.48	99.86
Reach 1	49175	0p5_BU				1.17	389.40	437.30	439.93		440.06	0.001805	1.63	240.57	220.73	0.48	99.82
Reach 1	49175	0p5-CC-LC_BU				1.45	545.10	437.30	440.27		440.42	0.001763	1.74	325.02	263.74	0.46	99.05
Reach 1	49000	5_BU				1.18	290.80	436.74	439.25		439.40	0.002557	1.69	178.31	167.37	0.50	97.95
Reach 1	49000	1_BU				1.28	363.60	436.74	439.48		439.63	0.002431	1.74	219.92	196.74	0.49	97.18
Reach 1	49000	0p5_BU				1.33	389.40	436.74	439.55		439.70	0.002352	1.77	233.74	201.69	0.49	96.85
Reach 1	49000	0p5-CC-LC_BU				1.67	545.10	436.74	439.92		440.09	0.001995	1.89	315.50	239.26	0.47	95.07
Reach 1	48700	5_BU				1.35	290.80	435.90	438.75		438.85	0.001302	1.42	205.92	172.63	0.39	99.96
Reach 1	48700	1_BU				1.58	363.60	435.90	438.98		439.10	0.001307	1.51	241.85	181.41	0.38	99.84
Reach 1	48700	0p5_BU				1.66	389.40	435.90	439.05		439.17	0.001312	1.55	253.64	187.13	0.38	99.78
Reach 1	48700	0p5-CC-LC_BU				2.05	545.10	435.90	439.45		439.60	0.001358	1.74	320.77	250.13	0.39	99.16
Reach 1	48530	5_BU				1.59	290.80	435.46	438.32	437.75	438.54	0.002623	2.08	150.78	142.74	0.53	98.37
Reach 1	48530	1_BU				1.79	363.60	435.46	438.52	437.93	438.77	0.002679	2.28	181.59	169.17	0.54	96.69
Reach 1	48530	0p5_BU				1.85	389.40	435.46	438.58	437.99	438.85	0.002690	2.34	192.92	179.79	0.55	96.01
Reach 1	48530	0p5-CC-LC_BU				2.22	545.10	435.46	438.95	438.40	439.27	0.002633	2.61	269.84	243.59	0.56	91.63
Reach 1	48400	5_BU				1.46	290.80	435.59	438.02		438.20	0.002405	1.95	173.42	185.45	0.52	95.62
Reach 1	48400	1_BU				1.67	363.60	435.59	438.23		438.43	0.002326	2.08	215.90	216.56	0.51	93.43
Reach 1	48400	0p5_BU				1.74	389.40	435.59	438.30		438.51	0.002281	2.11	231.80	223.92	0.51	92.47
Reach 1	48400	0p5-CC-LC_BU				2.15	545.10	435.59	438.71		438.94	0.001991	2.25	336.00	295.99	0.49	86.90
Reach 1	48250	5_BU				1.42	290.80	435.03	437.56		437.79	0.003074	2.12	147.24	148.11	0.57	98.46
Reach 1	48250	1_BU				1.70	363.60	435.03	437.83		438.06	0.002545	2.16	191.87	189.40	0.53	95.88
Reach 1	48250	0p5_BU				1.79	389.40	435.03	437.93		438.15	0.002400	2.17	210.14	209.28	0.52	94.84
Reach 1	48250	0p5-CC-LC_BU				2.29	545.10	435.03	438.43		438.65	0.001758	2.20	327.11	250.64	0.46	87.87
Reach 1	48100	5_BU				1.70	290.80	434.27	437.30		437.45	0.001556	1.73	167.73	98.95	0.43	100.00
Reach 1	48100	1_BU				1.93	363.60	434.27	437.59		437.76	0.001501	1.85	196.95	101.92	0.42	100.00
Reach 1	48100	0p5_BU				2.01	389.40	434.27	437.68		437.86	0.001482	1.88	206.68	102.63	0.42	100.00
Reach 1	48100	0p5-CC-LC_BU				2.45	545.10	434.27	438.19		438.41	0.001417	2.10	260.47	108.93	0.43	99.98
Reach 1	48010	5_BU				2.03	290.80	433.89	437.14		437.31	0.001484	1.84	158.40	78.04	0.41	100.00
Reach 1	48010	1_BU				2.22	363.60	433.89	437.41		437.62	0.001639	2.02	179.87	80.84	0.43	100.00
Reach 1	48010	0p5_BU				2.29	389.40	433.89	437.50		437.72	0.001685	2.08	187.03	81.59	0.44	100.00
Reach 1	48010	0p5-CC-LC_BU				2.72	545.10	433.89	437.96		438.26	0.001857	2.41	225.90	84.31	0.47	99.98
Reach 1	47901	5_BU				2.47	290.80	433.20	437.03		437.17	0.000946	1.69	172.50	71.29	0.34	99.95
Reach 1	47901	1_BU				2.72	363.60	433.20	437.28		437.47	0.001072	1.92	190.42	72.17	0.37	99.88
Reach 1	47901	0p5_BU				2.80	389.40	433.20	437.36		437.56	0.001113	1.99	196.32	72.46	0.38	99.85
Reach 1	47901	0p5-CC-LC_BU				3.24	545.10	433.20	437.79		438.09	0.001345	2.41	228.05	73.98	0.43	99.63
Reach 1	47790	5_BU				2.36	290.80	433.56	436.96		437.06	0.000827	1.44	201.52	85.51	0.30	100.00
Reach 1	47790	1_BU				2.56	363.60	433.56	437.20		437.34	0.000962	1.63	222.54	86.85	0.33	100.00
Reach 1	47790	0p5_BU				2.63	389.40	433.56	437.28		437.43	0.001005	1.70	229.50	87.13	0.33	100.00
Reach 1	47790	0p5-CC-LC_BU				3.03	545.10	433.56	437.71		437.92	0.001221	2.04	267.24	89.24	0.37	99.99
Reach 1	47700	5_BU				2.12	290.80	433.03	436.86	435.48	436.98	0.000916	1.55	187.09	88.13	0.34	100.00
Reach 1	47700	1_BU				2.32	363.60	433.03	437.09	435.72	437.25	0.001042	1.75	207.29	89.29	0.37	100.00
Reach 1	47700	0p5_BU				2.39	389.40	433.03	437.16	435.81	437.33	0.001083	1.82	213.97	89.53	0.38	100.00
Reach 1	47700	0p5-CC-LC_BU				2.72	545.10	433.03	437.56	436.23	437.81	0.001320	2.18	250.17	91.95	0.42	100.00
Reach 1	47550	5_BU				1.81	290.80	433.60	436.72	435.62	436.84	0.001060	1.53	190.43	105.33	0.36	100.00
Reach 1	47550	1_BU				2.01	363.60	433.60	436.93	435.82	437.08	0.001182	1.71	213.90	113.19	0.38	99.96
Reach 1	47550	0p5_BU				2.08	389.40	433.60	437.00	435.88	437.16	0.001217	1.77	221.87	114.68	0.39	99.92
Reach 1	47550	0p5-CC-LC_BU				2.45	545.10	433.60	437.37	436.23	437.59	0.001407	2.09	267.61	129.06	0.43	99.59
Reach 1	47390	5_BU				2.12	290.80	434.08	436.62		436.70	0.000593	1.20	244.95	127.65	0.26	99.87
Reach 1	47390	1_BU				2.31	363.60	434.08	436.82		436.92	0.000694	1.37	273.12	154.56	0.29	99.69

HEC-RAS Plan: KR_Jam_46050 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	47390	0p5_BU				2.38	389.40	434.08	436.89		436.99	0.000725	1.42	283.56	160.68	0.29	99.56
Reach 1	47390	0p5-CC-LC_BU				2.74	545.10	434.08	437.25		437.40	0.000883	1.71	349.34	194.96	0.33	98.31
Reach 1	47300	5_BU				2.08	290.80	433.73	436.56		436.63	0.000994	1.11	266.83	158.09	0.24	99.77
Reach 1	47300	1_BU				2.27	363.60	433.73	436.76		436.84	0.001148	1.26	300.49	195.12	0.27	99.22
Reach 1	47300	0p5_BU				2.34	389.40	433.73	436.82		436.91	0.001193	1.31	313.08	208.46	0.27	98.94
Reach 1	47300	0p5-CC-LC_BU				2.69	545.10	433.73	437.17		437.29	0.001392	1.55	390.68	253.45	0.30	96.41
Reach 1	47150	5_BU				2.62	290.80	433.25	436.49		436.54	0.000340	1.06	372.15	265.10	0.21	84.51
Reach 1	47150	1_BU				2.80	363.60	433.25	436.67		436.73	0.000411	1.22	419.43	296.97	0.23	82.93
Reach 1	47150	0p5_BU				2.86	389.40	433.25	436.73		436.80	0.000434	1.27	435.86	303.24	0.24	82.39
Reach 1	47150	0p5-CC-LC_BU				3.20	545.10	433.25	437.06		437.16	0.000536	1.52	528.99	339.93	0.27	78.68
Reach 1	47000	5_BU	436.08	0.40	436.48	2.62	290.80	432.80	436.44		436.47	0.000531	0.83	467.34	355.56	0.16	75.80
Reach 1	47000	1_BU	436.25	0.40	436.65	2.79	363.60	432.80	436.61		436.65	0.000620	0.94	520.49	359.92	0.18	72.77
Reach 1	47000	0p5_BU	436.31	0.40	436.71	2.85	389.40	432.80	436.67		436.71	0.000646	0.97	538.67	363.40	0.18	71.81
Reach 1	47000	0p5-CC-LC_BU	436.63	0.40	437.03	3.18	545.10	432.80	437.00		437.05	0.000772	1.14	641.22	400.82	0.20	67.21
Reach 1	46850	5_BU	432.93	3.51	436.45	0.22	290.80	432.38	436.15		436.25	0.010692	0.45	217.15	374.26	0.30	2.21
Reach 1	46850	1_BU	432.89	3.71	436.60	0.19	363.60	432.38	436.28		436.40	0.010301	0.39	250.42	392.49	0.29	1.26
Reach 1	46850	0p5_BU	433.00	3.66	436.65	0.26	389.40	432.38	436.35		436.46	0.009352	0.47	273.99	413.66	0.29	2.27
Reach 1	46850	0p5-CC-LC_BU	433.02	3.96	436.98	0.28	545.10	432.38	436.65		436.78	0.007586	0.44	357.08	458.90	0.27	1.67
Reach 1	46700	5_BU	433.30	2.67	435.97	0.86	290.80	431.90	435.74	435.26	435.77	0.001211	0.37	433.09	507.24	0.13	8.27
Reach 1	46700	1_BU	433.41	2.71	436.12	0.94	363.60	431.90	435.89	435.38	435.92	0.001208	0.39	524.38	525.32	0.13	7.94
Reach 1	46700	0p5_BU	433.32	2.86	436.18	0.87	389.40	431.90	435.94	435.41	435.97	0.001282	0.39	533.86	525.86	0.13	6.54
Reach 1	46700	0p5-CC-LC_BU	433.38	3.10	436.49	0.92	545.10	431.90	436.23	435.48	436.27	0.001467	0.43	639.09	543.88	0.14	5.57
Reach 1	46513	5_BU	432.98	2.60	435.57	0.91	290.80	431.49	435.36	434.86	435.42	0.004628	0.77	289.26	542.82	0.26	20.25
Reach 1	46513	1_BU	432.95	2.78	435.73	0.89	363.60	431.49	435.49	435.08	435.56	0.004577	0.75	330.19	581.59	0.25	15.34
Reach 1	46513	0p5_BU	433.02	2.75	435.76	0.94	389.40	431.49	435.53	435.11	435.60	0.004438	0.77	348.27	600.85	0.25	15.79
Reach 1	46513	0p5-CC-LC_BU	433.08	2.97	436.05	0.99	545.10	431.49	435.80	435.33	435.89	0.003812	0.74	437.52	674.30	0.24	11.55
Reach 1	46503		Bridge														
Reach 1	46441	5_BU	433.10	2.44	435.54	1.19	290.80	431.25	435.33		435.37	0.001456	0.51	385.67	597.16	0.15	18.78
Reach 1	46441	1_BU	433.04	2.65	435.68	1.12	363.60	431.25	435.46		435.51	0.001581	0.51	422.68	624.36	0.15	14.24
Reach 1	46441	0p5_BU	433.11	2.60	435.72	1.20	389.40	431.25	435.50		435.54	0.001583	0.53	441.70	636.25	0.15	14.85
Reach 1	46441	0p5-CC-LC_BU	433.08	2.88	435.96	1.16	545.10	431.25	435.71		435.78	0.001736	0.54	512.61	701.88	0.16	10.59
Reach 1	46352	5_BU	432.98	2.28	435.26	1.17	290.80	430.67	435.07		435.12	0.002968	0.71	317.98	569.80	0.21	30.24
Reach 1	46352	1_BU	432.96	2.44	435.40	1.14	363.60	430.67	435.19		435.25	0.003091	0.72	357.04	632.73	0.21	23.83
Reach 1	46352	0p5_BU	432.98	2.45	435.43	1.17	389.40	430.67	435.23		435.29	0.003087	0.73	372.15	655.56	0.21	23.07
Reach 1	46352	0p5-CC-LC_BU	432.86	2.79	435.65	1.09	545.10	430.67	435.42		435.52	0.003431	0.73	426.01	691.42	0.22	14.92
Reach 1	46300	5_BU	432.74	2.42	435.16	1.52	290.80	430.65	434.96		435.01	0.002811	0.83	327.80	491.75	0.21	43.04
Reach 1	46300	1_BU	432.72	2.57	435.30	1.50	363.60	430.65	435.08		435.14	0.003290	0.89	362.59	574.46	0.23	36.40
Reach 1	46300	0p5_BU	432.74	2.59	435.33	1.51	389.40	430.65	435.11		435.17	0.003411	0.91	375.62	601.32	0.24	35.23
Reach 1	46300	0p5-CC-LC_BU	432.64	2.90	435.54	1.43	545.10	430.65	435.30		435.39	0.004327	0.99	429.76	682.17	0.26	25.58
Reach 1	46250	5_BU	432.44	2.59	435.03	1.38	290.80	430.61	434.81		434.90	0.002225	0.69	314.99	471.96	0.19	29.33
Reach 1	46250	1_BU	432.37	2.77	435.15	1.32	363.60	430.61	434.91		435.01	0.002623	0.73	345.91	557.89	0.20	23.54
Reach 1	46250	0p5_BU	432.37	2.81	435.18	1.32	389.40	430.61	434.94		435.05	0.002774	0.75	355.98	586.57	0.21	22.48
Reach 1	46250	0p5-CC-LC_BU	432.23	3.12	435.36	1.20	545.10	430.61	435.10		435.24	0.003493	0.79	404.34	681.57	0.23	15.20
Reach 1	46200	5_BU	432.24	2.72	434.96	1.32	290.80	430.41	434.73		434.78	0.003934	0.90	294.00	486.98	0.25	33.99
Reach 1	46200	1_BU	432.15	2.92	435.07	1.25	363.60	430.41	434.83		434.90	0.004430	0.91	321.34	537.84	0.26	25.81
Reach 1	46200	0p5_BU	432.14	2.95	435.10	1.24	389.40	430.41	434.85		434.93	0.004606	0.93	330.20	551.82	0.27	24.44
Reach 1	46200	0p5-CC-LC_BU	432.04	3.23	435.27	1.15	545.10	430.41	434.99		435.11	0.005457	0.96	377.32	659.91	0.29	16.50
Reach 1	46150	5_BU	431.57	3.23	434.80	0.90	290.80	430.24	434.53		434.62	0.007294	1.52	225.96	473.67	0.51	38.86
Reach 1	46150	1_BU	431.49	3.41	434.90	0.83	363.60	430.24	434.62		434.72	0.008388	1.55	253.41	504.41	0.54	28.95
Reach 1	46150	0p5_BU	431.51	3.42	434.93	0.85	389.40	430.24	434.64		434.75	0.008255	1.56	265.19	515.84	0.54	28.03
Reach 1	46150	0p5-CC-LC_BU	431.87	3.27	435.14	1.18	545.10	430.24	434.87		434.97	0.004771	1.47	383.75	657.55	0.43	26.98
Reach 1	46100	5_BU	430.60	3.84	434.43	0.24	290.80	430.02	434.11	434.11	434.33	0.026085	0.74	146.88	359.11	0.48	2.95
Reach 1	46100	1_BU	430.59	3.95	434.54	0.24	363.60	430.02	434.21	434.21	434.44	0.025462	0.72	177.26	403.71	0.47	2.25
Reach 1	46100	0p5_BU	430.60	3.96	434.57	0.24	389.40	430.02	434.23	434.23	434.48	0.025834	0.74	186.76	413.97	0.48	2.27
Reach 1	46100	0p5-CC-LC_BU	431.75	3.33	435.08	1.18	545.10	430.02	434.80		434.87	0.004181	0.85	484.72	682.16	0.25	14.32
Reach 1	46050	5_BU	432.67	0.40	433.07	1.83	290.80	429.81	433.04	432.21	433.21	0.010593	1.87	163.49	131.26	0.44	96.77
Reach 1	46050	1_BU	432.93	0.40	433.33	2.05	363.60	429.81	433.29	432.42	433.48	0.010130	1.97	201.06	161.44	0.44	93.32
Reach 1	46050	0p5_BU	433.01	0.40	433.41	2.13	389.40	429.81	433.38	432.49	433.57	0.009833	1.99	214.81	164.24	0.44	91.57
Reach 1	46050	0p5-CC-LC_BU	430.95	3.65	434.61	0.53	545.10	429.81	434.30	434.30	434.60	0.035768	1.47	230.29	453.81	0.64	7.61
Reach 1	46000	5_BU	432.32	0.40	432.72	1.81	290.80	429.73	432.69		432.92	0.003682	2.11	143.13	108.59	0.50	99.30
Reach 1	46000	1_BU	432.54	0.40	432.94	1.98	363.60	429.73	432.91		433.18	0.003876	2.31	169.12	125.25	0.53	98.08
Reach 1	46000	0p5_BU	432.62	0.40	433.02	2.04	389.40	429.73	432.98		433.27	0.003923	2.38	178.43	131.73	0.53	97.61
Reach 1	46000	0p5-CC-LC_BU	433.00	0.40	433.40	2.41	545.10	429.73	433.36	432.67	433.72	0.004130	2.71	233.63	161.20	0.56	94.37
Reach 1	45950	5_BU	432.12	0.40	432.52	1.64	290.80	429.64	432.49		432.72	0.004210	2.12	137.43	86.70	0.53	99.96
Reach 1	45950	1_BU	432.32	0.40	432.72	1.68	363.60	429.64	432.69		432.97	0.004500	2.35	155.96	97.11	0.58	99.87
Reach 1	45950	0p5_BU	432.39	0.40	432.79	1.74	389.40	429.64	432.75		433.05	0.004592	2.42	162.41	100.36	0.59	99.82
Reach 1	45950	0p5-CC-LC_BU	432.76	0.40	433.16	1.67	545.10	429.64	433.13		433.49	0.004895	2.70	209.67	155.06	0.67	99.20
Reach 1	45850	5_BU	431.55	0.40	431.95	1.27	290.80	429.47	431.92		432.18	0.006900	2.28	129.19	110.53	0.65	99.71
Reach 1	45850	1_BU	431.75	0.40	432.15	1.44	363.60	429.47	432.11		432.42	0.006786	2.46	151.07	114.34	0.65	99.29
Reach 1	45850	0p5_BU	431.81	0.40	432.21	1.50	389.40	429.47	432.18		432.50	0.006717	2.51	158.71	115.21	0.65	99.13
Reach 1	45850	0p5-CC-LC_BU	432.19	0.40	432.59	1.83	545.10	429.47	432.55		432.94	0.006290	2.78	205.35	137.38	0.65	98.06
Reach 1	45750	5_BU				1.30	290.80	429.31	431.53		431.73	0.002962	1.96	148.56	114.20	0.55	100.00
Reach 1	45750	1_BU				1.50	363.60	429.31	431.76		431.98	0.002758	2.08	174.90	118.27	0.54	99.99
Reach 1	45750	0p5_BU				1.57	389.40	429.31	431.84		432.07	0.002700	2.12	184.04	120.04	0.54	99.98
Reach 1	45750	0p5-CC-LC_BU				1.94	545.10	429.31	432.25		432.53	0.002553	2.34	235.28	128.54	0.54	99.81
Reach 1	45600	5_BU				1.58	290.80	429.06	431.22		431.38	0.001809	1.75	166.35	105.02	0.44	100.00
Reach 1	45600	1_BU				1.79	363.60	429.06	431.45		431.64	0.001821	1.90	191.18	106.84	0.45	100.00
Reach 1	45600	0p5_BU				1.86	389.40	429.06	431.53		431.73	0.001823	1.95	199.63	107.45	0.46	100.00
Reach 1	45600	0p5-CC-LC_BU				2.18	545.10	429.06	431.93		432.19	0.001938	2.24	244.75	126.33	0.48	99.96
Reach 1	45400	5_BU				1.61	290.80	428.84	430.87		431.02	0.001698	1.71	170.86	115.10	0.43	99.90
Reach 1	45400	1_BU				1.83	363.60	428.84	431.11		431.28	0.001712	1.87	199.12	127.95	0.44	99.65
Reach 1	45400	0p5_BU				1.90	389.40	428.84	431.19		431.37	0.001700	1.91	209.63	132.14	0.44	99.49
Reach 1	45400	0p5-CC-LC_BU				2.26	545.10	428.84	431.57		431.81	0.001794	2.20	266.80	189.94	0.47	98.44
Reach 1	45200	5_BU				1.43	290.80	428.38	430.32		430.56	0.003209	2.18	135.45	102.76	0.58	99.76
Reach 1	45200	1_BU				1.61	363.60	428.38	430.54		430.82	0.003161	2.34	160.71	124.93	0.59	99.35
Reach 1	45200	0p5_BU				1.64	389.40	428.38	430.62		430.91	0.003214	2.38	170.77	134.50	0.59	99.19
Reach 1	45200	0p5-CC-LC_BU				1.96	545.10	428.38	430.99		431.34	0.003119	2.65	237.52	239.32	0.60	97.07
Reach 1	44985	5_BU				1.65	290.80	426.86	429.87		430.03	0.001765	1.77	165.94	114.91	0.44	99.87
Reach 1	44985	1_BU				1.88	363.60	426.86	430.10		430.29	0.001774	1.93	195.49	146.29	0.45	99.38
Reach 1	44985	0p5_BU				1.96	389.40	426.86	430.18		430.38	0.001781	1.99	206.80	162.46	0.45	99.07
Reach 1	44985	0p5-CC-LC_BU				2.34	545.10	426.86	430.56		430.81	0.001812	2.26	286.27	262.27	0.47	96.09
Reach 1	43733	5_BU				1.24	290.80	424.63	427.09		427.26	0.002842	1.85	167.20	154.71	0.53	91.67
Reach 1	43733	1_BU				1.33	363.60	424.63	427.24		427.44	0.002997	2.04	192.56	183.99	0.57	91.08
Reach 1	43733	0p5_BU				1.38	389.40	424.63	427.29		427.50	0.003027	2.10	202.47	195.79	0.57	90.86
Reach 1	43733	0p5-CC-LC_BU				1.64	545.10	424.63	427.56		427.82	0.003218	2.40	261.79	257.03	0.60	88.39
Reach 1	42697	5_BU				1.45	290.80	421.83	425.04	424.42	425.14	0.001612	1.54	289.57	457.65	0.41	77.28
Reach 1	42697	1_BU				1.58	363.60	421.83	425.17	424.76	425.27	0.001628	1.64	352.98	510.00	0.42	71.77

HEC-RAS Plan: KR_Jam_46050 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	42697	0p5_BU				1.62	389.40	421.83	425.21	424.81	425.32	0.001648	1.68	373.47	523.07	0.42	70.25
Reach 1	42697	0p5-CC-LC_BU				1.83	545.10	421.83	425.42	425.03	425.54	0.001731	1.86	487.42	580.10	0.44	62.80
Reach 1	41323	5_BU				0.87	290.80	419.47	421.45		421.64	0.004579	1.95	149.51	170.95	0.66	100.00
Reach 1	41323	1_BU				0.94	363.60	419.47	421.63		421.83	0.004330	1.99	183.53	214.64	0.65	99.96
Reach 1	41323	0p5_BU				0.98	389.40	419.47	421.69		421.90	0.004169	1.99	198.57	264.10	0.64	99.83
Reach 1	41323	0p5-CC-LC_BU				1.08	545.10	419.47	422.01		422.20	0.003660	1.98	308.47	435.93	0.61	95.73
Reach 1	40285	5_BU				1.48	290.80	416.85	419.58		419.62	0.001019	1.23	364.00	463.45	0.32	42.98
Reach 1	40285	1_BU				1.61	363.60	416.85	419.71		419.77	0.001082	1.35	436.90	572.89	0.34	41.14
Reach 1	40285	0p5_BU				1.66	389.40	416.85	419.76		419.81	0.001117	1.40	463.34	605.72	0.35	40.85
Reach 1	40285	0p5-CC-LC_BU				1.86	545.10	416.85	419.96		420.02	0.001281	1.61	590.93	671.87	0.38	37.73
Reach 1	39051	5_BU				0.78	290.80	414.48	417.40		417.47	0.005561	1.25	271.84	600.83	0.45	81.24
Reach 1	39051	1_BU				0.81	363.60	414.48	417.53		417.59	0.005291	1.21	362.97	757.27	0.43	74.59
Reach 1	39051	0p5_BU				0.84	389.40	414.48	417.57		417.63	0.005082	1.21	390.87	792.72	0.42	72.93
Reach 1	39051	0p5-CC-LC_BU				1.01	545.10	414.48	417.76		417.82	0.004222	1.24	561.04	981.88	0.39	65.70
Reach 1	38622	5_BU				0.85	290.80	413.89	416.80		416.82	0.000728	0.71	516.75	959.14	0.25	85.48
Reach 1	38622	1_BU				0.96	363.60	413.89	416.92		416.95	0.000767	0.75	634.79	1138.44	0.24	82.78
Reach 1	38622	0p5_BU				0.99	389.40	413.89	416.96		416.99	0.000780	0.76	674.47	1183.00	0.24	81.85
Reach 1	38622	0p5-CC-LC_BU				1.18	545.10	413.89	417.15		417.18	0.000881	0.85	880.71	1364.67	0.25	77.47
Reach 1	38155	5_BU				1.50	290.80	413.94	415.97	415.74	416.22	0.003668	2.39	195.91	409.83	0.62	85.16
Reach 1	38155	1_BU				1.70	363.60	413.94	416.18	416.00	416.40	0.003031	2.35	297.89	589.59	0.58	76.21
Reach 1	38155	0p5_BU				1.76	389.40	413.94	416.25	416.06	416.45	0.002842	2.33	339.06	658.08	0.56	73.34
Reach 1	38155	0p5-CC-LC_BU				2.07	545.10	413.94	416.57		416.72	0.002045	2.20	577.66	923.21	0.49	58.56
Reach 1	37333	5_BU				1.97	290.80	411.14	413.98		414.18	0.001838	2.03	162.39	147.21	0.46	97.40
Reach 1	37333	1_BU				2.14	363.60	411.14	414.16		414.41	0.002097	2.29	193.70	206.09	0.50	95.78
Reach 1	37333	0p5_BU				2.19	389.40	411.14	414.21		414.48	0.002200	2.38	204.03	216.08	0.51	95.12
Reach 1	37333	0p5-CC-LC_BU				2.42	545.10	411.14	414.43	413.86	414.83	0.002893	2.91	260.90	288.77	0.60	91.88
Reach 1	36316	5_BU				1.61	290.80	409.47	411.96	411.57	412.13	0.002447	2.05	234.55	523.28	0.52	79.39
Reach 1	36316	1_BU				1.70	363.60	409.47	412.13	411.80	412.29	0.002335	2.07	339.93	712.35	0.51	71.16
Reach 1	36316	0p5_BU				1.74	389.40	409.47	412.17		412.33	0.002298	2.09	371.42	742.01	0.51	68.69
Reach 1	36316	0p5-CC-LC_BU				1.96	545.10	409.47	412.41		412.55	0.002050	2.14	565.26	901.25	0.49	57.14
Reach 1	34806	5_BU				1.37	290.80	406.69	408.63		408.76	0.002135	1.72	201.64	182.57	0.47	89.52
Reach 1	34806	1_BU				1.54	363.60	406.69	408.81		408.97	0.002203	1.89	235.91	195.52	0.49	89.16
Reach 1	34806	0p5_BU				1.60	389.40	406.69	408.86		409.04	0.002219	1.94	247.23	198.71	0.49	88.67
Reach 1	34806	0p5-CC-LC_BU				1.88	545.10	406.69	409.18		409.40	0.002331	2.21	311.80	218.53	0.51	86.43
Reach 1	33067	5_BU				1.28	290.80	401.87	404.17	403.67	404.37	0.003085	1.98	147.41	118.96	0.56	99.97
Reach 1	33067	1_BU				1.48	363.60	401.87	404.38	403.86	404.61	0.002932	2.12	173.19	130.78	0.56	99.85
Reach 1	33067	0p5_BU				1.54	389.40	401.87	404.45	403.92	404.69	0.002891	2.17	182.11	155.91	0.56	99.77
Reach 1	33067	0p5-CC-LC_BU				1.92	545.10	401.87	404.83	404.22	405.12	0.002649	2.40	247.57	382.55	0.55	98.64
Reach 1	32800	5_BU				1.52	290.80	401.32	403.49	402.90	403.67	0.002219	1.88	154.88	239.36	0.49	100.00
Reach 1	32800	1_BU				1.73	363.60	401.32	403.71	403.06	403.93	0.002225	2.05	177.45	273.89	0.50	100.00
Reach 1	32800	0p5_BU				1.80	389.40	401.32	403.78	403.11	404.01	0.002229	2.11	184.83	289.60	0.50	100.00
Reach 1	32800	0p5-CC-LC_BU				2.18	545.10	401.32	404.17	403.40	404.47	0.002279	2.43	228.17	557.20	0.52	99.82
Reach 1	32550	5_BU				1.26	290.80	400.66	402.50	402.23	402.84	0.005302	2.57	113.98	152.21	0.73	99.84
Reach 1	32550	1_BU				1.36	363.60	400.66	402.66	402.43	403.07	0.005589	2.84	129.57	179.81	0.78	99.59
Reach 1	32550	0p5_BU				1.39	389.40	400.66	402.71	402.50	403.15	0.005678	2.93	135.02	192.11	0.79	99.49
Reach 1	32550	0p5-CC-LC_BU				1.64	545.10	400.66	402.99	402.85	403.56	0.006127	3.38	167.97	300.80	0.84	98.50
Reach 1	32400	5_BU				1.58	290.80	400.20	402.24	401.71	402.35	0.001660	1.67	221.26	182.99	0.42	66.96
Reach 1	32400	1_BU				1.76	363.60	400.20	402.43	401.83	402.55	0.001686	1.80	255.26	184.97	0.43	64.53
Reach 1	32400	0p5_BU				1.81	389.40	400.20	402.49	401.87	402.62	0.001697	1.85	266.47	185.95	0.44	63.85
Reach 1	32400	0p5-CC-LC_BU				2.12	545.10	400.20	402.81	402.10	402.98	0.001778	2.09	329.62	216.26	0.46	60.88
Reach 1	32250	5_BU				1.31	290.80	399.61	401.80	401.40	402.00	0.003433	2.12	161.25	163.77	0.59	80.23
Reach 1	32250	1_BU				1.46	363.60	399.61	401.98	401.54	402.20	0.003435	2.27	188.69	178.62	0.60	77.91
Reach 1	32250	0p5_BU				1.51	389.40	399.61	402.03	401.59	402.26	0.003452	2.32	198.09	186.55	0.60	77.22
Reach 1	32250	0p5-CC-LC_BU				1.78	545.10	399.61	402.33	401.92	402.61	0.003472	2.57	259.95	255.12	0.61	73.41
Reach 1	32150	5_BU				1.19	290.80	399.22	401.47	401.05	401.64	0.003328	1.96	169.41	184.02	0.57	84.50
Reach 1	32150	1_BU				1.37	363.60	399.22	401.67	401.23	401.85	0.003003	2.05	208.48	212.22	0.56	82.47
Reach 1	32150	0p5_BU				1.44	389.40	399.22	401.73	401.34	401.92	0.002895	2.07	222.40	219.43	0.55	81.55
Reach 1	32150	0p5-CC-LC_BU				1.78	545.10	399.22	402.08	401.60	402.28	0.002452	2.20	308.93	296.86	0.53	76.75
Reach 1	32000	5_BU				1.68	290.80	398.64	400.98	400.53	401.20	0.002630	2.18	159.88	147.63	0.54	87.02
Reach 1	32000	1_BU				1.88	363.60	398.64	401.20	400.72	401.44	0.002538	2.32	194.64	179.98	0.54	83.51
Reach 1	32000	0p5_BU				1.95	389.40	398.64	401.27	400.81	401.52	0.002515	2.36	207.77	195.12	0.54	82.39
Reach 1	32000	0p5-CC-LC_BU				2.32	545.10	398.64	401.66	401.12	401.92	0.002344	2.56	305.75	296.10	0.54	76.30
Reach 1	31850	5_BU				1.59	290.80	398.07	400.43	400.12	400.73	0.003690	2.50	133.22	122.53	0.63	91.60
Reach 1	31850	1_BU				1.72	363.60	398.07	400.59	400.31	400.95	0.004174	2.79	153.89	150.35	0.68	89.63
Reach 1	31850	0p5_BU				1.76	389.40	398.07	400.63	400.38	401.02	0.004321	2.88	161.30	154.87	0.70	88.88
Reach 1	31850	0p5-CC-LC_BU				1.95	545.10	398.07	400.88	400.77	401.39	0.005217	3.40	205.77	217.32	0.78	85.48
Reach 1	31700	5_BU				1.39	290.80	397.52	400.25	399.45	400.34	0.001320	1.37	246.24	267.26	0.37	86.74
Reach 1	31700	1_BU				1.51	363.60	397.52	400.40	399.59	400.51	0.001421	1.52	286.73	308.82	0.39	85.15
Reach 1	31700	0p5_BU				1.55	389.40	397.52	400.45	399.64	400.56	0.001462	1.57	299.96	320.41	0.40	84.69
Reach 1	31700	0p5-CC-LC_BU				1.77	545.10	397.52	400.69	399.93	400.84	0.001682	1.83	374.94	391.65	0.44	81.88
Reach 1	31597	5_BU				0.92	290.80	397.42	400.05	399.59	400.14	0.002506	1.42	235.52	326.55	0.47	74.31
Reach 1	31597	1_BU				1.01	363.60	397.42	400.21	399.70	400.30	0.002423	1.49	289.03	379.21	0.47	72.89
Reach 1	31597	0p5_BU				1.04	389.40	397.42	400.25	399.72	400.35	0.002396	1.51	307.26	399.15	0.47	72.44
Reach 1	31597	0p5-CC-LC_BU				1.25	545.10	397.42	400.49	399.95	400.60	0.002349	1.69	408.41	450.78	0.48	71.28
Reach 1	31500	5_BU				0.78	290.80	398.07	399.86	399.39	399.96	0.002083	1.17	233.01	292.38	0.42	28.63
Reach 1	31500	1_BU				0.88	363.60	398.07	400.00	399.53	400.12	0.002171	1.29	279.31	339.48	0.44	30.07
Reach 1	31500	0p5_BU				0.92	389.40	398.07	400.05	399.58	400.17	0.002194	1.34	295.18	354.10	0.45	30.67
Reach 1	31500	0p5-CC-LC_BU				1.15	545.10	398.07	400.29	399.81	400.42	0.002254	1.57	388.19	427.14	0.47	32.57
Reach 1	31400	5_BU				0.76	290.80	397.82	399.63	399.31	399.78	0.003235	1.39	208.92	300.13	0.51	34.05
Reach 1	31400	1_BU				0.90	363.60	397.82	399.78	399.50	399.93	0.003148	1.49	257.27	350.22	0.50	35.24
Reach 1	31400	0p5_BU				0.94	389.40	397.82	399.83	399.54	399.98	0.003156	1.53	273.08	363.11	0.50	35.42
Reach 1	31400	0p5-CC-LC_BU				1.15	545.10	397.82	400.06	399.75	400.22	0.003275	1.77	368.15	496.94	0.53	36.56
Reach 1	31350	5_BU				0.86	290.80	397.71	399.57	399.10	399.67	0.002272	1.30	241.31	292.39	0.45	39.11
Reach 1	31350	1_BU				0.98	363.60	397.71	399.72	399.25	399.83	0.002271	1.42	286.82	341.85	0.46	40.16
Reach 1	31350	0p5_BU				1.02	389.40	397.71	399.76	399.29	399.87	0.002302	1.47	301.60	360.14	0.46	40.47
Reach 1	31350	0p5-CC-LC_BU				1.23	545.10	397.71	399.98	399.51	400.12	0.002510	1.73	396.98	539.59	0.50	41.54
Reach 1	31300	5_BU				0.80	290.80	397.60	399.41	399.11	399.56	0.003833	1.62	201.57	281.10	0.58	39.00
Reach 1	31300	1_BU				0.81	363.60	397.60	399.56	399.28	399.72	0.003778	1.62	249.77	353.38	0.57	37.78
Reach 1	31300	0p5_BU				0.85	389.40	397.60	399.61	399.32	399.77	0.003707	1.65	266.05	369.11	0.57	38.09
Reach 1	31300	0p5-CC-LC_BU				1.05	545.10	397.60	399.84	399.57	400.01	0.003519	1.86	365.81	526.64	0.58	39.01
Reach 1	31250	5_BU				0.89	290.80	397.53	399.33	398.88	399.43	0.002294	1.36	245.07	340.96	0.46	44.27
Reach 1	31250	1_BU				0.94	363.60	397.53	399.49	399.00	399.59	0.002229	1.41	307.79	460.73	0.46	43.53
Reach 1	31250	0p5_BU				0.98	389.40	397.53	399.54	399.04	399.64	0.002205	1.43	330.34	489.06	0.46	43.50
Reach 1	31250	0p5-CC-LC_BU				1.22	545.10	397.53	399.78	399.30	399.88	0.002139	1.58	465.87	629.21	0.46	42.77
Reach 1	31200	5_BU				1.33	290.80	397.38	399.24	398.63	399.33	0.001518	1.47	254.08	325.28	0.41	56.44
Reach 1	31200	1_BU				1.44	363.60	397.38	399.39	398.78	399.49	0.001553	1.58	310.79	424.91	0.42	54.11
Reach 1	31200	0p5_BU				1.48	389.40	397.38	399.43	398.82	399.54	0.001583	1.62	330.42	458.85	0.42	53.45
Reach 1	31200	0p5-CC-LC_BU				1.70	545.10	397.38	399.66	399.06	399.78	0.001726	1.82	450.87	616.40	0.45	49.44

