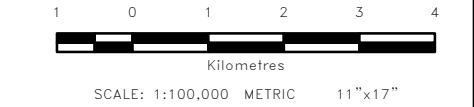




- LEGEND:
- Water Survey of Canada Gauge Location
 - River Centreline
 - 1:20 Year Open Water Flood Zone
 - 1:100 Year Open Water Flood Zone
 - Map Extents

NOTES:

1. Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019, and by ESRI and DigitalGlobe, WV02 dated June 3, 2015.



All units are metric and in metres unless otherwise specified.
Horizontal Projection: North American Datum 1983 CSRS (NAD83), Modified Transverse Mercator Projection (MTM)
Zone 4. Elevations are in metres above sea level (MSL), Canadian Geodetic Vertical Datum 2013 (CGVD2013).

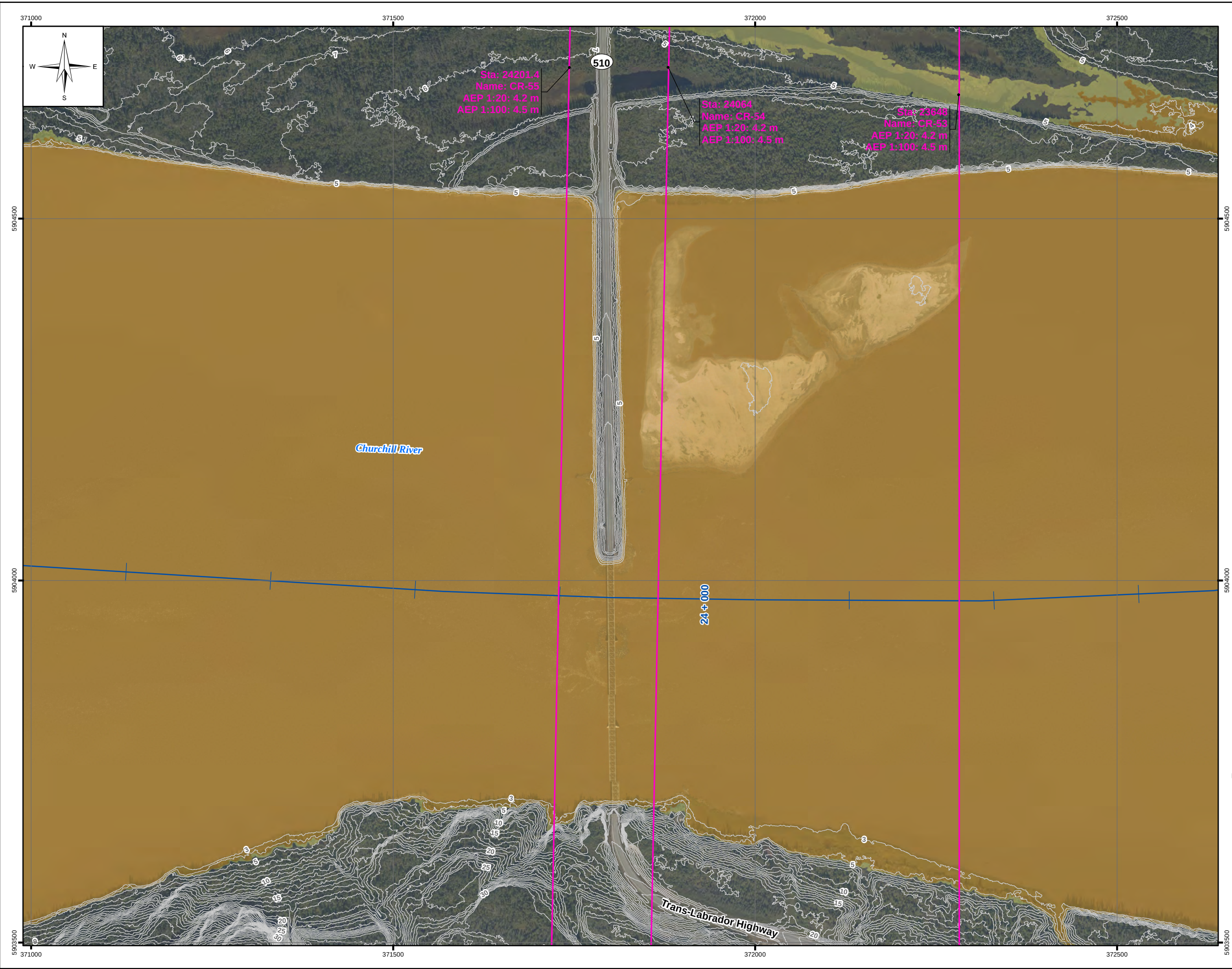
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NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY

REVISIONS / ISSUE

CHURCHILL RIVER FLOOD RISK AND FORECASTING

OPEN WATER FLOOD ZONE FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) – OVERVIEW MAP

JUNE 2020	FIGURE 1.1	REV: 0
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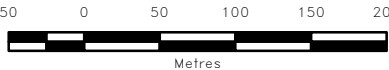


LEGEND:

- Sta: 23648
Name: CR-53
AEP 1:20: 4.2 m
AEP 1:100: 4.5 m
- Cross Section
- Water Survey of Canada
Gauge Location
- River Centreline
- 1m LIDAR Contour
- 1:20 Year Open Water Flood Zone
- 1:100 Year Open Water Flood Zone

NOTES:

- Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
- Topography shown was developed by KGS Group from the LIDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



SCALE: 1:5,000 METRIC 11"x17"

All units are metric and in metres unless otherwise specified.
Horizontal Projection: North American Datum 1983 CSRS (NAD83), Modified Transverse Mercator Projection (MTM)
Zone 4. Elevations are in metres above sea level (MSL), Canadian Geodetic Vertical Datum 2013 (CGVD2013).

0	20/06/30	ISSUED WITH FINAL REPORT	DSB	MSW
NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY

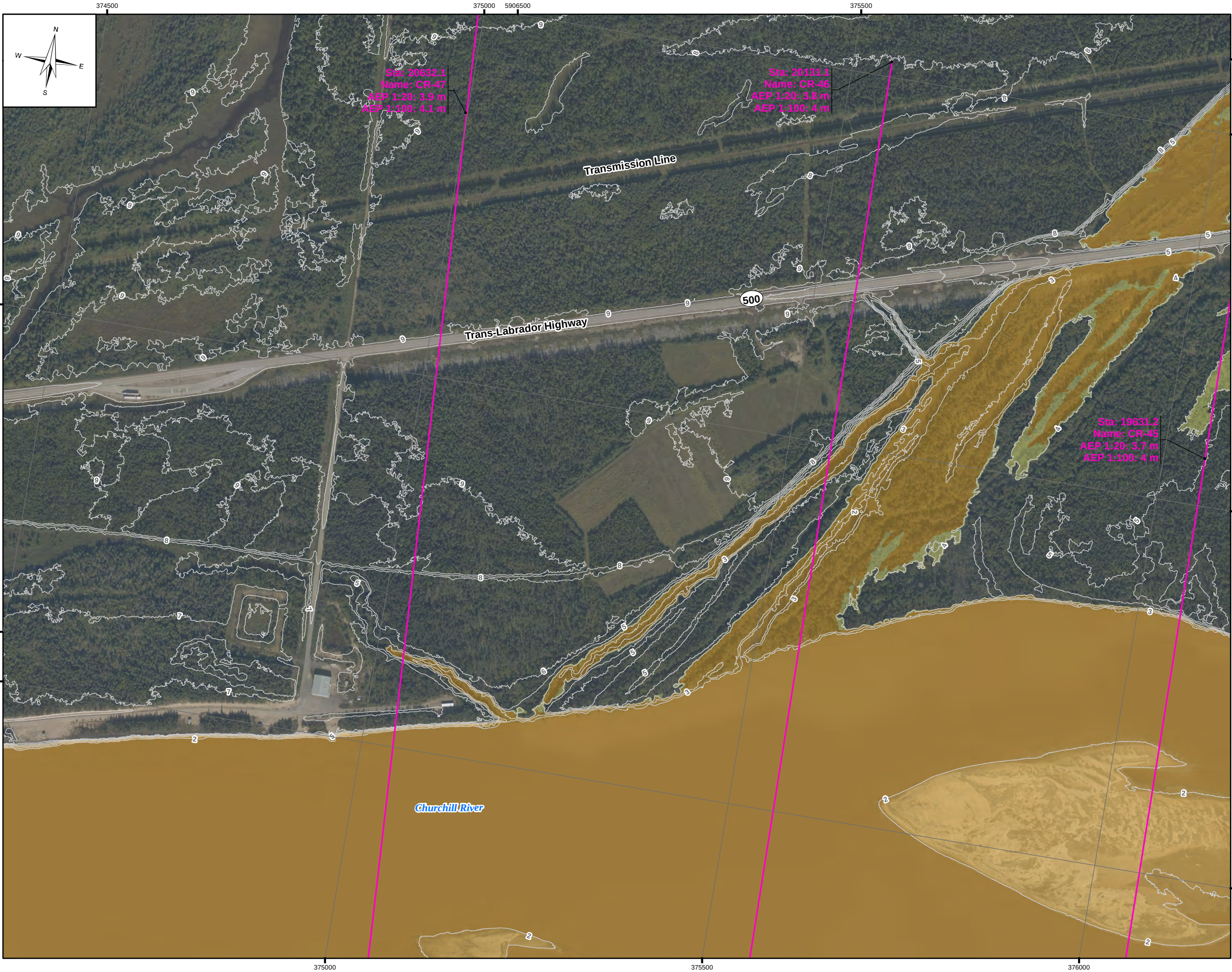
CHURCHILL RIVER FLOOD RISK AND FORECASTING