HEC-RAS Plan: KR_Jam_46050 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	31150	5_BU				1.04	290.80	397.22	399.14	398.64	399.21	0.001741	1.33	257.24	326.91	0.42	52.41
Reach 1	31150	1_BU				1.15	363.60	397.22	399.30	398.77	399.38	0.001641	1.39	321.59	483.50	0.42	50.88
Reach 1	31150	0p5_BU				1.18	389.40	397.22	399.34	398.80	399.42	0.001641	1.42	344.27	532.59	0.42	50.42
Reach 1	31150	0p5-CC-LC_BU				1.40	545.10	397.22	399.56	398.97	399.65	0.001672	1.58	476.07	652.08	0.43	47.47
Reach 1	31100	5_BU				0.99	290.80	397.05	398.70	398.44	398.89	0.004251	1.95	166.74	233.61	0.63	40.59
Reach 1	31100	1_BU				1.06	363.60	397.05	398.85	398.58	399.05	0.004369	2.07	210.37	341.55	0.64	39.98
Reach 1	31100	0p5_BU				1.08	389.40	397.05	398.90	398.64	399.10	0.004300	2.09	228.54	385.70	0.64	39.39
Reach 1	31100	0p5-CC-LC_BU				1.22	545.10	397.05	399.15	398.97	399.33	0.004043	2.20	344.36	565.57	0.63	36.81
Reach 1	31050	5_BU				0.97	290.80	396.94	398.59	398.23	398.71	0.003218	1.68	210.21	326.75	0.54	34.84
Reach 1	31050	1_BU				1.02	363.60	396.94	398.77	398.38	398.88	0.002926	1.70	276.50	455.86	0.54	33.42
Reach 1	31050	0p5_BU				1.03	389.40	396.94	398.82	398.43	398.93	0.002839	1.69	302.51	494.89	0.53	32.78
Reach 1	31050	0p5-CC-LC_BU				1.20	545.10	396.94	399.08	398.66	399.18	0.002458	1.75	448.04	624.49	0.51	30.76
Reach 1	31011	5_BU				1.05	290.80	396.85	398.45	397.94	398.53	0.002083	1.42	228.66	256.32	0.44	31.12
Reach 1	31011	1_BU				1.11	363.60	396.85	398.62	398.07	398.71	0.002190	1.52	278.90	338.29	0.46	31.04
Reach 1	31011	0p5_BU				1.13	389.40	396.85	398.67	398.10	398.76	0.002193	1.54	297.78	362.23	0.46	30.82
Reach 1	31011	0p5-CC-LC_BU				1.33	545.10	396.85	398.93	398.30	399.03	0.002015	1.64	406.26	484.58	0.45	29.22
Reach 1	30950	5_BU				0.97	290.80	396.52	398.25	397.77	398.33	0.001794	1.26	231.49	266.14	0.41	38.07
Reach 1	30950	1_BU				1.12	363.60	396.52	398.41	397.87	398.50	0.001755	1.36	278.52	309.57	0.41	38.62
Reach 1	30950	0p5_BU				1.16	389.40	396.52	398.46	397.91	398.56	0.001774	1.41	295.17	327.39	0.42	38.94
Reach 1	30950	0p5-CC-LC_BU				1.39	545.10	396.52	398.72	398.09	398.83	0.001880	1.63	390.43	406.78	0.44	39.58
Reach 1	30850	5_BU				0.79	290.80	395.91	398.09	397.56	398.16	0.002221	1.21	243.81	299.81	0.44	83.68
Reach 1	30850	1_BU				0.85	363.60	395.91	398.27	397.67	398.34	0.002048	1.22	301.50	348.46	0.42	84.05
Reach 1	30850	0p5_BU				0.88	389.40	395.91	398.32	397.71	398.39	0.001994	1.24	320.52	360.29	0.42	84.26
Reach 1	30850	0p5-CC-LC_BU				1.06	545.10	395.91	398.58	397.92	398.67	0.001840	1.34	427.59	445.43	0.42	86.28
Reach 1	30750	5_BU				0.90	290.80	395.77	397.74	397.37	397.90	0.004050	1.79	164.36	184.96	0.60	71.54
Reach 1	30750	1_BU				0.89	363.60	395.77	397.92	397.55	398.09	0.004136	1.79	201.00	223.13	0.61	70.17
Reach 1	30750	0p5_BU				0.90	389.40	395.77	397.98	397.60	398.15	0.004135	1.80	214.43	241.83	0.61	69.93
Reach 1	30750	0p5-CC-LC_BU				1.04	545.10	395.77	398.27	397.85	398.44	0.003805	1.90	305.91	391.15	0.59	71.76
Reach 1	30650	5_BU				1.18	290.80	395.40	397.49	396.94	397.62	0.002465	1.67	194.99	221.56	0.49	83.41
Reach 1	30650	1_BU				1.28	363.60	395.40	397.68	397.11	397.82	0.002400	1.74	239.44	254.17	0.49	81.09
Reach 1	30650	0p5_BU				1.32	389.40	395.40	397.74	397.16	397.88	0.002357	1.76	255.24	268.13	0.49	80.31
Reach 1	30650	0p5-CC-LC_BU				1.60	545.10	395.40	398.03	397.45	398.19	0.002214	1.95	357.35	439.55	0.49	77.42
Reach 1	30396	5_BU				1.66	290.80	394.21	396.80	396.46	397.02	0.002645	2.21	172.68	188.02	0.55	84.13
Reach 1	30396	1_BU				1.82	363.60	394.21	397.01	396.63	397.23	0.002568	2.31	213.96	220.11	0.55	79.47
Reach 1	30396	0p5_BU				1.89	389.40	394.21	397.08	396.70	397.31	0.002524	2.34	231.02	247.24	0.54	78.03
Reach 1	30396	0p5-CC-LC_BU				2.22	545.10	394.21	397.44	396.98	397.67	0.002348	2.48	343.72	380.74	0.53	70.40
Reach 1	30150	5_BU				1.58	290.80	393.70	396.10	395.64	396.34	0.003033	2.26	148.74	149.69	0.57	92.47
Reach 1	30150	1_BU				1.74	363.60	393.70	396.26	395.91	396.55	0.003242	2.49	174.86	170.30	0.60	89.98
Reach 1	30150	0p5_BU				1.79	389.40	393.70	396.31	395.97	396.62	0.003340	2.58	184.11	178.66	0.61	89.64
Reach 1	30150	0p5-CC-LC_BU				2.09	545.10	393.70	396.61	396.32	396.99	0.003592	2.96	244.33	237.39	0.65	85.36
Reach 1	29887	5_BU				1.03	290.80	393.58	395.39	394.94	395.51	0.002743	1.61	186.54	186.83	0.51	93.32
Reach 1	29887	1_BU				1.18	363.60	393.58	395.55	395.06	395.70	0.002643	1.72	218.27	196.00	0.51	92.95
Reach 1	29887	0p5_BU				1.23	389.40	393.58	395.60	395.11	395.76	0.002622	1.77	228.56	197.08	0.51	92.83
Reach 1	29887	0p5-CC-LC_BU				1.51	545.10	393.58	395.90	395.35	396.09	0.002549	1.98	287.57	206.61	0.51	92.17
Reach 1	29585	5_BU				1.06	290.80	392.36	394.38	394.02	394.56	0.003708	1.90	152.99	148.27	0.59	99.97
Reach 1	29585	1_BU				1.16	363.60	392.36	394.54	394.16	394.75	0.003795	2.05	178.19	158.79	0.61	99.84
Reach 1	29585	0p5_BU				1.21	389.40	392.36	394.59	394.20	394.81	0.003817	2.11	185.94	160.12	0.61	99.79
Reach 1	29585	0p5-CC-LC_BU				1.43	545.10	392.36	394.88	394.48	395.16	0.003775	2.35	234.95	170.80	0.63	99.42
Reach 1	29234	5_BU				1.19	290.80	391.76	393.33	392.89	393.48	0.002557	1.71	174.72	166.81	0.50	99.33
Reach 1	29234	1_BU				1.37	363.60	391.76	393.52	393.02	393.69	0.002432	1.84	206.79	175.25	0.50	98.80
Reach 1	29234	0p5_BU				1.44	389.40	391.76	393.58	393.06	393.76	0.002400	1.88	217.64	177.22	0.50	98.59
Reach 1	29234	0p5-CC-LC_BU				1.77	545.10	391.76	393.92	393.30	394.14	0.002290	2.11	280.91	203.76	0.51	97.62
Reach 1	28752	5_BU				1.40	290.80	389.58	392.10	391.58	392.25	0.002521	1.77	181.42	168.69	0.48	95.80
Reach 1	28752	1_BU				1.56	363.60	389.58	392.27	391.74	392.46	0.002664	1.95	211.99	178.58	0.50	94.78
Reach 1	28752	0p5_BU				1.62	389.40	389.58	392.33	391.79	392.53	0.002710	2.01	222.14	182.22	0.50	94.34
Reach 1	28752	0p5-CC-LC_BU				1.90	545.10	389.58	392.63	392.06	392.88	0.002952	2.30	279.45	201.07	0.53	91.84
Reach 1	27904	5_BU				1.21	290.80	387.11	389.64		389.81	0.003390	1.98	170.90	190.32	0.58	80.82
Reach 1	27904	1_BU				1.37	363.60	387.11	389.80		389.99	0.003247	2.11	203.75	204.39	0.58	78.31
Reach 1	27904	0p5_BU				1.43	389.40	387.11	389.86		390.06	0.003200	2.15	215.04	208.53	0.58	77.48
Reach 1	27904	0p5-CC-LC_BU				1.73	545.10	387.11	390.15		390.38	0.002988	2.36	288.26	296.64	0.57	73.34
Reach 1	27650	5_BU				1.24	290.80	386.21	388.61	388.26	388.83	0.003776	2.14	150.64	151.08	0.61	88.65
Reach 1	27650	1_BU				1.41	363.60	386.21	388.79	388.45	389.04	0.003687	2.30	178.10	158.42	0.62	87.18
Reach 1	27650	0p5_BU				1.47	389.40	386.21	388.85	388.49	389.11	0.003642	2.35	187.85	160.95	0.62	86.72
Reach 1	27650	0p5-CC-LC_BU				1.81	545.10	386.21	389.21	388.75	389.50	0.003283	2.55	260.03	263.35	0.61	83.66
Reach 1	27359	5_BU				1.33	290.80	385.38	387.54	387.14	387.78	0.003540	2.17	134.16	101.12	0.60	100.00
Reach 1	27359	1_BU				1.54	363.60	385.38	387.76	387.30	388.03	0.003304	2.32	157.05	103.33	0.60	100.00
Reach 1	27359	0p5_BU				1.62	389.40	385.38	387.83	387.36	388.12	0.003245	2.37	164.70	104.75	0.59	99.99
Reach 1	27359	0p5-CC-LC_BU				2.03	545.10	385.38	388.25	387.65	388.60	0.002963	2.63	209.90	115.86	0.59	99.77
Reach 1	27150	5_BU				1.76	290.80	383.59	387.01	386.21	387.21	0.002056	2.00	145.82	85.60	0.48	99.98
Reach 1	27150	1_BU				1.95	363.60	383.59	387.21	386.41	387.47	0.002246	2.24	163.45	88.80	0.51	99.90
Reach 1	27150	0p5_BU				2.02	389.40	383.59	387.28	386.49	387.55	0.002305	2.32	169.33	89.72	0.52	99.85
Reach 1	27150	0p5-CC-LC_BU				2.39	545.10	383.59	387.64	386.88	388.02	0.002571	2.74	203.33	97.32	0.57	99.48
Reach 1	26869	5_BU				1.19	290.80	383.32	385.95	385.76	386.28	0.005851	2.58	115.76	105.03	0.76	99.09
Reach 1	26869	1_BU				1.41	363.60	383.32	386.17	385.92	386.54	0.005071	2.70	139.82	108.76	0.72	98.62
Reach 1	26869	0p5_BU				1.49	389.40	383.32	386.25	385.98	386.62	0.004901	2.74	147.80	110.13	0.72	98.44
Reach 1	26869	0p5-CC-LC_BU				1.87	545.10	383.32	386.63	386.27	387.09	0.004355	3.02	191.67	116.18	0.70	97.46
Reach 1	26650	5_BU				2.06	290.80	382.27	385.62	384.53	385.75	0.001116	1.63	184.95	108.85	0.36	98.62
Reach 1	26650	1_BU				2.27	363.60	382.27	385.83	384.73	386.00	0.001253	1.85	208.28	116.04	0.39	98.01
Reach 1	26650	0p5_BU				2.34	389.40	382.27	385.89	384.80	386.08	0.001299	1.92	216.04	117.45	0.40	97.79
Reach 1	26650	0p5-CC-LC_BU				2.69	545.10	382.27	386.24	385.17	386.51	0.001557	2.30	263.14	161.27	0.45	96.53
Reach 1	26500	5_BU				2.02	290.80	382.41	385.47	384.32	385.59	0.001068	1.57	199.61	118.76	0.35	97.11
Reach 1	26500	1_BU				2.20	363.60	382.41	385.65	384.56	385.81	0.001232	1.79	223.44	139.91	0.39	96.58
Reach 1	26500	0p5_BU				2.26	389.40	382.41	385.71	384.64	385.88	0.001288	1.86	231.85	143.68	0.40	96.36
Reach 1	26500	0p5-CC-LC_BU				2.57	545.10	382.41	386.02	384.98	386.27	0.001596	2.26	285.04	212.49	0.45	94.95
Reach 1	26363	5_BU				1.46	290.80	382.60	385.21		385.37	0.002217	1.82	190.65	202.42	0.48	94.44
Reach 1	26363	1_BU				1.62	363.60	382.60	385.37		385.56	0.002333	2.00	225.75	245.53	0.50	92.33
Reach 1	26363	0p5_BU				1.67	389.40	382.60	385.42		385.62	0.002360	2.06	239.74	274.47	0.51	91.55
Reach 1	26363	0p5-CC-LC_BU				1.96	545.10	382.60	385.71	385.21	385.96	0.002461	2.34	338.43	392.24	0.53	87.26
Reach 1	26186	5_BU				1.27	290.80	382.60	384.44	384.30	384.73	0.005572	2.64	138.54	200.60	0.75	78.27
Reach 1	26186	1_BU				1.41	363.60	382.60	384.59	384.50	384.91	0.005502	2.80	171.00	229.70	0.75	74.32
Reach 1	26186	0p5_BU				1.44	389.40	382.60	384.63	384.54	384.96	0.005568	2.87	180.96	240.98	0.76	73.17
Reach 1	26186	0p5-CC-LC_BU				1.63	545.10	382.60	384.85	384.79	385.25	0.006135	3.26	241.78	350.55	0.82	68.24
Reach 1	26100	5_BU				1.43	290.80	382.20	384.35	383.84	384.46	0.001785	1.61	218.82	266.68	0.43	52.58
Reach 1	26100	1_BU				1.52	363.60	382.20	384.51	383.98	384.63	0.001863	1.72	267.68	346.89	0.45	49.97
Reach 1	26100	0p5_BU				1.56	389.40	382.20	384.56	384.02	384.67	0.001895	1.76	283.63	360.06	0.45	49.11
Reach 1	26100	0p5-CC-LC_BU				1.71	545.10	382.20	384.77	384.26	384.92	0.002200	2.02	371.34	461.96	0.49	45.90
Reach 1	25969	5_BU				1.06	290.80	381.43	384.01	383.68	384.17	0.003714	1.91	183.13	271.43	0.59	72.64

HEC-RAS Plan: KR_Jam_46050 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	25969	1_BU				1.20	363.60	381.43	384.20	383.85	384.35	0.003150	1.91	247.06	414.87	0.56	68.88
Reach 1	25969	0p5_BU				1.24	389.40	381.43	384.25	383.95	384.40	0.003123	1.95	266.37	442.54	0.56	68.00
Reach 1	25969	0p5-CC-LC_BU				1.47	545.10	381.43	384.49	384.16	384.64	0.002691	2.02	384.52	525.05	0.53	60.43
Reach 1	25849	5_BU				1.47	290.80	380.61	383.22	383.14	383.66	0.006096	3.04	109.19	114.49	0.80	89.89
Reach 1	25849	1_BU				1.57	363.60	380.61	383.43	383.39	383.89	0.006150	3.19	137.99	159.38	0.81	86.39
Reach 1	25849	0p5_BU				1.60	389.40	380.61	383.50	383.49	383.95	0.005963	3.18	149.97	170.85	0.80	84.34
Reach 1	25849	0p5-CC-LC_BU				1.75	545.10	380.61	383.82	383.80	384.27	0.005659	3.29	215.39	255.25	0.79	75.34
Reach 1	25750	5_BU				1.68	290.80	379.67	383.13	382.59	383.28	0.001855	1.90	204.16	215.40	0.47	82.34
Reach 1	25750	1_BU				1.75	363.60	379.67	383.37	382.79	383.52	0.001721	1.92	266.43	302.58	0.46	76.74
Reach 1	25750	0p5_BU				1.80	389.40	379.67	383.45	382.84	383.60	0.001686	1.92	291.44	350.73	0.46	75.13
Reach 1	25750	0p5-CC-LC_BU				2.12	545.10	379.67	383.82	383.09	383.95	0.001449	1.95	459.90	547.44	0.43	65.55
Reach 1	25700	5_BU				2.04	290.80	379.24	382.84	382.01	383.15	0.002751	2.52	130.86	141.75	0.56	95.98
Reach 1	25700	1_BU				2.15	363.60	379.24	383.05	382.34	383.39	0.002957	2.70	163.50	173.70	0.59	91.04
Reach 1	25700	0p5_BU				2.21	389.40	379.24	383.12	382.55	383.47	0.002939	2.75	176.17	187.98	0.59	89.28
Reach 1	25700	0p5-CC-LC_BU				2.52	545.10	379.24	383.45	383.26	383.83	0.002929	2.99	251.31	269.96	0.60	79.86
Reach 1	25650	5_BU				2.27	290.80	379.37	382.84	381.72	383.02	0.001474	1.99	180.63	202.08	0.42	90.34
Reach 1	25650	1_BU				2.36	363.60	379.37	383.07	381.99	383.25	0.001512	2.07	235.53	279.42	0.43	82.98
Reach 1	25650	0p5_BU				2.36	389.40	379.37	383.15	382.10	383.33	0.001520	2.07	258.39	300.83	0.43	80.21
Reach 1	25650	0p5-CC-LC_BU				2.64	545.10	379.37	383.53	382.97	383.69	0.001314	2.07	382.70	352.01	0.41	66.96
Reach 1	25600	5_BU				2.15	290.80	379.47	382.73	381.76	382.94	0.001797	2.12	164.31	159.32	0.46	89.93
Reach 1	25600	1_BU				2.19	363.60	379.47	382.94	382.19	383.17	0.002016	2.27	200.26	194.66	0.49	84.75
Reach 1	25600	0p5_BU				2.21	389.40	379.47	383.01	382.32	383.25	0.002049	2.30	214.72	209.74	0.50	82.94
Reach 1	25600	0p5-CC-LC_BU				2.53	545.10	379.47	383.36	382.89	383.61	0.002047	2.52	303.82	304.77	0.51	74.84
Reach 1	25550	5_BU				1.75	290.80	379.57	382.76	382.08	382.85	0.001197	1.51	297.50	340.41	0.37	70.01
Reach 1	25550	1_BU				1.97	363.60	379.57	382.99	382.32	383.07	0.001045	1.53	378.98	382.31	0.35	64.04
Reach 1	25550	0p5_BU				2.04	389.40	379.57	383.06	382.46	383.15	0.000992	1.53	408.79	394.04	0.34	62.09
Reach 1	25550	0p5-CC-LC_BU				2.41	545.10	379.57	383.43	382.64	383.52	0.000893	1.62	564.13	460.89	0.33	55.28
Reach 1	25500	5_BU				1.84	290.80	379.67	382.62	381.71	382.77	0.001612	1.82	176.30	136.72	0.43	90.15
Reach 1	25500	1_BU				2.02	363.60	379.67	382.82	382.05	383.00	0.001713	1.99	204.97	150.79	0.45	87.48
Reach 1	25500	0p5_BU				2.08	389.40	379.67	382.88	382.16	383.08	0.001722	2.04	215.47	154.92	0.45	86.49
Reach 1	25500	0p5-CC-LC_BU				2.37	545.10	379.67	383.18	382.51	383.44	0.002027	2.41	268.28	199.68	0.50	83.45
Reach 1	25458	5_BU				1.31	290.80	379.86	382.43	382.17	382.66	0.003940	2.26	142.92	138.20	0.63	78.51
Reach 1	25458	1_BU				1.44	363.60	379.86	382.65	382.32	382.88	0.003585	2.29	174.71	154.29	0.61	74.64
Reach 1	25458	0p5_BU				1.45	389.40	379.86	382.73	382.37	382.96	0.003497	2.27	187.71	173.04	0.60	73.18
Reach 1	25458	0p5-CC-LC_BU				1.74	545.10	379.86	383.06	382.63	383.32	0.003224	2.45	257.78	242.41	0.59	69.47
Reach 1	25400	5_BU				1.66	290.80	379.62	382.24	381.85	382.46	0.002814	2.24	147.71	119.65	0.56	75.05
Reach 1	25400	1_BU				1.79	363.60	379.62	382.46	382.02	382.70	0.002836	2.36	175.03	133.97	0.56	71.54
Reach 1	25400	0p5_BU				1.79	389.40	379.62	382.52	382.09	382.77	0.002962	2.41	183.67	143.52	0.58	70.72
Reach 1	25400	0p5-CC-LC_BU				1.91	545.10	379.62	382.84	382.38	383.13	0.003170	2.61	246.24	241.43	0.60	65.42
Reach 1	25350	5_BU				1.79	290.80	379.52	382.12	381.57	382.29	0.002029	2.00	172.48	147.10	0.48	76.05
Reach 1	25350	1_BU				1.79	363.60	379.52	382.33	381.75	382.51	0.002221	2.09	204.77	171.33	0.50	71.58
Reach 1	25350	0p5_BU				1.84	389.40	379.52	382.38	381.82	382.58	0.002281	2.16	214.89	189.97	0.51	71.09
Reach 1	25350	0p5-CC-LC_BU				2.15	545.10	379.52	382.70	382.18	382.93	0.002294	2.40	285.05	248.00	0.52	66.10
Reach 1	25300	5_BU				1.19	290.80	379.41	382.04	381.37	382.15	0.001984	1.49	197.32	174.06	0.44	99.76
Reach 1	25300	1_BU				1.16	363.60	379.41	382.22	381.53	382.35	0.002342	1.59	232.35	209.83	0.47	99.53
Reach 1	25300	0p5_BU				1.18	389.40	379.41	382.27	381.58	382.41	0.002370	1.62	244.26	215.88	0.48	99.46
Reach 1	25300	0p5-CC-LC_BU				1.30	545.10	379.41	382.59	381.83	382.74	0.002415	1.74	321.20	257.64	0.49	99.01
Reach 1	25250	5_BU				1.11	290.80	379.31	381.97	381.24	382.05	0.001627	1.29	228.58	213.12	0.39	99.66
Reach 1	25250	1_BU				1.28	363.60	379.31	382.15	381.45	382.24	0.001565	1.38	267.92	225.28	0.39	99.48
Reach 1	25250	0p5_BU				1.33	389.40	379.31	382.20	381.51	382.30	0.001553	1.41	280.59	226.66	0.39	99.41
Reach 1	25250	0p5-CC-LC_BU				1.64	545.10	379.31	382.52	381.75	382.64	0.001490	1.60	353.35	246.98	0.40	98.93
Reach 1	25169	5_BU				1.09	290.80	379.70	381.71	381.15	381.87	0.003048	1.76	169.38	157.89	0.54	98.48
Reach 1	25169	1_BU				1.18	363.60	379.70	381.88	381.33	382.06	0.003215	1.90	196.77	169.84	0.56	98.32
Reach 1	25169	0p5_BU				1.23	389.40	379.70	381.93	381.38	382.12	0.003211	1.94	205.67	170.74	0.56	98.30
Reach 1	25169	0p5-CC-LC_BU				1.51	545.10	379.70	382.23	381.73	382.47	0.003104	2.18	262.42	210.25	0.57	98.06
Reach 1	25100	5_BU				1.22	290.80	378.81	381.54	381.04	381.68	0.002378	1.66	181.33	213.67	0.48	97.23
Reach 1	25100	1_BU				1.36	363.60	378.81	381.69	381.19	381.86	0.002558	1.85	203.72	217.45	0.51	97.17
Reach 1	25100	0p5_BU				1.41	389.40	378.81	381.74	381.23	381.92	0.002621	1.92	211.01	218.66	0.52	97.15
Reach 1	25100	0p5-CC-LC_BU				1.68	545.10	378.81	382.01	381.46	382.26	0.002880	2.25	252.85	241.99	0.55	97.05
Reach 1	24950	5_BU				0.92	290.80	378.16	380.88	380.71	381.13	0.006355	2.28	138.26	169.65	0.76	95.91
Reach 1	24950	1_BU				1.10	363.60	378.16	381.08	380.85	381.34	0.005190	2.32	173.77	184.29	0.70	94.94
Reach 1	24950	0p5_BU				1.17	389.40	378.16	381.14	380.89	381.41	0.004897	2.33	185.97	189.18	0.69	94.52
Reach 1	24950	0p5-CC-LC_BU				1.50	545.10	378.16	381.49	381.14	381.78	0.003905	2.46	254.63	222.32	0.64	92.54
Reach 1	24800	5_BU				1.60	290.80	377.37	380.57	379.81	380.69	0.001533	1.58	190.15	132.16	0.40	99.04
Reach 1	24800	1_BU				1.79	363.60	377.37	380.77	379.96	380.92	0.001610	1.75	217.69	143.63	0.42	98.68
Reach 1	24800	0p5_BU				1.86	389.40	377.37	380.83	380.02	381.00	0.001632	1.80	227.38	148.82	0.42	98.51
Reach 1	24800	0p5-CC-LC_BU				2.19	545.10	377.37	381.17	380.30	381.39	0.001804	2.11	283.21	185.34	0.46	97.40
Reach 1	24693	5_BU				0.92	290.80	377.15	379.85	379.85	380.31	0.011123	2.99	97.86	109.68	1.00	99.87
Reach 1	24693	1_BU				1.07	363.60	377.15	380.01	380.01	380.53	0.010483	3.20	114.62	110.88	0.99	99.73
Reach 1	24693	0p5_BU				1.12	389.40	377.15	380.06	380.06	380.60	0.010275	3.27	120.40	111.29	0.99	99.69
Reach 1	24693	0p5-CC-LC_BU				1.62	545.10	377.15	380.57	380.34	381.05	0.005620	3.10	186.09	148.90	0.78	98.59
Reach 1	24600	5_BU				2.57	290.80	376.10	379.65	378.04	379.77	0.000770	1.57	186.26	77.20	0.31	99.97
Reach 1	24600	1_BU				2.83	363.60	376.10	379.96	378.27	380.11	0.000840	1.74	211.47	88.64	0.33	99.80
Reach 1	24600	0p5_BU				2.93	389.40	376.10	380.06	378.36	380.22	0.000858	1.80	220.69	98.74	0.34	99.69
Reach 1	24600	0p5-CC-LC_BU				3.45	545.10	376.10	380.58	378.80	380.80	0.000928	2.09	289.35	147.03	0.36	97.60
Reach 1	24500	5_BU				2.32	290.80	375.69	379.51	378.27	379.67	0.001183	1.81	164.43	84.27	0.38	99.25
Reach 1	24500	1_BU				2.58	363.60	375.69	379.81	378.53	380.01	0.001235	1.99	191.77	96.25	0.39	98.30
Reach 1	24500	0p5_BU				2.67	389.40	375.69	379.91	378.60	380.11	0.001249	2.04	201.25	98.49	0.40	97.94
Reach 1	24500	0p5-CC-LC_BU				3.17	545.10	375.69	380.42	379.03	380.69	0.001305	2.34	260.26	136.36	0.42	95.60
Reach 1	24400	5_BU				2.23	290.80	375.71	379.24	378.32	379.51	0.002067	2.32	126.02	63.01	0.50	99.96
Reach 1	24400	1_BU				2.43	363.60	375.71	379.48	378.58	379.82	0.002382	2.60	142.42	69.92	0.53	99.63
Reach 1	24400	0p5_BU				2.49	389.40	375.71	379.56	378.66	379.93	0.002468	2.69	148.04	71.77	0.54	99.47
Reach 1	24400	0p5-CC-LC_BU				2.83	545.10	375.71	379.97	379.12	380.48	0.002913	3.20	178.94	86.26	0.61	98.35
Reach 1	24350	5_BU				2.29	290.80	375.54	379.18	378.09	379.40	0.001817	2.08	141.19	67.13	0.44	99.81
Reach 1	24350	1_BU				2.47	363.60	375.54	379.42	378.34	379.70	0.002122	2.34	158.94	80.82	0.48	99.42
Reach 1	24350	0p5_BU				2.52	389.40	375.54	379.50	378.41	379.80	0.002222	2.42	165.49	87.12	0.49	99.24
Reach 1	24350	0p5-CC-LC_BU				2.91	545.10	375.54	379.91	378.87	380.32	0.002589	2.87	206.77	116.82	0.54	97.66
Reach 1	24300	5_BU				2.20	290.80	375.93	379.12	378.07	379.31	0.001463	1.94	150.46	75.09	0.42	99.92
Reach 1	24300	1_BU				2.39	363.60	375.93	379.35	378.30	379.59	0.001671	2.19	168.53	82.28	0.45	99.67
Reach 1	24300	0p5_BU				2.44	389.40	375.93	379.42	378.37	379.69	0.001741	2.27	174.85	86.53	0.46	99.56
Reach 1	24300	0p5-CC-LC_BU				2.79	545.10	375.93	379.82	378.78	380.19	0.002067	2.70	214.28	111.96	0.52	98.52
Reach 1	24250	5_BU				2.22	290.80	376.30	379.08	377.96	379.23	0.001133	1.72	173.78	92.13	0.37	99.09
Reach 1	24250	1_BU				2.44	363.60	376.30	379.32	378.16	379.50	0.001266	1.94	196.30	101.16	0.40	98.43
Reach 1	24250	0p5_BU				2.52	389.40	376.30	379.39	378.23	379.59	0.001306	2.01	204.05	103.10	0.40	98.16
Reach 1	24250	0p5-CC-LC_BU				2.91	545.10	376.30	379.80	378.61	380.08	0.001516	2.38	252.69	153.48	0.45	96.65
Reach 1	24200	5_BU				1.92	290.80	376.73	379.00	378.13	379.17	0.001491	1.80	166.58	98.16	0.41	98.92
Reach 1	24200	1_BU				2.12	363.60	376.73	379.23	378.31	379.43	0.001603	1.99	189.60	102.93	0.44	98.26
Reach 1	24200	0p5_BU				2.20	389.40	376.73	379.31	378.37	379.52	0.001634	2.06	197.42	106.93	0.44	98.04

HEC-RAS Plan: KR_Jam_46050 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	24200	0p5-CC-LC_BU				2.60	545.10	376.73	379.71	378.74	380.00	0.001771	2.39	247.88	158.75	0.47	96.49
Reach 1	24150	5_BU				1.65	290.80	376.70	378.87	378.23	379.07	0.002248	2.00	147.33	95.95	0.50	99.58
Reach 1	24150	1_BU				1.87	363.60	376.70	379.09	378.42	379.33	0.002312	2.20	168.64	98.94	0.51	99.17
Reach 1	24150	0p5_BU				1.94	389.40	376.70	379.16	378.47	379.42	0.002333	2.26	175.78	101.03	0.52	99.03
Reach 1	24150	0p5-CC-LC_BU				2.32	545.10	376.70	379.55	378.81	379.89	0.002434	2.61	221.21	137.46	0.55	97.90
Reach 1	24100	5_BU				1.73	290.80	376.59	378.75	378.09	378.96	0.002236	2.05	144.33	93.93	0.50	99.46
Reach 1	24100	1_BU				1.93	363.60	376.59	378.96	378.27	379.22	0.002376	2.28	164.09	99.11	0.52	98.87
Reach 1	24100	0p5_BU				2.00	389.40	376.59	379.02	378.33	379.30	0.002420	2.35	170.87	101.93	0.53	98.65
Reach 1	24100	0p5-CC-LC_BU				2.36	545.10	376.59	379.39	378.71	379.76	0.002641	2.75	211.60	130.45	0.57	97.28
Reach 1	24050	5_BU				1.78	290.80	376.51	378.65	377.94	378.85	0.002068	2.02	146.22	154.30	0.48	99.68
Reach 1	24050	1_BU				1.97	363.60	376.51	378.84	378.13	379.10	0.002266	2.26	165.28	165.48	0.51	99.17
Reach 1	24050	0p5_BU				2.04	389.40	376.51	378.91	378.19	379.18	0.002327	2.34	172.02	171.76	0.52	98.96
Reach 1	24050	0p5-CC-LC_BU				2.39	545.10	376.51	379.25	378.55	379.63	0.002608	2.75	211.67	193.18	0.57	97.41
Reach 1	24000	5_BU				1.80	290.80	376.41	378.55	377.83	378.75	0.002004	1.99	146.70	119.15	0.47	99.96
Reach 1	24000	1_BU				1.97	363.60	376.41	378.73	378.00	378.99	0.002282	2.25	163.94	128.24	0.51	99.63
Reach 1	24000	0p5_BU				2.03	389.40	376.41	378.79	378.07	379.07	0.002379	2.34	169.70	133.86	0.53	99.51
Reach 1	24000	0p5-CC-LC_BU				2.32	545.10	376.41	379.10	378.41	379.49	0.002862	2.81	205.24	189.62	0.59	98.42
Reach 1	23950	5_BU				1.70	290.80	376.45	378.45	377.80	378.64	0.002072	1.95	158.09	149.75	0.48	97.52
Reach 1	23950	1_BU				1.86	363.60	376.45	378.63	377.98	378.86	0.002311	2.19	179.52	160.16	0.51	96.43
Reach 1	23950	0p5_BU				1.92	389.40	376.45	378.68	378.05	378.94	0.002393	2.27	186.74	164.37	0.52	96.09
Reach 1	23950	0p5-CC-LC_BU				2.18	545.10	376.45	378.98	378.40	379.33	0.002851	2.70	231.22	220.12	0.58	94.43
Reach 1	23900	5_BU				1.61	290.80	376.38	378.36	377.74	378.53	0.002005	1.86	166.89	160.21	0.47	95.73
Reach 1	23900	1_BU				1.77	363.60	376.38	378.53	377.91	378.74	0.002248	2.10	188.45	181.46	0.50	95.07
Reach 1	23900	0p5_BU				1.83	389.40	376.38	378.58	377.97	378.81	0.002326	2.18	195.91	190.09	0.51	94.79
Reach 1	23900	0p5-CC-LC_BU				2.11	545.10	376.38	378.86	378.26	379.18	0.002716	2.59	246.61	271.43	0.57	93.04
Reach 1	23850	5_BU				1.54	290.80	376.45	378.27	377.67	378.43	0.002019	1.80	172.45	166.51	0.46	94.47
Reach 1	23850	1_BU				1.68	363.60	376.45	378.42	377.82	378.62	0.002297	2.04	193.09	182.82	0.50	93.77
Reach 1	23850	0p5_BU				1.72	389.40	376.45	378.47	377.87	378.68	0.002394	2.12	199.85	195.75	0.51	93.54
Reach 1	23850	0p5-CC-LC_BU				1.94	545.10	376.45	378.72	378.17	379.03	0.002982	2.56	239.04	259.78	0.59	92.87
Reach 1	23800	5_BU				1.38	290.80	376.34	378.14	377.66	378.31	0.002516	1.87	174.23	198.61	0.51	92.85
Reach 1	23800	1_BU				1.52	363.60	376.34	378.28	377.82	378.49	0.002808	2.11	196.86	217.68	0.55	91.67
Reach 1	23800	0p5_BU				1.56	389.40	376.34	378.32	377.87	378.54	0.002911	2.18	204.27	224.19	0.56	91.27
Reach 1	23800	0p5-CC-LC_BU				1.79	545.10	376.34	378.55	378.16	378.86	0.003472	2.61	245.56	274.10	0.62	89.32
Reach 1	23750	5_BU				1.12	290.80	376.43	378.03	377.61	378.15	0.002562	1.63	219.58	253.72	0.49	79.36
Reach 1	23750	1_BU				1.24	363.60	376.43	378.16	377.73	378.30	0.002786	1.82	254.08	272.79	0.52	78.90
Reach 1	23750	0p5_BU				1.28	389.40	376.43	378.21	377.77	378.36	0.002826	1.86	266.18	283.89	0.53	78.31
Reach 1	23750	0p5-CC-LC_BU				1.50	545.10	376.43	378.45	377.98	378.63	0.002976	2.09	342.61	345.85	0.55	74.87
Reach 1	23700	5_BU				0.80	290.80	376.64	377.87	377.52	377.96	0.003627	1.55	241.39	354.52	0.55	60.76
Reach 1	23700	1_BU				0.93	363.60	376.64	378.01	377.62	378.11	0.003284	1.63	293.67	393.12	0.54	60.18
Reach 1	23700	0p5_BU				0.98	389.40	376.64	378.05	377.62	378.16	0.003165	1.65	312.75	409.28	0.53	59.82
Reach 1	23700	0p5-CC-LC_BU				1.23	545.10	376.64	378.32	377.80	378.43	0.002643	1.74	441.03	574.95	0.50	57.32
Reach 1	23650	5_BU				0.83	290.80	376.40	377.63	377.35	377.74	0.003995	1.67	205.68	310.26	0.58	64.76
Reach 1	23650	1_BU				1.00	363.60	376.40	377.81	377.45	377.92	0.003320	1.71	265.26	368.14	0.55	64.64
Reach 1	23650	0p5_BU				1.05	389.40	376.40	377.86	377.47	377.98	0.003181	1.73	286.04	381.40	0.54	64.45
Reach 1	23650	0p5-CC-LC_BU				1.26	545.10	376.40	378.16	377.65	378.28	0.002676	1.77	418.72	516.32	0.50	61.09
Reach 1	23600	5_BU				0.90	290.80	375.86	377.50	377.06	377.58	0.002473	1.40	256.78	345.39	0.47	60.95
Reach 1	23600	1_BU				1.09	363.60	375.86	377.71	377.15	377.78	0.001993	1.42	332.32	384.93	0.44	61.02
Reach 1	23600	0p5_BU				1.14	389.40	375.86	377.77	377.18	377.84	0.001890	1.43	356.60	400.61	0.43	60.62
Reach 1	23600	0p5-CC-LC_BU				1.37	545.10	375.86	378.08	377.35	378.16	0.001638	1.50	495.28	481.55	0.41	58.27
Reach 1	23550	5_BU				0.95	290.80	375.45	377.39	376.96	377.47	0.002199	1.36	236.27	313.11	0.45	65.21
Reach 1	23550	1_BU				1.17	363.60	375.45	377.62	377.06	377.70	0.001695	1.37	316.38	368.59	0.41	65.69
Reach 1	23550	0p5_BU				1.23	389.40	375.45	377.69	377.10	377.77	0.001631	1.39	340.74	380.78	0.40	65.69
Reach 1	23550	0p5-CC-LC_BU				1.44	545.10	375.45	378.01	377.30	378.09	0.001478	1.47	477.28	479.60	0.39	62.85
Reach 1	23500	5_BU				1.07	290.80	375.07	377.31	376.64	377.38	0.001490	1.20	258.58	270.65	0.37	66.74
Reach 1	23500	1_BU				1.27	363.60	375.07	377.56	376.76	377.63	0.001227	1.22	336.85	351.69	0.35	67.14
Reach 1	23500	0p5_BU				1.32	389.40	375.07	377.63	376.80	377.69	0.001196	1.24	361.00	365.19	0.34	66.90
Reach 1	23500	0p5-CC-LC_BU				1.58	545.10	375.07	377.95	377.02	378.03	0.001140	1.36	489.85	444.86	0.35	65.61
Reach 1	23450	5_BU				1.17	290.80	375.14	377.26	376.42	377.32	0.001048	1.11	285.69	265.50	0.33	72.80
Reach 1	23450	1_BU				1.33	363.60	375.14	377.52	376.54	377.57	0.000933	1.13	359.74	316.14	0.31	72.67
Reach 1	23450	0p5_BU				1.38	389.40	375.14	377.58	376.57	377.64	0.000929	1.16	381.57	331.28	0.31	72.77
Reach 1	23450	0p5-CC-LC_BU				1.47	545.10	375.14	377.91	376.80	377.97	0.001052	1.24	505.98	451.06	0.33	70.01
Reach 1	23400	5_BU				1.23	290.80	375.03	377.21	376.39	377.27	0.000989	1.12	281.06	236.58	0.32	71.29
Reach 1	23400	1_BU				1.31	363.60	375.03	377.47	376.50	377.53	0.000962	1.12	347.35	283.55	0.31	70.00
Reach 1	23400	0p5_BU				1.36	389.40	375.03	377.54	376.53	377.60	0.000952	1.15	366.73	291.92	0.31	70.12
Reach 1	23400	0p5-CC-LC_BU				1.49	545.10	375.03	377.85	376.74	377.92	0.001087	1.28	466.33	368.07	0.33	69.07
Reach 1	23300	5_BU				1.32	290.80	374.20	377.06	376.25	377.16	0.001496	1.40	226.97	196.95	0.39	90.18
Reach 1	23300	1_BU				1.17	363.60	374.20	377.33	376.40	377.41	0.001676	1.37	289.93	277.45	0.40	87.64
Reach 1	23300	0p5_BU				1.21	389.40	374.20	377.40	376.45	377.48	0.001615	1.37	310.26	289.05	0.40	87.39
Reach 1	23300	0p5-CC-LC_BU				1.41	545.10	374.20	377.70	376.71	377.80	0.001624	1.52	403.73	343.56	0.41	86.74
Reach 1	23200	5_BU				1.15	290.80	374.25	376.72	376.38	376.92	0.003629	2.01	150.64	143.99	0.60	94.78
Reach 1	23200	1_BU				1.18	363.60	374.25	376.97	376.53	377.17	0.003575	2.02	188.78	178.35	0.59	93.43
Reach 1	23200	0p5_BU				1.12	389.40	374.25	377.04	376.57	377.24	0.003783	2.01	202.83	198.09	0.61	92.66
Reach 1	23200	0p5-CC-LC_BU				1.23	545.10	374.25	377.32	376.86	377.55	0.003921	2.17	265.29	256.30	0.63	91.26
Reach 1	23016	5_BU				1.26	290.80	373.81	376.26		376.39	0.002152	1.63	198.73	222.39	0.46	84.28
Reach 1	23016	1_BU				1.22	363.60	373.81	376.48		376.60	0.002346	1.67	249.67	291.08	0.48	81.90
Reach 1	23016	0p5_BU				1.24	389.40	373.81	376.54		376.66	0.002319	1.67	266.09	307.22	0.48	80.69
Reach 1	23016	0p5-CC-LC_BU				1.43	545.10	373.81	376.85		376.99	0.002114	1.76	356.72	345.38	0.47	76.40
Reach 1	22900	5_BU				1.10	290.80	373.42	375.67		375.97	0.006033	2.49	123.78	154.32	0.76	94.80
Reach 1	22900	1_BU				1.28	363.60	373.42	375.92		376.21	0.004694	2.43	163.09	199.11	0.69	92.00
Reach 1	22900	0p5_BU				1.35	389.40	373.42	376.00		376.28	0.004366	2.43	176.86	213.80	0.67	90.99
Reach 1	22900	0p5-CC-LC_BU				1.32	545.10	373.42	376.37		376.63	0.004288	2.37	266.02	335.41	0.66	83.72
Reach 1	22750	5_BU				1.31	290.80	372.99	375.22		375.38	0.002450	1.78	163.49	126.86	0.50	100.00
Reach 1	22750	1_BU				1.21	363.60	372.99	375.46		375.63	0.002868	1.83	198.58	172.22	0.53	99.99
Reach 1	22750	0p5_BU				1.17	389.40	372.99	375.55		375.72	0.002982	1.83	213.24	192.08	0.54	99.98
Reach 1	22750	0p5-CC-LC_BU				1.20	545.10	372.99	375.92		376.09	0.002921	1.84	299.14	284.67	0.54	99.31
Reach 1	22584	5_BU				1.37	290.80	372.69	374.84		374.99	0.002172	1.73	168.93	131.58	0.47	99.94
Reach 1	22584	1_BU				1.58	363.60	372.69	375.06		375.23	0.002070	1.86	198.65	149.09	0.47	99.65
Reach 1	22584	0p5_BU				1.65	389.40	372.69	375.12		375.31	0.002056	1.91	209.51	173.56	0.47	99.47
Reach 1	22584	0p5-CC-LC_BU				2.00	545.10	372.69	375.48		375.70	0.001967	2.12	288.44	284.11	0.48	95.88
Reach 1	22500	5_BU				1.54	290.80	372.35	374.65		374.82	0.002012	1.80	168.51	128.37	0.46	98.09
Reach 1	22500	1_BU				1.63	363.60	372.35	374.87		375.06	0.002087	1.95	198.45	151.08	0.49	97.15
Reach 1	22500	0p5_BU				1.68	389.40	372.35	374.93		375.13	0.002093	2.00	208.89	158.67	0.49	96.97
Reach 1	22500	0p5-CC-LC_BU				2.01	545.10	372.35	375.27		375.52	0.002177	2.27	266.76	236.70	0.51	94.50
Reach 1	22400	5_BU				1.60	290.80	372.16	374.45		374.62	0.001956	1.84	159.96	109.70	0.46	98.21
Reach 1	22400	1_BU				1.78	363.60	372.16	374.64		374.85	0.002064	2.03	181.74	134.44	0.49	97.21
Reach 1	22400	0p5_BU				1.83	389.40	372.16	374.70		374.92	0.002102	2.09	189.33	139.15	0.49	96.82
Reach 1	22400	0p5-CC-LC_BU				2.12	545.10	372.16	375.02		375.29	0.002234	2.39	247.67	327.51	0.52	92.89

HEC-RAS Plan: KR_Jam_46050 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	22300	5_BU				1.39	290.80	371.96	374.08		374.35	0.003512	2.29	130.66	118.86	0.62	98.51
Reach 1	22300	1_BU				1.49	363.60	371.96	374.23		374.56	0.003870	2.55	150.16	140.76	0.67	97.21
Reach 1	22300	0p5_BU				1.53	389.40	371.96	374.28		374.62	0.003991	2.64	156.95	150.69	0.68	96.69
Reach 1	22300	0p5-CC-LC_BU				1.73	545.10	371.96	374.50	374.36	374.96	0.004706	3.10	196.71	213.04	0.75	93.00
Reach 1	22200	5_BU				1.32	290.80	371.77	373.91		374.04	0.002049	1.67	179.57	183.13	0.46	93.08
Reach 1	22200	1_BU				1.47	363.60	371.77	374.07		374.22	0.002077	1.80	212.09	217.42	0.47	90.09
Reach 1	22200	0p5_BU				1.53	389.40	371.77	374.12		374.28	0.002057	1.83	224.26	231.27	0.47	88.80
Reach 1	22200	0p5-CC-LC_BU				1.79	545.10	371.77	374.38		374.57	0.002019	2.01	296.98	324.53	0.48	81.43
Reach 1	22094	5_BU				1.06	310.30	371.63	373.58		373.75	0.003438	1.84	170.44	201.19	0.57	92.48
Reach 1	22094	1_BU				1.18	389.90	371.63	373.74		373.93	0.003274	1.92	207.80	253.50	0.57	89.39
Reach 1	22094	0p5_BU				1.21	418.50	371.63	373.80		373.99	0.003208	1.95	223.01	266.72	0.56	88.57
Reach 1	22094	0p5-CC-LC_BU				1.29	586.00	371.63	374.08		374.27	0.003085	1.99	305.59	361.49	0.56	80.32
Reach 1	22050	5_BU				0.97	310.30	371.32	373.41		373.58	0.004083	1.89	178.03	217.83	0.61	94.94
Reach 1	22050	1_BU				1.05	389.90	371.32	373.56		373.76	0.004239	2.03	215.09	274.47	0.63	94.47
Reach 1	22050	0p5_BU				1.06	418.50	371.32	373.62		373.83	0.004262	2.04	232.59	299.37	0.63	93.82
Reach 1	22050	0p5-CC-LC_BU				1.11	586.00	371.32	373.87		374.10	0.004632	2.21	316.69	382.68	0.67	91.25
Reach 1	21950	5_BU				0.85	310.30	370.75	372.91		373.10	0.005049	1.92	160.03	239.44	0.67	85.97
Reach 1	21950	1_BU				0.88	389.90	370.75	373.07		373.27	0.005012	1.96	199.41	288.74	0.67	84.72
Reach 1	21950	0p5_BU				0.89	418.50	370.75	373.13		373.32	0.005164	2.00	213.65	309.83	0.68	85.49
Reach 1	21950	0p5-CC-LC_BU				0.96	586.00	370.75	373.39		373.59	0.004627	1.99	301.48	440.28	0.65	81.19
Reach 1	21825	5_BU				0.84	310.30	370.87	372.60		372.72	0.002103	1.23	221.53	313.03	0.43	63.66
Reach 1	21825	1_BU				0.98	389.90	370.87	372.83		372.92	0.001731	1.24	299.33	413.95	0.40	65.74
Reach 1	21825	0p5_BU				1.03	418.50	370.87	372.90		372.98	0.001616	1.24	325.68	444.97	0.39	65.14
Reach 1	21825	0p5-CC-LC_BU				1.13	586.00	370.87	373.22		373.29	0.001320	1.19	499.06	744.61	0.36	60.26
Reach 1	21700	5_BU				1.29	310.30	369.78	372.29		372.44	0.002466	1.78	191.38	187.43	0.50	95.91
Reach 1	21700	1_BU				1.41	389.90	369.78	372.49		372.67	0.002523	1.90	234.40	283.52	0.51	94.63
Reach 1	21700	0p5_BU				1.41	418.50	369.78	372.55		372.74	0.002600	1.94	251.25	322.29	0.52	94.01
Reach 1	21700	0p5-CC-LC_BU				1.56	586.00	369.78	372.86		373.07	0.002682	2.10	353.60	502.07	0.54	90.12
Reach 1	21600	5_BU				1.22	310.30	369.52	372.01		372.18	0.002828	1.84	187.19	236.34	0.53	94.09
Reach 1	21600	1_BU				1.35	389.90	369.52	372.20		372.39	0.002916	2.00	229.11	287.47	0.55	93.78
Reach 1	21600	0p5_BU				1.39	418.50	369.52	372.25		372.45	0.002958	2.05	242.70	302.43	0.55	93.14
Reach 1	21600	0p5-CC-LC_BU				1.57	586.00	369.52	372.51		372.76	0.003205	2.31	320.06	429.72	0.59	89.91
Reach 1	21530	5_BU				1.18	310.30	369.79	371.83		371.97	0.002667	1.74	219.64	303.44	0.51	88.93
Reach 1	21530	1_BU				1.36	389.90	369.79	372.04		372.18	0.002343	1.79	278.36	385.00	0.49	86.18
Reach 1	21530	0p5_BU				1.41	418.50	369.79	372.09		372.24	0.002347	1.83	294.70	401.41	0.49	85.33
Reach 1	21530	0p5-CC-LC_BU				1.64	586.00	369.79	372.34		372.53	0.002545	2.11	388.74	602.41	0.53	82.63
Reach 1	21450	5_BU				1.20	310.30	368.92	371.65		371.77	0.002301	1.62	233.46	306.20	0.47	89.18
Reach 1	21450	1_BU				1.18	389.90	368.92	371.89		372.00	0.002269	1.60	312.16	520.10	0.47	85.75
Reach 1	21450	0p5_BU				1.24	418.50	368.92	371.95		372.06	0.002193	1.62	338.16	567.84	0.46	85.18
Reach 1	21450	0p5-CC-LC_BU				1.51	586.00	368.92	372.21		372.35	0.002047	1.78	486.72	775.07	0.46	81.24
Reach 1	21319	5_BU				1.19	310.30	368.49	371.18		371.39	0.003856	2.07	164.80	194.82	0.61	95.21
Reach 1	21319	1_BU				1.19	389.90	368.49	371.39		371.61	0.004191	2.16	205.28	285.52	0.63	93.43
Reach 1	21319	0p5_BU				1.18	418.50	368.49	371.45		371.68	0.004310	2.18	220.95	319.66	0.64	92.46
Reach 1	21319	0p5-CC-LC_BU				1.26	586.00	368.49	371.71		371.97	0.004657	2.37	299.25	437.61	0.68	89.27
Reach 1	21250	5_BU				1.10	310.30	368.22	370.93		371.12	0.003850	1.99	170.72	221.85	0.61	94.84
Reach 1	21250	1_BU				1.07	389.90	368.22	371.09		371.31	0.004572	2.13	205.36	286.20	0.66	93.86
Reach 1	21250	0p5_BU				1.07	418.50	368.22	371.15		371.37	0.004632	2.15	219.32	306.44	0.66	93.11
Reach 1	21250	0p5-CC-LC_BU				1.26	586.00	368.22	371.38		371.65	0.004609	2.38	285.11	377.02	0.68	90.67
Reach 1	21200	5_BU				0.94	310.30	368.17	370.81		370.93	0.003153	1.63	216.81	298.77	0.54	89.40
Reach 1	21200	1_BU				1.05	389.90	368.17	370.97		371.11	0.003048	1.72	262.42	343.48	0.54	88.21
Reach 1	21200	0p5_BU				1.09	418.50	368.17	371.03		371.17	0.002987	1.75	280.62	362.62	0.53	87.81
Reach 1	21200	0p5-CC-LC_BU				1.31	586.00	368.17	371.29		371.45	0.002816	1.91	371.38	446.07	0.53	85.43
Reach 1	21150	5_BU				0.92	310.30	368.09	370.60		370.76	0.004098	1.82	192.21	282.37	0.61	87.70
Reach 1	21150	1_BU				1.10	389.90	368.09	370.79		370.95	0.003464	1.89	240.27	344.29	0.58	86.52
Reach 1	21150	0p5_BU				1.16	418.50	368.09	370.85		371.01	0.003315	1.92	258.68	362.75	0.57	86.37
Reach 1	21150	0p5-CC-LC_BU				1.43	586.00	368.09	371.12		371.31	0.003021	2.10	347.37	421.30	0.56	83.23
Reach 1	21100	5_BU				1.15	310.30	368.03	370.49	370.02	370.60	0.002359	1.61	226.33	262.21	0.48	79.91
Reach 1	21100	1_BU				1.21	389.90	368.03	370.68	370.16	370.80	0.002353	1.65	277.41	334.20	0.48	77.11
Reach 1	21100	0p5_BU				1.24	418.50	368.03	370.75	370.20	370.87	0.002356	1.67	297.53	362.11	0.48	76.67
Reach 1	21100	0p5-CC-LC_BU				1.48	586.00	368.03	371.03	370.43	371.17	0.002342	1.86	398.48	463.89	0.49	74.91
Reach 1	21050	5_BU				1.26	310.30	367.97	370.29		370.46	0.002929	1.90	191.00	244.56	0.54	86.30
Reach 1	21050	1_BU				1.36	389.90	367.97	370.46		370.65	0.003134	2.06	229.05	290.77	0.56	84.41
Reach 1	21050	0p5_BU				1.30	418.50	367.97	370.52		370.71	0.003356	2.07	246.08	328.46	0.58	82.77
Reach 1	21050	0p5-CC-LC_BU				1.44	586.00	367.97	370.80		371.01	0.003472	2.23	341.07	441.35	0.59	78.51
Reach 1	21000	5_BU				1.23	310.30	367.91	370.19		370.30	0.002106	1.60	242.64	292.99	0.46	81.07
Reach 1	21000	1_BU				1.37	389.90	367.91	370.35		370.48	0.002107	1.73	288.32	370.42	0.47	79.52
Reach 1	21000	0p5_BU				1.42	418.50	367.91	370.40		370.54	0.002119	1.78	305.39	399.39	0.48	78.96
Reach 1	21000	0p5-CC-LC_BU				1.66	586.00	367.91	370.66		370.83	0.002295	2.05	406.13	525.09	0.51	76.54
Reach 1	20950	5_BU				1.27	310.30	367.85	370.14		370.20	0.001320	1.29	324.70	339.35	0.37	62.22
Reach 1	20950	1_BU				1.44	389.90	367.85	370.31		370.38	0.001337	1.41	385.51	413.89	0.38	61.40
Reach 1	20950	0p5_BU				1.49	418.50	367.85	370.36		370.44	0.001392	1.47	405.84	435.02	0.39	61.79
Reach 1	20950	0p5-CC-LC_BU				1.75	586.00	367.85	370.62		370.72	0.001478	1.69	536.22	634.98	0.41	59.35
Reach 1	20892	5_BU				1.23	310.30	367.84	370.01		370.11	0.002201	1.63	264.10	329.26	0.47	66.04
Reach 1	20892	1_BU				1.38	389.90	367.84	370.19		370.29	0.002131	1.73	325.62	413.64	0.47	63.85
Reach 1	20892	0p5_BU				1.43	418.50	367.84	370.23		370.35	0.002154	1.78	346.12	442.75	0.48	63.24
Reach 1	20892	0p5-CC-LC_BU				1.64	586.00	367.84	370.48		370.62	0.002353	2.04	476.62	669.29	0.51	60.79
Reach 1	20850	5_BU				1.13	310.30	367.74	369.95		370.03	0.002144	1.52	286.16	384.64	0.46	57.10
Reach 1	20850	1_BU				1.24	389.90	367.74	370.12		370.21	0.002205	1.64	359.70	475.29	0.47	56.84
Reach 1	20850	0p5_BU				1.29	418.50	367.74	370.17		370.26	0.002203	1.68	383.36	495.73	0.47	56.45
Reach 1	20850	0p5-CC-LC_BU				1.53	586.00	367.74	370.41		370.53	0.002297	1.92	519.67	681.40	0.50	54.79
Reach 1	20800	5_BU				1.22	310.30	367.71	369.79		369.93	0.003000	1.90	211.67	295.68	0.55	67.72
Reach 1	20800	1_BU				1.36	389.90	367.71	369.94		370.10	0.003213	2.10	261.20	388.81	0.58	67.19
Reach 1	20800	0p5_BU				1.40	418.50	367.71	369.98		370.15	0.003246	2.16	279.53	423.21	0.58	66.45
Reach 1	20800	0p5-CC-LC_BU				1.63	586.00	367.71	370.21		370.42	0.003380	2.44	395.24	594.50	0.61	62.34
Reach 1	20750	5_BU				1.18	310.30	367.67	369.71		369.80	0.002367	1.64	298.34	406.09	0.48	53.49
Reach 1	20750	1_BU				1.27	389.90	367.67	369.86		369.96	0.002613	1.82	362.54	477.33	0.51	53.16
Reach 1	20750	0p5_BU				1.30	418.50	367.67	369.91		370.02	0.002620	1.85	386.02	496.13	0.52	52.37
Reach 1	20750	0p5-CC-LC_BU				1.52	586.00	367.67	370.15		370.27	0.002638	2.05	516.91	629.73	0.53	49.31
Reach 1	20700	5_BU				1.17	310.30	367.63	369.57		369.70	0.003350	1.94	247.59	384.21	0.57	59.65
Reach 1	20700	1_BU				1.26	389.90	367.63	369.72		369.86	0.003394	2.06	310.65	461.34	0.59	56.95
Reach 1	20700	0p5_BU				1.30	418.50	367.63	369.77		369.91	0.003365	2.09	333.78	473.09	0.59	56.06
Reach 1	20700	0p5-CC-LC_BU				1.56	586.00	367.63	370.03		370.18	0.003101	2.26	462.57	567.47	0.58	51.70
Reach 1	20650	5_BU				1.13	310.30	367.50	369.47		369.59	0.003096	1.83	238.08	320.70	0.55	57.86
Reach 1	20650	1_BU				1.27	389.90	367.50	369.62		369.75	0.002991	1.95	289.75	365.50	0.55	55.70
Reach 1	20650	0p5_BU				1.32	418.50	367.50	369.67		369.81	0.002981	1.99	308.13	383.88	0.55	55.21
Reach 1	20650	0p5-CC-LC_BU				1.59	586.00	367.50	369.94		370.09	0.002797	2.18	418.60	484.79	0.55	51.62
Reach 1	20600	5_BU				1.12	310.30	367.38	369.38		369.47	0.002352	1.53	250.84	285.89	0.46	67.71
Reach 1	20600	1_BU				1.25	389.90	367.38	369.53		369.64	0.002396	1.64	296.95	328.47	0.47	66.20

HEC-RAS Plan: KR_Jam_46050 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	20600	0p5_BU				1.29	418.50	367.38	369.58		369.70	0.002415	1.69	313.35	348.73	0.47	65.76
Reach 1	20600	0p5-CC-LC_BU				1.51	586.00	367.38	369.85		369.98	0.002425	1.86	420.00	504.18	0.48	62.79
Reach 1	20550	5_BU				1.14	310.30	367.25	369.20		369.34	0.003036	1.81	226.63	325.75	0.54	77.10
Reach 1	20550	1_BU				1.28	389.90	367.25	369.35		369.51	0.003049	1.97	276.23	374.52	0.55	75.12
Reach 1	20550	0p5_BU				1.33	418.50	367.25	369.40		369.56	0.003040	2.01	294.45	391.52	0.56	74.34
Reach 1	20550	0p5-CC-LC_BU				1.59	586.00	367.25	369.66		369.85	0.002903	2.22	418.04	590.28	0.56	70.06
Reach 1	20400	5_BU				0.94	310.30	366.84	368.57		368.76	0.005556	2.16	170.25	229.54	0.71	63.53
Reach 1	20400	1_BU				1.06	389.90	366.84	368.69		368.92	0.005728	2.37	201.33	261.33	0.74	63.13
Reach 1	20400	0p5_BU				1.09	418.50	366.84	368.73		368.97	0.005845	2.45	211.49	271.49	0.75	62.94
Reach 1	20400	0p5-CC-LC_BU				1.30	586.00	366.84	368.95	368.72	369.25	0.006339	2.86	284.26	409.66	0.80	63.17
Reach 1	20221	5_BU				0.91	310.30	365.65	368.04		368.09	0.001942	1.10	336.42	488.26	0.37	56.84
Reach 1	20221	1_BU				1.03	389.90	365.65	368.18		368.24	0.001936	1.18	410.32	586.86	0.37	56.33
Reach 1	20221	0p5_BU				1.07	418.50	365.65	368.23		368.29	0.001896	1.20	439.59	618.86	0.37	55.74
Reach 1	20221	0p5-CC-LC_BU				1.23	586.00	365.65	368.45		368.51	0.002045	1.33	585.41	787.15	0.38	53.24
Reach 1	19763	5_BU				0.88	310.30	364.71	366.75		366.84	0.004562	1.41	236.51	330.42	0.48	91.75
Reach 1	19763	1_BU				0.92	389.90	364.71	366.97		367.05	0.004076	1.31	327.58	505.95	0.44	87.18
Reach 1	19763	0p5_BU				0.91	418.50	364.71	367.05		367.12	0.004019	1.26	372.38	590.30	0.42	85.23
Reach 1	19763	0p5-CC-LC_BU				1.02	586.00	364.71	367.38		367.43	0.003116	1.11	600.04	814.54	0.35	75.78
Reach 1	19335	5_BU				1.35	310.30	363.23	365.56	364.87	365.66	0.001963	1.49	237.40	275.09	0.41	94.40
Reach 1	19335	1_BU				1.44	389.90	363.23	365.72	365.07	365.85	0.002265	1.62	289.65	352.69	0.43	92.01
Reach 1	19335	0p5_BU				1.48	418.50	363.23	365.78	365.11	365.91	0.002361	1.66	308.71	384.43	0.44	91.44
Reach 1	19335	0p5-CC-LC_BU				1.43	586.00	363.23	366.11	365.35	366.23	0.003271	1.64	487.32	709.56	0.44	80.73
Reach 1	19009	5_BU				0.64	310.30	362.65	364.93	364.42	364.99	0.002114	1.07	296.34	498.95	0.43	99.54
Reach 1	19009	1_BU				0.68	389.90	362.65	365.06	364.53	365.12	0.002120	1.10	366.57	606.34	0.43	99.06
Reach 1	19009	0p5_BU				0.69	418.50	362.65	365.09	364.57	365.16	0.002157	1.11	389.60	639.56	0.43	98.89
Reach 1	19009	0p5-CC-LC_BU				0.79	586.00	362.65	365.28	364.80	365.35	0.002247	1.19	523.19	793.28	0.43	97.63
Reach 1	18575	5_BU				0.63	310.30	361.28	363.68	363.15	363.73	0.004237	1.00	318.76	567.80	0.40	96.79
Reach 1	18575	1_BU				0.68	389.90	361.28	363.82	363.27	363.87	0.004058	0.98	412.11	715.80	0.38	95.68
Reach 1	18575	0p5_BU				0.70	418.50	361.28	363.87	363.31	363.92	0.003946	0.99	443.08	748.03	0.38	95.26
Reach 1	18575	0p5-CC-LC_BU				0.83	586.00	361.28	364.06	363.53	364.11	0.003706	1.05	601.50	931.18	0.37	93.44
Reach 1	18123	5_BU				1.07	310.30	360.36	362.21	361.82	362.32	0.002875	1.69	238.94	334.97	0.52	66.31
Reach 1	18123	1_BU				1.14	389.90	360.36	362.34	361.97	362.46	0.003046	1.81	287.24	396.99	0.54	63.78
Reach 1	18123	0p5_BU				1.13	418.50	360.36	362.39	362.00	362.51	0.003118	1.83	307.15	428.45	0.55	62.49
Reach 1	18123	0p5-CC-LC_BU				1.20	586.00	360.36	362.63	362.22	362.76	0.003193	1.92	442.24	660.85	0.56	58.26
Reach 1	18000	5_BU				0.99	310.30	359.91	361.94	361.48	362.01	0.002860	1.49	296.38	463.08	0.48	49.86
Reach 1	18000	1_BU				1.12	389.90	359.91	362.09	361.68	362.16	0.002638	1.55	367.14	498.75	0.47	47.49
Reach 1	18000	0p5_BU				1.15	418.50	359.91	362.14	361.71	362.21	0.002596	1.57	392.10	526.92	0.47	46.67
Reach 1	18000	0p5-CC-LC_BU				1.10	586.00	359.91	362.40	361.85	362.47	0.002556	1.52	544.36	669.25	0.46	40.46
Reach 1	17900	5_BU				0.95	310.30	359.66	361.67	361.24	361.77	0.003020	1.58	242.42	360.65	0.52	53.91
Reach 1	17900	1_BU				1.08	389.90	359.66	361.84	361.35	361.94	0.002870	1.67	305.84	417.39	0.51	53.27
Reach 1	17900	0p5_BU				1.12	418.50	359.66	361.89	361.43	361.99	0.002853	1.70	327.50	443.60	0.51	53.00
Reach 1	17900	0p5-CC-LC_BU				1.24	586.00	359.66	362.13	361.64	362.25	0.002933	1.83	452.37	582.85	0.53	50.21
Reach 1	17850	5_BU				1.00	310.30	359.56	361.56	361.04	361.65	0.002775	1.59	258.96	344.65	0.51	59.90
Reach 1	17850	1_BU				1.15	389.90	359.56	361.71	361.20	361.82	0.002745	1.73	317.12	402.50	0.52	60.30
Reach 1	17850	0p5_BU				1.19	418.50	359.56	361.76	361.29	361.87	0.002723	1.77	337.42	423.61	0.52	59.92
Reach 1	17850	0p5-CC-LC_BU				1.39	586.00	359.56	361.99	361.50	362.13	0.002816	2.02	448.18	561.09	0.54	57.93
Reach 1	17800	5_BU				1.13	310.30	359.59	361.43	360.93	361.52	0.002534	1.65	276.88	396.20	0.50	58.23
Reach 1	17800	1_BU				1.15	389.90	359.59	361.60	361.11	361.69	0.002519	1.66	356.33	528.23	0.50	54.08
Reach 1	17800	0p5_BU				1.17	418.50	359.59	361.65	361.15	361.74	0.002531	1.69	384.12	556.48	0.50	53.46
Reach 1	17800	0p5-CC-LC_BU				1.38	586.00	359.59	361.89	361.41	361.99	0.002390	1.83	529.28	665.52	0.50	50.10
Reach 1	17750	5_BU				1.16	310.30	359.63	361.22	360.84	361.36	0.003583	1.96	222.48	326.95	0.58	56.67
Reach 1	17750	1_BU				1.27	389.90	359.63	361.38	361.01	361.52	0.003565	2.07	281.34	437.95	0.58	54.20
Reach 1	17750	0p5_BU				1.31	418.50	359.63	361.43	361.06	361.58	0.003552	2.09	304.56	470.02	0.58	53.26
Reach 1	17750	0p5-CC-LC_BU				1.51	586.00	359.63	361.68	361.30	361.83	0.003461	2.25	435.21	607.39	0.58	48.71
Reach 1	17700	5_BU				1.16	310.30	359.33	361.01	360.56	361.13	0.002672	1.73	232.84	346.60	0.51	60.72
Reach 1	17700	1_BU				1.29	389.90	359.33	361.17	360.69	361.29	0.002695	1.86	293.22	448.97	0.52	59.04
Reach 1	17700	0p5_BU				1.34	418.50	359.33	361.22	360.73	361.34	0.002673	1.90	316.70	487.24	0.52	58.16
Reach 1	17700	0p5-CC-LC_BU				1.58	586.00	359.33	361.46	360.96	361.60	0.002646	2.10	448.63	625.66	0.54	54.33
Reach 1	17650	5_BU				1.00	310.30	359.01	360.74	360.23	360.81	0.002061	1.39	277.45	397.42	0.44	55.45
Reach 1	17650	1_BU				1.15	389.90	359.01	360.89	360.35	360.97	0.001979	1.48	347.26	497.90	0.44	54.45
Reach 1	17650	0p5_BU				1.20	418.50	359.01	360.94	360.40	361.02	0.001964	1.51	373.11	529.22	0.44	54.10
Reach 1	17650	0p5-CC-LC_BU				1.41	586.00	359.01	361.17	360.60	361.26	0.002015	1.69	506.96	647.48	0.46	51.56
Reach 1	17600	5_BU				0.90	310.30	358.88	360.60	360.06	360.68	0.002311	1.35	252.03	368.78	0.46	40.29
Reach 1	17600	1_BU				0.97	389.90	358.88	360.76	360.20	360.84	0.002348	1.44	324.30	507.47	0.47	40.71
Reach 1	17600	0p5_BU				1.00	418.50	358.88	360.82	360.24	360.89	0.002333	1.45	352.39	547.99	0.47	40.51
Reach 1	17600	0p5-CC-LC_BU				1.22	586.00	358.88	361.04	360.50	361.13	0.002394	1.68	489.68	672.99	0.49	40.96
Reach 1	17574	5_BU				0.81	310.30	358.84	360.54	360.01	360.61	0.002531	1.31	263.32	416.15	0.47	37.02
Reach 1	17574	1_BU				0.90	389.90	358.84	360.70	360.16	360.77	0.002419	1.38	342.01	516.65	0.46	37.61
Reach 1	17574	0p5_BU				0.93	418.50	358.84	360.76	360.21	360.83	0.002404	1.40	370.27	551.83	0.47	37.87
Reach 1	17574	0p5-CC-LC_BU				1.12	586.00	358.84	360.98	360.47	361.06	0.002421	1.60	502.67	635.09	0.48	38.40
Reach 1	17500	5_BU				0.61	310.30	358.91	360.39	359.88	360.44	0.001799	0.93	310.55	507.82	0.38	26.18
Reach 1	17500	1_BU				0.75	389.90	358.91	360.58	360.01	360.62	0.001497	0.98	422.96	672.17	0.36	29.10
Reach 1	17500	0p5_BU				0.80	418.50	358.91	360.63	360.05	360.68	0.001550	1.04	458.49	710.02	0.37	30.65
Reach 1	17500	0p5-CC-LC_BU				1.03	586.00	358.91	360.87	360.28	360.91	0.001413	1.16	645.66	870.45	0.37	31.75
Reach 1	17450	5_BU				0.79	310.30	359.04	360.34	359.76	360.40	0.001853	1.11	310.59	532.63	0.40	23.84
Reach 1	17450	1_BU				0.97	389.90	359.04	360.53	359.87	360.58	0.001538	1.16	428.40	668.01	0.38	24.81
Reach 1	17450	0p5_BU				1.02	418.50	359.04	360.58	359.91	360.63	0.001499	1.18	462.84	705.97	0.37	24.77
Reach 1	17450	0p5-CC-LC_BU				1.25	586.00	359.04	360.82	360.18	360.87	0.001376	1.30	650.73	862.50	0.37	23.97
Reach 1	17350	5_BU				0.83	310.30	358.05	360.04	359.63	360.21	0.003855	1.51	182.52	224.25	0.53	36.48
Reach 1	17350	1_BU				0.79	389.90	358.05	360.27	359.83	360.42	0.003758	1.47	250.01	405.70	0.53	36.92
Reach 1	17350	0p5_BU				0.80	418.50	358.05	360.34	359.90	360.48	0.003538	1.44	284.05	490.19	0.52	37.23
Reach 1	17350	0p5-CC-LC_BU				0.96	586.00	358.05	360.65	360.32	360.74	0.002816	1.46	487.11	805.07	0.48	38.71
Reach 1	17200	5_BU				0.90	310.30	357.76	359.56	359.23	359.81	0.006161	2.00	148.21	156.56	0.67	45.45
Reach 1	17200	1_BU				1.08	389.90	357.76	359.81	359.38	360.05	0.005085	2.04	191.80	197.05	0.63	47.81
Reach 1	17200	0p5_BU				1.15	418.50	357.76	359.88	359.48	360.13	0.004868	2.07	207.68	236.80	0.62	48.42
Reach 1	17200	0p5-CC-LC_BU				1.53	586.00	357.76	360.27	359.87	360.46	0.003839	2.20	356.12	541.25	0.57	49.03
Reach 1	17050	5_BU				2.08	310.30	356.29	359.31	358.29	359.46	0.001286	1.73	195.75	168.81	0.38	98.42
Reach 1	17050	1_BU				2.28	389.90	356.29	359.52	358.49	359.70	0.001441	1.93	244.64	284.64	0.41	96.30
Reach 1	17050	0p5_BU				2.34	418.50	356.29	359.59	358.56	359.78	0.001482	1.99	264.96	326.43	0.42	95.22
Reach 1	17050	0p5-CC-LC_BU				2.67	586.00	356.29	359.92	358.91	360.15	0.001595	2.25	408.12	557.30	0.44	87.84
Reach 1	16812	5_BU				1.29	310.30	354.74	358.79	358.37	359.00	0.003176	2.03	164.67	172.46	0.57	97.13
Reach 1	16812	1_BU				1.44	389.90	354.74	358.98	358.54	359.22	0.003193	2.21	199.14	203.94	0.59	96.17
Reach 1	16812	0p5_BU				1.50	418.50	354.74	359.04	358.59	359.29	0.003192	2.26	211.79	219.23	0.59	95.61
Reach 1	16812	0p5-CC-LC_BU				1.80	586.00	354.74	359.33	358.94	359.64	0.003263	2.55	288.64	290.27	0.61	92.15
Reach 1	16285	5_BU				1.29	310.30	354.72	357.31	356.83	357.47	0.002544	1.79	186.03	178.06	0.50	96.89
Reach 1	16285	1_BU				1.47	389.90	354.72	357.49	357.00	357.68	0.002533	1.95	219.80	195.26	0.51	95.47
Reach 1	16285	0p5_BU				1.53	418.50	354.72	357.55	357.05	357.75	0.002503	1.99	233.03	213.33	0.51	95.03
Reach 1	16285	0p5-CC-LC_BU				1.89	586.00	354.72	357.91	357.31	358.13	0.002260	2.18	330.56	349.48	0.51	91.31

HEC-RAS Plan: KR_Jam_46050 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	15937	5_BU				1.15	310.30	353.96	356.55	355.99	356.66	0.001993	1.48	213.08	196.51	0.44	99.64
Reach 1	15937	1_BU				1.32	389.90	353.96	356.79	356.15	356.91	0.001754	1.52	262.73	218.22	0.42	99.27
Reach 1	15937	0p5_BU				1.37	418.50	353.96	356.88	356.19	356.99	0.001694	1.53	282.03	231.75	0.42	99.11
Reach 1	15937	0p5-CC-LC_BU				1.53	586.00	353.96	357.31	356.41	357.43	0.001506	1.55	401.68	322.50	0.40	97.68
Reach 1	15657	5_BU				1.80	310.30	352.57	355.89	355.16	356.09	0.002009	2.00	156.62	94.77	0.48	99.89
Reach 1	15657	1_BU				1.98	389.90	352.57	356.08	355.35	356.34	0.002275	2.26	176.12	114.07	0.51	99.71
Reach 1	15657	0p5_BU				2.05	418.50	352.57	356.15	355.42	356.43	0.002331	2.34	184.40	123.76	0.52	99.58
Reach 1	15657	0p5-CC-LC_BU				2.33	586.00	352.57	356.43	355.77	356.84	0.002921	2.86	226.94	196.65	0.60	98.51
Reach 1	15073	5_BU				1.03	310.30	351.49	354.04	353.78	354.29	0.005298	2.22	139.94	136.15	0.70	100.00
Reach 1	15073	1_BU				1.17	389.90	351.49	354.31	353.94	354.55	0.004314	2.18	178.93	153.78	0.64	99.97
Reach 1	15073	0p5_BU				1.18	418.50	351.49	354.41	353.99	354.64	0.004107	2.15	195.11	165.66	0.63	99.95
Reach 1	15073	0p5-CC-LC_BU				1.50	586.00	351.49	354.93	354.28	355.14	0.002695	2.04	288.09	193.33	0.53	99.86
Reach 1	14797	5_BU				1.93	310.30	350.08	353.33	352.47	353.51	0.001652	1.88	164.99	85.46	0.43	100.00
Reach 1	14797	1_BU				2.20	389.90	350.08	353.63	352.66	353.85	0.001641	2.04	190.74	86.57	0.44	100.00
Reach 1	14797	0p5_BU				2.29	418.50	350.08	353.73	352.73	353.96	0.001638	2.10	199.49	86.94	0.44	100.00
Reach 1	14797	0p5-CC-LC_BU				2.79	586.00	350.08	354.27	353.09	354.56	0.001665	2.38	246.59	88.73	0.45	100.00
Reach 1	14088	5_BU				1.84	320.00	349.51	352.07	351.30	352.26	0.001887	1.96	163.20	156.19	0.46	99.97
Reach 1	14088	1_BU				2.02	403.00	349.51	352.25	351.51	352.51	0.002188	2.25	179.49	159.65	0.51	99.92
Reach 1	14088	0p5_BU				2.08	433.00	349.51	352.31	351.57	352.59	0.002293	2.35	184.87	161.17	0.52	99.90
Reach 1	14088	0p5-CC-LC_BU				2.38	606.20	349.51	352.61	351.92	353.03	0.002826	2.86	213.11	193.90	0.59	99.75
Reach 1	14004	5_BU				1.34	320.00	349.38	351.76	351.47	352.00	0.003720	2.24	154.58	406.98	0.62	92.14
Reach 1	14004	1_BU				1.49	403.00	349.38	351.91	351.64	352.20	0.003913	2.47	177.25	423.28	0.64	89.75
Reach 1	14004	0p5_BU				1.55	433.00	349.38	351.96	351.70	352.27	0.003966	2.54	185.01	430.68	0.65	89.02
Reach 1	14004	0p5-CC-LC_BU				1.83	606.20	349.38	352.25	351.96	352.64	0.004070	2.88	228.44	498.77	0.68	85.56
Reach 1	13755	5_BU				1.05	320.00	347.42	350.84	350.38	350.98	0.003002	1.70	188.76	474.85	0.53	64.78
Reach 1	13755	1_BU				1.24	403.00	347.42	351.03	350.54	351.19	0.002746	1.81	226.33	538.97	0.52	64.86
Reach 1	13755	0p5_BU				1.30	433.00	347.42	351.09	350.60	351.26	0.002685	1.85	239.27	563.02	0.52	64.75
Reach 1	13755	0p5-CC-LC_BU				1.55	606.20	347.42	351.35	350.85	351.56	0.002842	2.14	299.78	633.83	0.55	64.09
Reach 1	13404	5_BU				1.57	320.00	346.33	349.21	349.07	349.66	0.005546	3.02	115.39	194.73	0.77	94.39
Reach 1	13404	1_BU				1.74	403.00	346.33	349.40	349.33	349.91	0.005810	3.30	137.39	221.46	0.80	91.30
Reach 1	13404	0p5_BU				1.79	433.00	346.33	349.45	349.38	349.99	0.005889	3.39	145.42	228.79	0.81	90.21
Reach 1	13404	0p5-CC-LC_BU				2.16	606.20	346.33	349.83	349.83	350.36	0.004970	3.53	215.55	338.32	0.77	81.10
Reach 1	13209	5_BU				1.59	320.00	345.37	348.73	348.16	348.91	0.002341	1.98	180.57	298.16	0.50	85.41
Reach 1	13209	1_BU				1.81	403.00	345.37	348.95	348.37	349.15	0.002256	2.11	215.61	311.89	0.50	82.40
Reach 1	13209	0p5_BU				1.88	433.00	345.37	349.01	348.43	349.22	0.002251	2.16	226.31	313.19	0.50	81.27
Reach 1	13209	0p5-CC-LC_BU				2.20	606.20	345.37	349.34	348.74	349.60	0.002308	2.43	279.56	329.02	0.52	76.65
Reach 1	13100	5_BU				1.53	320.00	345.58	348.43	347.89	348.63	0.002530	2.01	167.58	550.93	0.52	98.07
Reach 1	13100	1_BU				1.77	403.00	345.58	348.67	348.07	348.89	0.002289	2.11	209.49	615.83	0.51	94.73
Reach 1	13100	0p5_BU				1.83	433.00	345.58	348.74	348.14	348.96	0.002283	2.16	221.36	629.43	0.51	93.59
Reach 1	13100	0p5-CC-LC_BU				2.15	606.20	345.58	349.06	348.54	349.33	0.002344	2.44	279.88	723.48	0.53	88.46
Reach 1	13000	5_BU				1.26	320.00	345.10	347.52	347.52	348.15	0.009954	3.51	91.13	184.47	1.00	100.00
Reach 1	13000	1_BU				1.10	403.00	345.10	347.92	347.92	348.45	0.009925	3.20	126.89	334.53	0.98	99.70
Reach 1	13000	0p5_BU				1.13	433.00	345.10	347.98	347.98	348.52	0.009856	3.26	134.58	348.55	0.98	99.52
Reach 1	13000	0p5-CC-LC_BU				1.39	606.20	345.10	348.30	348.30	348.91	0.008577	3.49	179.40	435.98	0.94	97.90
Reach 1	12950	5_BU				1.56	320.00	344.85	347.63	346.40	347.70	0.000835	1.17	272.75	503.53	0.30	100.00
Reach 1	12950	1_BU				1.66	403.00	344.85	347.80	346.56	347.89	0.000973	1.32	305.77	538.18	0.33	99.98
Reach 1	12950	0p5_BU				1.71	433.00	344.85	347.86	346.62	347.96	0.001003	1.37	317.47	549.79	0.33	99.94
Reach 1	12950	0p5-CC-LC_BU				1.96	606.20	344.85	348.13	346.89	348.27	0.001205	1.64	378.37	663.55	0.37	99.25
Reach 1	12887	5_BU				1.05	320.00	344.53	347.45	346.95	347.60	0.003024	1.71	188.96	348.90	0.53	99.38
Reach 1	12887	1_BU				1.12	403.00	344.53	347.61	347.12	347.78	0.003235	1.85	220.56	373.70	0.56	98.99
Reach 1	12887	0p5_BU				1.12	433.00	344.53	347.67	347.17	347.85	0.003372	1.88	232.13	386.49	0.57	98.84
Reach 1	12887	0p5-CC-LC_BU				1.30	606.20	344.53	347.91	347.47	348.14	0.003542	2.14	290.23	441.36	0.60	98.40
Reach 1	12850	5_BU				0.76	320.00	344.40	347.00	347.00	347.38	0.011768	2.72	117.56	295.82	1.00	100.00
Reach 1	12850	1_BU				0.80	403.00	344.40	347.16	347.16	347.56	0.011472	2.79	144.67	346.12	0.99	99.99
Reach 1	12850	0p5_BU				0.82	433.00	344.40	347.21	347.21	347.62	0.011356	2.81	154.13	358.77	0.99	99.99
Reach 1	12850	0p5-CC-LC_BU				1.09	606.20	344.40	347.72	347.45	347.98	0.005000	2.27	269.33	498.23	0.69	99.76
Reach 1	12800	5_BU				1.13	320.00	343.70	346.67	346.29	346.89	0.003993	2.07	154.86	251.95	0.62	99.97
Reach 1	12800	1_BU				1.28	403.00	343.70	347.03	346.45	347.20	0.002820	1.89	224.02	434.02	0.53	97.70
Reach 1	12800	0p5_BU				1.35	433.00	343.70	347.15	346.51	347.31	0.002411	1.81	257.43	471.65	0.50	96.01
Reach 1	12800	0p5-CC-LC_BU				1.75	606.20	343.70	347.71	346.89	347.83	0.001281	1.57	438.76	681.63	0.38	86.22
Reach 1	12735	5_BU				2.19	320.00	340.98	346.75	344.02	346.79	0.000263	0.82	402.63	365.39	0.18	98.81
Reach 1	12735	1_BU				2.47	403.00	340.98	347.09	344.27	347.12	0.000252	0.87	499.59	441.45	0.18	96.04
Reach 1	12735	0p5_BU				2.58	433.00	340.98	347.20	344.35	347.24	0.000243	0.89	536.95	473.84	0.18	94.89
Reach 1	12735	0p5-CC-LC_BU				3.12	606.20	340.98	347.73	344.85	347.78	0.000223	0.96	722.68	586.00	0.17	88.70
Reach 1	12700	5_BU				2.13	320.00	342.78	346.71	345.06	346.77	0.000501	1.12	324.08	394.09	0.24	90.32
Reach 1	12700	1_BU				2.41	403.00	342.78	347.05	345.27	347.11	0.000448	1.15	413.64	483.39	0.24	85.30
Reach 1	12700	0p5_BU				2.51	433.00	342.78	347.17	345.35	347.23	0.000421	1.14	448.20	502.05	0.23	83.11
Reach 1	12700	0p5-CC-LC_BU				3.04	606.20	342.78	347.70	345.79	347.76	0.000363	1.21	622.72	670.36	0.22	75.88
Reach 1	12650	5_BU				2.32	320.00	342.92	346.64	345.22	346.74	0.000753	1.45	252.50	325.79	0.30	87.31
Reach 1	12650	1_BU				2.63	403.00	342.92	346.97	345.47	347.07	0.000695	1.51	309.47	403.37	0.30	82.88
Reach 1	12650	0p5_BU				2.75	433.00	342.92	347.09	345.57	347.19	0.000691	1.55	332.99	441.04	0.30	82.55
Reach 1	12650	0p5-CC-LC_BU				3.28	606.20	342.92	347.62	346.15	347.73	0.000608	1.64	479.16	631.62	0.29	74.44
Reach 1	12600	5_BU				2.36	320.00	342.87	346.55	345.54	346.68	0.001093	1.76	208.72	234.29	0.37	73.79
Reach 1	12600	1_BU				2.61	403.00	342.87	346.88	345.81	347.02	0.001060	1.85	251.57	323.60	0.37	70.31
Reach 1	12600	0p5_BU				2.73	433.00	342.87	346.99	345.88	347.14	0.001026	1.87	269.15	380.40	0.36	69.28
Reach 1	12600	0p5-CC-LC_BU				3.26	606.20	342.87	347.53	346.23	347.68	0.000949	2.03	405.92	672.93	0.36	64.17
Reach 1	12550	5_BU				2.22	320.00	343.00	346.54	345.29	346.63	0.000725	1.38	273.46	527.51	0.30	81.65
Reach 1	12550	1_BU				2.56	403.00	343.00	346.88	345.65	346.96	0.000605	1.39	369.71	661.56	0.28	75.28
Reach 1	12550	0p5_BU				2.69	433.00	343.00	347.01	345.75	347.08	0.000549	1.37	412.02	715.94	0.27	72.24
Reach 1	12550	0p5-CC-LC_BU				3.24	606.20	343.00	347.56	346.12	347.63	0.000408	1.34	637.26	878.19	0.24	60.83
Reach 1	12500	5_BU				1.42	320.00	343.14	346.46	345.73	346.57	0.001454	1.46	229.44	387.16	0.39	98.48
Reach 1	12500	1_BU				1.75	403.00	343.14	346.81	345.90	346.92	0.001097	1.45	296.87	431.74	0.35	97.33
Reach 1	12500	0p5_BU				1.87	433.00	343.14	346.93	345.95	347.04	0.001007	1.46	326.27	500.79	0.34	97.19
Reach 1	12500	0p5-CC-LC_BU				2.43	606.20	343.14	347.49	346.20	347.59	0.000702	1.45	595.49	952.06	0.30	89.77
Reach 1	12436	5_BU				1.61	320.00	343.08	345.50	345.50	346.31	0.009314	3.97	81.44	159.70	1.00	99.85
Reach 1	12436	1_BU				1.92	403.00	343.08	345.82	345.82	346.69	0.008060	4.16	100.94	189.19	0.96	99.10
Reach 1	12436	0p5_BU				2.01	433.00	343.08	345.90	345.90	346.82	0.007976	4.26	106.77	192.24	0.96	98.80
Reach 1	12436	0p5-CC-LC_BU				2.73	606.20	343.08	346.62	346.62	347.43	0.004947	4.12	180.63	349.80	0.79	92.64
Reach 1	12300	5_BU				1.78	320.00	342.78	345.33	344.60	345.53	0.002035	2.00	179.61	385.48	0.48	96.16
Reach 1	12300	1_BU				1.99	403.00	342.78	345.56	344.84	345.79	0.002081	2.18	216.40	427.85	0.49	93.92
Reach 1	12300	0p5_BU				2.07	433.00	342.78	345.63	344.92	345.87	0.002104	2.24	228.89	446.49	0.50	93.18
Reach 1	12300	0p5-CC-LC_BU				2.41	606.20	342.78	345.97	345.33	346.28	0.002280	2.58	297.98	508.88	0.53	89.32
Reach 1	11788	5_BU				1.50	320.00	342.07	344.28	343.70	344.43	0.002150	1.82	189.03	494.22	0.48	86.94
Reach 1	11788	1_BU				1.62	403.00	342.07	344.49	343.86	344.66	0.002202	1.95	229.44	547.83	0.49	84.21
Reach 1	11788	0p5_BU				1.67	433.00	342.07	344.56	343.91	344.74	0.002202	1.99	244.34	563.24	0.49	83.35
Reach 1	11788	0p5-CC-LC_BU				2.00	606.20	342.07	344.92	344.21	345.12	0.002044	2.16	352.36	733.30	0.49	79.07
Reach 1	11514	5_BU				1.15	320.00	340.85	343.20	342.96	343.52	0.005754	2.52	128.50	248.30	0.75	99.68