OPEN WATER FLOOD ZONE FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) – CR-01

JUNE 2020	FIGURE 1.2	REV: 0
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File Name: P:\Projects\2018\18-3217-001\Drawings\GIS\MXD\Flood_Mapping\18-3217-001_Fig1.2_11x17.mxd
11"x17" PLOT SCALE 1:1

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LEGEND:

- Sta: 23648
Name: CR-53
AEP 1:20: 4.2 m
AEP 1:100: 4.5 m
- Cross Section
- Water Survey of Canada
Gauge Location
- River Centreline
- 1m LIDAR Contour
- 1:20 Year Open Water Flood Zone
- 1:100 Year Open Water Flood Zone

NOTES:

- Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
- Topography shown was developed by KGS Group from the LIDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



SCALE: 1:5,000 METRIC 11"x17"

All units are metric and in metres unless otherwise specified.
Horizontal Projection: North American Datum 1983 CSRS (NAD83), Modified Transverse Mercator Projection (MTM)
Zone 4. Elevations are in metres above sea level (MSL), Canadian Geodetic Vertical Datum 2013 (CGVD2013).

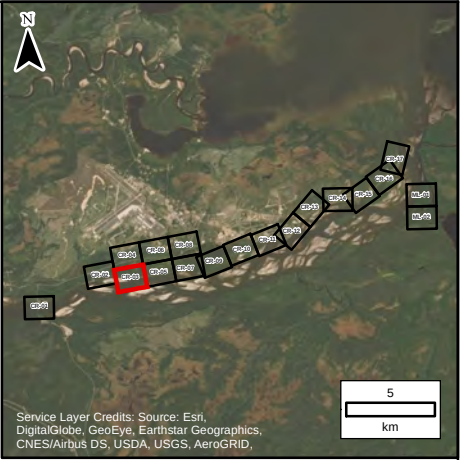
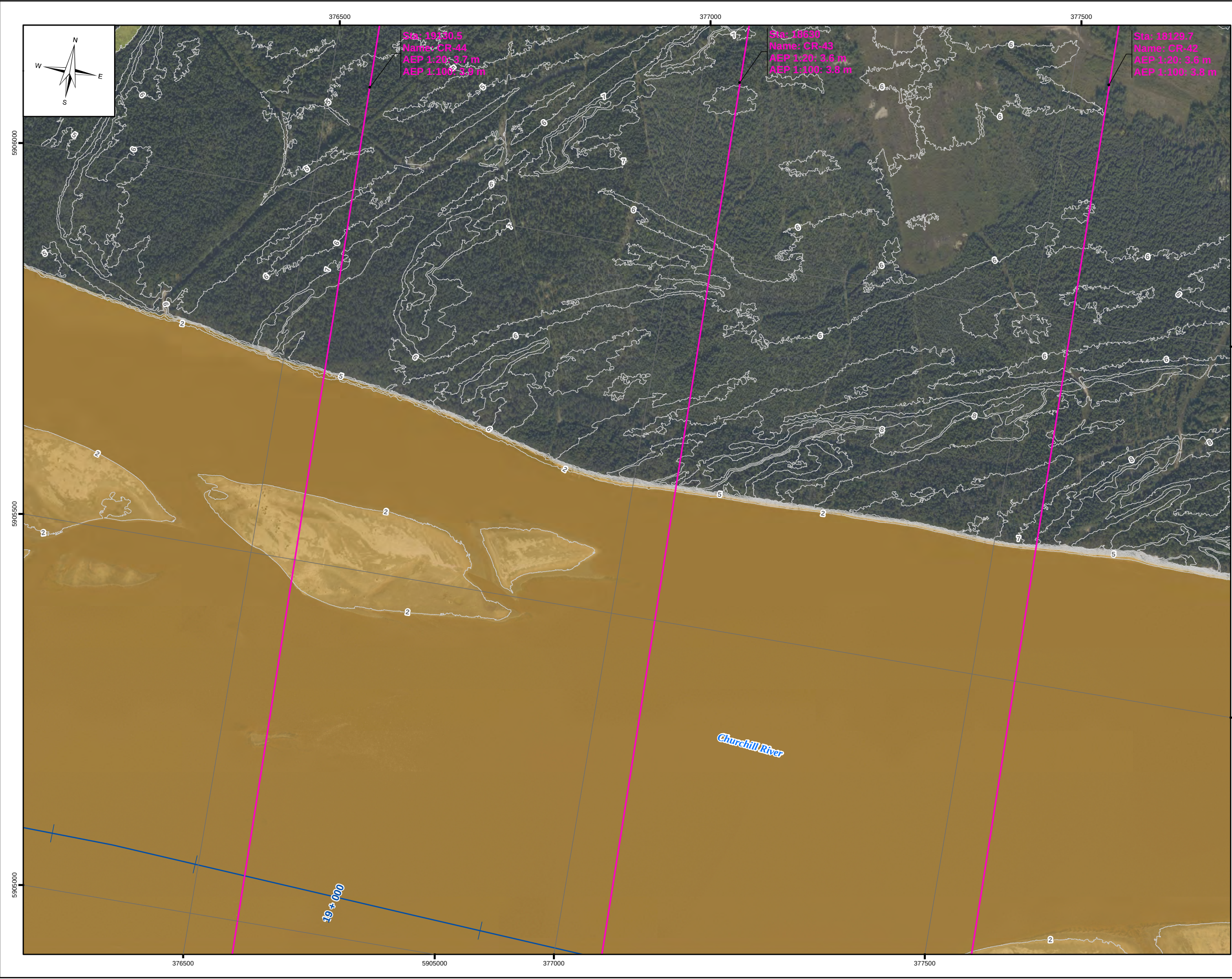
0	20/06/30	ISSUED WITH FINAL REPORT	DSB	MSW
NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY

KGS
GROUP
CONSULTING
ENGINEERS

CHURCHILL RIVER FLOOD RISK AND FORECASTING

OPEN WATER FLOOD ZONE FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) – CR-02

JUNE 2020	FIGURE 1.2	REV: 0
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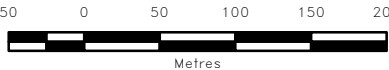


LEGEND:

- Sta: 23648
Name: CR-53
AEP 1:20: 4.2 m
AEP 1:100: 4.5 m
- Cross Section
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LIDAR Contour
- 1:20 Year Open Water Flood Zone
- 1:100 Year Open Water Flood Zone

NOTES:

- Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
- Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.

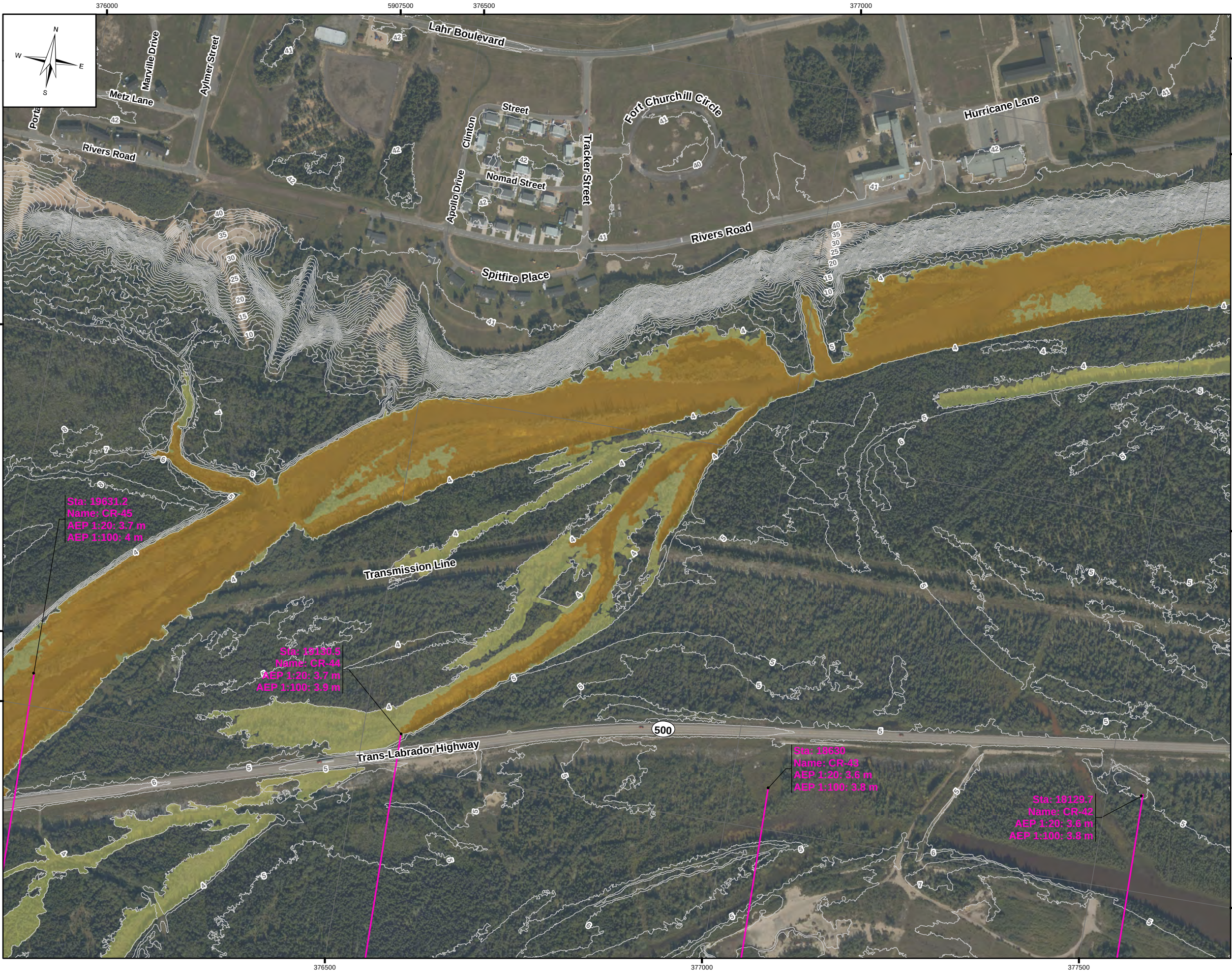


SCALE: 1:5,000 METRIC 11"x17"

All units are metric and in metres unless otherwise specified.
Horizontal Projection: North American Datum 1983 CSRS (NAD83), Modified Transverse Mercator Projection (MTM)
Zone 4. Elevations are in metres above sea level (MSL), Canadian Geodetic Vertical Datum 2013 (CGVD2013).

➡

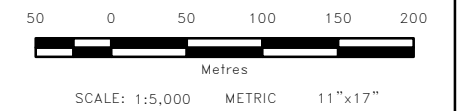
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NO.	YY/MM/DD	DESCRIPTION		ISSUED BY	CHECK BY
REVISIONS / ISSUE					
KGS GROUP CONSULTING ENGINEERS		 Newfoundland Labrador			
CHURCHILL RIVER FLOOD RISK AND FORECASTING					
OPEN WATER FLOOD ZONE FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) – CR-03					
JUNE 2020		FIGURE 1.2		REV:	0



LEGEND:

- Sta: 23648
Name: CR-53
AEP 1:20: 4.2 m
AEP 1:100: 4.5 m
- Cross Section
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LIDAR Contour
- 1:20 Year Open Water Flood Zone
- 1:100 Year Open Water Flood Zone

- NOTES:**
1. Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
 2. Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



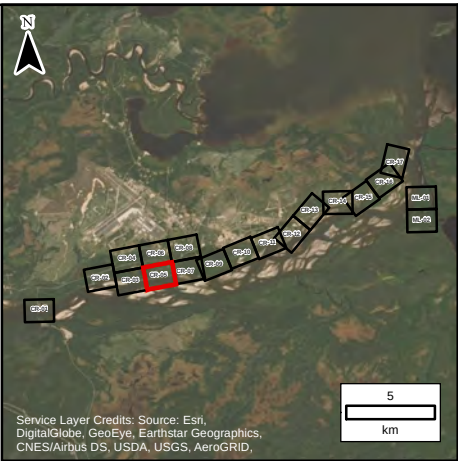
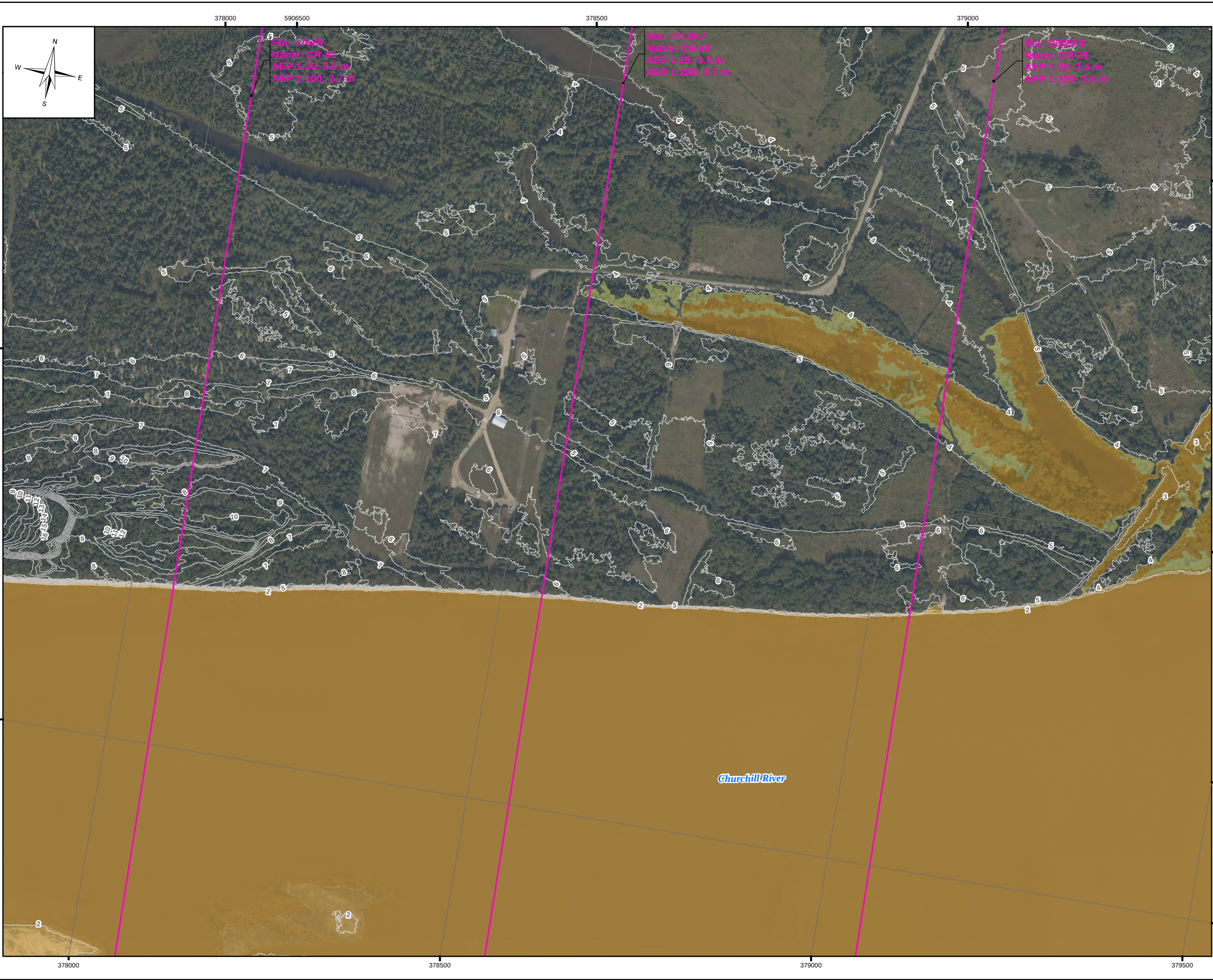
All units are metric and in metres unless otherwise specified.
Horizontal Projection: North American Datum 1983 CSRS (NAD83), Modified Transverse Mercator Projection (MTM)
Zone 4. Elevations are in metres above sea level (MSL), Canadian Geodetic Vertical Datum 2013 (CGVD2013).