HEC-RAS Plan: KR_Jam_46050 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	11514	1_BU				1.36	403.00	340.85	343.42	343.16	343.78	0.005136	2.66	154.38	314.65	0.73	99.50
Reach 1	11514	0p5_BU				1.45	433.00	340.85	343.51	343.22	343.87	0.004825	2.68	165.34	351.59	0.71	99.39
Reach 1	11514	0p5-CC-LC_BU				1.78	606.20	340.85	343.85	343.51	344.31	0.004636	3.01	212.99	435.24	0.72	98.71
Reach 1	11034	5_BU				1.76	320.00	338.63	342.19		342.31	0.001320	1.59	209.27	299.51	0.38	94.76
Reach 1	11034	1_BU				1.93	403.00	338.63	342.47		342.61	0.001325	1.69	251.35	377.96	0.39	93.19
Reach 1	11034	0p5_BU				1.98	433.00	338.63	342.56		342.71	0.001354	1.75	268.42	405.64	0.40	93.69
Reach 1	11034	0p5-CC-LC_BU				2.26	606.20	338.63	342.98		343.15	0.001355	1.90	360.09	514.44	0.40	89.06
Reach 1	10544	5_BU				1.58	320.00	337.82	341.05		341.33	0.003273	2.34	141.82	282.87	0.59	99.16
Reach 1	10544	1_BU				1.78	403.00	337.82	341.26		341.60	0.003387	2.57	172.41	350.27	0.62	98.37
Reach 1	10544	0p5_BU				1.84	433.00	337.82	341.34		341.69	0.003379	2.63	185.52	373.13	0.62	97.77
Reach 1	10544	0p5-CC-LC_BU				2.20	606.20	337.82	341.71	341.25	342.12	0.003315	2.93	271.67	504.87	0.63	93.42
Reach 1	9771	5_BU				1.38	320.00	336.80	339.07		339.22	0.002221	1.77	189.58	510.56	0.48	97.49
Reach 1	9771	1_BU				1.55	403.00	336.80	339.26		339.45	0.002237	1.92	223.17	623.30	0.49	96.22
Reach 1	9771	0p5_BU				1.60	433.00	336.80	339.32		339.51	0.002286	1.98	233.28	646.96	0.50	95.80
Reach 1	9771	0p5-CC-LC_BU				1.88	606.20	336.80	339.60		339.85	0.002519	2.31	288.66	741.62	0.54	93.50
Reach 1	8903	5_BU				1.72	320.00	333.65	336.76		337.04	0.003232	2.44	148.51	322.20	0.60	85.53
Reach 1	8903	1_BU				1.92	403.00	333.65	337.00		337.30	0.003173	2.61	184.71	433.04	0.60	82.48
Reach 1	8903	0p5_BU				1.98	433.00	333.65	337.08		337.38	0.003097	2.63	200.13	459.69	0.60	80.85
Reach 1	8903	0p5-CC-LC_BU				2.30	606.20	333.65	337.45		337.77	0.002871	2.80	281.96	539.53	0.59	73.03
Reach 1	8300	5_BU				1.67	320.00	332.67	335.37		335.54	0.001933	1.87	190.29	318.02	0.46	95.51
Reach 1	8300	1_BU				1.88	403.00	332.67	335.59		335.80	0.001993	2.05	228.56	385.20	0.48	94.26
Reach 1	8300	0p5_BU				1.95	433.00	332.67	335.67		335.89	0.002032	2.12	243.02	414.95	0.48	94.36
Reach 1	8300	0p5-CC-LC_BU				2.26	606.20	332.67	336.02		336.29	0.002172	2.42	337.32	603.59	0.51	90.96
Reach 1	7514	5_BU				1.32	320.00	330.29	332.85		333.20	0.005065	2.66	128.63	313.89	0.74	96.68
Reach 1	7514	1_BU				1.51	403.00	330.29	333.08		333.47	0.004723	2.82	154.62	334.68	0.73	96.09
Reach 1	7514	0p5_BU				1.60	433.00	330.29	333.17		333.57	0.004548	2.86	165.75	356.64	0.72	95.82
Reach 1	7514	0p5-CC-LC_BU				2.02	606.20	330.29	333.61	333.21	334.05	0.003875	3.03	252.49	501.78	0.68	92.72
Reach 1	6800	5_BU				2.02	320.00	327.67	330.75		330.99	0.002035	2.16	147.90	172.09	0.49	100.00
Reach 1	6800	1_BU				2.33	403.00	327.67	331.06		331.34	0.001996	2.35	171.92	243.05	0.49	99.91
Reach 1	6800	0p5_BU				2.41	433.00	327.67	331.15		331.45	0.002033	2.44	178.94	252.79	0.50	99.83
Reach 1	6800	0p5-CC-LC_BU				2.93	606.20	327.67	331.67		332.06	0.002055	2.79	221.65	291.32	0.52	99.07
Reach 1	6650	5_BU				1.60	320.00	327.66	330.43		330.64	0.002467	2.03	158.71	302.71	0.51	99.89
Reach 1	6650	1_BU				1.57	403.00	327.66	330.77		330.99	0.002542	2.05	199.90	354.43	0.52	99.73
Reach 1	6650	0p5_BU				1.69	433.00	327.66	330.89		331.10	0.002334	2.05	214.63	358.43	0.50	99.68
Reach 1	6650	0p5-CC-LC_BU				2.32	606.20	327.66	331.52		331.74	0.001561	2.08	301.19	407.70	0.44	99.31
Reach 1	6563	5_BU				1.40	320.00	327.63	330.23		330.41	0.002627	1.93	176.49	189.07	0.52	97.70
Reach 1	6563	1_BU				1.72	403.00	327.63	330.61		330.79	0.001910	1.89	227.44	208.58	0.46	97.52
Reach 1	6563	0p5_BU				1.85	433.00	327.63	330.74		330.91	0.001737	1.89	244.99	217.47	0.44	97.49
Reach 1	6563	0p5-CC-LC_BU				2.54	606.20	327.63	331.43		331.61	0.001173	1.92	341.61	284.75	0.38	97.24
Reach 1	6400	5_BU				2.29	320.00	325.72	329.86		330.05	0.001947	1.92	166.92	132.56	0.40	100.00
Reach 1	6400	1_BU				2.65	403.00	325.72	330.26		330.47	0.001901	2.06	196.05	146.94	0.40	100.00
Reach 1	6400	0p5_BU				2.77	433.00	325.72	330.39		330.61	0.001896	2.10	205.88	153.61	0.40	100.00
Reach 1	6400	0p5-CC-LC_BU				3.39	606.20	325.72	331.09		331.37	0.001858	2.35	258.58	287.63	0.41	100.00
Reach 1	6300	5_BU				2.38	320.00	325.66	329.61		329.86	0.001694	2.21	145.14	95.39	0.46	100.00
Reach 1	6300	1_BU				2.77	403.00	325.66	330.00		330.29	0.001625	2.39	169.14	102.40	0.46	99.95
Reach 1	6300	0p5_BU				2.89	433.00	325.66	330.12		330.43	0.001614	2.45	177.16	105.93	0.46	99.92
Reach 1	6300	0p5-CC-LC_BU				3.56	606.20	325.66	330.79		331.18	0.001569	2.78	222.80	173.04	0.47	99.49
Reach 1	6200	5_BU				2.36	320.00	325.60	329.47		329.68	0.001592	2.04	157.10	139.61	0.42	100.00
Reach 1	6200	1_BU				2.72	403.00	325.60	329.87		330.12	0.001557	2.19	183.94	158.25	0.42	100.00
Reach 1	6200	0p5_BU				2.85	433.00	325.60	330.00		330.26	0.001536	2.25	193.11	171.60	0.42	99.98
Reach 1	6200	0p5-CC-LC_BU				3.54	606.20	325.60	330.69		331.01	0.001451	2.52	248.46	264.26	0.43	99.50
Reach 1	6150	5_BU				2.57	320.00	325.56	329.35		329.60	0.001556	2.22	144.41	104.58	0.44	100.00
Reach 1	6150	1_BU				2.91	403.00	325.56	329.73		330.03	0.001591	2.43	165.98	108.70	0.45	100.00
Reach 1	6150	0p5_BU				3.03	433.00	325.56	329.86		330.17	0.001598	2.50	173.24	110.26	0.46	99.99
Reach 1	6150	0p5-CC-LC_BU				3.68	606.20	325.56	330.50		330.92	0.001635	2.88	212.09	130.38	0.48	99.77
Reach 1	6100	5_BU				2.48	320.00	325.53	329.25		329.52	0.001771	2.31	138.70	83.86	0.47	100.00
Reach 1	6100	1_BU				2.81	403.00	325.53	329.62		329.95	0.001798	2.52	159.92	95.73	0.48	100.00
Reach 1	6100	0p5_BU				2.93	433.00	325.53	329.75		330.09	0.001800	2.59	167.02	103.57	0.48	100.00
Reach 1	6100	0p5-CC-LC_BU				3.57	606.20	325.53	330.39		330.84	0.001821	2.98	204.72	173.34	0.50	99.88
Reach 1	6050	5_BU				2.52	320.00	325.50	329.18		329.43	0.001591	2.21	144.84	126.35	0.44	100.00
Reach 1	6050	1_BU				2.90	403.00	325.50	329.55		329.85	0.001582	2.42	167.03	135.47	0.45	99.95
Reach 1	6050	0p5_BU				3.02	433.00	325.50	329.68		330.00	0.001586	2.49	174.48	138.46	0.46	99.92
Reach 1	6050	0p5-CC-LC_BU				3.66	606.20	325.50	330.32		330.74	0.001626	2.87	213.65	153.50	0.48	99.68
Reach 1	6000	5_BU				2.45	320.00	325.48	329.06		329.34	0.001814	2.32	138.05	100.17	0.47	100.00
Reach 1	6000	1_BU				2.78	403.00	325.48	329.44		329.76	0.001928	2.53	159.14	127.11	0.48	100.00
Reach 1	6000	0p5_BU				2.90	433.00	325.48	329.56		329.90	0.001974	2.61	166.24	129.90	0.49	99.99
Reach 1	6000	0p5-CC-LC_BU				3.52	606.20	325.48	330.19		330.65	0.002059	2.99	203.93	147.08	0.51	99.82
Reach 1	5950	5_BU				2.38	320.00	325.47	328.93		329.24	0.002133	2.47	129.81	72.91	0.51	100.00
Reach 1	5950	1_BU				2.69	403.00	325.47	329.28		329.65	0.002283	2.70	149.50	87.64	0.52	100.00
Reach 1	5950	0p5_BU				2.81	433.00	325.47	329.40		329.79	0.002293	2.78	156.05	89.09	0.53	100.00
Reach 1	5950	0p5-CC-LC_BU				3.42	606.20	325.47	330.01		330.53	0.002322	3.19	191.29	103.34	0.55	99.90
Reach 1	5900	5_BU				2.34	320.00	325.42	328.83		329.13	0.002117	2.43	131.43	88.62	0.51	100.00
Reach 1	5900	1_BU				2.69	403.00	325.42	329.18		329.54	0.002107	2.66	151.51	113.13	0.52	99.98
Reach 1	5900	0p5_BU				2.81	433.00	325.42	329.30		329.68	0.002108	2.74	158.30	114.20	0.52	99.95
Reach 1	5900	0p5-CC-LC_BU				3.43	606.20	325.42	329.91		330.42	0.002127	3.14	194.50	124.30	0.54	99.71
Reach 1	5850	5_BU				2.21	320.00	325.40	328.54		328.98	0.003336	2.94	108.82	69.00	0.63	100.00
Reach 1	5850	1_BU				2.49	403.00	325.40	328.86		329.39	0.003472	3.24	124.38	73.42	0.66	100.00
Reach 1	5850	0p5_BU				2.59	433.00	325.40	328.96		329.53	0.003510	3.34	129.50	77.94	0.66	99.99
Reach 1	5850	0p5-CC-LC_BU				3.11	606.20	325.40	329.48		330.25	0.003735	3.90	156.20	110.07	0.71	99.89
Reach 1	5800	5_BU				2.17	320.00	325.36	328.42		328.81	0.003002	2.76	116.10	102.42	0.60	100.00
Reach 1	5800	1_BU				2.46	403.00	325.36	328.74		329.21	0.003064	3.02	133.40	111.65	0.62	100.00
Reach 1	5800	0p5_BU				2.55	433.00	325.36	328.85		329.34	0.003095	3.11	139.13	119.28	0.62	99.99
Reach 1	5800	0p5-CC-LC_BU				3.08	606.20	325.36	329.38		330.04	0.003221	3.60	169.15	158.82	0.66	99.94
Reach 1	5750	5_BU				2.12	320.00	325.34	328.25		328.65	0.003181	2.80	114.16	159.30	0.61	100.00
Reach 1	5750	1_BU				2.39	403.00	325.34	328.57		329.05	0.003270	3.07	131.16	168.35	0.63	100.00
Reach 1	5750	0p5_BU				2.49	433.00	325.34	328.67		329.18	0.003301	3.17	136.76	171.04	0.64	100.00
Reach 1	5750	0p5-CC-LC_BU				3.01	606.20	325.34	329.20		329.88	0.003400	3.65	166.79	193.07	0.67	99.87
Reach 1	5724	5_BU				2.16	320.00	325.30	328.22		328.56	0.002684	2.60	123.18	81.33	0.56	100.00
Reach 1	5724	1_BU				2.46	403.00	325.30	328.54		328.95	0.002717	2.85	141.55	111.38	0.58	99.99
Reach 1	5724	0p5_BU				2.56	433.00	325.30	328.64		329.08	0.002735	2.94	147.59	124.27	0.59	99.98
Reach 1	5724	0p5-CC-LC_BU				3.10	606.20	325.30	329.18		329.77	0.002825	3.39	179.66	172.58	0.61	99.85
Reach 1	5650	5_BU				2.10	320.00	325.13	327.97		328.35	0.003057	2.73	117.18	81.77	0.60	100.00
Reach 1	5650	1_BU				2.37	403.00	325.13	328.27		328.73	0.003157	3.00	134.28	85.55	0.62	100.00
Reach 1	5650	0p5_BU				2.47	433.00	325.13	328.37		328.86	0.003183	3.10	139.88	93.37	0.63	100.00
Reach 1	5650	0p5-CC-LC_BU				2.98	606.20	325.13	328.88		329.54	0.003342	3.59	169.41	135.41	0.66	99.88
Reach 1	5550	5_BU				1.98	320.00	324.87	327.59		328.01	0.003607	2.85	112.09	71.61	0.65	100.00
Reach 1	5550	1_BU				2.23	403.00	324.87	327.88		328.38	0.003749	3.14	128.17	86.49	0.67	100.00
Reach 1	5550	0p5_BU				2.32	433.00	324.87	327.97		328.50	0.003799	3.25	133.42	90.24	0.68	99.99

HEC-RAS Plan: KR_Jam_46050 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	5550	0p5-CC-LC_BU				2.76	606.20	324.87	328.41		329.15	0.004132	3.81	159.57	112.47	0.73	99.93
Reach 1	5400	5_BU				1.93	320.00	324.48	327.24		327.52	0.002514	2.34	136.52	109.54	0.54	100.00
Reach 1	5400	1_BU				2.17	403.00	324.48	327.53		327.87	0.002556	2.56	157.68	118.37	0.55	100.00
Reach 1	5400	0p5_BU				2.25	433.00	324.48	327.63		327.98	0.002574	2.63	164.68	121.11	0.56	100.00
Reach 1	5400	0p5-CC-LC_BU				2.68	606.20	324.48	328.10		328.57	0.002710	3.03	200.13	133.57	0.59	99.95
Reach 1	5200	5_BU				2.14	320.00	323.95	326.96		327.13	0.001346	1.84	174.18	147.28	0.40	100.00
Reach 1	5200	1_BU				2.38	403.00	323.95	327.24		327.45	0.001437	2.04	197.79	158.87	0.42	100.00
Reach 1	5200	0p5_BU				2.46	433.00	323.95	327.33		327.56	0.001473	2.11	205.48	161.95	0.43	100.00
Reach 1	5200	0p5-CC-LC_BU				2.86	606.20	323.95	327.79		328.10	0.001671	2.48	244.14	180.17	0.47	100.00
Reach 1	4950	5_BU				1.74	320.00	323.31	326.48		326.70	0.002239	2.06	167.42	179.76	0.50	98.31
Reach 1	4950	1_BU				1.86	403.00	323.31	326.74		326.99	0.002395	2.23	197.79	228.08	0.52	97.76
Reach 1	4950	0p5_BU				1.92	433.00	323.31	326.83		327.09	0.002417	2.29	208.52	243.88	0.53	97.61
Reach 1	4950	0p5-CC-LC_BU				2.33	606.20	323.31	327.28		327.61	0.002374	2.57	271.12	340.15	0.54	96.92
Reach 1	4694	5_BU				1.61	320.00	322.84	326.02		326.17	0.001753	1.73	191.54	371.95	0.44	99.55
Reach 1	4694	1_BU				1.89	403.00	322.84	326.30		326.47	0.001612	1.84	230.30	393.36	0.43	99.03
Reach 1	4694	0p5_BU				1.98	433.00	322.84	326.40		326.58	0.001574	1.88	243.58	397.53	0.43	98.85
Reach 1	4694	0p5-CC-LC_BU				2.48	606.20	322.84	326.90		327.11	0.001433	2.09	315.21	433.58	0.42	97.91
Reach 1	4150	5_BU				1.93	320.00	322.29	324.97		325.17	0.001922	1.99	160.79	187.71	0.46	100.00
Reach 1	4150	1_BU				2.15	403.00	322.29	325.20		325.46	0.002150	2.24	180.21	208.64	0.49	100.00
Reach 1	4150	0p5_BU				2.23	433.00	322.29	325.28		325.55	0.002239	2.32	186.43	221.04	0.50	100.00
Reach 1	4150	0p5-CC-LC_BU				2.59	606.20	322.29	325.65		326.05	0.002716	2.78	218.13	251.44	0.55	99.99
Reach 1	3843	5_BU				1.08	320.00	322.07	323.61	323.54	324.05	0.008683	2.95	108.45	175.59	0.91	100.00
Reach 1	3843	1_BU				1.29	403.00	322.07	323.84	323.71	324.32	0.007441	3.07	131.42	179.92	0.86	100.00
Reach 1	3843	0p5_BU				1.37	433.00	322.07	323.92		324.41	0.006974	3.09	140.13	181.35	0.84	99.99
Reach 1	3843	0p5-CC-LC_BU				1.82	606.20	322.07	324.41		324.93	0.005028	3.17	191.67	190.38	0.75	99.88
Reach 1	3700	5_BU				1.43	320.00	320.95	323.51		323.60	0.001117	1.28	250.48	236.57	0.34	100.00
Reach 1	3700	1_BU				1.73	403.00	320.95	323.81		323.90	0.000943	1.33	302.94	251.63	0.32	100.00
Reach 1	3700	0p5_BU				1.83	433.00	320.95	323.92		324.01	0.000895	1.35	321.25	260.23	0.32	100.00
Reach 1	3700	0p5-CC-LC_BU				2.40	606.20	320.95	324.48		324.59	0.000721	1.45	420.26	288.09	0.30	99.95
Reach 1	3600	5_BU				1.60	320.00	320.47	323.08		323.39	0.003779	2.49	138.75	171.33	0.63	98.27
Reach 1	3600	1_BU				1.90	403.00	320.47	323.38		323.72	0.003346	2.62	168.55	179.59	0.61	97.56
Reach 1	3600	0p5_BU				2.00	433.00	320.47	323.48		323.83	0.003239	2.67	178.79	182.01	0.60	97.37
Reach 1	3600	0p5-CC-LC_BU				2.53	606.20	320.47	324.01		324.43	0.002842	2.93	233.97	199.34	0.59	96.31
Reach 1	3500	5_BU				2.02	320.00	320.12	322.84		323.08	0.002241	2.18	149.01	144.00	0.49	99.80
Reach 1	3500	1_BU				2.32	403.00	320.12	323.15		323.43	0.002216	2.37	173.88	151.87	0.50	99.59
Reach 1	3500	0p5_BU				2.42	433.00	320.12	323.25		323.55	0.002210	2.44	182.62	155.28	0.50	99.49
Reach 1	3500	0p5-CC-LC_BU				2.95	606.20	320.12	323.78		324.17	0.002188	2.77	237.82	215.92	0.52	98.61
Reach 1	3450	5_BU				1.96	320.00	319.97	322.62		322.94	0.003189	2.55	140.03	170.62	0.58	96.55
Reach 1	3450	1_BU				2.24	403.00	319.97	322.94		323.30	0.003111	2.70	170.26	196.02	0.58	94.74
Reach 1	3450	0p5_BU				2.34	433.00	319.97	323.05		323.41	0.003095	2.75	180.66	205.57	0.58	94.17
Reach 1	3450	0p5-CC-LC_BU				2.87	606.20	319.97	323.60		324.04	0.002903	3.04	240.27	255.50	0.57	91.90
Reach 1	3400	5_BU				1.86	320.00	319.80	322.38		322.76	0.003795	2.75	116.90	78.31	0.64	99.97
Reach 1	3400	1_BU				2.10	403.00	319.80	322.65		323.11	0.003970	3.00	135.61	84.04	0.66	99.82
Reach 1	3400	0p5_BU				2.19	433.00	319.80	322.74		323.23	0.003983	3.09	142.01	85.47	0.67	99.75
Reach 1	3400	0p5-CC-LC_BU				2.67	606.20	319.80	323.22		323.85	0.003994	3.53	177.99	100.85	0.69	99.23
Reach 1	3350	5_BU				1.88	320.00	319.64	322.25		322.57	0.003199	2.53	128.75	92.65	0.59	99.49
Reach 1	3350	1_BU				2.14	403.00	319.64	322.52		322.91	0.003298	2.77	148.61	96.70	0.61	99.39
Reach 1	3350	0p5_BU				2.23	433.00	319.64	322.61		323.03	0.003325	2.85	155.59	97.68	0.61	99.30
Reach 1	3350	0p5-CC-LC_BU				2.69	606.20	319.64	323.11		323.64	0.003421	3.25	193.88	107.25	0.63	98.79
Reach 1	3300	5_BU				1.74	320.00	319.48	321.96		322.38	0.004342	2.87	121.38	98.84	0.70	98.22
Reach 1	3300	1_BU				1.98	403.00	319.48	322.24		322.72	0.004236	3.09	145.48	104.84	0.70	97.46
Reach 1	3300	0p5_BU				2.06	433.00	319.48	322.34		322.83	0.004198	3.16	154.07	107.06	0.70	97.22
Reach 1	3300	0p5-CC-LC_BU				2.55	606.20	319.48	322.86		323.45	0.003851	3.48	203.86	121.37	0.70	96.06
Reach 1	3275	5_BU				1.47	320.00	319.45	321.68	321.54	322.23	0.007153	3.29	97.17	147.83	0.87	100.00
Reach 1	3275	1_BU				1.71	403.00	319.45	321.95	321.77	322.57	0.007017	3.49	115.43	155.14	0.85	100.00
Reach 1	3275	0p5_BU				1.79	433.00	319.45	322.04		322.69	0.006939	3.56	121.71	157.82	0.85	100.00
Reach 1	3275	0p5-CC-LC_BU				2.26	606.20	319.45	322.56		323.32	0.006449	3.85	157.41	167.42	0.82	100.00
Reach 1	3250	5_BU				1.54	320.00	319.30	321.58		322.12	0.002874	3.24	98.77	123.23	0.83	100.00
Reach 1	3250	1_BU				1.79	403.00	319.30	321.85		322.46	0.002706	3.46	116.38	141.36	0.83	100.00
Reach 1	3250	0p5_BU				1.87	433.00	319.30	321.95		322.58	0.002659	3.54	122.43	144.71	0.83	100.00
Reach 1	3250	0p5-CC-LC_BU				2.34	606.20	319.30	322.45		323.22	0.002410	3.90	155.49	151.00	0.81	100.00
Reach 1	3150	5_BU				1.97	320.00	318.88	321.59		321.87	0.001096	2.35	136.08	104.96	0.54	100.00
Reach 1	3150	1_BU				2.21	403.00	318.88	321.87		322.21	0.001131	2.58	156.06	108.66	0.55	100.00
Reach 1	3150	0p5_BU				2.30	433.00	318.88	321.97		322.33	0.001140	2.66	162.96	109.94	0.56	100.00
Reach 1	3150	0p5-CC-LC_BU				2.83	606.20	318.88	322.50		322.97	0.001114	3.02	201.41	119.42	0.57	99.91
Reach 1	3037	5_BU				2.40	320.00	318.40	321.50		321.76	0.000852	2.26	144.36	81.27	0.46	99.56
Reach 1	3037	1_BU				2.67	403.00	318.40	321.77		322.09	0.000955	2.55	162.16	88.18	0.50	99.24
Reach 1	3037	0p5_BU				2.77	433.00	318.40	321.86		322.21	0.000987	2.64	168.33	91.25	0.51	99.12
Reach 1	3037	0p5-CC-LC_BU				3.26	606.20	318.40	322.35		322.84	0.001122	3.12	202.41	104.55	0.55	98.41
Reach 1	2965	5_BU				2.44	320.00	318.25	321.43	320.38	321.70	0.000798	2.27	141.01	57.82	0.46	100.00
Reach 1	2965	1_BU				2.66	403.00	318.25	321.68	320.65	322.02	0.000965	2.59	155.47	58.53	0.51	100.00
Reach 1	2965	0p5_BU				2.74	433.00	318.25	321.77	320.75	322.14	0.001019	2.70	160.40	58.76	0.52	100.00
Reach 1	2965	0p5-CC-LC_BU				3.18	606.20	318.25	322.21	321.21	322.75	0.001215	3.25	186.98	61.92	0.58	99.98
Reach 1	2946		Bridge														
Reach 1	2919	5_BU				3.35	320.00	317.23	321.47		321.60	0.000212	1.60	200.61	61.77	0.28	99.93
Reach 1	2919	1_BU				3.61	403.00	317.23	321.73		321.90	0.000263	1.87	216.55	62.76	0.31	99.86
Reach 1	2919	0p5_BU				3.70	433.00	317.23	321.81		322.01	0.000280	1.96	222.00	63.13	0.33	99.82
Reach 1	2919	0p5-CC-LC_BU				4.16	606.20	317.23	322.28		322.58	0.000368	2.43	251.87	65.06	0.38	99.56
Reach 1	2850	5_BU				2.57	320.00	318.15	321.36		321.56	0.000543	1.96	163.05	63.56	0.39	100.00
Reach 1	2850	1_BU				2.79	403.00	318.15	321.59		321.85	0.000651	2.27	177.64	64.72	0.43	99.99
Reach 1	2850	0p5_BU				2.86	433.00	318.15	321.66		321.95	0.000687	2.37	182.57	64.87	0.45	99.98
Reach 1	2850	0p5-CC-LC_BU				3.27	606.20	318.15	322.07		322.50	0.000865	2.91	209.02	67.68	0.51	99.90
Reach 1	2800	5_BU				2.23	320.00	317.92	321.34		321.53	0.000642	1.95	186.71	110.81	0.42	97.48
Reach 1	2800	1_BU				2.40	403.00	317.92	321.57		321.81	0.000725	2.20	213.00	114.44	0.45	96.61
Reach 1	2800	0p5_BU				2.47	433.00	317.92	321.65		321.91	0.000751	2.28	222.19	117.36	0.46	96.36
Reach 1	2800	0p5-CC-LC_BU				2.85	606.20	317.92	322.08		322.43	0.000843	2.68	277.17	137.53	0.51	95.16
Reach 1	2770	5_BU				2.07	320.00	317.84	321.29		321.50	0.000792	2.06	165.40	97.03	0.46	98.99
Reach 1	2770	1_BU				2.25	403.00	317.84	321.51		321.78	0.000907	2.33	187.13	99.11	0.50	98.47
Reach 1	2770	0p5_BU				2.32	433.00	317.84	321.58		321.88	0.000940	2.42	194.59	101.02	0.51	98.30
Reach 1	2770	0p5-CC-LC_BU				2.63	606.20	317.84	322.00		322.40	0.001076	2.83	238.00	117.28	0.56	97.44
Reach 1	2750	5_BU				1.91	320.00	318.03	321.25		321.48	0.000939	2.13	150.03	78.47	0.49	100.00
Reach 1	2750	1_BU				2.09	403.00	318.03	321.46		321.76	0.001073	2.42	166.68	79.72	0.53	100.00
Reach 1	2750	0p5_BU				2.15	433.00	318.03	321.53		321.85	0.001114	2.51	172.32	80.00	0.55	100.00
Reach 1	2750	0p5-CC-LC_BU				2.49	606.20	318.03	321.92		322.37	0.001287	2.98	203.85	86.28	0.60	99.99
Reach 1	2700	5_BU				1.68	320.00	318.39	321.21		321.43	0.001072	2.10	152.62	90.75	0.52	100.00
Reach 1	2700	1_BU				1.87	403.00	318.39	321.42		321.70	0.001161	2.34	171.97	92.86	0.55	100.00
Reach 1	2700	0p5_BU				1.94	433.00	318.39	321.49		321.79	0.001186	2.42	178.60	94.20	0.56	100.00

HEC-RAS Plan: KR_Jam_46050 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	2700	0p5-CC-LC_BU				2.34	606.20	318.39	321.89		322.29	0.001245	2.81	215.72	98.83	0.59	99.97
Reach 1	2666	5_BU				1.53	320.00	318.64	321.11		321.38	0.001479	2.31	138.40	90.37	0.60	100.00
Reach 1	2666	1_BU				1.72	403.00	318.64	321.31		321.65	0.001586	2.58	156.22	91.07	0.63	100.00
Reach 1	2666	0p5_BU				1.78	433.00	318.64	321.37		321.74	0.001618	2.67	162.30	91.28	0.64	100.00
Reach 1	2666	0p5-CC-LC_BU				2.14	606.20	318.64	321.76		322.24	0.001679	3.07	197.36	93.08	0.67	100.00
Reach 1	2650	5_BU				1.53	320.00	318.67	321.06		321.36	0.001610	2.41	133.00	94.44	0.62	99.94
Reach 1	2650	1_BU				1.71	403.00	318.67	321.24		321.62	0.001756	2.71	149.44	98.47	0.66	99.81
Reach 1	2650	0p5_BU				1.77	433.00	318.67	321.30		321.71	0.001799	2.81	155.04	99.35	0.67	99.76
Reach 1	2650	0p5-CC-LC_BU				2.13	606.20	318.67	321.66		322.20	0.001892	3.26	187.85	104.90	0.71	99.39
Reach 1	2600	5_BU				1.42	320.00	318.85	321.00		321.27	0.001619	2.31	138.88	129.85	0.62	99.97
Reach 1	2600	1_BU				1.60	403.00	318.85	321.18		321.52	0.001715	2.57	157.21	135.19	0.65	99.92
Reach 1	2600	0p5_BU				1.66	433.00	318.85	321.24		321.60	0.001742	2.65	163.50	136.29	0.66	99.90
Reach 1	2600	0p5-CC-LC_BU				2.04	606.20	318.85	321.62		322.09	0.001716	3.02	201.47	155.84	0.68	99.78
Reach 1	2563	5_BU				1.29	320.00	319.01	320.89		321.20	0.002065	2.44	131.10	102.05	0.69	100.00
Reach 1	2563	1_BU				1.46	403.00	319.01	321.07		321.44	0.002151	2.70	149.22	118.27	0.71	100.00
Reach 1	2563	0p5_BU				1.52	433.00	319.01	321.13		321.53	0.002172	2.78	155.52	122.83	0.72	100.00
Reach 1	2563	0p5-CC-LC_BU				1.91	606.20	319.01	321.54		322.02	0.001948	3.07	197.28	139.18	0.71	99.99
Reach 1	2550	5_BU				1.31	320.00	318.95	320.87		321.17	0.002010	2.43	131.47	127.32	0.68	100.00
Reach 1	2550	1_BU				1.48	403.00	318.95	321.04		321.42	0.002101	2.70	149.12	138.36	0.71	99.99
Reach 1	2550	0p5_BU				1.54	433.00	318.95	321.10		321.50	0.002126	2.79	155.19	142.01	0.72	99.98
Reach 1	2550	0p5-CC-LC_BU				1.95	606.20	318.95	321.51		321.99	0.001914	3.09	196.56	167.31	0.71	99.85
Reach 1	2500	5_BU				1.32	320.00	318.86	320.77		321.07	0.001957	2.42	133.30	104.85	0.67	99.32
Reach 1	2500	1_BU				1.49	403.00	318.86	320.94		321.31	0.002062	2.69	151.14	107.71	0.70	99.03
Reach 1	2500	0p5_BU				1.55	433.00	318.86	321.00		321.39	0.002088	2.78	157.34	109.91	0.71	98.94
Reach 1	2500	0p5-CC-LC_BU				1.98	606.20	318.86	321.43		321.89	0.001792	3.03	202.81	149.69	0.69	98.32
Reach 1	2464	5_BU				1.24	328.00	318.82	320.67		320.99	0.002313	2.51	130.68	110.84	0.72	100.00
Reach 1	2464	1_BU				1.37	413.80	318.82	320.81		321.22	0.002572	2.84	145.77	116.59	0.77	99.99
Reach 1	2464	0p5_BU				1.42	445.00	318.82	320.86		321.30	0.002671	2.96	150.64	116.89	0.79	99.98
Reach 1	2464	0p5-CC-LC_BU				1.89	623.00	318.82	321.34		321.82	0.001970	3.07	203.43	135.25	0.71	99.87
Reach 1	2400	5_BU				1.14	328.00	318.95	320.55		320.83	0.002306	2.33	141.19	126.37	0.70	99.99
Reach 1	2400	1_BU				1.27	413.80	318.95	320.69		321.04	0.002575	2.62	158.57	128.45	0.74	99.94
Reach 1	2400	0p5_BU				1.31	445.00	318.95	320.73		321.11	0.002682	2.72	164.09	129.28	0.76	99.93
Reach 1	2400	0p5-CC-LC_BU				1.91	623.00	318.95	321.33		321.67	0.001575	2.60	254.36	196.55	0.60	99.07
Reach 1	2369	5_BU				0.89	328.00	318.74	320.39	320.30	320.73	0.004225	2.59	127.60	151.30	0.88	99.93
Reach 1	2369	1_BU				1.07	413.80	318.74	320.57	320.45	320.94	0.003674	2.70	155.79	154.57	0.83	99.74
Reach 1	2369	0p5_BU				1.12	445.00	318.74	320.62	320.50	321.01	0.003663	2.77	163.62	155.96	0.84	99.68
Reach 1	2369	0p5-CC-LC_BU				1.83	623.00	318.74	321.33		321.60	0.001444	2.35	288.26	232.45	0.55	98.29
Reach 1	2350	5_BU				1.05	328.00	318.43	320.41		320.64	0.002315	2.13	160.16	160.38	0.66	98.83
Reach 1	2350	1_BU				1.14	413.80	318.43	320.60		320.85	0.002258	2.25	192.84	177.23	0.67	98.50
Reach 1	2350	0p5_BU				1.20	445.00	318.43	320.65		320.92	0.002244	2.30	202.65	177.99	0.67	98.42
Reach 1	2350	0p5-CC-LC_BU				1.90	623.00	318.43	321.36		321.56	0.000959	1.99	353.43	293.10	0.46	96.83
Reach 1	2300	5_BU				1.07	328.00	317.71	320.35		320.51	0.001803	1.78	190.75	187.27	0.55	98.75
Reach 1	2300	1_BU				1.27	413.80	317.71	320.56		320.74	0.001575	1.88	229.25	189.69	0.53	98.52
Reach 1	2300	0p5_BU				1.32	445.00	317.71	320.61		320.80	0.001565	1.94	240.20	190.41	0.54	98.46
Reach 1	2300	0p5-CC-LC_BU				2.06	623.00	317.71	321.36		321.50	0.000662	1.71	414.82	331.33	0.38	97.12
Reach 1	2254	5_BU				1.04	328.00	317.67	319.85	319.85	320.34	0.006168	3.11	109.28	153.24	0.98	99.31
Reach 1	2254	1_BU				1.09	413.80	317.67	320.05	320.05	320.57	0.006361	3.23	134.33	170.39	0.99	98.65
Reach 1	2254	0p5_BU				1.16	445.00	317.67	320.19	320.11	320.65	0.005326	3.06	153.80	180.77	0.91	98.20
Reach 1	2254	0p5-CC-LC_BU				1.90	623.00	317.67	321.30		321.46	0.000982	1.87	416.87	429.81	0.43	93.75
Reach 1	2200	5_BU				0.98	328.00	317.45	319.53	319.54	320.04	0.004941	3.16	103.90	107.93	1.02	99.98
Reach 1	2200	1_BU				1.19	413.80	317.45	319.79	319.72	320.29	0.003839	3.14	132.83	114.78	0.92	99.89
Reach 1	2200	0p5_BU				1.42	445.00	317.45	320.06		320.44	0.002362	2.74	164.60	137.26	0.74	99.78
Reach 1	2200	0p5-CC-LC_BU				1.90	623.00	317.45	321.28		321.41	0.000590	1.64	485.88	444.60	0.38	93.84
Reach 1	2168	5_BU				0.81	328.00	317.62	319.29	319.38	319.85	0.007107	3.32	99.35	130.50	1.18	99.92
Reach 1	2168	1_BU				1.28	413.80	317.62	319.84		320.14	0.002056	2.42	174.00	160.21	0.68	99.56
Reach 1	2168	0p5_BU				1.47	445.00	317.62	320.11		320.34	0.001340	2.14	216.35	200.89	0.56	99.04
Reach 1	2168	0p5-CC-LC_BU				1.95	623.00	317.62	321.30		321.38	0.000323	1.27	622.21	489.61	0.29	91.69
Reach 1	2054	5_BU				1.17	328.00	317.47	319.42	318.95	319.54	0.000992	1.58	215.17	209.07	0.47	93.24
Reach 1	2054	1_BU				1.60	413.80	317.47	319.89		319.98	0.000491	1.37	322.08	246.15	0.35	90.06
Reach 1	2054	0p5_BU				1.83	445.00	317.47	320.15		320.23	0.000330	1.23	389.00	264.65	0.29	87.60
Reach 1	2054	0p5-CC-LC_BU				2.53	623.00	317.47	321.32		321.35	0.000103	0.85	813.50	414.77	0.17	77.51
Reach 1	1884	5_BU				1.76	328.00	315.75	319.08		319.34	0.001167	2.25	148.18	94.59	0.54	99.08
Reach 1	1884	1_BU				2.40	413.80	315.75	319.72		319.89	0.000540	1.88	260.50	212.16	0.39	89.42
Reach 1	1884	0p5_BU				2.72	445.00	315.75	320.05		320.17	0.000356	1.66	333.78	253.74	0.32	83.28
Reach 1	1884	0p5-CC-LC_BU				3.96	623.00	315.75	321.28		321.33	0.000105	1.16	740.48	366.60	0.19	60.50
Reach 1	1760	5_BU				2.29	328.00	315.68	318.93		319.21	0.000959	2.42	151.26	122.64	0.51	94.78
Reach 1	1760	1_BU				2.92	413.80	315.68	319.68		319.83	0.000421	1.88	284.81	212.77	0.35	78.47
Reach 1	1760	0p5_BU				3.26	445.00	315.68	320.02		320.13	0.000278	1.64	362.94	245.81	0.29	71.14
Reach 1	1760	0p5-CC-LC_BU				4.50	623.00	315.68	321.27		321.32	0.000104	1.25	682.98	271.53	0.19	53.45
Reach 1	1639	5_BU				2.24	328.00	314.98	318.93	317.49	319.09	0.000545	1.79	186.85	121.18	0.38	99.54
Reach 1	1639	1_BU				2.96	413.80	314.98	319.65	317.99	319.78	0.000326	1.67	269.30	147.29	0.31	97.18
Reach 1	1639	0p5_BU				3.28	445.00	314.98	319.97	318.08	320.10	0.000258	1.59	313.41	166.63	0.28	95.72
Reach 1	1639	0p5-CC-LC_BU				4.51	623.00	314.98	321.20	318.49	321.30	0.000154	1.52	490.86	219.49	0.23	89.66
Reach 1	1548	5_BU				2.66	328.00	314.79	318.87	317.38	319.04	0.000464	1.85	177.21	83.95	0.36	100.00
Reach 1	1548	1_BU				3.29	413.80	314.79	319.58	317.65	319.75	0.000347	1.84	225.25	98.13	0.32	99.99
Reach 1	1548	0p5_BU				3.61	445.00	314.79	319.90	317.77	320.07	0.000293	1.80	247.96	105.87	0.30	99.95
Reach 1	1548	0p5-CC-LC_BU				4.81	623.00	314.79	321.10	318.24	321.28	0.000218	1.88	338.07	175.40	0.27	99.30
Reach 1	1460	5_BU				2.02	328.00	316.31	318.84	317.89	318.99	0.000559	1.70	213.79	178.90	0.38	96.38
Reach 1	1460	1_BU				2.77	413.80	316.31	319.59	318.08	319.70	0.000289	1.51	322.14	248.68	0.29	93.03
Reach 1	1460	0p5_BU				3.11	445.00	316.31	319.93	318.15	320.02	0.000218	1.42	376.16	266.33	0.26	90.90
Reach 1	1460	0p5-CC-LC_BU				4.33	623.00	316.31	321.16	318.49	321.24	0.000120	1.31	591.46	313.61	0.20	83.90
Reach 1	1371	5_BU				1.85	328.00	315.74	318.81	317.86	318.91	0.000970	1.45	253.27	172.05	0.34	92.50
Reach 1	1371	1_BU				2.63	413.80	315.74	319.59	318.02	319.66	0.000446	1.22	407.50	220.75	0.24	87.72
Reach 1	1371	0p5_BU				2.97	445.00	315.74	319.93	318.08	319.99	0.000319	1.11	483.76	231.38	0.21	84.10
Reach 1	1371	0p5-CC-LC_BU				4.21	623.00	315.74	321.17	318.38	321.21	0.000156	0.97	785.64	341.16	0.15	74.18
Reach 1	1226	5_BU				2.20	328.00	315.18	318.65	317.48	318.77	0.000940	1.58	224.47	124.53	0.34	96.91
Reach 1	1226	1_BU				3.06	413.80	315.18	319.50	317.71	319.59	0.000475	1.37	381.73	218.03	0.25	92.52
Reach 1	1226	0p5_BU				3.42	445.00	315.18	319.86	317.78	319.94	0.000353	1.27	463.56	228.92	0.22	89.01
Reach 1	1226	0p5-CC-LC_BU				4.69	623.00	315.18	321.13	318.14	321.18	0.000193	1.14	770.17	329.62	0.17	78.60
Reach 1	1171	5_BU				2.44	328.00	314.92	318.63	317.20	318.72	0.000593	1.34	302.91	192.44	0.27	92.28
Reach 1	1171	1_BU				3.31	413.80	314.92	319.50	317.44	319.56	0.000296	1.14	501.93	271.23	0.20	84.71
Reach 1	1171	0p5_BU				3.67	445.00	314.92	319.86	317.51	319.91	0.000231	1.08	601.45	278.50	0.18	82.42
Reach 1	1171	0p5-CC-LC_BU				4.94	623.00	314.92	321.13	317.89	321.17	0.000126	0.96	1001.73	369.12	0.14	70.90
Reach 1	1060	5_BU				2.97	328.00	314.65	318.60	316.72	318.66	0.000356	1.17	348.30	210.07	0.22	93.21
Reach 1	1060	1_BU				3.85	413.80	314.65	319.48	316.92	319.53	0.000197	1.04	572.12	330.75	0.17	85.08
Reach 1	1060	0p5_BU				4.22	445.00	314.65	319.85	316.99	319.89	0.000154	0.97	696.52	341.21	0.15	81.43
Reach 1	1060	0p5-CC-LC_BU				5.50	623.00	314.65	321.12	317.35	321.16	0.000093	0.90	1135.77	347.36	0.12	70.10

HEC-RAS Plan: KR_Jam_46050 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	964	5_BU				2.76	328.00	314.83	318.59	316.49	318.63	0.000229	0.89	445.60	284.73	0.17	94.36
Reach 1	964	1_BU				3.66	413.80	314.83	319.48	316.71	319.51	0.000121	0.78	719.47	317.08	0.13	86.67
Reach 1	964	0p5_BU				4.03	445.00	314.83	319.85	316.78	319.87	0.000095	0.74	837.53	326.13	0.12	83.84
Reach 1	964	0p5-CC-LC_BU				5.30	623.00	314.83	321.12	317.15	321.15	0.000062	0.72	1266.49	375.70	0.10	76.63
Reach 1	856	5_BU				2.74	328.00	314.15	318.58	316.32	318.60	0.000164	0.75	563.50	317.43	0.14	86.98
Reach 1	856	1_BU				3.65	413.80	314.15	319.48	316.51	319.50	0.000088	0.66	865.55	387.73	0.11	81.32
Reach 1	856	0p5_BU				4.01	445.00	314.15	319.85	316.58	319.86	0.000070	0.63	993.31	392.91	0.10	78.84
Reach 1	856	0p5-CC-LC_BU				5.29	623.00	314.15	321.12	316.90	321.14	0.000046	0.62	1443.68	438.41	0.09	72.84
Reach 1	746	5_BU				3.12	328.00	313.89	318.57	316.13	318.59	0.000082	0.58	716.97	434.89	0.10	92.69
Reach 1	746	1_BU				4.02	413.80	313.89	319.48	316.27	319.49	0.000046	0.51	1118.86	566.57	0.08	84.21
Reach 1	746	0p5_BU				4.39	445.00	313.89	319.85	316.31	319.86	0.000037	0.49	1288.74	601.50	0.07	81.46
Reach 1	746	0p5-CC-LC_BU				5.67	623.00	313.89	321.12	316.55	321.13	0.000026	0.48	1892.63	664.17	0.06	74.24
Reach 1	638	5_BU				3.16	328.00	313.68	318.57	315.88	318.58	0.000060	0.50	773.57	484.53	0.09	95.79
Reach 1	638	1_BU				4.07	413.80	313.68	319.47	316.05	319.48	0.000035	0.45	1245.00	705.98	0.07	88.42
Reach 1	638	0p5_BU				4.44	445.00	313.68	319.84	316.11	319.85	0.000028	0.43	1450.27	759.64	0.07	85.75
Reach 1	638	0p5-CC-LC_BU				5.72	623.00	313.68	321.12	316.40	321.13	0.000019	0.42	2180.02	873.57	0.06	77.42