0 20/06/30 ISSUED WITH FINAL REPORT		DSB	MSW
NO.	YY/MM/DD	DESCRIPTION	ISSUED BY
REVISIONS / ISSUE			

CHURCHILL RIVER FLOOD RISK AND FORECASTING

OPEN WATER FLOOD ZONE FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) – CR-04

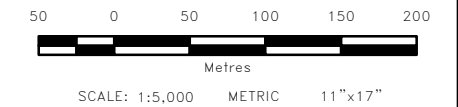
JUNE 2020	FIGURE 1.2	REV: 0
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LEGEND:

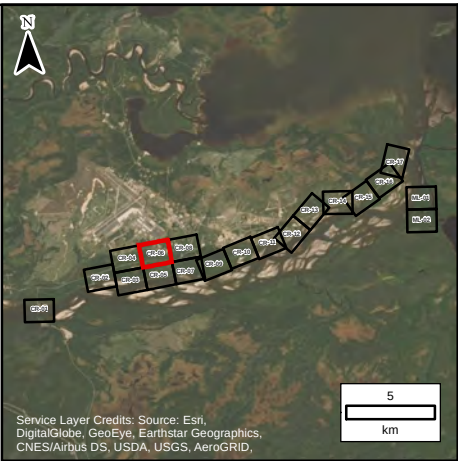
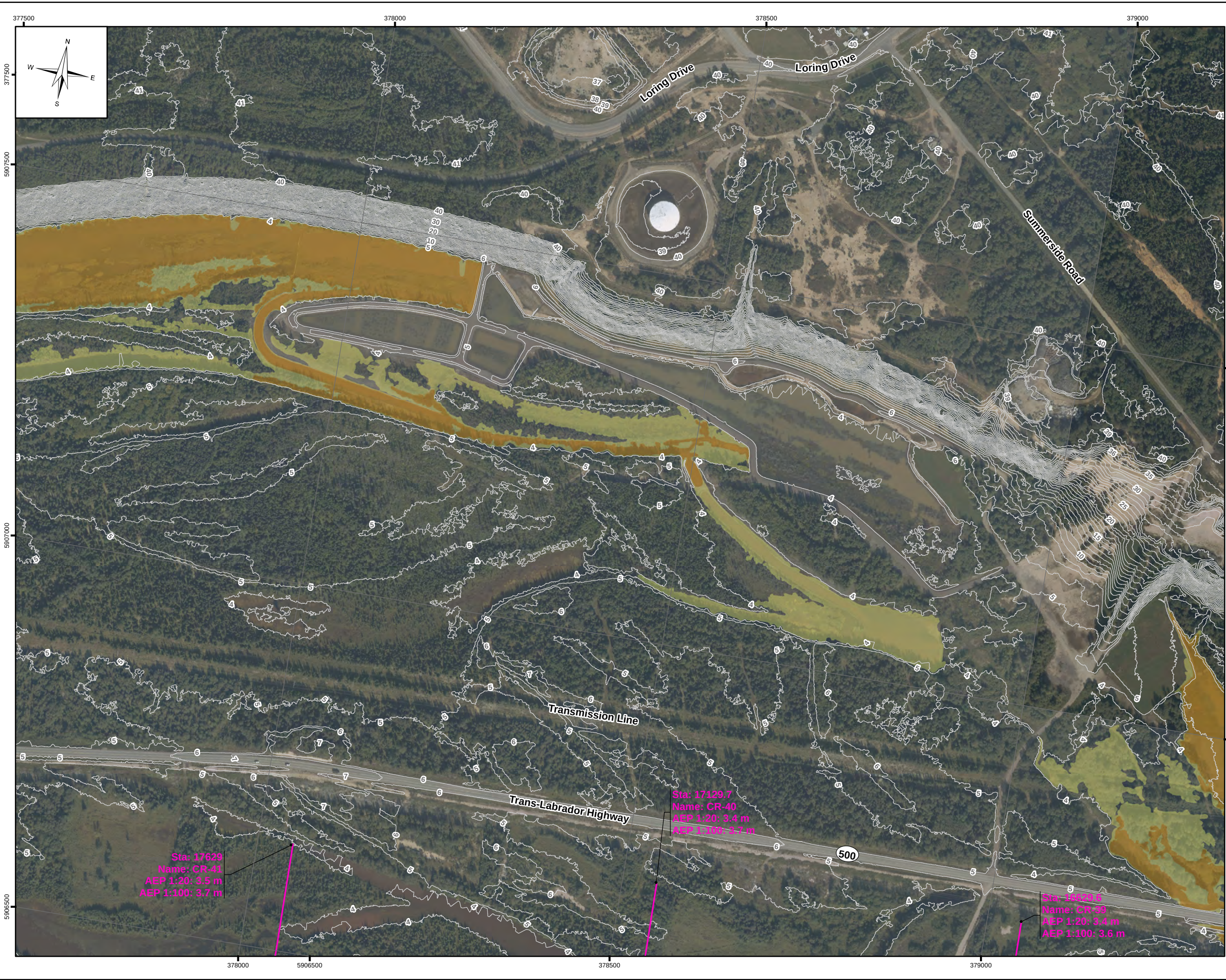
- Sta: 23648
Name: CR-53
AEP 1:20: 4.2 m
AEP 1:100: 4.5 m
- Cross Section
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LIDAR Contour
- 1:20 Year Open Water Flood Zone
- 1:100 Year Open Water Flood Zone

- NOTES:
- Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
 - Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



All units are metric and in metres unless otherwise specified.
Horizontal Projection: North American Datum 1983 CSRS (NAD83), Modified Transverse Mercator Projection (MTM)
Zone 4. Elevations are in metres above sea level (MSL), Canadian Geodetic Vertical Datum 2013 (CGVD2013).

0	20/06/30	ISSUED WITH FINAL REPORT	DSB	MSW
NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
REVISIONS / ISSUE				
				
CHURCHILL RIVER FLOOD RISK AND FORECASTING				
OPEN WATER FLOOD ZONE FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) – CR-05				
JUNE 2020		FIGURE 1.2		REV: 0



LEGEND:

- Sta: 23648
Name: CR-53
AEP 1:20: 4.2 m
AEP 1:100: 4.5 m
- Cross Section
- Water Survey of Canada
Gauge Location
- River Centreline
- 1m LIDAR Contour
- 1:20 Year Open Water Flood Zone
- 1:100 Year Open Water Flood Zone

NOTES:

- Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
- Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



SCALE: 1:5,000 METRIC 11"x17"

All units are metric and in metres unless otherwise specified.
Horizontal Projection: North American Datum 1983 CSRS (NAD83), Modified Transverse Mercator Projection (MTM), Zone 4. Elevations are in metres above sea level (MSL), Canadian Geodetic Vertical Datum 2013 (CGVD2013).

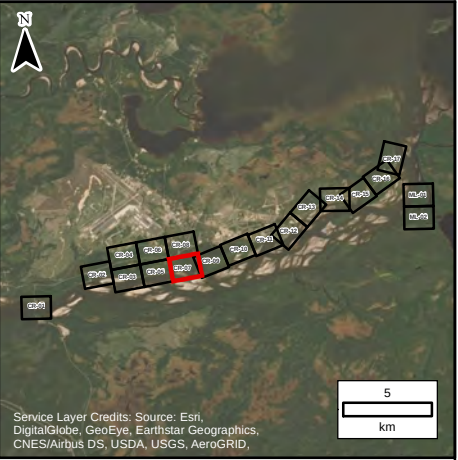
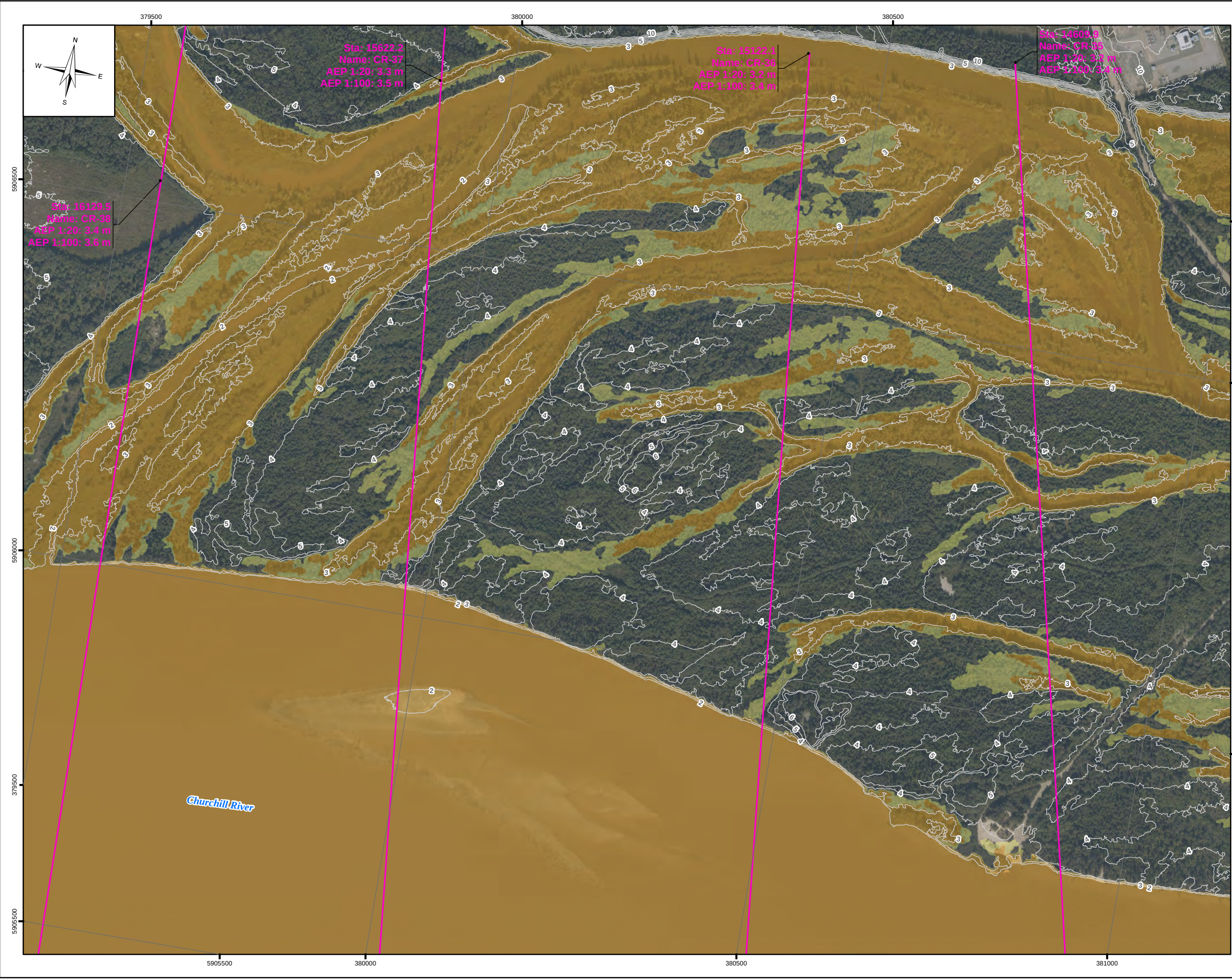
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NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
REVISIONS / ISSUE				



CHURCHILL RIVER FLOOD RISK AND FORECASTING

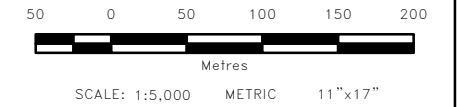
OPEN WATER FLOOD ZONE FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) – CR-06

JUNE 2020	FIGURE 1.2	REV: 0
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- LEGEND:**
- Sta: 23648, Name: CR-53, AEP 1:20: 4.2 m, AEP 1:100: 4.5 m
 - Cross Section
 - Water Survey of Canada Gauge Location
 - River Centreline
 - 1m LIDAR Contour
 - 1:20 Year Open Water Flood Zone
 - 1:100 Year Open Water Flood Zone

- NOTES:**
- Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
 - Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



All units are metric and in metres unless otherwise specified.
Horizontal Projection: North American Datum 1983 CSRS (NAD83), Modified Transverse Mercator Projection (MTM), Zone 4. Elevations are in metres above sea level (MSL), Canadian Geodetic Vertical Datum 2013 (CGVD2013).

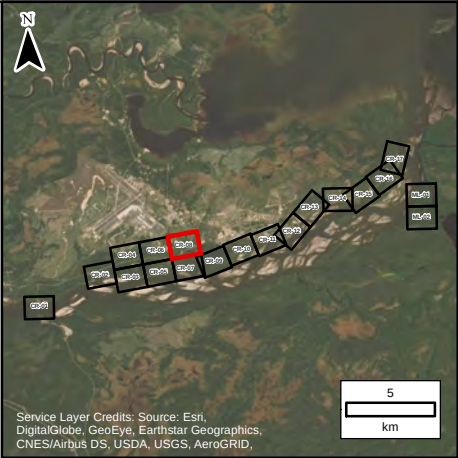
0	20/06/30	ISSUED WITH FINAL REPORT	DSB	MSW
NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
REVISIONS / ISSUE				



CHURCHILL RIVER FLOOD RISK AND FORECASTING

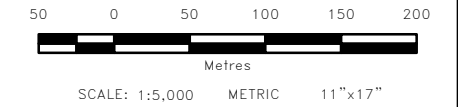
OPEN WATER FLOOD ZONE FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) – CR-07

JUNE 2020	FIGURE 1.2	REV: 0
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- LEGEND:**
- Cross Section
 - Water Survey of Canada Gauge Location
 - River Centreline
 - 1m LIDAR Contour
 - 1:20 Year Open Water Flood Zone
 - 1:100 Year Open Water Flood Zone

- NOTES:**
1. Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
 2. Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.

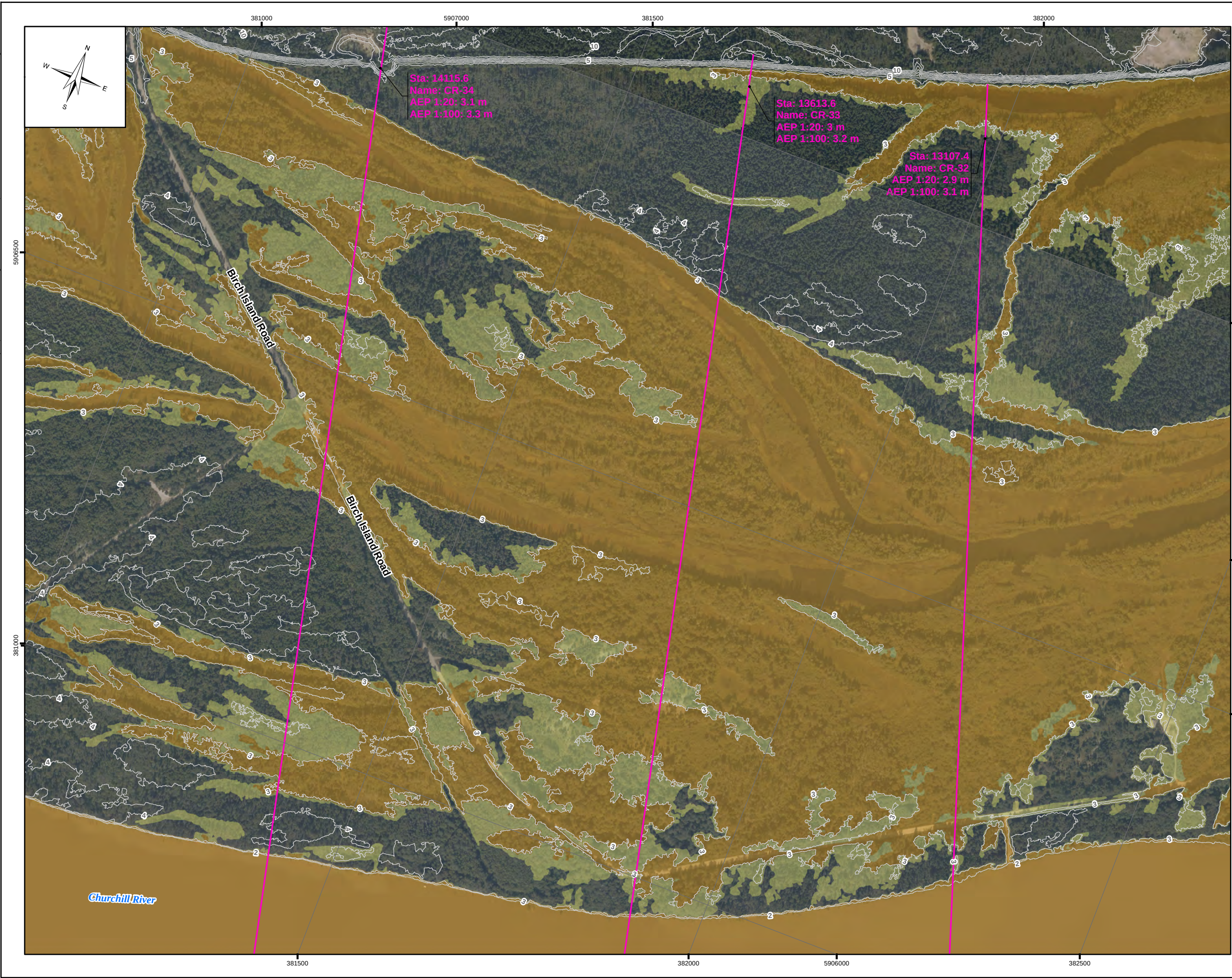


All units are metric and in metres unless otherwise specified.
Horizontal Projection: North American Datum 1983 CSRS (NAD83), Modified Transverse Mercator Projection (MTM), Zone 4. Elevations are in metres above sea level (MSL), Canadian Geodetic Vertical Datum 2013 (CGVD2013).

0	20/06/30	ISSUED WITH FINAL REPORT		DSB	MSW
NO.	YY/MM/DD	DESCRIPTION		ISSUED BY	CHECK BY
REVISIONS / ISSUE					
					
CHURCHILL RIVER FLOOD RISK AND FORECASTING					
OPEN WATER FLOOD ZONE FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) – CR-08					
JUNE 2020		FIGURE 1.2		REV: 0	

File Name: P:\Projects\2018\18-3217-001\Drawings\GIS\MXD\Flood_Mapping\18-3217-001_Fig1.2_11x17.mxd
11"x17" PLOT SCALE 1:1

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LEGEND:

- Sta: 23648
Name: CR-53
AEP 1:20: 4.2 m
AEP 1:100: 4.5 m
- Cross Section
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LIDAR Contour
- 1:20 Year Open Water Flood Zone
- 1:100 Year Open Water Flood Zone

NOTES:

- Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
- Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



SCALE: 1:5,000 METRIC 11"x17"

All units are metric and in metres unless otherwise specified.
Horizontal Projection: North American Datum 1983 CSRS (NAD83), Modified Transverse Mercator Projection (MTM), Zone 4. Elevations are in metres above sea level (MSL), Canadian Geodetic Vertical Datum 2013 (CGVD2013).