HEC-RAS Plan: KR_Jam_48010 River: Klondike River Reach: Reach 1

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	58149	5_BU				0.60	211.80	457.19	459.11	458.78	459.18	0.003960	1.28	176.98	311.40	0.53	69.92
Reach 1	58149	1_BU				0.62	258.70	457.19	459.21	458.88	459.29	0.003968	1.31	209.35	358.41	0.53	68.61
Reach 1	58149	0p5_BU				0.63	274.10	457.19	459.23	458.92	459.31	0.003967	1.34	218.21	365.59	0.54	68.59
Reach 1	58149	0p5-CC-LC_BU				0.78	383.70	457.19	459.40	459.08	459.50	0.003748	1.50	283.35	422.35	0.54	69.68
Reach 1	57145	5_BU				1.56	211.80	454.28	457.10		457.15	0.001219	1.40	307.38	553.20	0.36	51.15
Reach 1	57145	1_BU				1.67	258.70	454.28	457.21		457.26	0.001207	1.46	371.49	616.50	0.36	46.72
Reach 1	57145	0p5_BU				1.70	274.10	454.28	457.24		457.30	0.001201	1.48	392.42	637.56	0.36	45.45
Reach 1	57145	0p5-CC-LC_BU				1.89	383.70	454.28	457.43	456.97	457.49	0.001229	1.60	523.14	758.51	0.37	39.14
Reach 1	56479	5_BU				1.05	240.10	453.12	455.47	455.09	455.51	0.005101	1.12	306.13	656.22	0.35	32.50
Reach 1	56479	1_BU				1.11	296.00	453.12	455.54	455.20	455.58	0.005627	1.22	349.22	708.62	0.37	30.50
Reach 1	56479	0p5_BU				1.13	314.90	453.12	455.55	455.23	455.60	0.005788	1.26	362.46	723.99	0.38	29.88
Reach 1	56479	0p5-CC-LC_BU				1.25	440.90	453.12	455.68	455.34	455.74	0.006241	1.40	463.44	836.83	0.40	26.46
Reach 1	56103	5_BU				1.35	240.10	452.81	454.88	454.59	454.92	0.001233	1.30	480.43	1110.99	0.36	43.21
Reach 1	56103	1_BU				1.48	296.00	452.81	455.00	454.65	455.04	0.001075	1.28	619.04	1250.15	0.34	37.86
Reach 1	56103	0p5_BU				1.51	314.90	452.81	455.04	454.68	455.07	0.001035	1.28	660.65	1276.27	0.33	36.31
Reach 1	56103	0p5-CC-LC_BU				1.72	440.90	452.81	455.25	454.80	455.28	0.000858	1.27	928.84	1384.56	0.31	29.36
Reach 1	54315	5_BU				1.45	240.10	449.60	451.73	451.23	451.91	0.002405	2.04	149.26	151.32	0.54	82.29
Reach 1	54315	1_BU				1.56	296.00	449.60	451.85	451.42	452.08	0.002828	2.28	169.94	189.14	0.58	80.99
Reach 1	54315	0p5_BU				1.60	314.90	449.60	451.89	451.48	452.13	0.002970	2.36	177.11	201.10	0.60	80.66
Reach 1	54315	0p5-CC-LC_BU				1.79	440.90	449.60	452.08	451.78	452.41	0.003876	2.83	223.54	333.49	0.68	77.50
Reach 1	53429	5_BU				1.05	240.10	446.75	449.04	448.76	449.17	0.004089	1.81	160.76	290.55	0.56	64.39
Reach 1	53429	1_BU				1.23	296.00	446.75	449.22	448.87	449.34	0.003287	1.78	219.19	358.12	0.51	60.40
Reach 1	53429	0p5_BU				1.28	314.90	446.75	449.27	448.91	449.39	0.003093	1.78	239.74	373.59	0.50	59.14
Reach 1	53429	0p5-CC-LC_BU				1.57	440.90	446.75	449.61	449.12	449.71	0.002281	1.71	378.68	448.35	0.44	51.56
Reach 1	52840	5_BU				1.90	240.10	445.50	448.33		448.40	0.000703	1.22	225.86	161.62	0.28	91.12
Reach 1	52840	1_BU				2.09	296.00	445.50	448.53		448.61	0.000742	1.34	258.74	170.72	0.30	89.43
Reach 1	52840	0p5_BU				2.15	314.90	445.50	448.59		448.67	0.000755	1.38	269.33	175.07	0.30	88.94
Reach 1	52840	0p5-CC-LC_BU				2.49	440.90	445.50	448.93		449.05	0.000848	1.61	332.54	197.56	0.33	86.23
Reach 1	52279	5_BU				1.57	240.10	445.07	447.58		447.76	0.002118	1.87	143.10	179.92	0.48	96.76
Reach 1	52279	1_BU				1.70	296.00	445.07	447.72		447.92	0.002321	2.07	169.39	233.96	0.51	94.18
Reach 1	52279	0p5_BU				1.75	314.90	445.07	447.76		447.98	0.002375	2.13	178.64	244.58	0.51	93.30
Reach 1	52279	0p5-CC-LC_BU				2.02	440.90	445.07	448.03		448.29	0.002480	2.39	253.96	422.08	0.54	86.55
Reach 1	50899	5_BU				1.14	290.80	441.51	444.15		444.27	0.002796	1.73	256.31	374.74	0.52	76.41
Reach 1	50899	1_BU				1.26	363.60	441.51	444.31		444.43	0.002535	1.76	321.23	414.73	0.50	71.45
Reach 1	50899	0p5_BU				1.30	389.40	441.51	444.36	444.03	444.48	0.002475	1.78	342.29	426.85	0.50	70.22
Reach 1	50899	0p5-CC-LC_BU				1.52	545.10	441.51	444.61	444.20	444.74	0.002406	1.94	459.70	548.37	0.50	65.25
Reach 1	50334	5_BU				1.04	290.80	440.40	442.63		442.75	0.002644	1.60	224.84	316.13	0.50	88.92
Reach 1	50334	1_BU				1.13	363.60	440.40	442.72		442.87	0.003087	1.82	252.83	329.29	0.55	87.66
Reach 1	50334	0p5_BU				1.16	389.40	440.40	442.75		442.91	0.003224	1.89	262.39	339.07	0.56	87.20
Reach 1	50334	0p5-CC-LC_BU				1.37	545.10	440.40	442.96		443.17	0.003354	2.16	342.53	410.35	0.59	84.46
Reach 1	49973	5_BU				0.89	290.80	439.55	441.68	441.29	441.79	0.002864	1.49	213.86	290.99	0.50	93.37
Reach 1	49973	1_BU				1.10	363.60	439.55	441.93	441.47	442.02	0.001939	1.42	288.36	319.64	0.43	90.87
Reach 1	49973	0p5_BU				1.19	389.40	439.55	442.01	441.50	442.10	0.001709	1.40	315.90	331.71	0.41	90.10
Reach 1	49973	0p5-CC-LC_BU				1.60	545.10	439.55	442.42	441.67	442.51	0.001164	1.40	476.85	463.88	0.35	86.88
Reach 1	49383	5_BU				2.26	290.80	437.54	441.53		441.54	0.000132	0.59	742.16	552.16	0.13	62.38
Reach 1	49383	1_BU				2.51	363.60	437.54	441.77		441.79	0.000135	0.64	880.84	576.53	0.13	59.96
Reach 1	49383	0p5_BU				2.60	389.40	437.54	441.86		441.88	0.000133	0.65	932.55	578.54	0.13	58.99
Reach 1	49383	0p5-CC-LC_BU				3.01	545.10	437.54	442.28		442.29	0.000140	0.74	1172.95	585.43	0.14	55.20
Reach 1	49175	5_BU	441.12	0.40	441.51	2.30	290.80	437.30	441.48		441.49	0.000504	0.47	663.71	409.00	0.10	78.73
Reach 1	49175	1_BU	441.36	0.40	441.76	2.54	363.60	437.30	441.73		441.74	0.000514	0.50	764.36	415.73	0.10	74.36
Reach 1	49175	0p5_BU	441.45	0.40	441.85	2.63	389.40	437.30	441.82		441.83	0.000509	0.50	801.60	418.24	0.10	72.94
Reach 1	49175	0p5-CC-LC_BU	441.86	0.40	442.26	3.05	545.10	437.30	442.23		442.25	0.000542	0.57	972.38	429.87	0.10	67.56
Reach 1	49000	5_BU	439.65	1.83	441.48	1.41	290.80	436.74	441.32		441.35	0.001270	0.53	410.93	432.29	0.14	41.86
Reach 1	49000	1_BU	439.72	2.00	441.72	1.47	363.60	436.74	441.55		441.59	0.001394	0.57	456.19	468.65	0.15	37.79
Reach 1	49000	0p5_BU	439.75	2.06	441.81	1.50	389.40	436.74	441.64		441.68	0.001464	0.59	474.63	470.62	0.15	37.40
Reach 1	49000	0p5-CC-LC_BU	439.82	2.40	442.21	1.57	545.10	436.74	442.01		442.08	0.001711	0.66	542.87	488.55	0.17	31.13
Reach 1	48700	5_BU	437.91	2.89	440.79	0.99	290.80	435.90	440.55		440.67	0.006727	1.03	222.35	435.92	0.33	35.06
Reach 1	48700	1_BU	437.86	3.09	440.95	0.96	363.60	435.90	440.69		440.85	0.007508	1.07	243.61	435.43	0.35	27.69
Reach 1	48700	0p5_BU	437.84	3.16	441.00	0.95	389.40	435.90	440.73		440.91	0.007676	1.07	250.62	435.05	0.35	25.40
Reach 1	48700	0p5-CC-LC_BU	437.84	3.45	441.29	0.95	545.10	435.90	441.00		441.23	0.007701	1.07	300.78	436.44	0.35	18.25
Reach 1	48530	5_BU	437.20	2.94	440.14	0.77	290.80	435.46	439.90	439.10	439.94	0.002361	0.48	337.47	387.34	0.18	7.94
Reach 1	48530	1_BU	437.27	3.08	440.35	0.79	363.60	435.46	440.09	439.22	440.13	0.002065	0.46	409.53	403.42	0.16	6.64
Reach 1	48530	0p5_BU	437.30	3.12	440.42	0.80	389.40	435.46	440.16	439.27	440.20	0.001962	0.45	433.39	406.56	0.16	6.28
Reach 1	48530	0p5-CC-LC_BU	437.63	3.23	440.86	1.00	545.10	435.46	440.59	439.53	440.64	0.001404	0.44	592.01	434.12	0.14	6.46
Reach 1	48400	5_BU	437.23	2.65	439.88	0.80	290.80	435.59	439.66		439.68	0.001191	0.35	425.63	359.28	0.13	8.40
Reach 1	48400	1_BU	437.37	2.72	440.09	0.93	363.60	435.59	439.86		439.89	0.001188	0.39	491.04	368.61	0.13	8.79
Reach 1	48400	0p5_BU	437.44	2.74	440.17	0.98	389.40	435.59	439.94		439.97	0.001151	0.39	518.18	372.60	0.13	8.92
Reach 1	48400	0p5-CC-LC_BU	437.97	2.69	440.66	1.41	545.10	435.59	440.43		440.47	0.000882	0.45	700.36	397.30	0.12	11.50
Reach 1	48250	5_BU	437.15	2.50	439.65	1.01	290.80	435.03	439.44		439.48	0.001491	0.46	364.17	284.28	0.15	15.18
Reach 1	48250	1_BU	437.27	2.58	439.84	1.13	363.60	435.03	439.63		439.67	0.001606	0.51	408.65	290.54	0.15	15.15
Reach 1	48250	0p5_BU	437.34	2.59	439.93	1.20	389.40	435.03	439.71		439.76	0.001566	0.53	431.41	296.57	0.15	15.57
Reach 1	48250	0p5-CC-LC_BU	437.96	2.51	440.47	1.82	545.10	435.03	440.26		440.31	0.001140	0.59	589.87	303.07	0.14	18.87
Reach 1	48100	5_BU	436.44	1.92	438.36	1.11	290.80	434.27	438.20	438.20	438.74	0.067089	3.26	89.36	83.43	0.99	99.79
Reach 1	48100	1_BU	436.77	1.85	438.62	1.31	363.60	434.27	438.46	438.33	438.94	0.046651	3.05	119.98	97.18	0.85	99.24
Reach 1	48100	0p5_BU	436.85	1.88	438.72	1.38	389.40	434.27	438.57	438.43	439.04	0.044166	3.07	127.80	99.22	0.83	98.81
Reach 1	48100	0p5-CC-LC_BU	437.16	2.20	439.35	1.60	545.10	434.27	439.17	439.02	439.74	0.039482	3.28	165.33	114.89	0.83	92.91
Reach 1	48010	5_BU	437.09	0.40	437.49	2.01	290.80	433.89	437.45	436.50	437.63	0.003929	1.88	154.31	76.90	0.42	100.00
Reach 1	48010	1_BU	437.39	0.40	437.79	2.21	363.60	433.89	437.76		437.97	0.004147	2.03	178.71	81.08	0.44	100.00
Reach 1	48010	0p5_BU	437.49	0.40	437.89	2.29	389.40	433.89	437.86		438.08	0.004207	2.09	186.81	82.29	0.44	99.99
Reach 1	48010	0p5-CC-LC_BU	437.90	0.52	438.43	2.66	545.10	433.89	438.38		438.69	0.004928	2.46	222.05	86.63	0.48	99.71
Reach 1	47901	5_BU	436.76	0.40	437.16	2.20	290.80	433.20	437.13		437.31	0.002300	1.89	153.98	71.63	0.41	99.88
Reach 1	47901	1_BU	437.04	0.40	437.44	2.48	363.60	433.20	437.40		437.63	0.002412	2.10	174.05	72.61	0.43	99.73
Reach 1	47901	0p5_BU	437.13	0.40	437.53	2.57	389.40	433.20	437.49		437.73	0.002460	2.17	180.45	72.92	0.43	99.67
Reach 1	47901	0p5-CC-LC_BU	437.60	0.40	438.00	3.04	545.10	433.20	437.96		438.30	0.002725	2.56	215.27	74.59	0.47	99.26
Reach 1	47790	5_BU	436.43	0.40	436.83	1.92	290.80	433.56	436.80		436.97	0.004178	1.85	157.20	81.97	0.43	100.00
Reach 1	47790	1_BU	436.69	0.40	437.09	2.12	363.60	433.56	437.05		437.27	0.004648	2.04	178.57	84.22	0.45	100.00
Reach 1	47790	0p5_BU	436.77	0.40	437.17	2.19	389.40	433.56	437.14		437.36	0.004738	2.10	185.52	84.53	0.45	100.00
Reach 1	47790	0p5-CC-LC_BU	437.21	0.40	437.61	2.57	545.10	433.56	437.57		437.88	0.005332	2.44	223.12	87.34	0.49	100.00
Reach 1	47700	5_BU				1.92	290.80	433.03	436.61	435.48	436.77	0.001328	1.76	165.54	86.19	0.40	100.00
Reach 1	47700	1_BU				2.11	363.60	433.03	436.85	435.72	437.05	0.001455	1.95	186.14	88.07	0.43	100.00
Reach 1	47700	0p5_BU				2.18	389.40	433.03	436.93	435.81	437.14	0.001492	2.02	192.98	88.50	0.44	100.00
Reach 1	47700	0p5-CC-LC_BU				2.53	545.10	433.03	437.33	436.23	437.62	0.001722	2.38	229.29	90.52	0.48	100.00
Reach 1	47550	5_BU				1.58	290.80	433.60	436.34	435.62	436.52	0.002061	1.91	152.11	96.52	0.49	100.00
Reach 1	47550	1_BU				1.72	363.60	433.60	436.56	435.82	436.78	0.002155	2.09	173.91	100.94	0.51	100.00
Reach 1	47550	0p5_BU				1.77	389.40	433.60	436.63	435.88	436.86	0.002193	2.15	181.26	102.69	0.52	100.00
Reach 1	47550	0p5-CC-LC_BU				2.09	545.10	433.60	437.02	436.23	437.32	0.002326	2.45	223.79	114.98	0.54	99.91
Reach 1	47390	5_BU				1.63	290.80	434.08	436.11		436.23	0.001427	1.59	183.42	114.36	0.40	99.99
Reach 1	47390	1_BU				1.81	363.60	434.08	436.31		436.47	0.001529	1.76	207.47	116.78	0.42	99.96

HEC-RAS Plan: KR_Jam_48010 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	47390	0p5_BU				1.88	389.40	434.08	436.38		436.55	0.001561	1.81	215.49	117.95	0.42	99.95
Reach 1	47390	0p5-CC-LC_BU				2.24	545.10	434.08	436.75		436.98	0.001728	2.12	262.25	146.18	0.45	99.77
Reach 1	47300	5_BU				1.43	290.80	433.73	435.91		436.04	0.003485	1.62	179.96	125.61	0.43	100.00
Reach 1	47300	1_BU				1.63	363.60	433.73	436.11		436.27	0.003540	1.77	205.35	126.98	0.44	100.00
Reach 1	47300	0p5_BU				1.70	389.40	433.73	436.18		436.35	0.003556	1.82	213.76	127.58	0.45	99.99
Reach 1	47300	0p5-CC-LC_BU				2.05	545.10	433.73	436.53		436.76	0.003671	2.10	262.15	152.05	0.47	99.82
Reach 1	47150	5_BU				1.40	290.80	433.25	435.27		435.51	0.003443	2.23	149.59	144.87	0.60	94.89
Reach 1	47150	1_BU				1.61	363.60	433.25	435.48		435.75	0.003273	2.38	181.09	159.22	0.60	93.06
Reach 1	47150	0p5_BU				1.68	389.40	433.25	435.55		435.82	0.003222	2.43	192.33	165.15	0.60	92.45
Reach 1	47150	0p5-CC-LC_BU				2.05	545.10	433.25	435.91		436.25	0.003043	2.69	254.56	171.80	0.60	89.19
Reach 1	47000	5_BU				1.44	290.80	432.80	434.82		435.03	0.002826	2.04	149.81	122.95	0.54	98.23
Reach 1	47000	1_BU				1.64	363.60	432.80	435.05		435.29	0.002727	2.19	180.18	148.20	0.55	97.62
Reach 1	47000	0p5_BU				1.70	389.40	432.80	435.12		435.37	0.002716	2.24	191.08	153.99	0.55	97.29
Reach 1	47000	0p5-CC-LC_BU				2.07	545.10	432.80	435.52		435.82	0.002545	2.46	261.54	207.74	0.55	94.50
Reach 1	46850	5_BU				1.56	290.80	432.38	434.53		434.68	0.001816	1.75	174.99	123.07	0.45	97.58
Reach 1	46850	1_BU				1.78	363.60	432.38	434.77		434.94	0.001776	1.88	207.02	144.02	0.45	96.91
Reach 1	46850	0p5_BU				1.85	389.40	432.38	434.84		435.03	0.001767	1.93	218.18	151.02	0.45	96.64
Reach 1	46850	0p5-CC-LC_BU				2.27	545.10	432.38	435.26		435.49	0.001717	2.16	285.75	186.50	0.46	94.81
Reach 1	46700	5_BU				1.60	290.80	431.90	434.11	433.60	434.34	0.002740	2.15	147.10	175.94	0.54	96.00
Reach 1	46700	1_BU				1.77	363.60	431.90	434.34	433.77	434.60	0.002809	2.35	172.41	193.28	0.56	95.38
Reach 1	46700	0p5_BU				1.83	389.40	431.90	434.41	433.84	434.69	0.002806	2.41	181.30	199.81	0.57	95.03
Reach 1	46700	0p5-CC-LC_BU				2.23	545.10	431.90	434.80	434.14	435.15	0.002759	2.71	237.42	254.43	0.58	92.86
Reach 1	46513	5_BU				1.49	290.80	431.49	433.78	433.15	433.97	0.002342	1.91	154.98	120.66	0.50	99.67
Reach 1	46513	1_BU				1.67	363.60	431.49	434.00	433.33	434.22	0.002396	2.06	186.00	172.97	0.51	98.93
Reach 1	46513	0p5_BU				1.73	389.40	431.49	434.08	433.39	434.30	0.002390	2.11	198.88	186.15	0.51	98.50
Reach 1	46513	0p5-CC-LC_BU				2.09	545.10	431.49	434.52	433.73	434.77	0.002211	2.25	283.52	260.90	0.50	95.03
Reach 1	46503		Bridge														
Reach 1	46441	5_BU				1.62	290.80	431.25	433.57		433.76	0.002123	1.92	152.77	112.65	0.48	99.91
Reach 1	46441	1_BU				1.80	363.60	431.25	433.76		433.99	0.002298	2.14	176.62	141.74	0.51	99.31
Reach 1	46441	0p5_BU				1.86	389.40	431.25	433.82		434.07	0.002333	2.20	185.89	152.34	0.52	98.96
Reach 1	46441	0p5-CC-LC_BU				2.23	545.10	431.25	434.19		434.50	0.002366	2.50	251.16	236.92	0.53	95.98
Reach 1	46352	5_BU				1.16	290.80	430.67	432.98		433.26	0.005055	2.36	125.55	123.56	0.70	99.72
Reach 1	46352	1_BU				1.41	363.60	430.67	433.24		433.53	0.004007	2.38	159.15	131.58	0.64	98.94
Reach 1	46352	0p5_BU				1.49	389.40	430.67	433.33		433.61	0.003769	2.40	170.51	134.16	0.63	98.63
Reach 1	46352	0p5-CC-LC_BU				1.94	545.10	430.67	433.79		434.10	0.002896	2.51	238.20	154.35	0.57	96.94
Reach 1	46300	5_BU				1.70	290.80	430.65	432.93		433.08	0.001583	1.71	171.70	119.01	0.42	99.96
Reach 1	46300	1_BU				1.95	363.60	430.65	433.20		433.37	0.001518	1.83	206.94	140.81	0.42	99.34
Reach 1	46300	0p5_BU				2.04	389.40	430.65	433.29		433.46	0.001499	1.87	219.22	142.63	0.42	99.01
Reach 1	46300	0p5-CC-LC_BU				2.49	545.10	430.65	433.75		433.97	0.001428	2.09	287.14	149.14	0.42	97.10
Reach 1	46250	5_BU				1.74	290.80	430.61	432.83		433.00	0.001752	1.82	162.34	105.55	0.44	99.46
Reach 1	46250	1_BU				1.96	363.60	430.61	433.09		433.29	0.001720	1.96	191.40	114.61	0.45	98.65
Reach 1	46250	0p5_BU				2.04	389.40	430.61	433.18		433.38	0.001708	2.00	201.68	122.56	0.45	98.27
Reach 1	46250	0p5-CC-LC_BU				2.51	545.10	430.61	433.65		433.89	0.001595	2.22	261.33	132.53	0.45	95.76
Reach 1	46200	5_BU				1.66	290.80	430.41	432.71		432.90	0.002058	1.92	151.52	91.32	0.48	100.00
Reach 1	46200	1_BU				1.87	363.60	430.41	432.97		433.19	0.002034	2.07	176.33	98.68	0.48	99.95
Reach 1	46200	0p5_BU				1.96	389.40	430.41	433.06		433.29	0.002013	2.12	184.72	100.57	0.48	99.91
Reach 1	46200	0p5-CC-LC_BU				2.41	545.10	430.41	433.51		433.80	0.001946	2.39	235.66	123.76	0.49	99.29
Reach 1	46150	5_BU				1.92	290.80	430.24	432.65		432.81	0.001435	1.74	167.12	89.21	0.40	100.00
Reach 1	46150	1_BU				2.14	363.60	430.24	432.91		433.10	0.001548	1.92	190.29	92.40	0.42	99.95
Reach 1	46150	0p5_BU				2.22	389.40	430.24	432.99		433.19	0.001576	1.98	197.99	93.26	0.42	99.92
Reach 1	46150	0p5-CC-LC_BU				2.62	545.10	430.24	433.44		433.70	0.001723	2.29	242.39	116.91	0.45	99.66
Reach 1	46100	5_BU				1.91	290.80	430.02	432.55		432.73	0.001621	1.87	157.14	85.31	0.43	99.80
Reach 1	46100	1_BU				2.13	363.60	430.02	432.79		433.01	0.001711	2.07	177.99	87.33	0.45	99.69
Reach 1	46100	0p5_BU				2.21	389.40	430.02	432.87		433.10	0.001743	2.13	184.96	93.22	0.46	99.65
Reach 1	46100	0p5-CC-LC_BU				2.64	545.10	430.02	433.30		433.61	0.001859	2.48	239.16	152.57	0.49	98.73
Reach 1	46050	5_BU				1.54	290.80	429.81	432.31		432.60	0.003475	2.38	122.09	81.49	0.61	99.99
Reach 1	46050	1_BU				1.71	363.60	429.81	432.54		432.88	0.003482	2.60	140.55	87.79	0.63	99.92
Reach 1	46050	0p5_BU				1.78	389.40	429.81	432.61		432.97	0.003491	2.67	147.05	91.22	0.64	99.88
Reach 1	46050	0p5-CC-LC_BU				2.14	545.10	429.81	433.01		433.47	0.003473	3.02	190.52	130.22	0.66	99.14
Reach 1	46000	5_BU				1.68	290.80	429.73	432.16		432.44	0.002966	2.33	124.90	74.15	0.57	100.00
Reach 1	46000	1_BU				1.84	363.60	429.73	432.37		432.71	0.003250	2.59	140.85	82.12	0.61	99.99
Reach 1	46000	0p5_BU				1.87	389.40	429.73	432.44		432.80	0.003310	2.67	146.60	88.32	0.62	99.96
Reach 1	46000	0p5-CC-LC_BU				2.22	545.10	429.73	432.81		433.29	0.003592	3.10	184.94	118.94	0.66	99.27
Reach 1	45950	5_BU				1.55	290.80	429.64	432.02		432.28	0.003117	2.26	128.54	82.74	0.58	100.00
Reach 1	45950	1_BU				1.64	363.60	429.64	432.22		432.54	0.003252	2.49	145.75	88.90	0.62	100.00
Reach 1	45950	0p5_BU				1.65	389.40	429.64	432.29		432.63	0.003282	2.56	152.02	91.87	0.64	100.00
Reach 1	45950	0p5-CC-LC_BU				1.60	545.10	429.64	432.68		433.10	0.003370	2.85	192.07	124.34	0.72	99.93
Reach 1	45850	5_BU				1.50	290.80	429.47	431.81		431.99	0.002311	1.90	153.96	111.86	0.50	99.95
Reach 1	45850	1_BU				1.69	363.60	429.47	432.02		432.24	0.002353	2.08	177.77	114.68	0.51	99.74
Reach 1	45850	0p5_BU				1.75	389.40	429.47	432.09		432.32	0.002360	2.13	186.04	116.16	0.51	99.65
Reach 1	45850	0p5-CC-LC_BU				1.99	545.10	429.47	432.49		432.78	0.002380	2.40	235.92	142.88	0.54	99.02
Reach 1	45750	5_BU				1.30	290.80	429.31	431.53		431.73	0.002962	1.96	148.56	114.20	0.55	100.00
Reach 1	45750	1_BU				1.50	363.60	429.31	431.76		431.98	0.002758	2.08	174.90	118.27	0.54	99.99
Reach 1	45750	0p5_BU				1.57	389.40	429.31	431.84		432.07	0.002700	2.12	184.04	120.04	0.54	99.98
Reach 1	45750	0p5-CC-LC_BU				1.94	545.10	429.31	432.25		432.53	0.002553	2.34	235.28	128.54	0.54	99.81
Reach 1	45600	5_BU				1.58	290.80	429.06	431.22		431.38	0.001809	1.75	166.35	105.02	0.44	100.00
Reach 1	45600	1_BU				1.79	363.60	429.06	431.45		431.64	0.001821	1.90	191.18	106.84	0.45	100.00
Reach 1	45600	0p5_BU				1.86	389.40	429.06	431.53		431.73	0.001823	1.95	199.63	107.45	0.46	100.00
Reach 1	45600	0p5-CC-LC_BU				2.18	545.10	429.06	431.93		432.19	0.001938	2.24	244.75	126.33	0.48	99.96
Reach 1	45400	5_BU				1.61	290.80	428.84	430.87		431.02	0.001698	1.71	170.86	115.10	0.43	99.90
Reach 1	45400	1_BU				1.83	363.60	428.84	431.11		431.28	0.001712	1.87	199.12	127.95	0.44	99.65
Reach 1	45400	0p5_BU				1.90	389.40	428.84	431.19		431.37	0.001700	1.91	209.63	132.14	0.44	99.49
Reach 1	45400	0p5-CC-LC_BU				2.26	545.10	428.84	431.57		431.81	0.001794	2.20	266.80	189.94	0.47	98.44
Reach 1	45200	5_BU				1.43	290.80	428.38	430.32		430.56	0.003209	2.18	135.45	102.76	0.58	99.76
Reach 1	45200	1_BU				1.61	363.60	428.38	430.54		430.82	0.003161	2.34	160.71	124.93	0.59	99.35
Reach 1	45200	0p5_BU				1.64	389.40	428.38	430.62		430.91	0.003214	2.38	170.77	134.50	0.59	99.19
Reach 1	45200	0p5-CC-LC_BU				1.96	545.10	428.38	430.99		431.34	0.003119	2.65	237.52	239.32	0.60	97.07
Reach 1	44985	5_BU				1.65	290.80	426.86	429.87		430.03	0.001765	1.77	165.94	114.91	0.44	99.87
Reach 1	44985	1_BU				1.88	363.60	426.86	430.10		430.29	0.001774	1.93	195.49	146.29	0.45	99.38
Reach 1	44985	0p5_BU				1.96	389.40	426.86	430.18		430.38	0.001781	1.99	206.80	162.46	0.45	99.07
Reach 1	44985	0p5-CC-LC_BU				2.34	545.10	426.86	430.56		430.81	0.001812	2.26	286.27	262.27	0.47	96.09
Reach 1	43733	5_BU				1.24	290.80	424.63	427.09		427.26	0.002842	1.85	167.20	154.71	0.53	91.67
Reach 1	43733	1_BU				1.33	363.60	424.63	427.24		427.44	0.002997	2.04	192.56	183.99	0.57	91.08
Reach 1	43733	0p5_BU				1.38	389.40	424.63	427.29		427.50	0.003027	2.10	202.47	195.79	0.57	90.86
Reach 1	43733	0p5-CC-LC_BU				1.64	545.10	424.63	427.56		427.82	0.003218	2.40	261.79	257.03	0.60	88.39
Reach 1	42697	5_BU				1.45	290.80	421.83	425.04	424.42	425.14	0.001612	1.54	289.57	457.65	0.41	77.28
Reach 1	42697	1_BU				1.58	363.60	421.83	425.17	424.76	425.27	0.001628	1.64	352.98	510.00	0.42	71.77

HEC-RAS Plan: KR_Jam_48010 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	42697	0p5_BU				1.62	389.40	421.83	425.21	424.81	425.32	0.001648	1.68	373.47	523.07	0.42	70.25
Reach 1	42697	0p5-CC-LC_BU				1.83	545.10	421.83	425.42	425.03	425.54	0.001731	1.86	487.42	580.10	0.44	62.80
Reach 1	41323	5_BU				0.87	290.80	419.47	421.45		421.64	0.004579	1.95	149.51	170.95	0.66	100.00
Reach 1	41323	1_BU				0.94	363.60	419.47	421.63		421.83	0.004330	1.99	183.53	214.64	0.65	99.96
Reach 1	41323	0p5_BU				0.98	389.40	419.47	421.69		421.90	0.004169	1.99	198.57	264.10	0.64	99.83
Reach 1	41323	0p5-CC-LC_BU				1.08	545.10	419.47	422.01		422.20	0.003660	1.98	308.47	435.93	0.61	95.73
Reach 1	40285	5_BU				1.48	290.80	416.85	419.58		419.62	0.001019	1.23	364.00	463.45	0.32	42.98
Reach 1	40285	1_BU				1.61	363.60	416.85	419.71		419.77	0.001082	1.35	436.90	572.89	0.34	41.14
Reach 1	40285	0p5_BU				1.66	389.40	416.85	419.76		419.81	0.001117	1.40	463.34	605.72	0.35	40.85
Reach 1	40285	0p5-CC-LC_BU				1.86	545.10	416.85	419.96		420.02	0.001281	1.61	590.93	671.87	0.38	37.73
Reach 1	39051	5_BU				0.78	290.80	414.48	417.40		417.47	0.005561	1.25	271.84	600.83	0.45	81.24
Reach 1	39051	1_BU				0.81	363.60	414.48	417.53		417.59	0.005291	1.21	362.97	757.27	0.43	74.59
Reach 1	39051	0p5_BU				0.84	389.40	414.48	417.57		417.63	0.005082	1.21	390.87	792.72	0.42	72.93
Reach 1	39051	0p5-CC-LC_BU				1.01	545.10	414.48	417.76		417.82	0.004222	1.24	561.04	981.88	0.39	65.70
Reach 1	38622	5_BU				0.85	290.80	413.89	416.80		416.82	0.000728	0.71	516.75	959.14	0.25	85.48
Reach 1	38622	1_BU				0.96	363.60	413.89	416.92		416.95	0.000767	0.75	634.79	1138.44	0.24	82.78
Reach 1	38622	0p5_BU				0.99	389.40	413.89	416.96		416.99	0.000780	0.76	674.47	1183.00	0.24	81.85
Reach 1	38622	0p5-CC-LC_BU				1.18	545.10	413.89	417.15		417.18	0.000881	0.85	880.71	1364.67	0.25	77.47
Reach 1	38155	5_BU				1.50	290.80	413.94	415.97	415.74	416.22	0.003668	2.39	195.91	409.83	0.62	85.16
Reach 1	38155	1_BU				1.70	363.60	413.94	416.18	416.00	416.40	0.003031	2.35	297.89	589.59	0.58	76.21
Reach 1	38155	0p5_BU				1.76	389.40	413.94	416.25	416.06	416.45	0.002842	2.33	339.06	658.08	0.56	73.34
Reach 1	38155	0p5-CC-LC_BU				2.07	545.10	413.94	416.57		416.72	0.002045	2.20	577.66	923.21	0.49	58.56
Reach 1	37333	5_BU				1.97	290.80	411.14	413.98		414.18	0.001838	2.03	162.39	147.21	0.46	97.40
Reach 1	37333	1_BU				2.14	363.60	411.14	414.16		414.41	0.002097	2.29	193.70	206.09	0.50	95.78
Reach 1	37333	0p5_BU				2.19	389.40	411.14	414.21		414.48	0.002200	2.38	204.03	216.08	0.51	95.12
Reach 1	37333	0p5-CC-LC_BU				2.42	545.10	411.14	414.43	413.86	414.83	0.002893	2.91	260.90	288.77	0.60	91.88
Reach 1	36316	5_BU				1.61	290.80	409.47	411.96	411.57	412.13	0.002447	2.05	234.55	523.28	0.52	79.39
Reach 1	36316	1_BU				1.70	363.60	409.47	412.13	411.80	412.29	0.002335	2.07	339.93	712.35	0.51	71.16
Reach 1	36316	0p5_BU				1.74	389.40	409.47	412.17		412.33	0.002298	2.09	371.42	742.01	0.51	68.69
Reach 1	36316	0p5-CC-LC_BU				1.96	545.10	409.47	412.41		412.55	0.002050	2.14	565.26	901.25	0.49	57.14
Reach 1	34806	5_BU				1.37	290.80	406.69	408.63		408.76	0.002135	1.72	201.64	182.57	0.47	89.52
Reach 1	34806	1_BU				1.54	363.60	406.69	408.81		408.97	0.002203	1.89	235.91	195.52	0.49	89.16
Reach 1	34806	0p5_BU				1.60	389.40	406.69	408.86		409.04	0.002219	1.94	247.23	198.71	0.49	88.67
Reach 1	34806	0p5-CC-LC_BU				1.88	545.10	406.69	409.18		409.40	0.002331	2.21	311.80	218.53	0.51	86.43
Reach 1	33067	5_BU				1.28	290.80	401.87	404.17	403.67	404.37	0.003085	1.98	147.41	118.96	0.56	99.97
Reach 1	33067	1_BU				1.48	363.60	401.87	404.38	403.86	404.61	0.002932	2.12	173.19	130.78	0.56	99.85
Reach 1	33067	0p5_BU				1.54	389.40	401.87	404.45	403.92	404.69	0.002891	2.17	182.11	155.91	0.56	99.77
Reach 1	33067	0p5-CC-LC_BU				1.92	545.10	401.87	404.83	404.22	405.12	0.002649	2.40	247.57	382.55	0.55	98.64
Reach 1	32800	5_BU				1.52	290.80	401.32	403.49	402.90	403.67	0.002219	1.88	154.88	239.36	0.49	100.00
Reach 1	32800	1_BU				1.73	363.60	401.32	403.71	403.06	403.93	0.002225	2.05	177.45	273.89	0.50	100.00
Reach 1	32800	0p5_BU				1.80	389.40	401.32	403.78	403.11	404.01	0.002229	2.11	184.83	289.60	0.50	100.00
Reach 1	32800	0p5-CC-LC_BU				2.18	545.10	401.32	404.17	403.40	404.47	0.002279	2.43	228.17	557.20	0.52	99.82
Reach 1	32550	5_BU				1.26	290.80	400.66	402.50	402.23	402.84	0.005302	2.57	113.98	152.21	0.73	99.84
Reach 1	32550	1_BU				1.36	363.60	400.66	402.66	402.43	403.07	0.005589	2.84	129.57	179.81	0.78	99.59
Reach 1	32550	0p5_BU				1.39	389.40	400.66	402.71	402.50	403.15	0.005678	2.93	135.02	192.11	0.79	99.49
Reach 1	32550	0p5-CC-LC_BU				1.64	545.10	400.66	402.99	402.85	403.56	0.006127	3.38	167.97	300.80	0.84	98.50
Reach 1	32400	5_BU				1.58	290.80	400.20	402.24	401.71	402.35	0.001660	1.67	221.26	182.99	0.42	66.96
Reach 1	32400	1_BU				1.76	363.60	400.20	402.43	401.83	402.55	0.001686	1.80	255.26	184.97	0.43	64.53
Reach 1	32400	0p5_BU				1.81	389.40	400.20	402.49	401.87	402.62	0.001697	1.85	266.47	185.95	0.44	63.85
Reach 1	32400	0p5-CC-LC_BU				2.12	545.10	400.20	402.81	402.10	402.98	0.001778	2.09	329.62	216.26	0.46	60.88
Reach 1	32250	5_BU				1.31	290.80	399.61	401.80	401.40	402.00	0.003433	2.12	161.25	163.77	0.59	80.23
Reach 1	32250	1_BU				1.46	363.60	399.61	401.98	401.54	402.20	0.003435	2.27	188.69	178.62	0.60	77.91
Reach 1	32250	0p5_BU				1.51	389.40	399.61	402.03	401.59	402.26	0.003452	2.32	198.09	186.55	0.60	77.22
Reach 1	32250	0p5-CC-LC_BU				1.78	545.10	399.61	402.33	401.92	402.61	0.003472	2.57	259.95	255.12	0.61	73.41
Reach 1	32150	5_BU				1.19	290.80	399.22	401.47	401.05	401.64	0.003328	1.96	169.41	184.02	0.57	84.50
Reach 1	32150	1_BU				1.37	363.60	399.22	401.67	401.23	401.85	0.003003	2.05	208.48	212.22	0.56	82.47
Reach 1	32150	0p5_BU				1.44	389.40	399.22	401.73	401.34	401.92	0.002895	2.07	222.40	219.43	0.55	81.55
Reach 1	32150	0p5-CC-LC_BU				1.78	545.10	399.22	402.08	401.60	402.28	0.002452	2.20	308.93	296.86	0.53	76.75
Reach 1	32000	5_BU				1.68	290.80	398.64	400.98	400.53	401.20	0.002630	2.18	159.88	147.63	0.54	87.02
Reach 1	32000	1_BU				1.88	363.60	398.64	401.20	400.72	401.44	0.002538	2.32	194.64	179.98	0.54	83.51
Reach 1	32000	0p5_BU				1.95	389.40	398.64	401.27	400.81	401.52	0.002515	2.36	207.77	195.12	0.54	82.39
Reach 1	32000	0p5-CC-LC_BU				2.32	545.10	398.64	401.66	401.12	401.92	0.002344	2.56	305.75	296.10	0.54	76.30
Reach 1	31850	5_BU				1.59	290.80	398.07	400.43	400.12	400.73	0.003690	2.50	133.22	122.53	0.63	91.60
Reach 1	31850	1_BU				1.72	363.60	398.07	400.59	400.31	400.95	0.004174	2.79	153.89	150.35	0.68	89.63
Reach 1	31850	0p5_BU				1.76	389.40	398.07	400.63	400.38	401.02	0.004321	2.88	161.30	154.87	0.70	88.88
Reach 1	31850	0p5-CC-LC_BU				1.95	545.10	398.07	400.88	400.77	401.39	0.005217	3.40	205.77	217.32	0.78	85.48
Reach 1	31700	5_BU				1.39	290.80	397.52	400.25	399.45	400.34	0.001320	1.37	246.24	267.26	0.37	86.74
Reach 1	31700	1_BU				1.51	363.60	397.52	400.40	399.59	400.51	0.001421	1.52	286.73	308.82	0.39	85.15
Reach 1	31700	0p5_BU				1.55	389.40	397.52	400.45	399.64	400.56	0.001462	1.57	299.96	320.41	0.40	84.69
Reach 1	31700	0p5-CC-LC_BU				1.77	545.10	397.52	400.69	399.93	400.84	0.001682	1.83	374.94	391.65	0.44	81.88
Reach 1	31597	5_BU				0.92	290.80	397.42	400.05	399.59	400.14	0.002506	1.42	235.52	326.55	0.47	74.31
Reach 1	31597	1_BU				1.01	363.60	397.42	400.21	399.70	400.30	0.002423	1.49	289.03	379.21	0.47	72.89
Reach 1	31597	0p5_BU				1.04	389.40	397.42	400.25	399.72	400.35	0.002396	1.51	307.26	399.15	0.47	72.44
Reach 1	31597	0p5-CC-LC_BU				1.25	545.10	397.42	400.49	399.95	400.60	0.002349	1.69	408.41	450.78	0.48	71.28
Reach 1	31500	5_BU				0.78	290.80	398.07	399.86	399.39	399.96	0.002083	1.17	233.01	292.38	0.42	28.63
Reach 1	31500	1_BU				0.88	363.60	398.07	400.00	399.53	400.12	0.002171	1.29	279.31	339.48	0.44	30.07
Reach 1	31500	0p5_BU				0.92	389.40	398.07	400.05	399.58	400.17	0.002194	1.34	295.18	354.10	0.45	30.67
Reach 1	31500	0p5-CC-LC_BU				1.15	545.10	398.07	400.29	399.81	400.42	0.002254	1.57	388.19	427.14	0.47	32.57
Reach 1	31400	5_BU				0.76	290.80	397.82	399.63	399.31	399.78	0.003235	1.39	208.92	300.13	0.51	34.05
Reach 1	31400	1_BU				0.90	363.60	397.82	399.78	399.50	399.93	0.003148	1.49	257.27	350.22	0.50	35.24
Reach 1	31400	0p5_BU				0.94	389.40	397.82	399.83	399.54	399.98	0.003156	1.53	273.08	363.11	0.50	35.42
Reach 1	31400	0p5-CC-LC_BU				1.15	545.10	397.82	400.06	399.75	400.22	0.003275	1.77	368.15	496.94	0.53	36.56
Reach 1	31350	5_BU				0.86	290.80	397.71	399.57	399.10	399.67	0.002272	1.30	241.31	292.39	0.45	39.11
Reach 1	31350	1_BU				0.98	363.60	397.71	399.72	399.25	399.83	0.002271	1.42	286.82	341.85	0.46	40.16
Reach 1	31350	0p5_BU				1.02	389.40	397.71	399.76	399.29	399.87	0.002302	1.47	301.60	360.14	0.46	40.47
Reach 1	31350	0p5-CC-LC_BU				1.23	545.10	397.71	399.98	399.51	400.12	0.002510	1.73	396.98	539.59	0.50	41.54
Reach 1	31300	5_BU				0.80	290.80	397.60	399.41	399.11	399.56	0.003833	1.62	201.57	281.10	0.58	39.00
Reach 1	31300	1_BU				0.81	363.60	397.60	399.56	399.28	399.72	0.003778	1.62	249.77	353.38	0.57	37.78
Reach 1	31300	0p5_BU				0.85	389.40	397.60	399.61	399.32	399.77	0.003707	1.65	266.05	369.11	0.57	38.09
Reach 1	31300	0p5-CC-LC_BU				1.05	545.10	397.60	399.84	399.57	400.01	0.003519	1.86	365.81	526.64	0.58	39.01
Reach 1	31250	5_BU				0.89	290.80	397.53	399.33	398.88	399.43	0.002294	1.36	245.07	340.96	0.46	44.27
Reach 1	31250	1_BU				0.94	363.60	397.53	399.49	399.00	399.59	0.002229	1.41	307.79	460.73	0.46	43.53
Reach 1	31250	0p5_BU				0.98	389.40	397.53	399.54	399.04	399.64	0.002205	1.43	330.34	489.06	0.46	43.50
Reach 1	31250	0p5-CC-LC_BU				1.22	545.10	397.53	399.78	399.30	399.88	0.002139	1.58	465.87	629.21	0.46	42.77
Reach 1	31200	5_BU				1.33	290.80	397.38	399.24	398.63	399.33	0.001518	1.47	254.08	325.28	0.41	56.44
Reach 1	31200	1_BU				1.44	363.60	397.38	399.39	398.78	399.49	0.001553	1.58	310.79	424.91	0.42	54.11
Reach 1	31200	0p5_BU				1.48	389.40	397.38	399.43	398.82	399.54	0.001583	1.62	330.42	458.85	0.42	53.45
Reach 1	31200	0p5-CC-LC_BU				1.70	545.10	397.38	399.66	399.06	399.78	0.001726	1.82	450.87	616.40	0.45	49.44