0	20/06/30	ISSUED WITH FINAL REPORT	DSB	MSW
NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
REVISIONS / ISSUE				

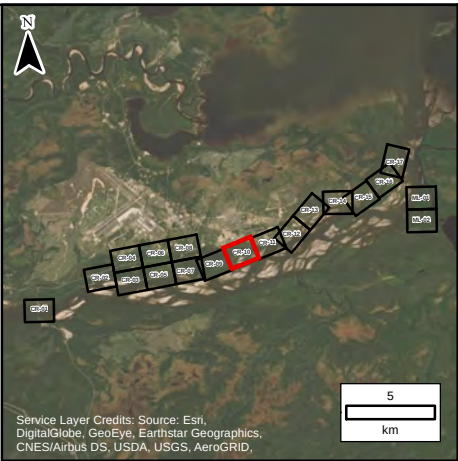
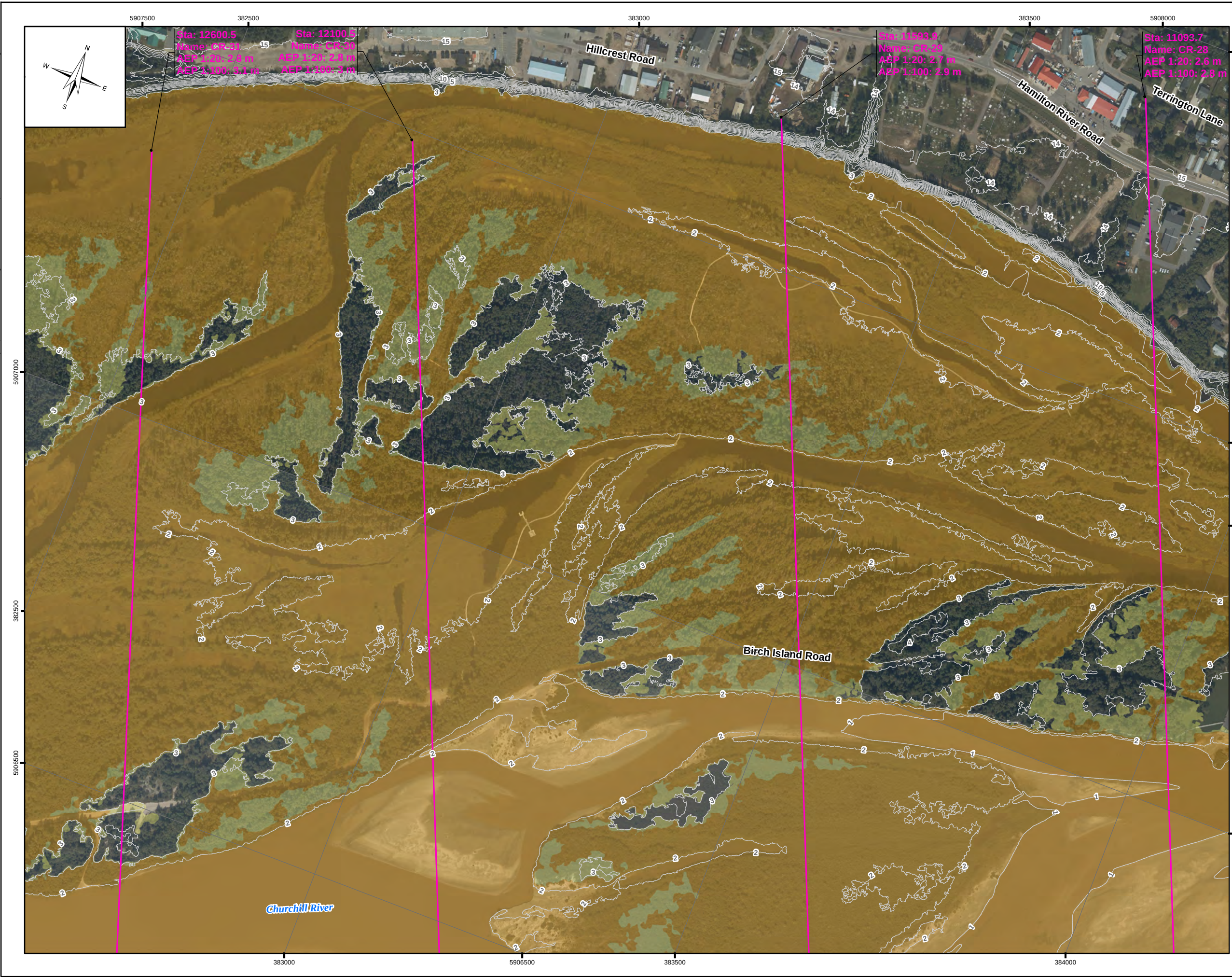
CHURCHILL RIVER FLOOD RISK AND FORECASTING

OPEN WATER FLOOD ZONE FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) – CR-09

JUNE 2020	FIGURE 1.2	REV: 0
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File Name: P:\Projects\2018\18-3217-001\Drawings\GIS\MXD\Flood_Mapping\18-3217-001_Fig1.2_11x17.mxd
11"x17" PLOT SCALE 1:1

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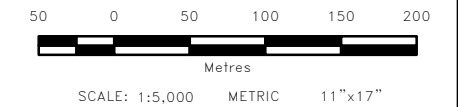


LEGEND:

- Sta: 23648
Name: CR-53
AEP 1:20: 4.2 m
AEP 1:100: 4.5 m
- Cross Section
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LIDAR Contour
- 1:20 Year Open Water Flood Zone
- 1:100 Year Open Water Flood Zone

NOTES:

- Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
- Topography shown was developed by KGS Group from the LIDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



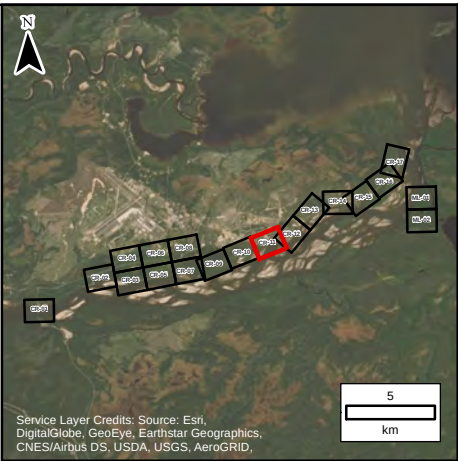
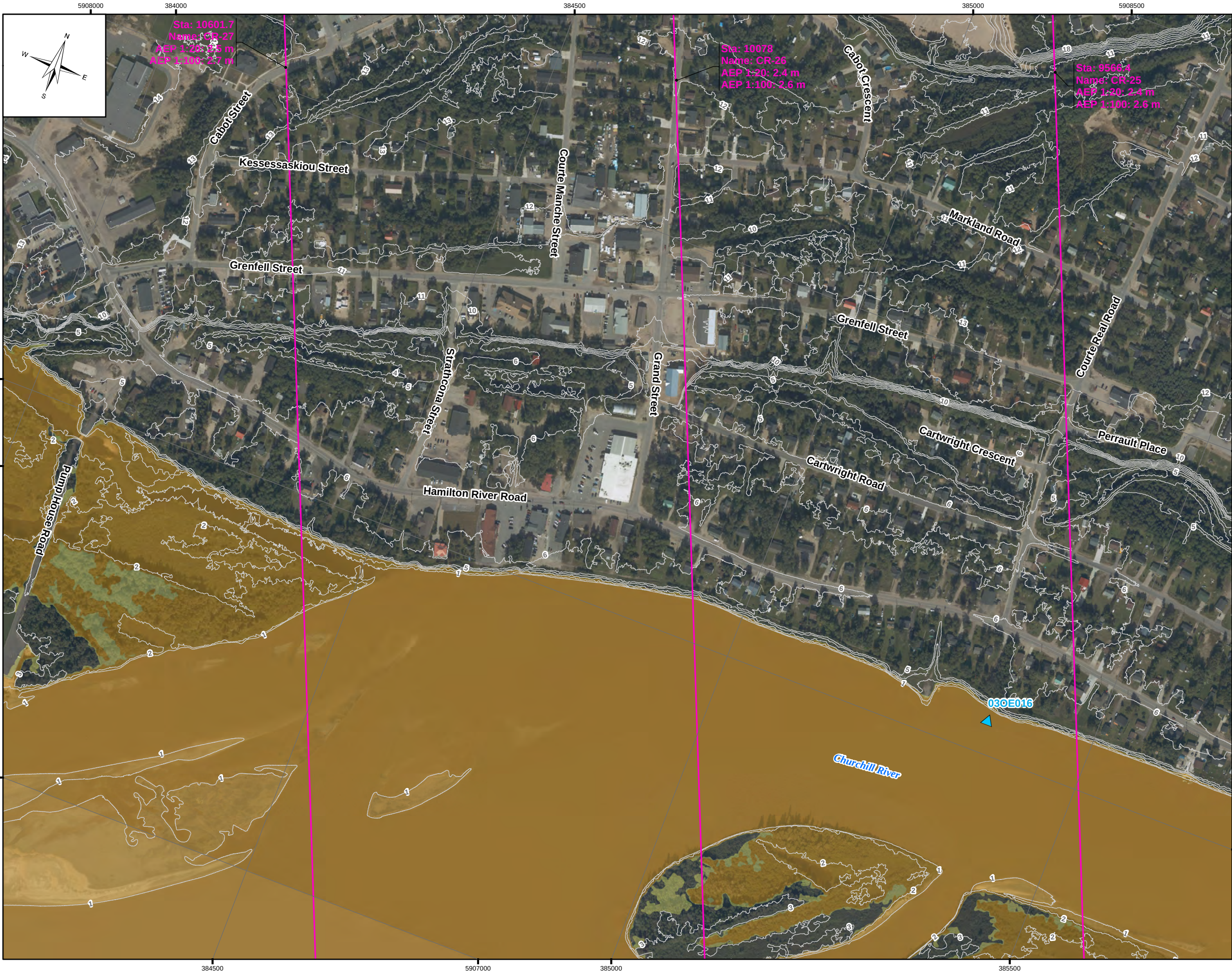
All units are metric and in metres unless otherwise specified.
Horizontal Projection: North American Datum 1983 CSRS (NAD83), Modified Transverse Mercator Projection (MTM), Zone 4. Elevations are in metres above sea level (MSL), Canadian Geodetic Vertical Datum 2013 (CGVD2013).

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CHURCHILL RIVER FLOOD RISK AND FORECASTING

OPEN WATER FLOOD ZONE FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) – CR-10

JUNE 2020	FIGURE 1.2	REV: 0
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LEGEND:

- Sta: 23648
Name: CR-53
AEP 1:20: 4.2 m
AEP 1:100: 4.5 m
- Cross Section
- Water Survey of Canada
Gauge Location
- River Centreline
- 1m LIDAR Contour
- 1:20 Year Open Water Flood Zone
- 1:100 Year Open Water Flood Zone

NOTES:

- Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
- Topography shown was developed by KGS Group from the LIDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



SCALE: 1:5,000 METRIC 11"x17"

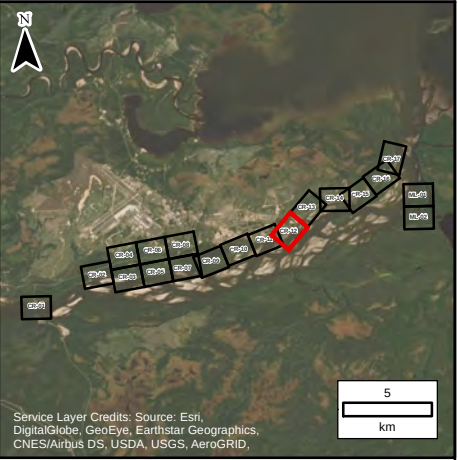
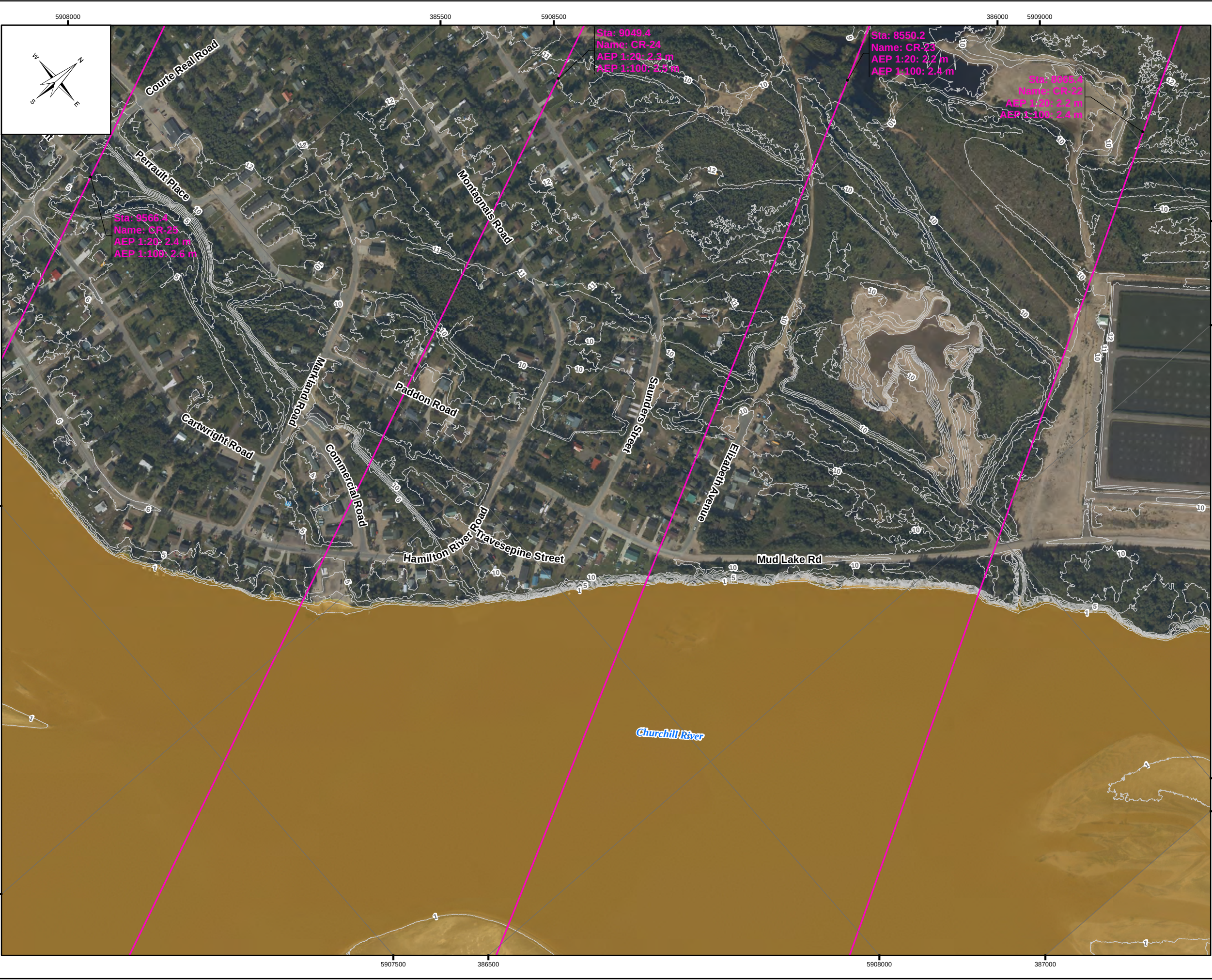
All units are metric and in metres unless otherwise specified.
Horizontal Projection: North American Datum 1983 CSRS (NAD83), Modified Transverse Mercator Projection (MTM), Zone 4. Elevations are in metres above sea level (MSL), Canadian Geodetic Vertical Datum 2013 (CGVD2013).

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NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
REVISIONS / ISSUE				

CHURCHILL RIVER FLOOD RISK AND FORECASTING

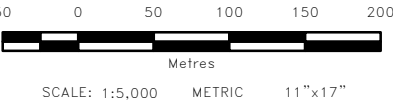
OPEN WATER FLOOD ZONE FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) – CR-11

JUNE 2020	FIGURE 1.2	REV: 0
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- LEGEND:
- Sta: 23648
Name: CR-53
AEP 1:20: 4.2 m
AEP 1:100: 4.5 m
 - Water Survey of Canada Gauge Location
 - River Centreline
 - 1m LIDAR Contour
 - 1:20 Year Open Water Flood Zone
 - 1:100 Year Open Water Flood Zone

- NOTES:
- Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
 - Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.