HEC-RAS Plan: KR_Jam_48010 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	31150	5_BU				1.04	290.80	397.22	399.14	398.64	399.21	0.001741	1.33	257.24	326.91	0.42	52.41
Reach 1	31150	1_BU				1.15	363.60	397.22	399.30	398.77	399.38	0.001641	1.39	321.59	483.50	0.42	50.88
Reach 1	31150	0p5_BU				1.18	389.40	397.22	399.34	398.80	399.42	0.001641	1.42	344.27	532.59	0.42	50.42
Reach 1	31150	0p5-CC-LC_BU				1.40	545.10	397.22	399.56	398.97	399.65	0.001672	1.58	476.07	652.08	0.43	47.47
Reach 1	31100	5_BU				0.99	290.80	397.05	398.70	398.44	398.89	0.004251	1.95	166.74	233.61	0.63	40.59
Reach 1	31100	1_BU				1.06	363.60	397.05	398.85	398.58	399.05	0.004369	2.07	210.37	341.55	0.64	39.98
Reach 1	31100	0p5_BU				1.08	389.40	397.05	398.90	398.64	399.10	0.004300	2.09	228.54	385.70	0.64	39.39
Reach 1	31100	0p5-CC-LC_BU				1.22	545.10	397.05	399.15	398.97	399.33	0.004043	2.20	344.36	565.57	0.63	36.81
Reach 1	31050	5_BU				0.97	290.80	396.94	398.59	398.23	398.71	0.003218	1.68	210.21	326.75	0.54	34.84
Reach 1	31050	1_BU				1.02	363.60	396.94	398.77	398.38	398.88	0.002926	1.70	276.50	455.86	0.54	33.42
Reach 1	31050	0p5_BU				1.03	389.40	396.94	398.82	398.43	398.93	0.002839	1.69	302.51	494.89	0.53	32.78
Reach 1	31050	0p5-CC-LC_BU				1.20	545.10	396.94	399.08	398.66	399.18	0.002458	1.75	448.04	624.49	0.51	30.76
Reach 1	31011	5_BU				1.05	290.80	396.85	398.45	397.94	398.53	0.002083	1.42	228.66	256.32	0.44	31.12
Reach 1	31011	1_BU				1.11	363.60	396.85	398.62	398.07	398.71	0.002190	1.52	278.90	338.29	0.46	31.04
Reach 1	31011	0p5_BU				1.13	389.40	396.85	398.67	398.10	398.76	0.002193	1.54	297.78	362.23	0.46	30.82
Reach 1	31011	0p5-CC-LC_BU				1.33	545.10	396.85	398.93	398.30	399.03	0.002015	1.64	406.26	484.58	0.45	29.22
Reach 1	30950	5_BU				0.97	290.80	396.52	398.25	397.77	398.33	0.001794	1.26	231.49	266.14	0.41	38.07
Reach 1	30950	1_BU				1.12	363.60	396.52	398.41	397.87	398.50	0.001755	1.36	278.52	309.57	0.41	38.62
Reach 1	30950	0p5_BU				1.16	389.40	396.52	398.46	397.91	398.56	0.001774	1.41	295.17	327.39	0.42	38.94
Reach 1	30950	0p5-CC-LC_BU				1.39	545.10	396.52	398.72	398.09	398.83	0.001880	1.63	390.43	406.78	0.44	39.58
Reach 1	30850	5_BU				0.79	290.80	395.91	398.09	397.56	398.16	0.002221	1.21	243.81	299.81	0.44	83.68
Reach 1	30850	1_BU				0.85	363.60	395.91	398.27	397.67	398.34	0.002048	1.22	301.50	348.46	0.42	84.05
Reach 1	30850	0p5_BU				0.88	389.40	395.91	398.32	397.71	398.39	0.001994	1.24	320.52	360.29	0.42	84.26
Reach 1	30850	0p5-CC-LC_BU				1.06	545.10	395.91	398.58	397.92	398.67	0.001840	1.34	427.59	445.43	0.42	86.28
Reach 1	30750	5_BU				0.90	290.80	395.77	397.74	397.37	397.90	0.004050	1.79	164.36	184.96	0.60	71.54
Reach 1	30750	1_BU				0.89	363.60	395.77	397.92	397.55	398.09	0.004136	1.79	201.00	223.13	0.61	70.17
Reach 1	30750	0p5_BU				0.90	389.40	395.77	397.98	397.60	398.15	0.004135	1.80	214.43	241.83	0.61	69.93
Reach 1	30750	0p5-CC-LC_BU				1.04	545.10	395.77	398.27	397.85	398.44	0.003805	1.90	305.91	391.15	0.59	71.76
Reach 1	30650	5_BU				1.18	290.80	395.40	397.49	396.94	397.62	0.002465	1.67	194.99	221.56	0.49	83.41
Reach 1	30650	1_BU				1.28	363.60	395.40	397.68	397.11	397.82	0.002400	1.74	239.44	254.17	0.49	81.09
Reach 1	30650	0p5_BU				1.32	389.40	395.40	397.74	397.16	397.88	0.002357	1.76	255.24	268.13	0.49	80.31
Reach 1	30650	0p5-CC-LC_BU				1.60	545.10	395.40	398.03	397.45	398.19	0.002214	1.95	357.35	439.55	0.49	77.42
Reach 1	30396	5_BU				1.66	290.80	394.21	396.80	396.46	397.02	0.002645	2.21	172.68	188.02	0.55	84.13
Reach 1	30396	1_BU				1.82	363.60	394.21	397.01	396.63	397.23	0.002568	2.31	213.96	220.11	0.55	79.47
Reach 1	30396	0p5_BU				1.89	389.40	394.21	397.08	396.70	397.31	0.002524	2.34	231.02	247.24	0.54	78.03
Reach 1	30396	0p5-CC-LC_BU				2.22	545.10	394.21	397.44	396.98	397.67	0.002348	2.48	343.72	380.74	0.53	70.40
Reach 1	30150	5_BU				1.58	290.80	393.70	396.10	395.64	396.34	0.003033	2.26	148.74	149.69	0.57	92.47
Reach 1	30150	1_BU				1.74	363.60	393.70	396.26	395.91	396.55	0.003242	2.49	174.86	170.30	0.60	89.98
Reach 1	30150	0p5_BU				1.79	389.40	393.70	396.31	395.97	396.62	0.003340	2.58	184.11	178.66	0.61	89.64
Reach 1	30150	0p5-CC-LC_BU				2.09	545.10	393.70	396.61	396.32	396.99	0.003592	2.96	244.33	237.39	0.65	85.36
Reach 1	29887	5_BU				1.03	290.80	393.58	395.39	394.94	395.51	0.002743	1.61	186.54	186.83	0.51	93.32
Reach 1	29887	1_BU				1.18	363.60	393.58	395.55	395.06	395.70	0.002643	1.72	218.27	196.00	0.51	92.95
Reach 1	29887	0p5_BU				1.23	389.40	393.58	395.60	395.11	395.76	0.002622	1.77	228.56	197.08	0.51	92.83
Reach 1	29887	0p5-CC-LC_BU				1.51	545.10	393.58	395.90	395.35	396.09	0.002549	1.98	287.57	206.61	0.51	92.17
Reach 1	29585	5_BU				1.06	290.80	392.36	394.38	394.02	394.56	0.003708	1.90	152.99	148.27	0.59	99.97
Reach 1	29585	1_BU				1.16	363.60	392.36	394.54	394.16	394.75	0.003795	2.05	178.19	158.79	0.61	99.84
Reach 1	29585	0p5_BU				1.21	389.40	392.36	394.59	394.20	394.81	0.003817	2.11	185.94	160.12	0.61	99.79
Reach 1	29585	0p5-CC-LC_BU				1.43	545.10	392.36	394.88	394.48	395.16	0.003775	2.35	234.95	170.80	0.63	99.42
Reach 1	29234	5_BU				1.19	290.80	391.76	393.33	392.89	393.48	0.002557	1.71	174.72	166.81	0.50	99.33
Reach 1	29234	1_BU				1.37	363.60	391.76	393.52	393.02	393.69	0.002432	1.84	206.79	175.25	0.50	98.80
Reach 1	29234	0p5_BU				1.44	389.40	391.76	393.58	393.06	393.76	0.002400	1.88	217.64	177.22	0.50	98.59
Reach 1	29234	0p5-CC-LC_BU				1.77	545.10	391.76	393.92	393.30	394.14	0.002290	2.11	280.91	203.76	0.51	97.62
Reach 1	28752	5_BU				1.40	290.80	389.58	392.10	391.58	392.25	0.002521	1.77	181.42	168.69	0.48	95.80
Reach 1	28752	1_BU				1.56	363.60	389.58	392.27	391.74	392.46	0.002664	1.95	211.99	178.58	0.50	94.78
Reach 1	28752	0p5_BU				1.62	389.40	389.58	392.33	391.79	392.53	0.002710	2.01	222.14	182.22	0.50	94.34
Reach 1	28752	0p5-CC-LC_BU				1.90	545.10	389.58	392.63	392.06	392.88	0.002952	2.30	279.45	201.07	0.53	91.84
Reach 1	27904	5_BU				1.21	290.80	387.11	389.64		389.81	0.003390	1.98	170.90	190.32	0.58	80.82
Reach 1	27904	1_BU				1.37	363.60	387.11	389.80		389.99	0.003247	2.11	203.75	204.39	0.58	78.31
Reach 1	27904	0p5_BU				1.43	389.40	387.11	389.86		390.06	0.003200	2.15	215.04	208.53	0.58	77.48
Reach 1	27904	0p5-CC-LC_BU				1.73	545.10	387.11	390.15		390.38	0.002988	2.36	288.26	296.64	0.57	73.34
Reach 1	27650	5_BU				1.24	290.80	386.21	388.61	388.26	388.83	0.003776	2.14	150.64	151.08	0.61	88.65
Reach 1	27650	1_BU				1.41	363.60	386.21	388.79	388.45	389.04	0.003687	2.30	178.10	158.42	0.62	87.18
Reach 1	27650	0p5_BU				1.47	389.40	386.21	388.85	388.49	389.11	0.003642	2.35	187.85	160.95	0.62	86.72
Reach 1	27650	0p5-CC-LC_BU				1.81	545.10	386.21	389.21	388.75	389.50	0.003283	2.55	260.03	263.35	0.61	83.66
Reach 1	27359	5_BU				1.33	290.80	385.38	387.54	387.14	387.78	0.003540	2.17	134.16	101.12	0.60	100.00
Reach 1	27359	1_BU				1.54	363.60	385.38	387.76	387.30	388.03	0.003304	2.32	157.05	103.33	0.60	100.00
Reach 1	27359	0p5_BU				1.62	389.40	385.38	387.83	387.36	388.12	0.003245	2.37	164.70	104.75	0.59	99.99
Reach 1	27359	0p5-CC-LC_BU				2.03	545.10	385.38	388.25	387.65	388.60	0.002963	2.63	209.90	115.86	0.59	99.77
Reach 1	27150	5_BU				1.76	290.80	383.59	387.01	386.21	387.21	0.002056	2.00	145.82	85.60	0.48	99.98
Reach 1	27150	1_BU				1.95	363.60	383.59	387.21	386.41	387.47	0.002246	2.24	163.45	88.80	0.51	99.90
Reach 1	27150	0p5_BU				2.02	389.40	383.59	387.28	386.49	387.55	0.002305	2.32	169.33	89.72	0.52	99.85
Reach 1	27150	0p5-CC-LC_BU				2.39	545.10	383.59	387.64	386.88	388.02	0.002571	2.74	203.33	97.32	0.57	99.48
Reach 1	26869	5_BU				1.19	290.80	383.32	385.95	385.76	386.28	0.005851	2.58	115.76	105.03	0.76	99.09
Reach 1	26869	1_BU				1.41	363.60	383.32	386.17	385.92	386.54	0.005071	2.70	139.82	108.76	0.72	98.62
Reach 1	26869	0p5_BU				1.49	389.40	383.32	386.25	385.98	386.62	0.004901	2.74	147.80	110.13	0.72	98.44
Reach 1	26869	0p5-CC-LC_BU				1.87	545.10	383.32	386.63	386.27	387.09	0.004355	3.02	191.67	116.18	0.70	97.46
Reach 1	26650	5_BU				2.06	290.80	382.27	385.62	384.53	385.75	0.001116	1.63	184.95	108.85	0.36	98.62
Reach 1	26650	1_BU				2.27	363.60	382.27	385.83	384.73	386.00	0.001253	1.85	208.28	116.04	0.39	98.01
Reach 1	26650	0p5_BU				2.34	389.40	382.27	385.89	384.80	386.08	0.001299	1.92	216.04	117.45	0.40	97.79
Reach 1	26650	0p5-CC-LC_BU				2.69	545.10	382.27	386.24	385.17	386.51	0.001557	2.30	263.14	161.27	0.45	96.53
Reach 1	26500	5_BU				2.02	290.80	382.41	385.47	384.32	385.59	0.001068	1.57	199.61	118.76	0.35	97.11
Reach 1	26500	1_BU				2.20	363.60	382.41	385.65	384.56	385.81	0.001232	1.79	223.44	139.91	0.39	96.58
Reach 1	26500	0p5_BU				2.26	389.40	382.41	385.71	384.64	385.88	0.001288	1.86	231.85	143.68	0.40	96.36
Reach 1	26500	0p5-CC-LC_BU				2.57	545.10	382.41	386.02	384.98	386.27	0.001596	2.26	285.04	212.49	0.45	94.95
Reach 1	26363	5_BU				1.46	290.80	382.60	385.21		385.37	0.002217	1.82	190.65	202.42	0.48	94.44
Reach 1	26363	1_BU				1.62	363.60	382.60	385.37		385.56	0.002333	2.00	225.75	245.53	0.50	92.33
Reach 1	26363	0p5_BU				1.67	389.40	382.60	385.42		385.62	0.002360	2.06	239.74	274.47	0.51	91.55
Reach 1	26363	0p5-CC-LC_BU				1.96	545.10	382.60	385.71	385.21	385.96	0.002461	2.34	338.43	392.24	0.53	87.26
Reach 1	26186	5_BU				1.27	290.80	382.60	384.44	384.30	384.73	0.005572	2.64	138.54	200.60	0.75	78.27
Reach 1	26186	1_BU				1.41	363.60	382.60	384.59	384.50	384.91	0.005502	2.80	171.00	229.70	0.75	74.32
Reach 1	26186	0p5_BU				1.44	389.40	382.60	384.63	384.54	384.96	0.005568	2.87	180.96	240.98	0.76	73.17
Reach 1	26186	0p5-CC-LC_BU				1.63	545.10	382.60	384.85	384.79	385.25	0.006135	3.26	241.78	350.55	0.82	68.24
Reach 1	26100	5_BU				1.43	290.80	382.20	384.35	383.84	384.46	0.001785	1.61	218.82	266.68	0.43	52.58
Reach 1	26100	1_BU				1.52	363.60	382.20	384.51	383.98	384.63	0.001863	1.72	267.68	346.89	0.45	49.97
Reach 1	26100	0p5_BU				1.56	389.40	382.20	384.56	384.02	384.67	0.001895	1.76	283.63	360.06	0.45	49.11
Reach 1	26100	0p5-CC-LC_BU				1.71	545.10	382.20	384.77	384.26	384.92	0.002200	2.02	371.34	461.96	0.49	45.90
Reach 1	25969	5_BU				1.06	290.80	381.43	384.01	383.68	384.17	0.003714	1.91	183.13	271.43	0.59	72.64

HEC-RAS Plan: KR_Jam_48010 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	25969	1_BU				1.20	363.60	381.43	384.20	383.85	384.35	0.003150	1.91	247.06	414.87	0.56	68.88
Reach 1	25969	0p5_BU				1.24	389.40	381.43	384.25	383.95	384.40	0.003123	1.95	266.37	442.54	0.56	68.00
Reach 1	25969	0p5-CC-LC_BU				1.47	545.10	381.43	384.49	384.16	384.64	0.002691	2.02	384.52	525.05	0.53	60.43
Reach 1	25849	5_BU				1.47	290.80	380.61	383.22	383.14	383.66	0.006096	3.04	109.19	114.49	0.80	89.89
Reach 1	25849	1_BU				1.57	363.60	380.61	383.43	383.39	383.89	0.006150	3.19	137.99	159.38	0.81	86.39
Reach 1	25849	0p5_BU				1.60	389.40	380.61	383.50	383.49	383.95	0.005963	3.18	149.97	170.85	0.80	84.34
Reach 1	25849	0p5-CC-LC_BU				1.75	545.10	380.61	383.82	383.80	384.27	0.005659	3.29	215.39	255.25	0.79	75.34
Reach 1	25750	5_BU				1.68	290.80	379.67	383.13	382.59	383.28	0.001855	1.90	204.16	215.40	0.47	82.34
Reach 1	25750	1_BU				1.75	363.60	379.67	383.37	382.79	383.52	0.001721	1.92	266.43	302.58	0.46	76.74
Reach 1	25750	0p5_BU				1.80	389.40	379.67	383.45	382.84	383.60	0.001686	1.92	291.44	350.73	0.46	75.13
Reach 1	25750	0p5-CC-LC_BU				2.12	545.10	379.67	383.82	383.09	383.95	0.001449	1.95	459.90	547.44	0.43	65.55
Reach 1	25700	5_BU				2.04	290.80	379.24	382.84	382.01	383.15	0.002751	2.52	130.86	141.75	0.56	95.98
Reach 1	25700	1_BU				2.15	363.60	379.24	383.05	382.34	383.39	0.002957	2.70	163.50	173.70	0.59	91.04
Reach 1	25700	0p5_BU				2.21	389.40	379.24	383.12	382.55	383.47	0.002939	2.75	176.17	187.98	0.59	89.28
Reach 1	25700	0p5-CC-LC_BU				2.52	545.10	379.24	383.45	383.26	383.83	0.002929	2.99	251.31	269.96	0.60	79.86
Reach 1	25650	5_BU				2.27	290.80	379.37	382.84	381.72	383.02	0.001474	1.99	180.63	202.08	0.42	90.34
Reach 1	25650	1_BU				2.36	363.60	379.37	383.07	381.99	383.25	0.001512	2.07	235.53	279.42	0.43	82.98
Reach 1	25650	0p5_BU				2.36	389.40	379.37	383.15	382.10	383.33	0.001520	2.07	258.39	300.83	0.43	80.21
Reach 1	25650	0p5-CC-LC_BU				2.64	545.10	379.37	383.53	382.97	383.69	0.001314	2.07	382.70	352.01	0.41	66.96
Reach 1	25600	5_BU				2.15	290.80	379.47	382.73	381.76	382.94	0.001797	2.12	164.31	159.32	0.46	89.93
Reach 1	25600	1_BU				2.19	363.60	379.47	382.94	382.19	383.17	0.002016	2.27	200.26	194.66	0.49	84.75
Reach 1	25600	0p5_BU				2.21	389.40	379.47	383.01	382.32	383.25	0.002049	2.30	214.72	209.74	0.50	82.94
Reach 1	25600	0p5-CC-LC_BU				2.53	545.10	379.47	383.36	382.89	383.61	0.002047	2.52	303.82	304.77	0.51	74.84
Reach 1	25550	5_BU				1.75	290.80	379.57	382.76	382.08	382.85	0.001197	1.51	297.50	340.41	0.37	70.01
Reach 1	25550	1_BU				1.97	363.60	379.57	382.99	382.32	383.07	0.001045	1.53	378.98	382.31	0.35	64.04
Reach 1	25550	0p5_BU				2.04	389.40	379.57	383.06	382.46	383.15	0.000992	1.53	408.79	394.04	0.34	62.09
Reach 1	25550	0p5-CC-LC_BU				2.41	545.10	379.57	383.43	382.64	383.52	0.000893	1.62	564.13	460.89	0.33	55.28
Reach 1	25500	5_BU				1.84	290.80	379.67	382.62	381.71	382.77	0.001612	1.82	176.30	136.72	0.43	90.15
Reach 1	25500	1_BU				2.02	363.60	379.67	382.82	382.05	383.00	0.001713	1.99	204.97	150.79	0.45	87.48
Reach 1	25500	0p5_BU				2.08	389.40	379.67	382.88	382.16	383.08	0.001722	2.04	215.47	154.92	0.45	86.49
Reach 1	25500	0p5-CC-LC_BU				2.37	545.10	379.67	383.18	382.51	383.44	0.002027	2.41	268.28	199.68	0.50	83.45
Reach 1	25458	5_BU				1.31	290.80	379.86	382.43	382.17	382.66	0.003940	2.26	142.92	138.20	0.63	78.51
Reach 1	25458	1_BU				1.44	363.60	379.86	382.65	382.32	382.88	0.003585	2.29	174.71	154.29	0.61	74.64
Reach 1	25458	0p5_BU				1.45	389.40	379.86	382.73	382.37	382.96	0.003497	2.27	187.71	173.04	0.60	73.18
Reach 1	25458	0p5-CC-LC_BU				1.74	545.10	379.86	383.06	382.63	383.32	0.003224	2.45	257.78	242.41	0.59	69.47
Reach 1	25400	5_BU				1.66	290.80	379.62	382.24	381.85	382.46	0.002814	2.24	147.71	119.65	0.56	75.05
Reach 1	25400	1_BU				1.79	363.60	379.62	382.46	382.02	382.70	0.002836	2.36	175.03	133.97	0.56	71.54
Reach 1	25400	0p5_BU				1.79	389.40	379.62	382.52	382.09	382.77	0.002962	2.41	183.67	143.52	0.58	70.72
Reach 1	25400	0p5-CC-LC_BU				1.91	545.10	379.62	382.84	382.38	383.13	0.003170	2.61	246.24	241.43	0.60	65.42
Reach 1	25350	5_BU				1.79	290.80	379.52	382.12	381.57	382.29	0.002029	2.00	172.48	147.10	0.48	76.05
Reach 1	25350	1_BU				1.79	363.60	379.52	382.33	381.75	382.51	0.002221	2.09	204.77	171.33	0.50	71.58
Reach 1	25350	0p5_BU				1.84	389.40	379.52	382.38	381.82	382.58	0.002281	2.16	214.89	189.97	0.51	71.09
Reach 1	25350	0p5-CC-LC_BU				2.15	545.10	379.52	382.70	382.18	382.93	0.002294	2.40	285.05	248.00	0.52	66.10
Reach 1	25300	5_BU				1.19	290.80	379.41	382.04	381.37	382.15	0.001984	1.49	197.32	174.06	0.44	99.76
Reach 1	25300	1_BU				1.16	363.60	379.41	382.22	381.53	382.35	0.002342	1.59	232.35	209.83	0.47	99.53
Reach 1	25300	0p5_BU				1.18	389.40	379.41	382.27	381.58	382.41	0.002370	1.62	244.26	215.88	0.48	99.46
Reach 1	25300	0p5-CC-LC_BU				1.30	545.10	379.41	382.59	381.83	382.74	0.002415	1.74	321.20	257.64	0.49	99.01
Reach 1	25250	5_BU				1.11	290.80	379.31	381.97	381.24	382.05	0.001627	1.29	228.58	213.12	0.39	99.66
Reach 1	25250	1_BU				1.28	363.60	379.31	382.15	381.45	382.24	0.001565	1.38	267.92	225.28	0.39	99.48
Reach 1	25250	0p5_BU				1.33	389.40	379.31	382.20	381.51	382.30	0.001553	1.41	280.59	226.66	0.39	99.41
Reach 1	25250	0p5-CC-LC_BU				1.64	545.10	379.31	382.52	381.75	382.64	0.001490	1.60	353.35	246.98	0.40	98.93
Reach 1	25169	5_BU				1.09	290.80	379.70	381.71	381.15	381.87	0.003048	1.76	169.38	157.89	0.54	98.48
Reach 1	25169	1_BU				1.18	363.60	379.70	381.88	381.33	382.06	0.003215	1.90	196.77	169.84	0.56	98.32
Reach 1	25169	0p5_BU				1.23	389.40	379.70	381.93	381.38	382.12	0.003211	1.94	205.67	170.74	0.56	98.30
Reach 1	25169	0p5-CC-LC_BU				1.51	545.10	379.70	382.23	381.73	382.47	0.003104	2.18	262.42	210.25	0.57	98.06
Reach 1	25100	5_BU				1.22	290.80	378.81	381.54	381.04	381.68	0.002378	1.66	181.33	213.67	0.48	97.23
Reach 1	25100	1_BU				1.36	363.60	378.81	381.69	381.19	381.86	0.002558	1.85	203.72	217.45	0.51	97.17
Reach 1	25100	0p5_BU				1.41	389.40	378.81	381.74	381.23	381.92	0.002621	1.92	211.01	218.66	0.52	97.15
Reach 1	25100	0p5-CC-LC_BU				1.68	545.10	378.81	382.01	381.46	382.26	0.002880	2.25	252.85	241.99	0.55	97.05
Reach 1	24950	5_BU				0.92	290.80	378.16	380.88	380.71	381.13	0.006355	2.28	138.26	169.65	0.76	95.91
Reach 1	24950	1_BU				1.10	363.60	378.16	381.08	380.85	381.34	0.005190	2.32	173.77	184.29	0.70	94.94
Reach 1	24950	0p5_BU				1.17	389.40	378.16	381.14	380.89	381.41	0.004897	2.33	185.97	189.18	0.69	94.52
Reach 1	24950	0p5-CC-LC_BU				1.50	545.10	378.16	381.49	381.14	381.78	0.003905	2.46	254.63	222.32	0.64	92.54
Reach 1	24800	5_BU				1.60	290.80	377.37	380.57	379.81	380.69	0.001533	1.58	190.15	132.16	0.40	99.04
Reach 1	24800	1_BU				1.79	363.60	377.37	380.77	379.96	380.92	0.001610	1.75	217.69	143.63	0.42	98.68
Reach 1	24800	0p5_BU				1.86	389.40	377.37	380.83	380.02	381.00	0.001632	1.80	227.38	148.82	0.42	98.51
Reach 1	24800	0p5-CC-LC_BU				2.19	545.10	377.37	381.17	380.30	381.39	0.001804	2.11	283.21	185.34	0.46	97.40
Reach 1	24693	5_BU				0.92	290.80	377.15	379.85	379.85	380.31	0.011123	2.99	97.86	109.68	1.00	99.87
Reach 1	24693	1_BU				1.07	363.60	377.15	380.01	380.01	380.53	0.010483	3.20	114.62	110.88	0.99	99.73
Reach 1	24693	0p5_BU				1.12	389.40	377.15	380.06	380.06	380.60	0.010275	3.27	120.40	111.29	0.99	99.69
Reach 1	24693	0p5-CC-LC_BU				1.62	545.10	377.15	380.57	380.34	381.05	0.005620	3.10	186.09	148.90	0.78	98.59
Reach 1	24600	5_BU				2.57	290.80	376.10	379.65	378.04	379.77	0.000770	1.57	186.26	77.20	0.31	99.97
Reach 1	24600	1_BU				2.83	363.60	376.10	379.96	378.27	380.11	0.000840	1.74	211.47	88.64	0.33	99.80
Reach 1	24600	0p5_BU				2.93	389.40	376.10	380.06	378.36	380.22	0.000858	1.80	220.69	98.74	0.34	99.69
Reach 1	24600	0p5-CC-LC_BU				3.45	545.10	376.10	380.58	378.80	380.80	0.000928	2.09	289.35	147.03	0.36	97.60
Reach 1	24500	5_BU				2.32	290.80	375.69	379.51	378.27	379.67	0.001183	1.81	164.43	84.27	0.38	99.25
Reach 1	24500	1_BU				2.58	363.60	375.69	379.81	378.53	380.01	0.001235	1.99	191.77	96.25	0.39	98.30
Reach 1	24500	0p5_BU				2.67	389.40	375.69	379.91	378.60	380.11	0.001249	2.04	201.25	98.49	0.40	97.94
Reach 1	24500	0p5-CC-LC_BU				3.17	545.10	375.69	380.42	379.03	380.69	0.001305	2.34	260.26	136.36	0.42	95.60
Reach 1	24400	5_BU				2.23	290.80	375.71	379.24	378.32	379.51	0.002067	2.32	126.02	63.01	0.50	99.96
Reach 1	24400	1_BU				2.43	363.60	375.71	379.48	378.58	379.82	0.002382	2.60	142.42	69.92	0.53	99.63
Reach 1	24400	0p5_BU				2.49	389.40	375.71	379.56	378.66	379.93	0.002468	2.69	148.04	71.77	0.54	99.47
Reach 1	24400	0p5-CC-LC_BU				2.83	545.10	375.71	379.97	379.12	380.48	0.002913	3.20	178.94	86.26	0.61	98.35
Reach 1	24350	5_BU				2.29	290.80	375.54	379.18	378.09	379.40	0.001817	2.08	141.19	67.13	0.44	99.81
Reach 1	24350	1_BU				2.47	363.60	375.54	379.42	378.34	379.70	0.002122	2.34	158.94	80.82	0.48	99.42
Reach 1	24350	0p5_BU				2.52	389.40	375.54	379.50	378.41	379.80	0.002222	2.42	165.49	87.12	0.49	99.24
Reach 1	24350	0p5-CC-LC_BU				2.91	545.10	375.54	379.91	378.87	380.32	0.002589	2.87	206.77	116.82	0.54	97.66
Reach 1	24300	5_BU				2.20	290.80	375.93	379.12	378.07	379.31	0.001463	1.94	150.46	75.09	0.42	99.92
Reach 1	24300	1_BU				2.39	363.60	375.93	379.35	378.30	379.59	0.001671	2.19	168.53	82.28	0.45	99.67
Reach 1	24300	0p5_BU				2.44	389.40	375.93	379.42	378.37	379.69	0.001741	2.27	174.85	86.53	0.46	99.56
Reach 1	24300	0p5-CC-LC_BU				2.79	545.10	375.93	379.82	378.78	380.19	0.002067	2.70	214.28	111.96	0.52	98.52
Reach 1	24250	5_BU				2.22	290.80	376.30	379.08	377.96	379.23	0.001133	1.72	173.78	92.13	0.37	99.09
Reach 1	24250	1_BU				2.44	363.60	376.30	379.32	378.16	379.50	0.001266	1.94	196.30	101.16	0.40	98.43
Reach 1	24250	0p5_BU				2.52	389.40	376.30	379.39	378.23	379.59	0.001306	2.01	204.05	103.10	0.40	98.16
Reach 1	24250	0p5-CC-LC_BU				2.91	545.10	376.30	379.80	378.61	380.08	0.001516	2.38	252.69	153.48	0.45	96.65
Reach 1	24200	5_BU				1.92	290.80	376.73	379.00	378.13	379.17	0.001491	1.80	166.58	98.16	0.41	98.92
Reach 1	24200	1_BU				2.12	363.60	376.73	379.23	378.31	379.43	0.001603	1.99	189.60	102.93	0.44	98.26
Reach 1	24200	0p5_BU				2.20	389.40	376.73	379.31	378.37	379.52	0.001634	2.06	197.42	106.93	0.44	98.04

HEC-RAS Plan: KR_Jam_48010 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	24200	0p5-CC-LC_BU				2.60	545.10	376.73	379.71	378.74	380.00	0.001771	2.39	247.88	158.75	0.47	96.49
Reach 1	24150	5_BU				1.65	290.80	376.70	378.87	378.23	379.07	0.002248	2.00	147.33	95.95	0.50	99.58
Reach 1	24150	1_BU				1.87	363.60	376.70	379.09	378.42	379.33	0.002312	2.20	168.64	98.94	0.51	99.17
Reach 1	24150	0p5_BU				1.94	389.40	376.70	379.16	378.47	379.42	0.002333	2.26	175.78	101.03	0.52	99.03
Reach 1	24150	0p5-CC-LC_BU				2.32	545.10	376.70	379.55	378.81	379.89	0.002434	2.61	221.21	137.46	0.55	97.90
Reach 1	24100	5_BU				1.73	290.80	376.59	378.75	378.09	378.96	0.002236	2.05	144.33	93.93	0.50	99.46
Reach 1	24100	1_BU				1.93	363.60	376.59	378.96	378.27	379.22	0.002376	2.28	164.09	99.11	0.52	98.87
Reach 1	24100	0p5_BU				2.00	389.40	376.59	379.02	378.33	379.30	0.002420	2.35	170.87	101.93	0.53	98.65
Reach 1	24100	0p5-CC-LC_BU				2.36	545.10	376.59	379.39	378.71	379.76	0.002641	2.75	211.60	130.45	0.57	97.28
Reach 1	24050	5_BU				1.78	290.80	376.51	378.65	377.94	378.85	0.002068	2.02	146.22	154.30	0.48	99.68
Reach 1	24050	1_BU				1.97	363.60	376.51	378.84	378.13	379.10	0.002266	2.26	165.28	165.48	0.51	99.17
Reach 1	24050	0p5_BU				2.04	389.40	376.51	378.91	378.19	379.18	0.002327	2.34	172.02	171.76	0.52	98.96
Reach 1	24050	0p5-CC-LC_BU				2.39	545.10	376.51	379.25	378.55	379.63	0.002608	2.75	211.67	193.18	0.57	97.41
Reach 1	24000	5_BU				1.80	290.80	376.41	378.55	377.83	378.75	0.002004	1.99	146.70	119.15	0.47	99.96
Reach 1	24000	1_BU				1.97	363.60	376.41	378.73	378.00	378.99	0.002282	2.25	163.94	128.24	0.51	99.63
Reach 1	24000	0p5_BU				2.03	389.40	376.41	378.79	378.07	379.07	0.002379	2.34	169.70	133.86	0.53	99.51
Reach 1	24000	0p5-CC-LC_BU				2.32	545.10	376.41	379.10	378.41	379.49	0.002862	2.81	205.24	189.62	0.59	98.42
Reach 1	23950	5_BU				1.70	290.80	376.45	378.45	377.80	378.64	0.002072	1.95	158.09	149.75	0.48	97.52
Reach 1	23950	1_BU				1.86	363.60	376.45	378.63	377.98	378.86	0.002311	2.19	179.52	160.16	0.51	96.43
Reach 1	23950	0p5_BU				1.92	389.40	376.45	378.68	378.05	378.94	0.002393	2.27	186.74	164.37	0.52	96.09
Reach 1	23950	0p5-CC-LC_BU				2.18	545.10	376.45	378.98	378.40	379.33	0.002851	2.70	231.22	220.12	0.58	94.43
Reach 1	23900	5_BU				1.61	290.80	376.38	378.36	377.74	378.53	0.002005	1.86	166.89	160.21	0.47	95.73
Reach 1	23900	1_BU				1.77	363.60	376.38	378.53	377.91	378.74	0.002248	2.10	188.45	181.46	0.50	95.07
Reach 1	23900	0p5_BU				1.83	389.40	376.38	378.58	377.97	378.81	0.002326	2.18	195.91	190.09	0.51	94.79
Reach 1	23900	0p5-CC-LC_BU				2.11	545.10	376.38	378.86	378.26	379.18	0.002716	2.59	246.61	271.43	0.57	93.04
Reach 1	23850	5_BU				1.54	290.80	376.45	378.27	377.67	378.43	0.002019	1.80	172.45	166.51	0.46	94.47
Reach 1	23850	1_BU				1.68	363.60	376.45	378.42	377.82	378.62	0.002297	2.04	193.09	182.82	0.50	93.77
Reach 1	23850	0p5_BU				1.72	389.40	376.45	378.47	377.87	378.68	0.002394	2.12	199.85	195.75	0.51	93.54
Reach 1	23850	0p5-CC-LC_BU				1.94	545.10	376.45	378.72	378.17	379.03	0.002982	2.56	239.04	259.78	0.59	92.87
Reach 1	23800	5_BU				1.38	290.80	376.34	378.14	377.66	378.31	0.002516	1.87	174.23	198.61	0.51	92.85
Reach 1	23800	1_BU				1.52	363.60	376.34	378.28	377.82	378.49	0.002808	2.11	196.86	217.68	0.55	91.67
Reach 1	23800	0p5_BU				1.56	389.40	376.34	378.32	377.87	378.54	0.002911	2.18	204.27	224.19	0.56	91.27
Reach 1	23800	0p5-CC-LC_BU				1.79	545.10	376.34	378.55	378.16	378.86	0.003472	2.61	245.56	274.10	0.62	89.32
Reach 1	23750	5_BU				1.12	290.80	376.43	378.03	377.61	378.15	0.002562	1.63	219.58	253.72	0.49	79.36
Reach 1	23750	1_BU				1.24	363.60	376.43	378.16	377.73	378.30	0.002786	1.82	254.08	272.79	0.52	78.90
Reach 1	23750	0p5_BU				1.28	389.40	376.43	378.21	377.77	378.36	0.002826	1.86	266.18	283.89	0.53	78.31
Reach 1	23750	0p5-CC-LC_BU				1.50	545.10	376.43	378.45	377.98	378.63	0.002976	2.09	342.61	345.85	0.55	74.87
Reach 1	23700	5_BU				0.80	290.80	376.64	377.87	377.52	377.96	0.003627	1.55	241.39	354.52	0.55	60.76
Reach 1	23700	1_BU				0.93	363.60	376.64	378.01	377.62	378.11	0.003284	1.63	293.67	393.12	0.54	60.18
Reach 1	23700	0p5_BU				0.98	389.40	376.64	378.05	377.62	378.16	0.003165	1.65	312.75	409.28	0.53	59.82
Reach 1	23700	0p5-CC-LC_BU				1.23	545.10	376.64	378.32	377.80	378.43	0.002643	1.74	441.03	574.95	0.50	57.32
Reach 1	23650	5_BU				0.83	290.80	376.40	377.63	377.35	377.74	0.003995	1.67	205.68	310.26	0.58	64.76
Reach 1	23650	1_BU				1.00	363.60	376.40	377.81	377.45	377.92	0.003320	1.71	265.26	368.14	0.55	64.64
Reach 1	23650	0p5_BU				1.05	389.40	376.40	377.86	377.47	377.98	0.003181	1.73	286.04	381.40	0.54	64.45
Reach 1	23650	0p5-CC-LC_BU				1.26	545.10	376.40	378.16	377.65	378.28	0.002676	1.77	418.72	516.32	0.50	61.09
Reach 1	23600	5_BU				0.90	290.80	375.86	377.50	377.06	377.58	0.002473	1.40	256.78	345.39	0.47	60.95
Reach 1	23600	1_BU				1.09	363.60	375.86	377.71	377.15	377.78	0.001993	1.42	332.32	384.93	0.44	61.02
Reach 1	23600	0p5_BU				1.14	389.40	375.86	377.77	377.18	377.84	0.001890	1.43	356.60	400.61	0.43	60.62
Reach 1	23600	0p5-CC-LC_BU				1.37	545.10	375.86	378.08	377.35	378.16	0.001638	1.50	495.28	481.55	0.41	58.27
Reach 1	23550	5_BU				0.95	290.80	375.45	377.39	376.96	377.47	0.002199	1.36	236.27	313.11	0.45	65.21
Reach 1	23550	1_BU				1.17	363.60	375.45	377.62	377.06	377.70	0.001695	1.37	316.38	368.59	0.41	65.69
Reach 1	23550	0p5_BU				1.23	389.40	375.45	377.69	377.10	377.77	0.001631	1.39	340.74	380.78	0.40	65.69
Reach 1	23550	0p5-CC-LC_BU				1.44	545.10	375.45	378.01	377.30	378.09	0.001478	1.47	477.28	479.60	0.39	62.85
Reach 1	23500	5_BU				1.07	290.80	375.07	377.31	376.64	377.38	0.001490	1.20	258.58	270.65	0.37	66.74
Reach 1	23500	1_BU				1.27	363.60	375.07	377.56	376.76	377.63	0.001227	1.22	336.85	351.69	0.35	67.14
Reach 1	23500	0p5_BU				1.32	389.40	375.07	377.63	376.80	377.69	0.001196	1.24	361.00	365.19	0.34	66.90
Reach 1	23500	0p5-CC-LC_BU				1.58	545.10	375.07	377.95	377.02	378.03	0.001140	1.36	489.85	444.86	0.35	65.61
Reach 1	23450	5_BU				1.17	290.80	375.14	377.26	376.42	377.32	0.001048	1.11	285.69	265.50	0.33	72.80
Reach 1	23450	1_BU				1.33	363.60	375.14	377.52	376.54	377.57	0.000933	1.13	359.74	316.14	0.31	72.67
Reach 1	23450	0p5_BU				1.38	389.40	375.14	377.58	376.57	377.64	0.000929	1.16	381.57	331.28	0.31	72.77
Reach 1	23450	0p5-CC-LC_BU				1.47	545.10	375.14	377.91	376.80	377.97	0.001052	1.24	505.98	451.06	0.33	70.01
Reach 1	23400	5_BU				1.23	290.80	375.03	377.21	376.39	377.27	0.000989	1.12	281.06	236.58	0.32	71.29
Reach 1	23400	1_BU				1.31	363.60	375.03	377.47	376.50	377.53	0.000962	1.12	347.35	283.55	0.31	70.00
Reach 1	23400	0p5_BU				1.36	389.40	375.03	377.54	376.53	377.60	0.000952	1.15	366.73	291.92	0.31	70.12
Reach 1	23400	0p5-CC-LC_BU				1.49	545.10	375.03	377.85	376.74	377.92	0.001087	1.28	466.33	368.07	0.33	69.07
Reach 1	23300	5_BU				1.32	290.80	374.20	377.06	376.25	377.16	0.001496	1.40	226.97	196.95	0.39	90.18
Reach 1	23300	1_BU				1.17	363.60	374.20	377.33	376.40	377.41	0.001676	1.37	289.93	277.45	0.40	87.64
Reach 1	23300	0p5_BU				1.21	389.40	374.20	377.40	376.45	377.48	0.001615	1.37	310.26	289.05	0.40	87.39
Reach 1	23300	0p5-CC-LC_BU				1.41	545.10	374.20	377.70	376.71	377.80	0.001624	1.52	403.73	343.56	0.41	86.74
Reach 1	23200	5_BU				1.15	290.80	374.25	376.72	376.38	376.92	0.003629	2.01	150.64	143.99	0.60	94.78
Reach 1	23200	1_BU				1.18	363.60	374.25	376.97	376.53	377.17	0.003575	2.02	188.78	178.35	0.59	93.43
Reach 1	23200	0p5_BU				1.12	389.40	374.25	377.04	376.57	377.24	0.003783	2.01	202.83	198.09	0.61	92.66
Reach 1	23200	0p5-CC-LC_BU				1.23	545.10	374.25	377.32	376.86	377.55	0.003921	2.17	265.29	256.30	0.63	91.26
Reach 1	23016	5_BU				1.26	290.80	373.81	376.26		376.39	0.002152	1.63	198.73	222.39	0.46	84.28
Reach 1	23016	1_BU				1.22	363.60	373.81	376.48		376.60	0.002346	1.67	249.67	291.08	0.48	81.90
Reach 1	23016	0p5_BU				1.24	389.40	373.81	376.54		376.66	0.002319	1.67	266.09	307.22	0.48	80.69
Reach 1	23016	0p5-CC-LC_BU				1.43	545.10	373.81	376.85		376.99	0.002114	1.76	356.72	345.38	0.47	76.40
Reach 1	22900	5_BU				1.10	290.80	373.42	375.67		375.97	0.006033	2.49	123.78	154.32	0.76	94.80
Reach 1	22900	1_BU				1.28	363.60	373.42	375.92		376.21	0.004694	2.43	163.09	199.11	0.69	92.00
Reach 1	22900	0p5_BU				1.35	389.40	373.42	376.00		376.28	0.004366	2.43	176.86	213.80	0.67	90.99
Reach 1	22900	0p5-CC-LC_BU				1.32	545.10	373.42	376.37		376.63	0.004288	2.37	266.02	335.41	0.66	83.72
Reach 1	22750	5_BU				1.31	290.80	372.99	375.22		375.38	0.002450	1.78	163.49	126.86	0.50	100.00
Reach 1	22750	1_BU				1.21	363.60	372.99	375.46		375.63	0.002868	1.83	198.58	172.22	0.53	99.99
Reach 1	22750	0p5_BU				1.17	389.40	372.99	375.55		375.72	0.002982	1.83	213.24	192.08	0.54	99.98
Reach 1	22750	0p5-CC-LC_BU				1.20	545.10	372.99	375.92		376.09	0.002921	1.84	299.14	284.67	0.54	99.31
Reach 1	22584	5_BU				1.37	290.80	372.69	374.84		374.99	0.002172	1.73	168.93	131.58	0.47	99.94
Reach 1	22584	1_BU				1.58	363.60	372.69	375.06		375.23	0.002070	1.86	198.65	149.09	0.47	99.65
Reach 1	22584	0p5_BU				1.65	389.40	372.69	375.12		375.31	0.002056	1.91	209.51	173.56	0.47	99.47
Reach 1	22584	0p5-CC-LC_BU				2.00	545.10	372.69	375.48		375.70	0.001967	2.12	288.44	284.11	0.48	95.88
Reach 1	22500	5_BU				1.54	290.80	372.35	374.65		374.82	0.002012	1.80	168.51	128.37	0.46	98.09
Reach 1	22500	1_BU				1.63	363.60	372.35	374.87		375.06	0.002087	1.95	198.45	151.08	0.49	97.15
Reach 1	22500	0p5_BU				1.68	389.40	372.35	374.93		375.13	0.002093	2.00	208.89	158.67	0.49	96.97
Reach 1	22500	0p5-CC-LC_BU				2.01	545.10	372.35	375.27		375.52	0.002177	2.27	266.76	236.70	0.51	94.50
Reach 1	22400	5_BU				1.60	290.80	372.16	374.45		374.62	0.001956	1.84	159.96	109.70	0.46	98.21
Reach 1	22400	1_BU				1.78	363.60	372.16	374.64		374.85	0.002064	2.03	181.74	134.44	0.49	97.21
Reach 1	22400	0p5_BU				1.83	389.40	372.16	374.70		374.92	0.002102	2.09	189.33	139.15	0.49	96.82
Reach 1	22400	0p5-CC-LC_BU				2.12	545.10	372.16	375.02		375.29	0.002234	2.39	247.67	327.51	0.52	92.89

HEC-RAS Plan: KR_Jam_48010 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	22300	5_BU				1.39	290.80	371.96	374.08		374.35	0.003512	2.29	130.66	118.86	0.62	98.51
Reach 1	22300	1_BU				1.49	363.60	371.96	374.23		374.56	0.003870	2.55	150.16	140.76	0.67	97.21
Reach 1	22300	0p5_BU				1.53	389.40	371.96	374.28		374.62	0.003991	2.64	156.95	150.69	0.68	96.69
Reach 1	22300	0p5-CC-LC_BU				1.73	545.10	371.96	374.50	374.36	374.96	0.004706	3.10	196.71	213.04	0.75	93.00
Reach 1	22200	5_BU				1.32	290.80	371.77	373.91		374.04	0.002049	1.67	179.57	183.13	0.46	93.08
Reach 1	22200	1_BU				1.47	363.60	371.77	374.07		374.22	0.002077	1.80	212.09	217.42	0.47	90.09
Reach 1	22200	0p5_BU				1.53	389.40	371.77	374.12		374.28	0.002057	1.83	224.26	231.27	0.47	88.80
Reach 1	22200	0p5-CC-LC_BU				1.79	545.10	371.77	374.38		374.57	0.002019	2.01	296.98	324.53	0.48	81.43
Reach 1	22094	5_BU				1.06	310.30	371.63	373.58		373.75	0.003438	1.84	170.44	201.19	0.57	92.48
Reach 1	22094	1_BU				1.18	389.90	371.63	373.74		373.93	0.003274	1.92	207.80	253.50	0.57	89.39
Reach 1	22094	0p5_BU				1.21	418.50	371.63	373.80		373.99	0.003208	1.95	223.01	266.72	0.56	88.57
Reach 1	22094	0p5-CC-LC_BU				1.29	586.00	371.63	374.08		374.27	0.003085	1.99	305.59	361.49	0.56	80.32
Reach 1	22050	5_BU				0.97	310.30	371.32	373.41		373.58	0.004083	1.89	178.03	217.83	0.61	94.94
Reach 1	22050	1_BU				1.05	389.90	371.32	373.56		373.76	0.004239	2.03	215.09	274.47	0.63	94.47
Reach 1	22050	0p5_BU				1.06	418.50	371.32	373.62		373.83	0.004262	2.04	232.59	299.37	0.63	93.82
Reach 1	22050	0p5-CC-LC_BU				1.11	586.00	371.32	373.87		374.10	0.004632	2.21	316.69	382.68	0.67	91.25
Reach 1	21950	5_BU				0.85	310.30	370.75	372.91		373.10	0.005049	1.92	160.03	239.44	0.67	85.97
Reach 1	21950	1_BU				0.88	389.90	370.75	373.07		373.27	0.005012	1.96	199.41	288.74	0.67	84.72
Reach 1	21950	0p5_BU				0.89	418.50	370.75	373.13		373.32	0.005164	2.00	213.65	309.83	0.68	85.49
Reach 1	21950	0p5-CC-LC_BU				0.96	586.00	370.75	373.39		373.59	0.004627	1.99	301.48	440.28	0.65	81.19
Reach 1	21825	5_BU				0.84	310.30	370.87	372.60		372.72	0.002103	1.23	221.53	313.03	0.43	63.66
Reach 1	21825	1_BU				0.98	389.90	370.87	372.83		372.92	0.001731	1.24	299.33	413.95	0.40	65.74
Reach 1	21825	0p5_BU				1.03	418.50	370.87	372.90		372.98	0.001616	1.24	325.68	444.97	0.39	65.14
Reach 1	21825	0p5-CC-LC_BU				1.13	586.00	370.87	373.22		373.29	0.001320	1.19	499.06	744.61	0.36	60.26
Reach 1	21700	5_BU				1.29	310.30	369.78	372.29		372.44	0.002466	1.78	191.38	187.43	0.50	95.91
Reach 1	21700	1_BU				1.41	389.90	369.78	372.49		372.67	0.002523	1.90	234.40	283.52	0.51	94.63
Reach 1	21700	0p5_BU				1.41	418.50	369.78	372.55		372.74	0.002600	1.94	251.25	322.29	0.52	94.01
Reach 1	21700	0p5-CC-LC_BU				1.56	586.00	369.78	372.86		373.07	0.002682	2.10	353.60	502.07	0.54	90.12
Reach 1	21600	5_BU				1.22	310.30	369.52	372.01		372.18	0.002828	1.84	187.19	236.34	0.53	94.09
Reach 1	21600	1_BU				1.35	389.90	369.52	372.20		372.39	0.002916	2.00	229.11	287.47	0.55	93.78
Reach 1	21600	0p5_BU				1.39	418.50	369.52	372.25		372.45	0.002958	2.05	242.70	302.43	0.55	93.14
Reach 1	21600	0p5-CC-LC_BU				1.57	586.00	369.52	372.51		372.76	0.003205	2.31	320.06	429.72	0.59	89.91
Reach 1	21530	5_BU				1.18	310.30	369.79	371.83		371.97	0.002667	1.74	219.64	303.44	0.51	88.93
Reach 1	21530	1_BU				1.36	389.90	369.79	372.04		372.18	0.002343	1.79	278.36	385.00	0.49	86.18
Reach 1	21530	0p5_BU				1.41	418.50	369.79	372.09		372.24	0.002347	1.83	294.70	401.41	0.49	85.33
Reach 1	21530	0p5-CC-LC_BU				1.64	586.00	369.79	372.34		372.53	0.002545	2.11	388.74	602.41	0.53	82.63
Reach 1	21450	5_BU				1.20	310.30	368.92	371.65		371.77	0.002301	1.62	233.46	306.20	0.47	89.18
Reach 1	21450	1_BU				1.18	389.90	368.92	371.89		372.00	0.002269	1.60	312.16	520.10	0.47	85.75
Reach 1	21450	0p5_BU				1.24	418.50	368.92	371.95		372.06	0.002193	1.62	338.16	567.84	0.46	85.18
Reach 1	21450	0p5-CC-LC_BU				1.51	586.00	368.92	372.21		372.35	0.002047	1.78	486.72	775.07	0.46	81.24
Reach 1	21319	5_BU				1.19	310.30	368.49	371.18		371.39	0.003856	2.07	164.80	194.82	0.61	95.21
Reach 1	21319	1_BU				1.19	389.90	368.49	371.39		371.61	0.004191	2.16	205.28	285.52	0.63	93.43
Reach 1	21319	0p5_BU				1.18	418.50	368.49	371.45		371.68	0.004310	2.18	220.95	319.66	0.64	92.46
Reach 1	21319	0p5-CC-LC_BU				1.26	586.00	368.49	371.71		371.97	0.004657	2.37	299.25	437.61	0.68	89.27
Reach 1	21250	5_BU				1.10	310.30	368.22	370.93		371.12	0.003850	1.99	170.72	221.85	0.61	94.84
Reach 1	21250	1_BU				1.07	389.90	368.22	371.09		371.31	0.004572	2.13	205.36	286.20	0.66	93.86
Reach 1	21250	0p5_BU				1.07	418.50	368.22	371.15		371.37	0.004632	2.15	219.32	306.44	0.66	93.11
Reach 1	21250	0p5-CC-LC_BU				1.26	586.00	368.22	371.38		371.65	0.004609	2.38	285.11	377.02	0.68	90.67
Reach 1	21200	5_BU				0.94	310.30	368.17	370.81		370.93	0.003153	1.63	216.81	298.77	0.54	89.40
Reach 1	21200	1_BU				1.05	389.90	368.17	370.97		371.11	0.003048	1.72	262.42	343.48	0.54	88.21
Reach 1	21200	0p5_BU				1.09	418.50	368.17	371.03		371.17	0.002987	1.75	280.62	362.62	0.53	87.81
Reach 1	21200	0p5-CC-LC_BU				1.31	586.00	368.17	371.29		371.45	0.002816	1.91	371.38	446.07	0.53	85.43
Reach 1	21150	5_BU				0.92	310.30	368.09	370.60		370.76	0.004098	1.82	192.21	282.37	0.61	87.70
Reach 1	21150	1_BU				1.10	389.90	368.09	370.79		370.95	0.003464	1.89	240.27	344.29	0.58	86.52
Reach 1	21150	0p5_BU				1.16	418.50	368.09	370.85		371.01	0.003315	1.92	258.68	362.75	0.57	86.37
Reach 1	21150	0p5-CC-LC_BU				1.43	586.00	368.09	371.12		371.31	0.003021	2.10	347.37	421.30	0.56	83.23
Reach 1	21100	5_BU				1.15	310.30	368.03	370.49	370.02	370.60	0.002359	1.61	226.33	262.21	0.48	79.91
Reach 1	21100	1_BU				1.21	389.90	368.03	370.68	370.16	370.80	0.002353	1.65	277.41	334.20	0.48	77.11
Reach 1	21100	0p5_BU				1.24	418.50	368.03	370.75	370.20	370.87	0.002356	1.67	297.53	362.11	0.48	76.67
Reach 1	21100	0p5-CC-LC_BU				1.48	586.00	368.03	371.03	370.43	371.17	0.002342	1.86	398.48	463.89	0.49	74.91
Reach 1	21050	5_BU				1.26	310.30	367.97	370.29		370.46	0.002929	1.90	191.00	244.56	0.54	86.30
Reach 1	21050	1_BU				1.36	389.90	367.97	370.46		370.65	0.003134	2.06	229.05	290.77	0.56	84.41
Reach 1	21050	0p5_BU				1.30	418.50	367.97	370.52		370.71	0.003356	2.07	246.08	328.46	0.58	82.77
Reach 1	21050	0p5-CC-LC_BU				1.44	586.00	367.97	370.80		371.01	0.003472	2.23	341.07	441.35	0.59	78.51
Reach 1	21000	5_BU				1.23	310.30	367.91	370.19		370.30	0.002106	1.60	242.64	292.99	0.46	81.07
Reach 1	21000	1_BU				1.37	389.90	367.91	370.35		370.48	0.002107	1.73	288.32	370.42	0.47	79.52
Reach 1	21000	0p5_BU				1.42	418.50	367.91	370.40		370.54	0.002119	1.78	305.39	399.39	0.48	78.96
Reach 1	21000	0p5-CC-LC_BU				1.66	586.00	367.91	370.66		370.83	0.002295	2.05	406.13	525.09	0.51	76.54
Reach 1	20950	5_BU				1.27	310.30	367.85	370.14		370.20	0.001320	1.29	324.70	339.35	0.37	62.22
Reach 1	20950	1_BU				1.44	389.90	367.85	370.31		370.38	0.001337	1.41	385.51	413.89	0.38	61.40
Reach 1	20950	0p5_BU				1.49	418.50	367.85	370.36		370.44	0.001392	1.47	405.84	435.02	0.39	61.79
Reach 1	20950	0p5-CC-LC_BU				1.75	586.00	367.85	370.62		370.72	0.001478	1.69	536.22	634.98	0.41	59.35
Reach 1	20892	5_BU				1.23	310.30	367.84	370.01		370.11	0.002201	1.63	264.10	329.26	0.47	66.04
Reach 1	20892	1_BU				1.38	389.90	367.84	370.19		370.29	0.002131	1.73	325.62	413.64	0.47	63.85
Reach 1	20892	0p5_BU				1.43	418.50	367.84	370.23		370.35	0.002154	1.78	346.12	442.75	0.48	63.24
Reach 1	20892	0p5-CC-LC_BU				1.64	586.00	367.84	370.48		370.62	0.002353	2.04	476.62	669.29	0.51	60.79
Reach 1	20850	5_BU				1.13	310.30	367.74	369.95		370.03	0.002144	1.52	286.16	384.64	0.46	57.10
Reach 1	20850	1_BU				1.24	389.90	367.74	370.12		370.21	0.002205	1.64	359.70	475.29	0.47	56.84
Reach 1	20850	0p5_BU				1.29	418.50	367.74	370.17		370.26	0.002203	1.68	383.36	495.73	0.47	56.45
Reach 1	20850	0p5-CC-LC_BU				1.53	586.00	367.74	370.41		370.53	0.002297	1.92	519.67	681.40	0.50	54.79
Reach 1	20800	5_BU				1.22	310.30	367.71	369.79		369.93	0.003000	1.90	211.67	295.68	0.55	67.72
Reach 1	20800	1_BU				1.36	389.90	367.71	369.94		370.10	0.003213	2.10	261.20	388.81	0.58	67.19
Reach 1	20800	0p5_BU				1.40	418.50	367.71	369.98		370.15	0.003246	2.16	279.53	423.21	0.58	66.45
Reach 1	20800	0p5-CC-LC_BU				1.63	586.00	367.71	370.21		370.42	0.003380	2.44	395.24	594.50	0.61	62.34
Reach 1	20750	5_BU				1.18	310.30	367.67	369.71		369.80	0.002367	1.64	298.34	406.09	0.48	53.49
Reach 1	20750	1_BU				1.27	389.90	367.67	369.86		369.96	0.002613	1.82	362.54	477.33	0.51	53.16
Reach 1	20750	0p5_BU				1.30	418.50	367.67	369.91		370.02	0.002620	1.85	386.02	496.13	0.52	52.37
Reach 1	20750	0p5-CC-LC_BU				1.52	586.00	367.67	370.15		370.27	0.002638	2.05	516.91	629.73	0.53	49.31
Reach 1	20700	5_BU				1.17	310.30	367.63	369.57		369.70	0.003350	1.94	247.59	384.21	0.57	59.65
Reach 1	20700	1_BU				1.26	389.90	367.63	369.72		369.86	0.003394	2.06	310.65	461.34	0.59	56.95
Reach 1	20700	0p5_BU				1.30	418.50	367.63	369.77		369.91	0.003365	2.09	333.78	473.09	0.59	56.06
Reach 1	20700	0p5-CC-LC_BU				1.56	586.00	367.63	370.03		370.18	0.003101	2.26	462.57	567.47	0.58	51.70
Reach 1	20650	5_BU				1.13	310.30	367.50	369.47		369.59	0.003096	1.83	238.08	320.70	0.55	57.86
Reach 1	20650	1_BU				1.27	389.90	367.50	369.62		369.75	0.002991	1.95	289.75	365.50	0.55	55.70
Reach 1	20650	0p5_BU				1.32	418.50	367.50	369.67		369.81	0.002981	1.99	308.13	383.88	0.55	55.21
Reach 1	20650	0p5-CC-LC_BU				1.59	586.00	367.50	369.94		370.09	0.002797	2.18	418.60	484.79	0.55	51.62
Reach 1	20600	5_BU				1.12	310.30	367.38	369.38		369.47	0.002352	1.53	250.84	285.89	0.46	67.71
Reach 1	20600	1_BU				1.25	389.90	367.38	369.53		369.64	0.002396	1.64	296.95	328.47	0.47	66.20

HEC-RAS Plan: KR_Jam_48010 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	20600	0p5_BU				1.29	418.50	367.38	369.58		369.70	0.002415	1.69	313.35	348.73	0.47	65.76
Reach 1	20600	0p5-CC-LC_BU				1.51	586.00	367.38	369.85		369.98	0.002425	1.86	420.00	504.18	0.48	62.79
Reach 1	20550	5_BU				1.14	310.30	367.25	369.20		369.34	0.003036	1.81	226.63	325.75	0.54	77.10
Reach 1	20550	1_BU				1.28	389.90	367.25	369.35		369.51	0.003049	1.97	276.23	374.52	0.55	75.12
Reach 1	20550	0p5_BU				1.33	418.50	367.25	369.40		369.56	0.003040	2.01	294.45	391.52	0.56	74.34
Reach 1	20550	0p5-CC-LC_BU				1.59	586.00	367.25	369.66		369.85	0.002903	2.22	418.04	590.28	0.56	70.06
Reach 1	20400	5_BU				0.94	310.30	366.84	368.57		368.76	0.005556	2.16	170.25	229.54	0.71	63.53
Reach 1	20400	1_BU				1.06	389.90	366.84	368.69		368.92	0.005728	2.37	201.33	261.33	0.74	63.13
Reach 1	20400	0p5_BU				1.09	418.50	366.84	368.73		368.97	0.005845	2.45	211.49	271.49	0.75	62.94
Reach 1	20400	0p5-CC-LC_BU				1.30	586.00	366.84	368.95	368.72	369.25	0.006339	2.86	284.26	409.66	0.80	63.17
Reach 1	20221	5_BU				0.91	310.30	365.65	368.04		368.09	0.001942	1.10	336.42	488.26	0.37	56.84
Reach 1	20221	1_BU				1.03	389.90	365.65	368.18		368.24	0.001936	1.18	410.32	586.86	0.37	56.33
Reach 1	20221	0p5_BU				1.07	418.50	365.65	368.23		368.29	0.001896	1.20	439.59	618.86	0.37	55.74
Reach 1	20221	0p5-CC-LC_BU				1.23	586.00	365.65	368.45		368.51	0.002045	1.33	585.41	787.15	0.38	53.24
Reach 1	19763	5_BU				0.88	310.30	364.71	366.75		366.84	0.004562	1.41	236.51	330.42	0.48	91.75
Reach 1	19763	1_BU				0.92	389.90	364.71	366.97		367.05	0.004076	1.31	327.58	505.95	0.44	87.18
Reach 1	19763	0p5_BU				0.91	418.50	364.71	367.05		367.12	0.004019	1.26	372.38	590.30	0.42	85.23
Reach 1	19763	0p5-CC-LC_BU				1.02	586.00	364.71	367.38		367.43	0.003116	1.11	600.04	814.54	0.35	75.78
Reach 1	19335	5_BU				1.35	310.30	363.23	365.56	364.87	365.66	0.001963	1.49	237.40	275.09	0.41	94.40
Reach 1	19335	1_BU				1.44	389.90	363.23	365.72	365.07	365.85	0.002265	1.62	289.65	352.69	0.43	92.01
Reach 1	19335	0p5_BU				1.48	418.50	363.23	365.78	365.11	365.91	0.002361	1.66	308.71	384.43	0.44	91.44
Reach 1	19335	0p5-CC-LC_BU				1.43	586.00	363.23	366.11	365.35	366.23	0.003271	1.64	487.32	709.56	0.44	80.73
Reach 1	19009	5_BU				0.64	310.30	362.65	364.93	364.42	364.99	0.002114	1.07	296.34	498.95	0.43	99.54
Reach 1	19009	1_BU				0.68	389.90	362.65	365.06	364.53	365.12	0.002120	1.10	366.57	606.34	0.43	99.06
Reach 1	19009	0p5_BU				0.69	418.50	362.65	365.09	364.57	365.16	0.002157	1.11	389.60	639.56	0.43	98.89
Reach 1	19009	0p5-CC-LC_BU				0.79	586.00	362.65	365.28	364.80	365.35	0.002247	1.19	523.19	793.28	0.43	97.63
Reach 1	18575	5_BU				0.63	310.30	361.28	363.68	363.15	363.73	0.004237	1.00	318.76	567.80	0.40	96.79
Reach 1	18575	1_BU				0.68	389.90	361.28	363.82	363.27	363.87	0.004058	0.98	412.11	715.80	0.38	95.68
Reach 1	18575	0p5_BU				0.70	418.50	361.28	363.87	363.31	363.92	0.003946	0.99	443.08	748.03	0.38	95.26
Reach 1	18575	0p5-CC-LC_BU				0.83	586.00	361.28	364.06	363.53	364.11	0.003706	1.05	601.50	931.18	0.37	93.44
Reach 1	18123	5_BU				1.07	310.30	360.36	362.21	361.82	362.32	0.002875	1.69	238.94	334.97	0.52	66.31
Reach 1	18123	1_BU				1.14	389.90	360.36	362.34	361.97	362.46	0.003046	1.81	287.24	396.99	0.54	63.78
Reach 1	18123	0p5_BU				1.13	418.50	360.36	362.39	362.00	362.51	0.003118	1.83	307.15	428.45	0.55	62.49
Reach 1	18123	0p5-CC-LC_BU				1.20	586.00	360.36	362.63	362.22	362.76	0.003193	1.92	442.24	660.85	0.56	58.26
Reach 1	18000	5_BU				0.99	310.30	359.91	361.94	361.48	362.01	0.002860	1.49	296.38	463.08	0.48	49.86
Reach 1	18000	1_BU				1.12	389.90	359.91	362.09	361.68	362.16	0.002638	1.55	367.14	498.75	0.47	47.49
Reach 1	18000	0p5_BU				1.15	418.50	359.91	362.14	361.71	362.21	0.002596	1.57	392.10	526.92	0.47	46.67
Reach 1	18000	0p5-CC-LC_BU				1.10	586.00	359.91	362.40	361.85	362.47	0.002556	1.52	544.36	669.25	0.46	40.46
Reach 1	17900	5_BU				0.95	310.30	359.66	361.67	361.24	361.77	0.003020	1.58	242.42	360.65	0.52	53.91
Reach 1	17900	1_BU				1.08	389.90	359.66	361.84	361.35	361.94	0.002870	1.67	305.84	417.39	0.51	53.27
Reach 1	17900	0p5_BU				1.12	418.50	359.66	361.89	361.43	361.99	0.002853	1.70	327.50	443.60	0.51	53.00
Reach 1	17900	0p5-CC-LC_BU				1.24	586.00	359.66	362.13	361.64	362.25	0.002933	1.83	452.37	582.85	0.53	50.21
Reach 1	17850	5_BU				1.00	310.30	359.56	361.56	361.04	361.65	0.002775	1.59	258.96	344.65	0.51	59.90
Reach 1	17850	1_BU				1.15	389.90	359.56	361.71	361.20	361.82	0.002745	1.73	317.12	402.50	0.52	60.30
Reach 1	17850	0p5_BU				1.19	418.50	359.56	361.76	361.29	361.87	0.002723	1.77	337.42	423.61	0.52	59.92
Reach 1	17850	0p5-CC-LC_BU				1.39	586.00	359.56	361.99	361.50	362.13	0.002816	2.02	448.18	561.09	0.54	57.93
Reach 1	17800	5_BU				1.13	310.30	359.59	361.43	360.93	361.52	0.002534	1.65	276.88	396.20	0.50	58.23
Reach 1	17800	1_BU				1.15	389.90	359.59	361.60	361.11	361.69	0.002519	1.66	356.33	528.23	0.50	54.08
Reach 1	17800	0p5_BU				1.17	418.50	359.59	361.65	361.15	361.74	0.002531	1.69	384.12	556.48	0.50	53.46
Reach 1	17800	0p5-CC-LC_BU				1.38	586.00	359.59	361.89	361.41	361.99	0.002390	1.83	529.28	665.52	0.50	50.10
Reach 1	17750	5_BU				1.16	310.30	359.63	361.22	360.84	361.36	0.003583	1.96	222.48	326.95	0.58	56.67
Reach 1	17750	1_BU				1.27	389.90	359.63	361.38	361.01	361.52	0.003565	2.07	281.34	437.95	0.58	54.20
Reach 1	17750	0p5_BU				1.31	418.50	359.63	361.43	361.06	361.58	0.003552	2.09	304.56	470.02	0.58	53.26
Reach 1	17750	0p5-CC-LC_BU				1.51	586.00	359.63	361.68	361.30	361.83	0.003461	2.25	435.21	607.39	0.58	48.71
Reach 1	17700	5_BU				1.16	310.30	359.33	361.01	360.56	361.13	0.002672	1.73	232.84	346.60	0.51	60.72
Reach 1	17700	1_BU				1.29	389.90	359.33	361.17	360.69	361.29	0.002695	1.86	293.22	448.97	0.52	59.04
Reach 1	17700	0p5_BU				1.34	418.50	359.33	361.22	360.73	361.34	0.002673	1.90	316.70	487.24	0.52	58.16
Reach 1	17700	0p5-CC-LC_BU				1.58	586.00	359.33	361.46	360.96	361.60	0.002646	2.10	448.63	625.66	0.54	54.33
Reach 1	17650	5_BU				1.00	310.30	359.01	360.74	360.23	360.81	0.002061	1.39	277.45	397.42	0.44	55.45
Reach 1	17650	1_BU				1.15	389.90	359.01	360.89	360.35	360.97	0.001979	1.48	347.26	497.90	0.44	54.45
Reach 1	17650	0p5_BU				1.20	418.50	359.01	360.94	360.40	361.02	0.001964	1.51	373.11	529.22	0.44	54.10
Reach 1	17650	0p5-CC-LC_BU				1.41	586.00	359.01	361.17	360.60	361.26	0.002015	1.69	506.96	647.48	0.46	51.56
Reach 1	17600	5_BU				0.90	310.30	358.88	360.60	360.06	360.68	0.002311	1.35	252.03	368.78	0.46	40.29
Reach 1	17600	1_BU				0.97	389.90	358.88	360.76	360.20	360.84	0.002348	1.44	324.30	507.47	0.47	40.71
Reach 1	17600	0p5_BU				1.00	418.50	358.88	360.82	360.24	360.89	0.002333	1.45	352.39	547.99	0.47	40.51
Reach 1	17600	0p5-CC-LC_BU				1.22	586.00	358.88	361.04	360.50	361.13	0.002394	1.68	489.68	672.99	0.49	40.96
Reach 1	17574	5_BU				0.81	310.30	358.84	360.54	360.01	360.61	0.002531	1.31	263.32	416.15	0.47	37.02
Reach 1	17574	1_BU				0.90	389.90	358.84	360.70	360.16	360.77	0.002419	1.38	342.01	516.65	0.46	37.61
Reach 1	17574	0p5_BU				0.93	418.50	358.84	360.76	360.21	360.83	0.002404	1.40	370.27	551.83	0.47	37.87
Reach 1	17574	0p5-CC-LC_BU				1.12	586.00	358.84	360.98	360.47	361.06	0.002421	1.60	502.67	635.09	0.48	38.40
Reach 1	17500	5_BU				0.61	310.30	358.91	360.39	359.88	360.44	0.001799	0.93	310.55	507.82	0.38	26.18
Reach 1	17500	1_BU				0.75	389.90	358.91	360.58	360.01	360.62	0.001497	0.98	422.96	672.17	0.36	29.10
Reach 1	17500	0p5_BU				0.80	418.50	358.91	360.63	360.05	360.68	0.001550	1.04	458.49	710.02	0.37	30.65
Reach 1	17500	0p5-CC-LC_BU				1.03	586.00	358.91	360.87	360.28	360.91	0.001413	1.16	645.66	870.45	0.37	31.75
Reach 1	17450	5_BU				0.79	310.30	359.04	360.34	359.76	360.40	0.001853	1.11	310.59	532.63	0.40	23.84
Reach 1	17450	1_BU				0.97	389.90	359.04	360.53	359.87	360.58	0.001538	1.16	428.40	668.01	0.38	24.81
Reach 1	17450	0p5_BU				1.02	418.50	359.04	360.58	359.91	360.63	0.001499	1.18	462.84	705.97	0.37	24.77
Reach 1	17450	0p5-CC-LC_BU				1.25	586.00	359.04	360.82	360.18	360.87	0.001376	1.30	650.73	862.50	0.37	23.97
Reach 1	17350	5_BU				0.83	310.30	358.05	360.04	359.63	360.21	0.003855	1.51	182.52	224.25	0.53	36.48
Reach 1	17350	1_BU				0.79	389.90	358.05	360.27	359.83	360.42	0.003758	1.47	250.01	405.70	0.53	36.92
Reach 1	17350	0p5_BU				0.80	418.50	358.05	360.34	359.90	360.48	0.003538	1.44	284.05	490.19	0.52	37.23
Reach 1	17350	0p5-CC-LC_BU				0.96	586.00	358.05	360.65	360.32	360.74	0.002816	1.46	487.11	805.07	0.48	38.71
Reach 1	17200	5_BU				0.90	310.30	357.76	359.56	359.23	359.81	0.006161	2.00	148.21	156.56	0.67	45.45
Reach 1	17200	1_BU				1.08	389.90	357.76	359.81	359.38	360.05	0.005085	2.04	191.80	197.05	0.63	47.81
Reach 1	17200	0p5_BU				1.15	418.50	357.76	359.88	359.48	360.13	0.004868	2.07	207.68	236.80	0.62	48.42
Reach 1	17200	0p5-CC-LC_BU				1.53	586.00	357.76	360.27	359.87	360.46	0.003839	2.20	356.12	541.25	0.57	49.03
Reach 1	17050	5_BU				2.08	310.30	356.29	359.31	358.29	359.46	0.001286	1.73	195.75	168.81	0.38	98.42
Reach 1	17050	1_BU				2.28	389.90	356.29	359.52	358.49	359.70	0.001441	1.93	244.64	284.64	0.41	96.30
Reach 1	17050	0p5_BU				2.34	418.50	356.29	359.59	358.56	359.78	0.001482	1.99	264.96	326.43	0.42	95.22
Reach 1	17050	0p5-CC-LC_BU				2.67	586.00	356.29	359.92	358.91	360.15	0.001595	2.25	408.12	557.30	0.44	87.84
Reach 1	16812	5_BU				1.29	310.30	354.74	358.79	358.37	359.00	0.003176	2.03	164.67	172.46	0.57	97.13
Reach 1	16812	1_BU				1.44	389.90	354.74	358.98	358.54	359.22	0.003193	2.21	199.14	203.94	0.59	96.17
Reach 1	16812	0p5_BU				1.50	418.50	354.74	359.04	358.59	359.29	0.003192	2.26	211.79	219.23	0.59	95.61
Reach 1	16812	0p5-CC-LC_BU				1.80	586.00	354.74	359.33	358.94	359.64	0.003263	2.55	288.64	290.27	0.61	92.15
Reach 1	16285	5_BU				1.29	310.30	354.72	357.31	356.83	357.47	0.002544	1.79	186.03	178.06	0.50	96.89
Reach 1	16285	1_BU				1.47	389.90	354.72	357.49	357.00	357.68	0.002533	1.95	219.80	195.26	0.51	95.47
Reach 1	16285	0p5_BU				1.53	418.50	354.72	357.55	357.05	357.75	0.002503	1.99	233.03	213.33	0.51	95.03
Reach 1	16285	0p5-CC-LC_BU				1.89	586.00	354.72	357.91	357.31	358.13	0.002260	2.18	330.56	349.48	0.51	91.31

HEC-RAS Plan: KR_Jam_48010 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	15937	5_BU				1.15	310.30	353.96	356.55	355.99	356.66	0.001993	1.48	213.08	196.51	0.44	99.64
Reach 1	15937	1_BU				1.32	389.90	353.96	356.79	356.15	356.91	0.001754	1.52	262.73	218.22	0.42	99.27
Reach 1	15937	0p5_BU				1.37	418.50	353.96	356.88	356.19	356.99	0.001694	1.53	282.03	231.75	0.42	99.11
Reach 1	15937	0p5-CC-LC_BU				1.53	586.00	353.96	357.31	356.41	357.43	0.001506	1.55	401.68	322.50	0.40	97.68
Reach 1	15657	5_BU				1.80	310.30	352.57	355.89	355.16	356.09	0.002009	2.00	156.62	94.77	0.48	99.89
Reach 1	15657	1_BU				1.98	389.90	352.57	356.08	355.35	356.34	0.002275	2.26	176.12	114.07	0.51	99.71
Reach 1	15657	0p5_BU				2.05	418.50	352.57	356.15	355.42	356.43	0.002331	2.34	184.40	123.76	0.52	99.58
Reach 1	15657	0p5-CC-LC_BU				2.33	586.00	352.57	356.43	355.77	356.84	0.002921	2.86	226.94	196.65	0.60	98.51
Reach 1	15073	5_BU				1.03	310.30	351.49	354.04	353.78	354.29	0.005298	2.22	139.94	136.15	0.70	100.00
Reach 1	15073	1_BU				1.17	389.90	351.49	354.31	353.94	354.55	0.004314	2.18	178.93	153.78	0.64	99.97
Reach 1	15073	0p5_BU				1.18	418.50	351.49	354.41	353.99	354.64	0.004107	2.15	195.11	165.66	0.63	99.95
Reach 1	15073	0p5-CC-LC_BU				1.50	586.00	351.49	354.93	354.28	355.14	0.002695	2.04	288.09	193.33	0.53	99.86
Reach 1	14797	5_BU				1.93	310.30	350.08	353.33	352.47	353.51	0.001652	1.88	164.99	85.46	0.43	100.00
Reach 1	14797	1_BU				2.20	389.90	350.08	353.63	352.66	353.85	0.001641	2.04	190.74	86.57	0.44	100.00
Reach 1	14797	0p5_BU				2.29	418.50	350.08	353.73	352.73	353.96	0.001638	2.10	199.49	86.94	0.44	100.00
Reach 1	14797	0p5-CC-LC_BU				2.79	586.00	350.08	354.27	353.09	354.56	0.001665	2.38	246.59	88.73	0.45	100.00
Reach 1	14088	5_BU				1.84	320.00	349.51	352.07	351.30	352.26	0.001887	1.96	163.20	156.19	0.46	99.97
Reach 1	14088	1_BU				2.02	403.00	349.51	352.25	351.51	352.51	0.002188	2.25	179.49	159.65	0.51	99.92
Reach 1	14088	0p5_BU				2.08	433.00	349.51	352.31	351.57	352.59	0.002293	2.35	184.87	161.17	0.52	99.90
Reach 1	14088	0p5-CC-LC_BU				2.38	606.20	349.51	352.61	351.92	353.03	0.002826	2.86	213.11	193.90	0.59	99.75
Reach 1	14004	5_BU				1.34	320.00	349.38	351.76	351.47	352.00	0.003720	2.24	154.58	406.98	0.62	92.14
Reach 1	14004	1_BU				1.49	403.00	349.38	351.91	351.64	352.20	0.003913	2.47	177.25	423.28	0.64	89.75
Reach 1	14004	0p5_BU				1.55	433.00	349.38	351.96	351.70	352.27	0.003966	2.54	185.01	430.68	0.65	89.02
Reach 1	14004	0p5-CC-LC_BU				1.83	606.20	349.38	352.25	351.96	352.64	0.004070	2.88	228.44	498.77	0.68	85.56
Reach 1	13755	5_BU				1.05	320.00	347.42	350.84	350.38	350.98	0.003002	1.70	188.76	474.85	0.53	64.78
Reach 1	13755	1_BU				1.24	403.00	347.42	351.03	350.54	351.19	0.002746	1.81	226.33	538.97	0.52	64.86
Reach 1	13755	0p5_BU				1.30	433.00	347.42	351.09	350.60	351.26	0.002685	1.85	239.27	563.02	0.52	64.75
Reach 1	13755	0p5-CC-LC_BU				1.55	606.20	347.42	351.35	350.85	351.56	0.002842	2.14	299.78	633.83	0.55	64.09
Reach 1	13404	5_BU				1.57	320.00	346.33	349.21	349.07	349.66	0.005546	3.02	115.39	194.73	0.77	94.39
Reach 1	13404	1_BU				1.74	403.00	346.33	349.40	349.33	349.91	0.005810	3.30	137.39	221.46	0.80	91.30
Reach 1	13404	0p5_BU				1.79	433.00	346.33	349.45	349.38	349.99	0.005889	3.39	145.42	228.79	0.81	90.21
Reach 1	13404	0p5-CC-LC_BU				2.16	606.20	346.33	349.83	349.83	350.36	0.004970	3.53	215.55	338.32	0.77	81.10
Reach 1	13209	5_BU				1.59	320.00	345.37	348.73	348.16	348.91	0.002341	1.98	180.57	298.16	0.50	85.41
Reach 1	13209	1_BU				1.81	403.00	345.37	348.95	348.37	349.15	0.002256	2.11	215.61	311.89	0.50	82.40
Reach 1	13209	0p5_BU				1.88	433.00	345.37	349.01	348.43	349.22	0.002251	2.16	226.31	313.19	0.50	81.27
Reach 1	13209	0p5-CC-LC_BU				2.20	606.20	345.37	349.34	348.74	349.60	0.002308	2.43	279.56	329.02	0.52	76.65
Reach 1	13100	5_BU				1.53	320.00	345.58	348.43	347.89	348.63	0.002530	2.01	167.58	550.93	0.52	98.07
Reach 1	13100	1_BU				1.77	403.00	345.58	348.67	348.07	348.89	0.002289	2.11	209.49	615.83	0.51	94.73
Reach 1	13100	0p5_BU				1.83	433.00	345.58	348.74	348.14	348.96	0.002283	2.16	221.36	629.43	0.51	93.59
Reach 1	13100	0p5-CC-LC_BU				2.15	606.20	345.58	349.06	348.54	349.33	0.002344	2.44	279.88	723.48	0.53	88.46
Reach 1	13000	5_BU				1.26	320.00	345.10	347.52	347.52	348.15	0.009954	3.51	91.13	184.47	1.00	100.00
Reach 1	13000	1_BU				1.10	403.00	345.10	347.92	347.92	348.45	0.009925	3.20	126.89	334.53	0.98	99.70
Reach 1	13000	0p5_BU				1.13	433.00	345.10	347.98	347.98	348.52	0.009856	3.26	134.58	348.55	0.98	99.52
Reach 1	13000	0p5-CC-LC_BU				1.39	606.20	345.10	348.30	348.30	348.91	0.008577	3.49	179.40	435.98	0.94	97.90
Reach 1	12950	5_BU				1.56	320.00	344.85	347.63	346.40	347.70	0.000835	1.17	272.75	503.53	0.30	100.00
Reach 1	12950	1_BU				1.66	403.00	344.85	347.80	346.56	347.89	0.000973	1.32	305.77	538.18	0.33	99.98
Reach 1	12950	0p5_BU				1.71	433.00	344.85	347.86	346.62	347.96	0.001003	1.37	317.47	549.79	0.33	99.94
Reach 1	12950	0p5-CC-LC_BU				1.96	606.20	344.85	348.13	346.89	348.27	0.001205	1.64	378.37	663.55	0.37	99.25
Reach 1	12887	5_BU				1.05	320.00	344.53	347.45	346.95	347.60	0.003024	1.71	188.96	348.90	0.53	99.38
Reach 1	12887	1_BU				1.12	403.00	344.53	347.61	347.12	347.78	0.003235	1.85	220.56	373.70	0.56	98.99
Reach 1	12887	0p5_BU				1.12	433.00	344.53	347.67	347.17	347.85	0.003372	1.88	232.13	386.49	0.57	98.84
Reach 1	12887	0p5-CC-LC_BU				1.30	606.20	344.53	347.91	347.47	348.14	0.003542	2.14	290.23	441.36	0.60	98.40
Reach 1	12850	5_BU				0.76	320.00	344.40	347.00	347.00	347.38	0.011768	2.72	117.56	295.82	1.00	100.00
Reach 1	12850	1_BU				0.80	403.00	344.40	347.16	347.16	347.56	0.011472	2.79	144.67	346.12	0.99	99.99
Reach 1	12850	0p5_BU				0.82	433.00	344.40	347.21	347.21	347.62	0.011356	2.81	154.13	358.77	0.99	99.99
Reach 1	12850	0p5-CC-LC_BU				1.09	606.20	344.40	347.72	347.45	347.98	0.005000	2.27	269.33	498.23	0.69	99.76
Reach 1	12800	5_BU				1.13	320.00	343.70	346.67	346.29	346.89	0.003993	2.07	154.86	251.95	0.62	99.97
Reach 1	12800	1_BU				1.28	403.00	343.70	347.03	346.45	347.20	0.002820	1.89	224.02	434.02	0.53	97.70
Reach 1	12800	0p5_BU				1.35	433.00	343.70	347.15	346.51	347.31	0.002411	1.81	257.43	471.65	0.50	96.01
Reach 1	12800	0p5-CC-LC_BU				1.75	606.20	343.70	347.71	346.89	347.83	0.001281	1.57	438.76	681.63	0.38	86.22
Reach 1	12735	5_BU				2.19	320.00	340.98	346.75	344.02	346.79	0.000263	0.82	402.63	365.39	0.18	98.81
Reach 1	12735	1_BU				2.47	403.00	340.98	347.09	344.27	347.12	0.000252	0.87	499.59	441.45	0.18	96.04
Reach 1	12735	0p5_BU				2.58	433.00	340.98	347.20	344.35	347.24	0.000243	0.89	536.95	473.84	0.18	94.89
Reach 1	12735	0p5-CC-LC_BU				3.12	606.20	340.98	347.73	344.85	347.78	0.000223	0.96	722.68	586.00	0.17	88.70
Reach 1	12700	5_BU				2.13	320.00	342.78	346.71	345.06	346.77	0.000501	1.12	324.08	394.09	0.24	90.32
Reach 1	12700	1_BU				2.41	403.00	342.78	347.05	345.27	347.11	0.000448	1.15	413.64	483.39	0.24	85.30
Reach 1	12700	0p5_BU				2.51	433.00	342.78	347.17	345.35	347.23	0.000421	1.14	448.20	502.05	0.23	83.11
Reach 1	12700	0p5-CC-LC_BU				3.04	606.20	342.78	347.70	345.79	347.76	0.000363	1.21	622.72	670.36	0.22	75.88
Reach 1	12650	5_BU				2.32	320.00	342.92	346.64	345.22	346.74	0.000753	1.45	252.50	325.79	0.30	87.31
Reach 1	12650	1_BU				2.63	403.00	342.92	346.97	345.47	347.07	0.000695	1.51	309.47	403.37	0.30	82.88
Reach 1	12650	0p5_BU				2.75	433.00	342.92	347.09	345.57	347.19	0.000691	1.55	332.99	441.04	0.30	82.55
Reach 1	12650	0p5-CC-LC_BU				3.28	606.20	342.92	347.62	346.15	347.73	0.000608	1.64	479.16	631.62	0.29	74.44
Reach 1	12600	5_BU				2.36	320.00	342.87	346.55	345.54	346.68	0.001093	1.76	208.72	234.29	0.37	73.79
Reach 1	12600	1_BU				2.61	403.00	342.87	346.88	345.81	347.02	0.001060	1.85	251.57	323.60	0.37	70.31
Reach 1	12600	0p5_BU				2.73	433.00	342.87	346.99	345.88	347.14	0.001026	1.87	269.15	380.40	0.36	69.28
Reach 1	12600	0p5-CC-LC_BU				3.26	606.20	342.87	347.53	346.23	347.68	0.000949	2.03	405.92	672.93	0.36	64.17
Reach 1	12550	5_BU				2.22	320.00	343.00	346.54	345.29	346.63	0.000725	1.38	273.46	527.51	0.30	81.65
Reach 1	12550	1_BU				2.56	403.00	343.00	346.88	345.65	346.96	0.000605	1.39	369.71	661.56	0.28	75.28
Reach 1	12550	0p5_BU				2.69	433.00	343.00	347.01	345.75	347.08	0.000549	1.37	412.02	715.94	0.27	72.24
Reach 1	12550	0p5-CC-LC_BU				3.24	606.20	343.00	347.56	346.12	347.63	0.000408	1.34	637.26	878.19	0.24	60.83
Reach 1	12500	5_BU				1.42	320.00	343.14	346.46	345.73	346.57	0.001454	1.46	229.44	387.16	0.39	98.48
Reach 1	12500	1_BU				1.75	403.00	343.14	346.81	345.90	346.92	0.001097	1.45	296.87	431.74	0.35	97.33
Reach 1	12500	0p5_BU				1.87	433.00	343.14	346.93	345.95	347.04	0.001007	1.46	326.27	500.79	0.34	97.19
Reach 1	12500	0p5-CC-LC_BU				2.43	606.20	343.14	347.49	346.20	347.59	0.000702	1.45	595.49	952.06	0.30	89.77
Reach 1	12436	5_BU				1.61	320.00	343.08	345.50	345.50	346.31	0.009314	3.97	81.44	159.70	1.00	99.85
Reach 1	12436	1_BU				1.92	403.00	343.08	345.82	345.82	346.69	0.008060	4.16	100.94	189.19	0.96	99.10
Reach 1	12436	0p5_BU				2.01	433.00	343.08	345.90	345.90	346.82	0.007976	4.26	106.77	192.24	0.96	98.80
Reach 1	12436	0p5-CC-LC_BU				2.73	606.20	343.08	346.62	346.62	347.43	0.004947	4.12	180.63	349.80	0.79	92.64
Reach 1	12300	5_BU				1.78	320.00	342.78	345.33	344.60	345.53	0.002035	2.00	179.61	385.48	0.48	96.16
Reach 1	12300	1_BU				1.99	403.00	342.78	345.56	344.84	345.79	0.002081	2.18	216.40	427.85	0.49	93.92
Reach 1	12300	0p5_BU				2.07	433.00	342.78	345.63	344.92	345.87	0.002104	2.24	228.89	446.49	0.50	93.18
Reach 1	12300	0p5-CC-LC_BU				2.41	606.20	342.78	345.97	345.33	346.28	0.002280	2.58	297.98	508.88	0.53	89.32
Reach 1	11788	5_BU				1.50	320.00	342.07	344.28	343.70	344.43	0.002150	1.82	189.03	494.22	0.48	86.94
Reach 1	11788	1_BU				1.62	403.00	342.07	344.49	343.86	344.66	0.002202	1.95	229.44	547.83	0.49	84.21
Reach 1	11788	0p5_BU				1.67	433.00	342.07	344.56	343.91	344.74	0.002202	1.99	244.34	563.24	0.49	83.35
Reach 1	11788	0p5-CC-LC_BU				2.00	606.20	342.07	344.92	344.21	345.12	0.002044	2.16	352.36	733.30	0.49	79.07
Reach 1	11514	5_BU				1.15	320.00	340.85	343.20	342.96	343.52	0.005754	2.52	128.50	248.30	0.75	99.68

HEC-RAS Plan: KR_Jam_48010 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	11514	1_BU				1.36	403.00	340.85	343.42	343.16	343.78	0.005136	2.66	154.38	314.65	0.73	99.50
Reach 1	11514	0p5_BU				1.45	433.00	340.85	343.51	343.22	343.87	0.004825	2.68	165.34	351.59	0.71	99.39
Reach 1	11514	0p5-CC-LC_BU				1.78	606.20	340.85	343.85	343.51	344.31	0.004636	3.01	212.99	435.24	0.72	98.71
Reach 1	11034	5_BU				1.76	320.00	338.63	342.19		342.31	0.001320	1.59	209.27	299.51	0.38	94.76
Reach 1	11034	1_BU				1.93	403.00	338.63	342.47		342.61	0.001325	1.69	251.35	377.96	0.39	93.19
Reach 1	11034	0p5_BU				1.98	433.00	338.63	342.56		342.71	0.001354	1.75	268.42	405.64	0.40	93.69
Reach 1	11034	0p5-CC-LC_BU				2.26	606.20	338.63	342.98		343.15	0.001355	1.90	360.09	514.44	0.40	89.06
Reach 1	10544	5_BU				1.58	320.00	337.82	341.05		341.33	0.003273	2.34	141.82	282.87	0.59	99.16
Reach 1	10544	1_BU				1.78	403.00	337.82	341.26		341.60	0.003387	2.57	172.41	350.27	0.62	98.37
Reach 1	10544	0p5_BU				1.84	433.00	337.82	341.34		341.69	0.003379	2.63	185.52	373.13	0.62	97.77
Reach 1	10544	0p5-CC-LC_BU				2.20	606.20	337.82	341.71	341.25	342.12	0.003315	2.93	271.67	504.87	0.63	93.42
Reach 1	9771	5_BU				1.38	320.00	336.80	339.07		339.22	0.002221	1.77	189.58	510.56	0.48	97.49
Reach 1	9771	1_BU				1.55	403.00	336.80	339.26		339.45	0.002237	1.92	223.17	623.30	0.49	96.22
Reach 1	9771	0p5_BU				1.60	433.00	336.80	339.32		339.51	0.002286	1.98	233.28	646.96	0.50	95.80
Reach 1	9771	0p5-CC-LC_BU				1.88	606.20	336.80	339.60		339.85	0.002519	2.31	288.66	741.62	0.54	93.50
Reach 1	8903	5_BU				1.72	320.00	333.65	336.76		337.04	0.003232	2.44	148.51	322.20	0.60	85.53
Reach 1	8903	1_BU				1.92	403.00	333.65	337.00		337.30	0.003173	2.61	184.71	433.04	0.60	82.48
Reach 1	8903	0p5_BU				1.98	433.00	333.65	337.08		337.38	0.003097	2.63	200.13	459.69	0.60	80.85
Reach 1	8903	0p5-CC-LC_BU				2.30	606.20	333.65	337.45		337.77	0.002871	2.80	281.96	539.53	0.59	73.03
Reach 1	8300	5_BU				1.67	320.00	332.67	335.37		335.54	0.001933	1.87	190.29	318.02	0.46	95.51
Reach 1	8300	1_BU				1.88	403.00	332.67	335.59		335.80	0.001993	2.05	228.56	385.20	0.48	94.26
Reach 1	8300	0p5_BU				1.95	433.00	332.67	335.67		335.89	0.002032	2.12	243.02	414.95	0.48	94.36
Reach 1	8300	0p5-CC-LC_BU				2.26	606.20	332.67	336.02		336.29	0.002172	2.42	337.32	603.59	0.51	90.96
Reach 1	7514	5_BU				1.32	320.00	330.29	332.85		333.20	0.005065	2.66	128.63	313.89	0.74	96.68
Reach 1	7514	1_BU				1.51	403.00	330.29	333.08		333.47	0.004723	2.82	154.62	334.68	0.73	96.09
Reach 1	7514	0p5_BU				1.60	433.00	330.29	333.17		333.57	0.004548	2.86	165.75	356.64	0.72	95.82
Reach 1	7514	0p5-CC-LC_BU				2.02	606.20	330.29	333.61	333.21	334.05	0.003875	3.03	252.49	501.78	0.68	92.72
Reach 1	6800	5_BU				2.02	320.00	327.67	330.75		330.99	0.002035	2.16	147.90	172.09	0.49	100.00
Reach 1	6800	1_BU				2.33	403.00	327.67	331.06		331.34	0.001996	2.35	171.92	243.05	0.49	99.91
Reach 1	6800	0p5_BU				2.41	433.00	327.67	331.15		331.45	0.002033	2.44	178.94	252.79	0.50	99.83
Reach 1	6800	0p5-CC-LC_BU				2.93	606.20	327.67	331.67		332.06	0.002055	2.79	221.65	291.32	0.52	99.07
Reach 1	6650	5_BU				1.60	320.00	327.66	330.43		330.64	0.002467	2.03	158.71	302.71	0.51	99.89
Reach 1	6650	1_BU				1.57	403.00	327.66	330.77		330.99	0.002542	2.05	199.90	354.43	0.52	99.73
Reach 1	6650	0p5_BU				1.69	433.00	327.66	330.89		331.10	0.002334	2.05	214.63	358.43	0.50	99.68
Reach 1	6650	0p5-CC-LC_BU				2.32	606.20	327.66	331.52		331.74	0.001561	2.08	301.19	407.70	0.44	99.31
Reach 1	6563	5_BU				1.40	320.00	327.63	330.23		330.41	0.002627	1.93	176.49	189.07	0.52	97.70
Reach 1	6563	1_BU				1.72	403.00	327.63	330.61		330.79	0.001910	1.89	227.44	208.58	0.46	97.52
Reach 1	6563	0p5_BU				1.85	433.00	327.63	330.74		330.91	0.001737	1.89	244.99	217.47	0.44	97.49
Reach 1	6563	0p5-CC-LC_BU				2.54	606.20	327.63	331.43		331.61	0.001173	1.92	341.61	284.75	0.38	97.24
Reach 1	6400	5_BU				2.29	320.00	325.72	329.86		330.05	0.001947	1.92	166.92	132.56	0.40	100.00
Reach 1	6400	1_BU				2.65	403.00	325.72	330.26		330.47	0.001901	2.06	196.05	146.94	0.40	100.00
Reach 1	6400	0p5_BU				2.77	433.00	325.72	330.39		330.61	0.001896	2.10	205.88	153.61	0.40	100.00
Reach 1	6400	0p5-CC-LC_BU				3.39	606.20	325.72	331.09		331.37	0.001858	2.35	258.58	287.63	0.41	100.00
Reach 1	6300	5_BU				2.38	320.00	325.66	329.61		329.86	0.001694	2.21	145.14	95.39	0.46	100.00
Reach 1	6300	1_BU				2.77	403.00	325.66	330.00		330.29	0.001625	2.39	169.14	102.40	0.46	99.95
Reach 1	6300	0p5_BU				2.89	433.00	325.66	330.12		330.43	0.001614	2.45	177.16	105.93	0.46	99.92
Reach 1	6300	0p5-CC-LC_BU				3.56	606.20	325.66	330.79		331.18	0.001569	2.78	222.80	173.04	0.47	99.49
Reach 1	6200	5_BU				2.36	320.00	325.60	329.47		329.68	0.001592	2.04	157.10	139.61	0.42	100.00
Reach 1	6200	1_BU				2.72	403.00	325.60	329.87		330.12	0.001557	2.19	183.94	158.25	0.42	100.00
Reach 1	6200	0p5_BU				2.85	433.00	325.60	330.00		330.26	0.001536	2.25	193.11	171.60	0.42	99.98
Reach 1	6200	0p5-CC-LC_BU				3.54	606.20	325.60	330.69		331.01	0.001451	2.52	248.46	264.26	0.43	99.50
Reach 1	6150	5_BU				2.57	320.00	325.56	329.35		329.60	0.001556	2.22	144.41	104.58	0.44	100.00
Reach 1	6150	1_BU				2.91	403.00	325.56	329.73		330.03	0.001591	2.43	165.98	108.70	0.45	100.00
Reach 1	6150	0p5_BU				3.03	433.00	325.56	329.86		330.17	0.001598	2.50	173.24	110.26	0.46	99.99
Reach 1	6150	0p5-CC-LC_BU				3.68	606.20	325.56	330.50		330.92	0.001635	2.88	212.09	130.38	0.48	99.77
Reach 1	6100	5_BU				2.48	320.00	325.53	329.25		329.52	0.001771	2.31	138.70	83.86	0.47	100.00
Reach 1	6100	1_BU				2.81	403.00	325.53	329.62		329.95	0.001798	2.52	159.92	95.73	0.48	100.00
Reach 1	6100	0p5_BU				2.93	433.00	325.53	329.75		330.09	0.001800	2.59	167.02	103.57	0.48	100.00
Reach 1	6100	0p5-CC-LC_BU				3.57	606.20	325.53	330.39		330.84	0.001821	2.98	204.72	173.34	0.50	99.88
Reach 1	6050	5_BU				2.52	320.00	325.50	329.18		329.43	0.001591	2.21	144.84	126.35	0.44	100.00
Reach 1	6050	1_BU				2.90	403.00	325.50	329.55		329.85	0.001582	2.42	167.03	135.47	0.45	99.95
Reach 1	6050	0p5_BU				3.02	433.00	325.50	329.68		330.00	0.001586	2.49	174.48	138.46	0.46	99.92
Reach 1	6050	0p5-CC-LC_BU				3.66	606.20	325.50	330.32		330.74	0.001626	2.87	213.65	153.50	0.48	99.68
Reach 1	6000	5_BU				2.45	320.00	325.48	329.06		329.34	0.001814	2.32	138.05	100.17	0.47	100.00
Reach 1	6000	1_BU				2.78	403.00	325.48	329.44		329.76	0.001928	2.53	159.14	127.11	0.48	100.00
Reach 1	6000	0p5_BU				2.90	433.00	325.48	329.56		329.90	0.001974	2.61	166.24	129.90	0.49	99.99
Reach 1	6000	0p5-CC-LC_BU				3.52	606.20	325.48	330.19		330.65	0.002059	2.99	203.93	147.08	0.51	99.82
Reach 1	5950	5_BU				2.38	320.00	325.47	328.93		329.24	0.002133	2.47	129.81	72.91	0.51	100.00
Reach 1	5950	1_BU				2.69	403.00	325.47	329.28		329.65	0.002283	2.70	149.50	87.64	0.52	100.00
Reach 1	5950	0p5_BU				2.81	433.00	325.47	329.40		329.79	0.002293	2.78	156.05	89.09	0.53	100.00
Reach 1	5950	0p5-CC-LC_BU				3.42	606.20	325.47	330.01		330.53	0.002322	3.19	191.29	103.34	0.55	99.90
Reach 1	5900	5_BU				2.34	320.00	325.42	328.83		329.13	0.002117	2.43	131.43	88.62	0.51	100.00
Reach 1	5900	1_BU				2.69	403.00	325.42	329.18		329.54	0.002107	2.66	151.51	113.13	0.52	99.98
Reach 1	5900	0p5_BU				2.81	433.00	325.42	329.30		329.68	0.002108	2.74	158.30	114.20	0.52	99.95
Reach 1	5900	0p5-CC-LC_BU				3.43	606.20	325.42	329.91		330.42	0.002127	3.14	194.50	124.30	0.54	99.71
Reach 1	5850	5_BU				2.21	320.00	325.40	328.54		328.98	0.003336	2.94	108.82	69.00	0.63	100.00
Reach 1	5850	1_BU				2.49	403.00	325.40	328.86		329.39	0.003472	3.24	124.38	73.42	0.66	100.00
Reach 1	5850	0p5_BU				2.59	433.00	325.40	328.96		329.53	0.003510	3.34	129.50	77.94	0.66	99.99
Reach 1	5850	0p5-CC-LC_BU				3.11	606.20	325.40	329.48		330.25	0.003735	3.90	156.20	110.07	0.71	99.89
Reach 1	5800	5_BU				2.17	320.00	325.36	328.42		328.81	0.003002	2.76	116.10	102.42	0.60	100.00
Reach 1	5800	1_BU				2.46	403.00	325.36	328.74		329.21	0.003064	3.02	133.40	111.65	0.62	100.00
Reach 1	5800	0p5_BU				2.55	433.00	325.36	328.85		329.34	0.003095	3.11	139.13	119.28	0.62	99.99
Reach 1	5800	0p5-CC-LC_BU				3.08	606.20	325.36	329.38		330.04	0.003221	3.60	169.15	158.82	0.66	99.94
Reach 1	5750	5_BU				2.12	320.00	325.34	328.25		328.65	0.003181	2.80	114.16	159.30	0.61	100.00
Reach 1	5750	1_BU				2.39	403.00	325.34	328.57		329.05	0.003270	3.07	131.16	168.35	0.63	100.00
Reach 1	5750	0p5_BU				2.49	433.00	325.34	328.67		329.18	0.003301	3.17	136.76	171.04	0.64	100.00
Reach 1	5750	0p5-CC-LC_BU				3.01	606.20	325.34	329.20		329.88	0.003400	3.65	166.79	193.07	0.67	99.87
Reach 1	5724	5_BU				2.16	320.00	325.30	328.22		328.56	0.002684	2.60	123.18	81.33	0.56	100.00
Reach 1	5724	1_BU				2.46	403.00	325.30	328.54		328.95	0.002717	2.85	141.55	111.38	0.58	99.99
Reach 1	5724	0p5_BU				2.56	433.00	325.30	328.64		329.08	0.002735	2.94	147.59	124.27	0.59	99.98
Reach 1	5724	0p5-CC-LC_BU				3.10	606.20	325.30	329.18		329.77	0.002825	3.39	179.66	172.58	0.61	99.85
Reach 1	5650	5_BU				2.10	320.00	325.13	327.97		328.35	0.003057	2.73	117.18	81.77	0.60	100.00
Reach 1	5650	1_BU				2.37	403.00	325.13	328.27		328.73	0.003157	3.00	134.28	85.55	0.62	100.00
Reach 1	5650	0p5_BU				2.47	433.00	325.13	328.37		328.86	0.003183	3.10	139.88	93.37	0.63	100.00
Reach 1	5650	0p5-CC-LC_BU				2.98	606.20	325.13	328.88		329.54	0.003342	3.59	169.41	135.41	0.66	99.88
Reach 1	5550	5_BU				1.98	320.00	324.87	327.59		328.01	0.003607	2.85	112.09	71.61	0.65	100.00
Reach 1	5550	1_BU				2.23	403.00	324.87	327.88		328.38	0.003749	3.14	128.17	86.49	0.67	100.00
Reach 1	5550	0p5_BU				2.32	433.00	324.87	327.97		328.50	0.003799	3.25	133.42	90.24	0.68	99.99

HEC-RAS Plan: KR_Jam_48010 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	5550	0p5-CC-LC_BU				2.76	606.20	324.87	328.41		329.15	0.004132	3.81	159.57	112.47	0.73	99.93
Reach 1	5400	5_BU				1.93	320.00	324.48	327.24		327.52	0.002514	2.34	136.52	109.54	0.54	100.00
Reach 1	5400	1_BU				2.17	403.00	324.48	327.53		327.87	0.002556	2.56	157.68	118.37	0.55	100.00
Reach 1	5400	0p5_BU				2.25	433.00	324.48	327.63		327.98	0.002574	2.63	164.68	121.11	0.56	100.00
Reach 1	5400	0p5-CC-LC_BU				2.68	606.20	324.48	328.10		328.57	0.002710	3.03	200.13	133.57	0.59	99.95
Reach 1	5200	5_BU				2.14	320.00	323.95	326.96		327.13	0.001346	1.84	174.18	147.28	0.40	100.00
Reach 1	5200	1_BU				2.38	403.00	323.95	327.24		327.45	0.001437	2.04	197.79	158.87	0.42	100.00
Reach 1	5200	0p5_BU				2.46	433.00	323.95	327.33		327.56	0.001473	2.11	205.48	161.95	0.43	100.00
Reach 1	5200	0p5-CC-LC_BU				2.86	606.20	323.95	327.79		328.10	0.001671	2.48	244.14	180.17	0.47	100.00
Reach 1	4950	5_BU				1.74	320.00	323.31	326.48		326.70	0.002239	2.06	167.42	179.76	0.50	98.31
Reach 1	4950	1_BU				1.86	403.00	323.31	326.74		326.99	0.002395	2.23	197.79	228.08	0.52	97.76
Reach 1	4950	0p5_BU				1.92	433.00	323.31	326.83		327.09	0.002417	2.29	208.52	243.88	0.53	97.61
Reach 1	4950	0p5-CC-LC_BU				2.33	606.20	323.31	327.28		327.61	0.002374	2.57	271.12	340.15	0.54	96.92
Reach 1	4694	5_BU				1.61	320.00	322.84	326.02		326.17	0.001753	1.73	191.54	371.95	0.44	99.55
Reach 1	4694	1_BU				1.89	403.00	322.84	326.30		326.47	0.001612	1.84	230.30	393.36	0.43	99.03
Reach 1	4694	0p5_BU				1.98	433.00	322.84	326.40		326.58	0.001574	1.88	243.58	397.53	0.43	98.85
Reach 1	4694	0p5-CC-LC_BU				2.48	606.20	322.84	326.90		327.11	0.001433	2.09	315.21	433.58	0.42	97.91
Reach 1	4150	5_BU				1.93	320.00	322.29	324.97		325.17	0.001922	1.99	160.79	187.71	0.46	100.00
Reach 1	4150	1_BU				2.15	403.00	322.29	325.20		325.46	0.002150	2.24	180.21	208.64	0.49	100.00
Reach 1	4150	0p5_BU				2.23	433.00	322.29	325.28		325.55	0.002239	2.32	186.43	221.04	0.50	100.00
Reach 1	4150	0p5-CC-LC_BU				2.59	606.20	322.29	325.65		326.05	0.002716	2.78	218.13	251.44	0.55	99.99
Reach 1	3843	5_BU				1.08	320.00	322.07	323.61	323.54	324.05	0.008683	2.95	108.45	175.59	0.91	100.00
Reach 1	3843	1_BU				1.29	403.00	322.07	323.84	323.71	324.32	0.007441	3.07	131.42	179.92	0.86	100.00
Reach 1	3843	0p5_BU				1.37	433.00	322.07	323.92		324.41	0.006974	3.09	140.13	181.35	0.84	99.99
Reach 1	3843	0p5-CC-LC_BU				1.82	606.20	322.07	324.41		324.93	0.005028	3.17	191.67	190.38	0.75	99.88
Reach 1	3700	5_BU				1.43	320.00	320.95	323.51		323.60	0.001117	1.28	250.48	236.57	0.34	100.00
Reach 1	3700	1_BU				1.73	403.00	320.95	323.81		323.90	0.000943	1.33	302.94	251.63	0.32	100.00
Reach 1	3700	0p5_BU				1.83	433.00	320.95	323.92		324.01	0.000895	1.35	321.25	260.23	0.32	100.00
Reach 1	3700	0p5-CC-LC_BU				2.40	606.20	320.95	324.48		324.59	0.000721	1.45	420.26	288.09	0.30	99.95
Reach 1	3600	5_BU				1.60	320.00	320.47	323.08		323.39	0.003779	2.49	138.75	171.33	0.63	98.27
Reach 1	3600	1_BU				1.90	403.00	320.47	323.38		323.72	0.003346	2.62	168.55	179.59	0.61	97.56
Reach 1	3600	0p5_BU				2.00	433.00	320.47	323.48		323.83	0.003239	2.67	178.79	182.01	0.60	97.37
Reach 1	3600	0p5-CC-LC_BU				2.53	606.20	320.47	324.01		324.43	0.002842	2.93	233.97	199.34	0.59	96.31
Reach 1	3500	5_BU				2.02	320.00	320.12	322.84		323.08	0.002241	2.18	149.01	144.00	0.49	99.80
Reach 1	3500	1_BU				2.32	403.00	320.12	323.15		323.43	0.002216	2.37	173.88	151.87	0.50	99.59
Reach 1	3500	0p5_BU				2.42	433.00	320.12	323.25		323.55	0.002210	2.44	182.62	155.28	0.50	99.49
Reach 1	3500	0p5-CC-LC_BU				2.95	606.20	320.12	323.78		324.17	0.002188	2.77	237.82	215.92	0.52	98.61
Reach 1	3450	5_BU				1.96	320.00	319.97	322.62		322.94	0.003189	2.55	140.03	170.62	0.58	96.55
Reach 1	3450	1_BU				2.24	403.00	319.97	322.94		323.30	0.003111	2.70	170.26	196.02	0.58	94.74
Reach 1	3450	0p5_BU				2.34	433.00	319.97	323.05		323.41	0.003095	2.75	180.66	205.57	0.58	94.17
Reach 1	3450	0p5-CC-LC_BU				2.87	606.20	319.97	323.60		324.04	0.002903	3.04	240.27	255.50	0.57	91.90
Reach 1	3400	5_BU				1.86	320.00	319.80	322.38		322.76	0.003795	2.75	116.90	78.31	0.64	99.97
Reach 1	3400	1_BU				2.10	403.00	319.80	322.65		323.11	0.003970	3.00	135.61	84.04	0.66	99.82
Reach 1	3400	0p5_BU				2.19	433.00	319.80	322.74		323.23	0.003983	3.09	142.01	85.47	0.67	99.75
Reach 1	3400	0p5-CC-LC_BU				2.67	606.20	319.80	323.22		323.85	0.003994	3.53	177.99	100.85	0.69	99.23
Reach 1	3350	5_BU				1.88	320.00	319.64	322.25		322.57	0.003199	2.53	128.75	92.65	0.59	99.49
Reach 1	3350	1_BU				2.14	403.00	319.64	322.52		322.91	0.003298	2.77	148.61	96.70	0.61	99.39
Reach 1	3350	0p5_BU				2.23	433.00	319.64	322.61		323.03	0.003325	2.85	155.59	97.68	0.61	99.30
Reach 1	3350	0p5-CC-LC_BU				2.69	606.20	319.64	323.11		323.64	0.003421	3.25	193.88	107.25	0.63	98.79
Reach 1	3300	5_BU				1.74	320.00	319.48	321.96		322.38	0.004342	2.87	121.38	98.84	0.70	98.22
Reach 1	3300	1_BU				1.98	403.00	319.48	322.24		322.72	0.004236	3.09	145.48	104.84	0.70	97.46
Reach 1	3300	0p5_BU				2.06	433.00	319.48	322.34		322.83	0.004198	3.16	154.07	107.06	0.70	97.22
Reach 1	3300	0p5-CC-LC_BU				2.55	606.20	319.48	322.86		323.45	0.003851	3.48	203.86	121.37	0.70	96.06
Reach 1	3275	5_BU				1.47	320.00	319.45	321.68	321.54	322.23	0.007153	3.29	97.17	147.83	0.87	100.00
Reach 1	3275	1_BU				1.71	403.00	319.45	321.95	321.77	322.57	0.007017	3.49	115.43	155.14	0.85	100.00
Reach 1	3275	0p5_BU				1.79	433.00	319.45	322.04		322.69	0.006939	3.56	121.71	157.82	0.85	100.00
Reach 1	3275	0p5-CC-LC_BU				2.26	606.20	319.45	322.56		323.32	0.006449	3.85	157.41	167.42	0.82	100.00
Reach 1	3250	5_BU				1.54	320.00	319.30	321.58		322.12	0.002874	3.24	98.77	123.23	0.83	100.00
Reach 1	3250	1_BU				1.79	403.00	319.30	321.85		322.46	0.002706	3.46	116.38	141.36	0.83	100.00
Reach 1	3250	0p5_BU				1.87	433.00	319.30	321.95		322.58	0.002659	3.54	122.43	144.71	0.83	100.00
Reach 1	3250	0p5-CC-LC_BU				2.34	606.20	319.30	322.45		323.22	0.002410	3.90	155.49	151.00	0.81	100.00
Reach 1	3150	5_BU				1.97	320.00	318.88	321.59		321.87	0.001096	2.35	136.08	104.96	0.54	100.00
Reach 1	3150	1_BU				2.21	403.00	318.88	321.87		322.21	0.001131	2.58	156.06	108.66	0.55	100.00
Reach 1	3150	0p5_BU				2.30	433.00	318.88	321.97		322.33	0.001140	2.66	162.96	109.94	0.56	100.00
Reach 1	3150	0p5-CC-LC_BU				2.83	606.20	318.88	322.50		322.97	0.001114	3.02	201.41	119.42	0.57	99.91
Reach 1	3037	5_BU				2.40	320.00	318.40	321.50		321.76	0.000852	2.26	144.36	81.27	0.46	99.56
Reach 1	3037	1_BU				2.67	403.00	318.40	321.77		322.09	0.000955	2.55	162.16	88.18	0.50	99.24
Reach 1	3037	0p5_BU				2.77	433.00	318.40	321.86		322.21	0.000987	2.64	168.33	91.25	0.51	99.12
Reach 1	3037	0p5-CC-LC_BU				3.26	606.20	318.40	322.35		322.84	0.001122	3.12	202.41	104.55	0.55	98.41
Reach 1	2965	5_BU				2.44	320.00	318.25	321.43	320.38	321.70	0.000798	2.27	141.01	57.82	0.46	100.00
Reach 1	2965	1_BU				2.66	403.00	318.25	321.68	320.65	322.02	0.000965	2.59	155.47	58.53	0.51	100.00
Reach 1	2965	0p5_BU				2.74	433.00	318.25	321.77	320.75	322.14	0.001019	2.70	160.40	58.76	0.52	100.00
Reach 1	2965	0p5-CC-LC_BU				3.18	606.20	318.25	322.21	321.21	322.75	0.001215	3.25	186.98	61.92	0.58	99.98
Reach 1	2946		Bridge														
Reach 1	2919	5_BU				3.35	320.00	317.23	321.47		321.60	0.000212	1.60	200.61	61.77	0.28	99.93
Reach 1	2919	1_BU				3.61	403.00	317.23	321.73		321.90	0.000263	1.87	216.55	62.76	0.31	99.86
Reach 1	2919	0p5_BU				3.70	433.00	317.23	321.81		322.01	0.000280	1.96	222.00	63.13	0.33	99.82
Reach 1	2919	0p5-CC-LC_BU				4.16	606.20	317.23	322.28		322.58	0.000368	2.43	251.87	65.06	0.38	99.56
Reach 1	2850	5_BU				2.57	320.00	318.15	321.36		321.56	0.000543	1.96	163.05	63.56	0.39	100.00
Reach 1	2850	1_BU				2.79	403.00	318.15	321.59		321.85	0.000651	2.27	177.64	64.72	0.43	99.99
Reach 1	2850	0p5_BU				2.86	433.00	318.15	321.66		321.95	0.000687	2.37	182.57	64.87	0.45	99.98
Reach 1	2850	0p5-CC-LC_BU				3.27	606.20	318.15	322.07		322.50	0.000865	2.91	209.02	67.68	0.51	99.90
Reach 1	2800	5_BU				2.23	320.00	317.92	321.34		321.53	0.000642	1.95	186.71	110.81	0.42	97.48
Reach 1	2800	1_BU				2.40	403.00	317.92	321.57		321.81	0.000725	2.20	213.00	114.44	0.45	96.61
Reach 1	2800	0p5_BU				2.47	433.00	317.92	321.65		321.91	0.000751	2.28	222.19	117.36	0.46	96.36
Reach 1	2800	0p5-CC-LC_BU				2.85	606.20	317.92	322.08		322.43	0.000843	2.68	277.17	137.53	0.51	95.16
Reach 1	2770	5_BU				2.07	320.00	317.84	321.29		321.50	0.000792	2.06	165.40	97.03	0.46	98.99
Reach 1	2770	1_BU				2.25	403.00	317.84	321.51		321.78	0.000907	2.33	187.13	99.11	0.50	98.47
Reach 1	2770	0p5_BU				2.32	433.00	317.84	321.58		321.88	0.000940	2.42	194.59	101.02	0.51	98.30
Reach 1	2770	0p5-CC-LC_BU				2.63	606.20	317.84	322.00		322.40	0.001076	2.83	238.00	117.28	0.56	97.44
Reach 1	2750	5_BU				1.91	320.00	318.03	321.25		321.48	0.000939	2.13	150.03	78.47	0.49	100.00
Reach 1	2750	1_BU				2.09	403.00	318.03	321.46		321.76	0.001073	2.42	166.68	79.72	0.53	100.00
Reach 1	2750	0p5_BU				2.15	433.00	318.03	321.53		321.85	0.001114	2.51	172.32	80.00	0.55	100.00
Reach 1	2750	0p5-CC-LC_BU				2.49	606.20	318.03	321.92		322.37	0.001287	2.98	203.85	86.28	0.60	99.99
Reach 1	2700	5_BU				1.68	320.00	318.39	321.21		321.43	0.001072	2.10	152.62	90.75	0.52	100.00
Reach 1	2700	1_BU				1.87	403.00	318.39	321.42		321.70	0.001161	2.34	171.97	92.86	0.55	100.00
Reach 1	2700	0p5_BU				1.94	433.00	318.39	321.49		321.79	0.001186	2.42	178.60	94.20	0.56	100.00

HEC-RAS Plan: KR_Jam_48010 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	2700	0p5-CC-LC_BU				2.34	606.20	318.39	321.89		322.29	0.001245	2.81	215.72	98.83	0.59	99.97
Reach 1	2666	5_BU				1.53	320.00	318.64	321.11		321.38	0.001479	2.31	138.40	90.37	0.60	100.00
Reach 1	2666	1_BU				1.72	403.00	318.64	321.31		321.65	0.001586	2.58	156.22	91.07	0.63	100.00
Reach 1	2666	0p5_BU				1.78	433.00	318.64	321.37		321.74	0.001618	2.67	162.30	91.28	0.64	100.00
Reach 1	2666	0p5-CC-LC_BU				2.14	606.20	318.64	321.76		322.24	0.001679	3.07	197.36	93.08	0.67	100.00
Reach 1	2650	5_BU				1.53	320.00	318.67	321.06		321.36	0.001610	2.41	133.00	94.44	0.62	99.94
Reach 1	2650	1_BU				1.71	403.00	318.67	321.24		321.62	0.001756	2.71	149.44	98.47	0.66	99.81
Reach 1	2650	0p5_BU				1.77	433.00	318.67	321.30		321.71	0.001799	2.81	155.04	99.35	0.67	99.76
Reach 1	2650	0p5-CC-LC_BU				2.13	606.20	318.67	321.66		322.20	0.001892	3.26	187.85	104.90	0.71	99.39
Reach 1	2600	5_BU				1.42	320.00	318.85	321.00		321.27	0.001619	2.31	138.88	129.85	0.62	99.97
Reach 1	2600	1_BU				1.60	403.00	318.85	321.18		321.52	0.001715	2.57	157.21	135.19	0.65	99.92
Reach 1	2600	0p5_BU				1.66	433.00	318.85	321.24		321.60	0.001742	2.65	163.50	136.29	0.66	99.90
Reach 1	2600	0p5-CC-LC_BU				2.04	606.20	318.85	321.62		322.09	0.001716	3.02	201.47	155.84	0.68	99.78
Reach 1	2563	5_BU				1.29	320.00	319.01	320.89		321.20	0.002065	2.44	131.10	102.05	0.69	100.00
Reach 1	2563	1_BU				1.46	403.00	319.01	321.07		321.44	0.002151	2.70	149.22	118.27	0.71	100.00
Reach 1	2563	0p5_BU				1.52	433.00	319.01	321.13		321.53	0.002172	2.78	155.52	122.83	0.72	100.00
Reach 1	2563	0p5-CC-LC_BU				1.91	606.20	319.01	321.54		322.02	0.001948	3.07	197.28	139.18	0.71	99.99
Reach 1	2550	5_BU				1.31	320.00	318.95	320.87		321.17	0.002010	2.43	131.47	127.32	0.68	100.00
Reach 1	2550	1_BU				1.48	403.00	318.95	321.04		321.42	0.002101	2.70	149.12	138.36	0.71	99.99
Reach 1	2550	0p5_BU				1.54	433.00	318.95	321.10		321.50	0.002126	2.79	155.19	142.01	0.72	99.98
Reach 1	2550	0p5-CC-LC_BU				1.95	606.20	318.95	321.51		321.99	0.001914	3.09	196.56	167.31	0.71	99.85
Reach 1	2500	5_BU				1.32	320.00	318.86	320.77		321.07	0.001957	2.42	133.30	104.85	0.67	99.32
Reach 1	2500	1_BU				1.49	403.00	318.86	320.94		321.31	0.002062	2.69	151.14	107.71	0.70	99.03
Reach 1	2500	0p5_BU				1.55	433.00	318.86	321.00		321.39	0.002088	2.78	157.34	109.91	0.71	98.94
Reach 1	2500	0p5-CC-LC_BU				1.98	606.20	318.86	321.43		321.89	0.001792	3.03	202.81	149.69	0.69	98.32
Reach 1	2464	5_BU				1.24	328.00	318.82	320.67		320.99	0.002313	2.51	130.68	110.84	0.72	100.00
Reach 1	2464	1_BU				1.37	413.80	318.82	320.81		321.22	0.002572	2.84	145.77	116.59	0.77	99.99
Reach 1	2464	0p5_BU				1.42	445.00	318.82	320.86		321.30	0.002671	2.96	150.64	116.89	0.79	99.98
Reach 1	2464	0p5-CC-LC_BU				1.89	623.00	318.82	321.34		321.82	0.001970	3.07	203.43	135.25	0.71	99.87
Reach 1	2400	5_BU				1.14	328.00	318.95	320.55		320.83	0.002306	2.33	141.19	126.37	0.70	99.99
Reach 1	2400	1_BU				1.27	413.80	318.95	320.69		321.04	0.002575	2.62	158.57	128.45	0.74	99.94
Reach 1	2400	0p5_BU				1.31	445.00	318.95	320.73		321.11	0.002682	2.72	164.09	129.28	0.76	99.93
Reach 1	2400	0p5-CC-LC_BU				1.91	623.00	318.95	321.33		321.67	0.001575	2.60	254.36	196.55	0.60	99.07
Reach 1	2369	5_BU				0.89	328.00	318.74	320.39	320.30	320.73	0.004225	2.59	127.60	151.30	0.88	99.93
Reach 1	2369	1_BU				1.07	413.80	318.74	320.57	320.45	320.94	0.003674	2.70	155.79	154.57	0.83	99.74
Reach 1	2369	0p5_BU				1.12	445.00	318.74	320.62	320.50	321.01	0.003663	2.77	163.62	155.96	0.84	99.68
Reach 1	2369	0p5-CC-LC_BU				1.83	623.00	318.74	321.33		321.60	0.001444	2.35	288.26	232.45	0.55	98.29
Reach 1	2350	5_BU				1.05	328.00	318.43	320.41		320.64	0.002315	2.13	160.16	160.38	0.66	98.83
Reach 1	2350	1_BU				1.14	413.80	318.43	320.60		320.85	0.002258	2.25	192.84	177.23	0.67	98.50
Reach 1	2350	0p5_BU				1.20	445.00	318.43	320.65		320.92	0.002244	2.30	202.65	177.99	0.67	98.42
Reach 1	2350	0p5-CC-LC_BU				1.90	623.00	318.43	321.36		321.56	0.000959	1.99	353.43	293.10	0.46	96.83
Reach 1	2300	5_BU				1.07	328.00	317.71	320.35		320.51	0.001803	1.78	190.75	187.27	0.55	98.75
Reach 1	2300	1_BU				1.27	413.80	317.71	320.56		320.74	0.001575	1.88	229.25	189.69	0.53	98.52
Reach 1	2300	0p5_BU				1.32	445.00	317.71	320.61		320.80	0.001565	1.94	240.20	190.41	0.54	98.46
Reach 1	2300	0p5-CC-LC_BU				2.06	623.00	317.71	321.36		321.50	0.000662	1.71	414.82	331.33	0.38	97.12
Reach 1	2254	5_BU				1.04	328.00	317.67	319.85	319.85	320.34	0.006168	3.11	109.28	153.24	0.98	99.31
Reach 1	2254	1_BU				1.09	413.80	317.67	320.05	320.05	320.57	0.006361	3.23	134.33	170.39	0.99	98.65
Reach 1	2254	0p5_BU				1.16	445.00	317.67	320.19	320.11	320.65	0.005326	3.06	153.80	180.77	0.91	98.20
Reach 1	2254	0p5-CC-LC_BU				1.90	623.00	317.67	321.30		321.46	0.000982	1.87	416.87	429.81	0.43	93.75
Reach 1	2200	5_BU				0.98	328.00	317.45	319.53	319.54	320.04	0.004941	3.16	103.90	107.93	1.02	99.98
Reach 1	2200	1_BU				1.19	413.80	317.45	319.79	319.72	320.29	0.003839	3.14	132.83	114.78	0.92	99.89
Reach 1	2200	0p5_BU				1.42	445.00	317.45	320.06		320.44	0.002362	2.74	164.60	137.26	0.74	99.78
Reach 1	2200	0p5-CC-LC_BU				1.90	623.00	317.45	321.28		321.41	0.000590	1.64	485.88	444.60	0.38	93.84
Reach 1	2168	5_BU				0.81	328.00	317.62	319.29	319.38	319.85	0.007107	3.32	99.35	130.50	1.18	99.92
Reach 1	2168	1_BU				1.28	413.80	317.62	319.84		320.14	0.002056	2.42	174.00	160.21	0.68	99.56
Reach 1	2168	0p5_BU				1.47	445.00	317.62	320.11		320.34	0.001340	2.14	216.35	200.89	0.56	99.04
Reach 1	2168	0p5-CC-LC_BU				1.95	623.00	317.62	321.30		321.38	0.000323	1.27	622.21	489.61	0.29	91.69
Reach 1	2054	5_BU				1.17	328.00	317.47	319.42	318.95	319.54	0.000992	1.58	215.17	209.07	0.47	93.24
Reach 1	2054	1_BU				1.60	413.80	317.47	319.89		319.98	0.000491	1.37	322.08	246.15	0.35	90.06
Reach 1	2054	0p5_BU				1.83	445.00	317.47	320.15		320.23	0.000330	1.23	389.00	264.65	0.29	87.60
Reach 1	2054	0p5-CC-LC_BU				2.53	623.00	317.47	321.32		321.35	0.000103	0.85	813.50	414.77	0.17	77.51
Reach 1	1884	5_BU				1.76	328.00	315.75	319.08		319.34	0.001167	2.25	148.18	94.59	0.54	99.08
Reach 1	1884	1_BU				2.40	413.80	315.75	319.72		319.89	0.000540	1.88	260.50	212.16	0.39	89.42
Reach 1	1884	0p5_BU				2.72	445.00	315.75	320.05		320.17	0.000356	1.66	333.78	253.74	0.32	83.28
Reach 1	1884	0p5-CC-LC_BU				3.96	623.00	315.75	321.28		321.33	0.000105	1.16	740.48	366.60	0.19	60.50
Reach 1	1760	5_BU				2.29	328.00	315.68	318.93		319.21	0.000959	2.42	151.26	122.64	0.51	94.78
Reach 1	1760	1_BU				2.92	413.80	315.68	319.68		319.83	0.000421	1.88	284.81	212.77	0.35	78.47
Reach 1	1760	0p5_BU				3.26	445.00	315.68	320.02		320.13	0.000278	1.64	362.94	245.81	0.29	71.14
Reach 1	1760	0p5-CC-LC_BU				4.50	623.00	315.68	321.27		321.32	0.000104	1.25	682.98	271.53	0.19	53.45
Reach 1	1639	5_BU				2.24	328.00	314.98	318.93	317.49	319.09	0.000545	1.79	186.85	121.18	0.38	99.54
Reach 1	1639	1_BU				2.96	413.80	314.98	319.65	317.99	319.78	0.000326	1.67	269.30	147.29	0.31	97.18
Reach 1	1639	0p5_BU				3.28	445.00	314.98	319.97	318.08	320.10	0.000258	1.59	313.41	166.63	0.28	95.72
Reach 1	1639	0p5-CC-LC_BU				4.51	623.00	314.98	321.20	318.49	321.30	0.000154	1.52	490.86	219.49	0.23	89.66
Reach 1	1548	5_BU				2.66	328.00	314.79	318.87	317.38	319.04	0.000464	1.85	177.21	83.95	0.36	100.00
Reach 1	1548	1_BU				3.29	413.80	314.79	319.58	317.65	319.75	0.000347	1.84	225.25	98.13	0.32	99.99
Reach 1	1548	0p5_BU				3.61	445.00	314.79	319.90	317.77	320.07	0.000293	1.80	247.96	105.87	0.30	99.95
Reach 1	1548	0p5-CC-LC_BU				4.81	623.00	314.79	321.10	318.24	321.28	0.000218	1.88	338.07	175.40	0.27	99.30
Reach 1	1460	5_BU				2.02	328.00	316.31	318.84	317.89	318.99	0.000559	1.70	213.79	178.90	0.38	96.38
Reach 1	1460	1_BU				2.77	413.80	316.31	319.59	318.08	319.70	0.000289	1.51	322.14	248.68	0.29	93.03
Reach 1	1460	0p5_BU				3.11	445.00	316.31	319.93	318.15	320.02	0.000218	1.42	376.16	266.33	0.26	90.90
Reach 1	1460	0p5-CC-LC_BU				4.33	623.00	316.31	321.16	318.49	321.24	0.000120	1.31	591.46	313.61	0.20	83.90
Reach 1	1371	5_BU				1.85	328.00	315.74	318.81	317.86	318.91	0.000970	1.45	253.27	172.05	0.34	92.50
Reach 1	1371	1_BU				2.63	413.80	315.74	319.59	318.02	319.66	0.000446	1.22	407.50	220.75	0.24	87.72
Reach 1	1371	0p5_BU				2.97	445.00	315.74	319.93	318.08	319.99	0.000319	1.11	483.76	231.38	0.21	84.10
Reach 1	1371	0p5-CC-LC_BU				4.21	623.00	315.74	321.17	318.38	321.21	0.000156	0.97	785.64	341.16	0.15	74.18
Reach 1	1226	5_BU				2.20	328.00	315.18	318.65	317.48	318.77	0.000940	1.58	224.47	124.53	0.34	96.91
Reach 1	1226	1_BU				3.06	413.80	315.18	319.50	317.71	319.59	0.000475	1.37	381.73	218.03	0.25	92.52
Reach 1	1226	0p5_BU				3.42	445.00	315.18	319.86	317.78	319.94	0.000353	1.27	463.56	228.92	0.22	89.01
Reach 1	1226	0p5-CC-LC_BU				4.69	623.00	315.18	321.13	318.14	321.18	0.000193	1.14	770.17	329.62	0.17	78.60
Reach 1	1171	5_BU				2.44	328.00	314.92	318.63	317.20	318.72	0.000593	1.34	302.91	192.44	0.27	92.28
Reach 1	1171	1_BU				3.31	413.80	314.92	319.50	317.44	319.56	0.000296	1.14	501.93	271.23	0.20	84.71
Reach 1	1171	0p5_BU				3.67	445.00	314.92	319.86	317.51	319.91	0.000231	1.08	601.45	278.50	0.18	82.42
Reach 1	1171	0p5-CC-LC_BU				4.94	623.00	314.92	321.13	317.89	321.17	0.000126	0.96	1001.73	369.12	0.14	70.90
Reach 1	1060	5_BU				2.97	328.00	314.65	318.60	316.72	318.66	0.000356	1.17	348.30	210.07	0.22	93.21
Reach 1	1060	1_BU				3.85	413.80	314.65	319.48	316.92	319.53	0.000197	1.04	572.12	330.75	0.17	85.08
Reach 1	1060	0p5_BU				4.22	445.00	314.65	319.85	316.99	319.89	0.000154	0.97	696.52	341.21	0.15	81.43
Reach 1	1060	0p5-CC-LC_BU				5.50	623.00	314.65	321.12	317.35	321.16	0.000093	0.90	1135.77	347.36	0.12	70.10

HEC-RAS Plan: KR_Jam_48010 River: Klondike River Reach: Reach 1 (Continued)

Reach	River Sta	Profile	Ice Btm Chan	Ice Thick Chan	Ice Top Chan	Hydr Depth C	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Q Perc Chan
			(m)	(m)	(m)	(m)	(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		
Reach 1	964	5_BU				2.76	328.00	314.83	318.59	316.49	318.63	0.000229	0.89	445.60	284.73	0.17	94.36
Reach 1	964	1_BU				3.66	413.80	314.83	319.48	316.71	319.51	0.000121	0.78	719.47	317.08	0.13	86.67
Reach 1	964	0p5_BU				4.03	445.00	314.83	319.85	316.78	319.87	0.000095	0.74	837.53	326.13	0.12	83.84
Reach 1	964	0p5-CC-LC_BU				5.30	623.00	314.83	321.12	317.15	321.15	0.000062	0.72	1266.49	375.70	0.10	76.63
Reach 1	856	5_BU				2.74	328.00	314.15	318.58	316.32	318.60	0.000164	0.75	563.50	317.43	0.14	86.98
Reach 1	856	1_BU				3.65	413.80	314.15	319.48	316.51	319.50	0.000088	0.66	865.55	387.73	0.11	81.32
Reach 1	856	0p5_BU				4.01	445.00	314.15	319.85	316.58	319.86	0.000070	0.63	993.31	392.91	0.10	78.84
Reach 1	856	0p5-CC-LC_BU				5.29	623.00	314.15	321.12	316.90	321.14	0.000046	0.62	1443.68	438.41	0.09	72.84
Reach 1	746	5_BU				3.12	328.00	313.89	318.57	316.13	318.59	0.000082	0.58	716.97	434.89	0.10	92.69
Reach 1	746	1_BU				4.02	413.80	313.89	319.48	316.27	319.49	0.000046	0.51	1118.86	566.57	0.08	84.21
Reach 1	746	0p5_BU				4.39	445.00	313.89	319.85	316.31	319.86	0.000037	0.49	1288.74	601.50	0.07	81.46
Reach 1	746	0p5-CC-LC_BU				5.67	623.00	313.89	321.12	316.55	321.13	0.000026	0.48	1892.63	664.17	0.06	74.24
Reach 1	638	5_BU				3.16	328.00	313.68	318.57	315.88	318.58	0.000060	0.50	773.57	484.53	0.09	95.79
Reach 1	638	1_BU				4.07	413.80	313.68	319.47	316.05	319.48	0.000035	0.45	1245.00	705.98	0.07	88.42
Reach 1	638	0p5_BU				4.44	445.00	313.68	319.84	316.11	319.85	0.000028	0.43	1450.27	759.64	0.07	85.75
Reach 1	638	0p5-CC-LC_BU				5.72	623.00	313.68	321.12	316.40	321.13	0.000019	0.42	2180.02	873.57	0.06	77.42

Appendix G Flood Hazard Maps

The composite flood hazard maps for the Dawson City and Klondike Valley Flood Mapping Study (the Project) have been submitted to YG under separate cover to facilitate their distribution and use. The content of these composite flood hazard maps is based on the methods, assumptions, limitations, and analysis documented in this report.