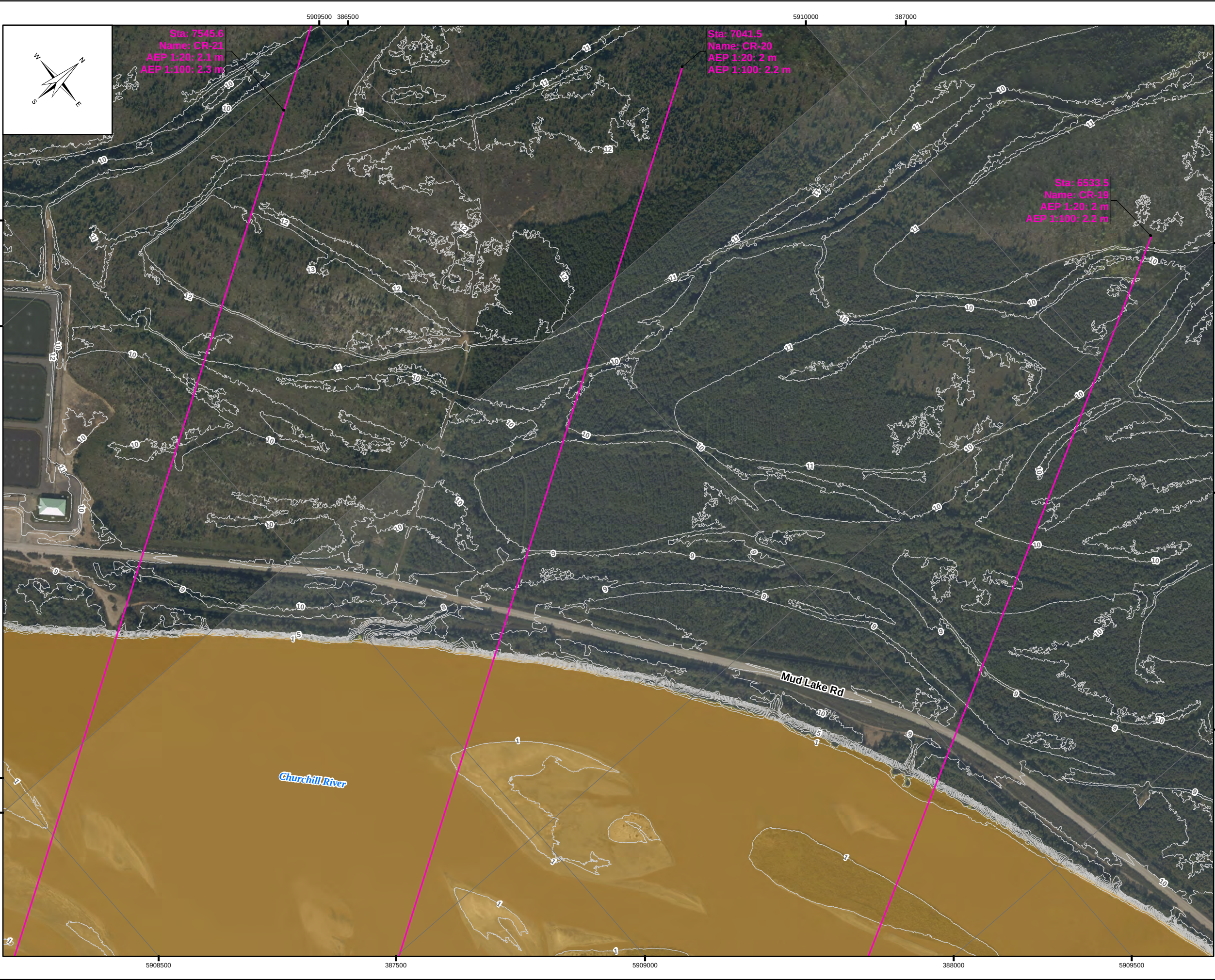


All units are metric and in metres unless otherwise specified.
Horizontal Projection: North American Datum 1983 CSRS (NAD83), Modified Transverse Mercator Projection (MTM), Zone 4. Elevations are in metres above sea level (MSL), Canadian Geodetic Vertical Datum 2013 (CGVD2013).

0	20/06/30	ISSUED WITH FINAL REPORT	DSB	MSW
NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY

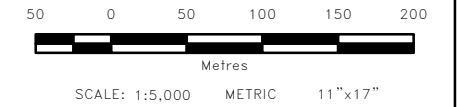
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CHURCHILL RIVER FLOOD RISK AND FORECASTING		
OPEN WATER FLOOD ZONE FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) – CR-12		
JUNE 2020	FIGURE 1.2	REV: 0



- LEGEND:**
- Cross Section
 - Water Survey of Canada Gauge Location
 - River Centreline
 - 1m LIDAR Contour
 - 1:20 Year Open Water Flood Zone
 - 1:100 Year Open Water Flood Zone

- NOTES:**
- Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
 - Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



All units are metric and in metres unless otherwise specified.
Horizontal Projection: North American Datum 1983 CSRS (NAD83), Modified Transverse Mercator Projection (MTM), Zone 4. Elevations are in metres above sea level (MSL), Canadian Geodetic Vertical Datum 2013 (CGVD2013).

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NO.	YY/MM/DD	DESCRIPTION	ISSUED BY
REVISIONS / ISSUE			



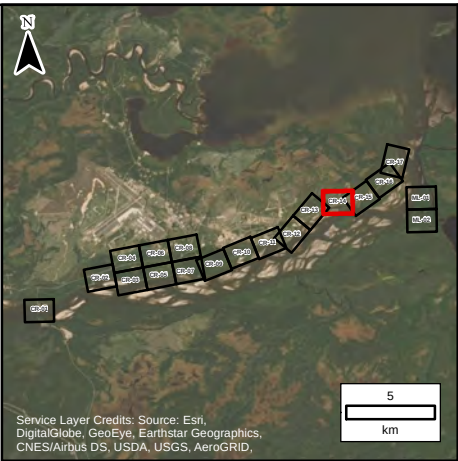
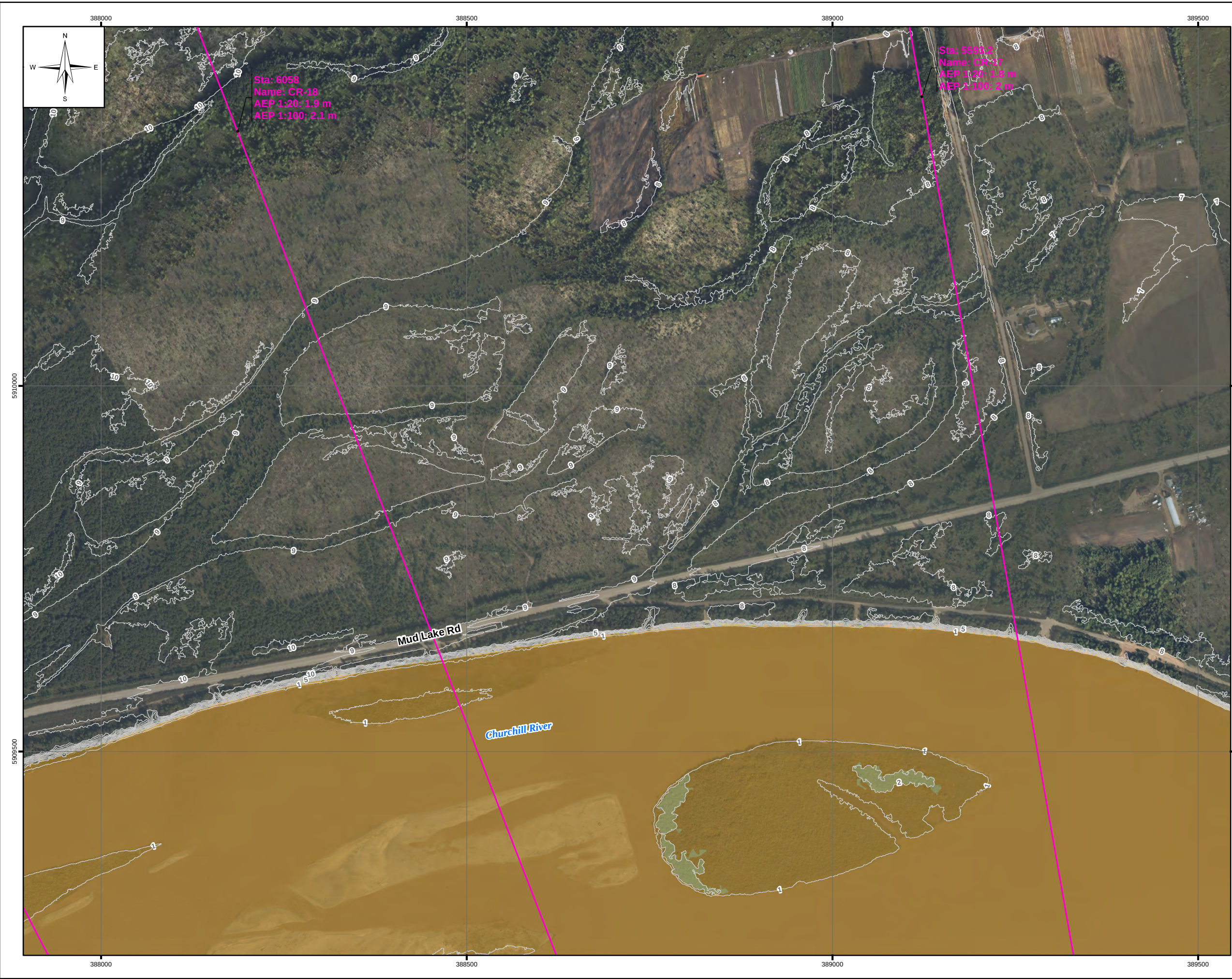
CHURCHILL RIVER FLOOD RISK AND FORECASTING

OPEN WATER FLOOD ZONE FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) – CR-13

JUNE 2020	FIGURE 1.2	REV: 0
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File Name: P:\Projects\2018\18-3217-001\Drawings\GIS\MXD\Flood_Mapping\18-3217-001_Fig1.2_11x17.mxd
11"x17" PLOT SCALE 1:1

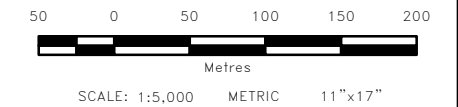
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LEGEND:

- Sta: 23648
Name: CR-53
AEP 1:20: 4.2 m
AEP 1:100: 4.5 m
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LIDAR Contour
- 1:20 Year Open Water Flood Zone
- 1:100 Year Open Water Flood Zone

- NOTES:
- Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
 - Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



All units are metric and in metres unless otherwise specified.
Horizontal Projection: North American Datum 1983 CSRS (NAD83), Modified Transverse Mercator Projection (MTM), Zone 4. Elevations are in metres above sea level (MSL), Canadian Geodetic Vertical Datum 2013 (CGVD2013).

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NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY

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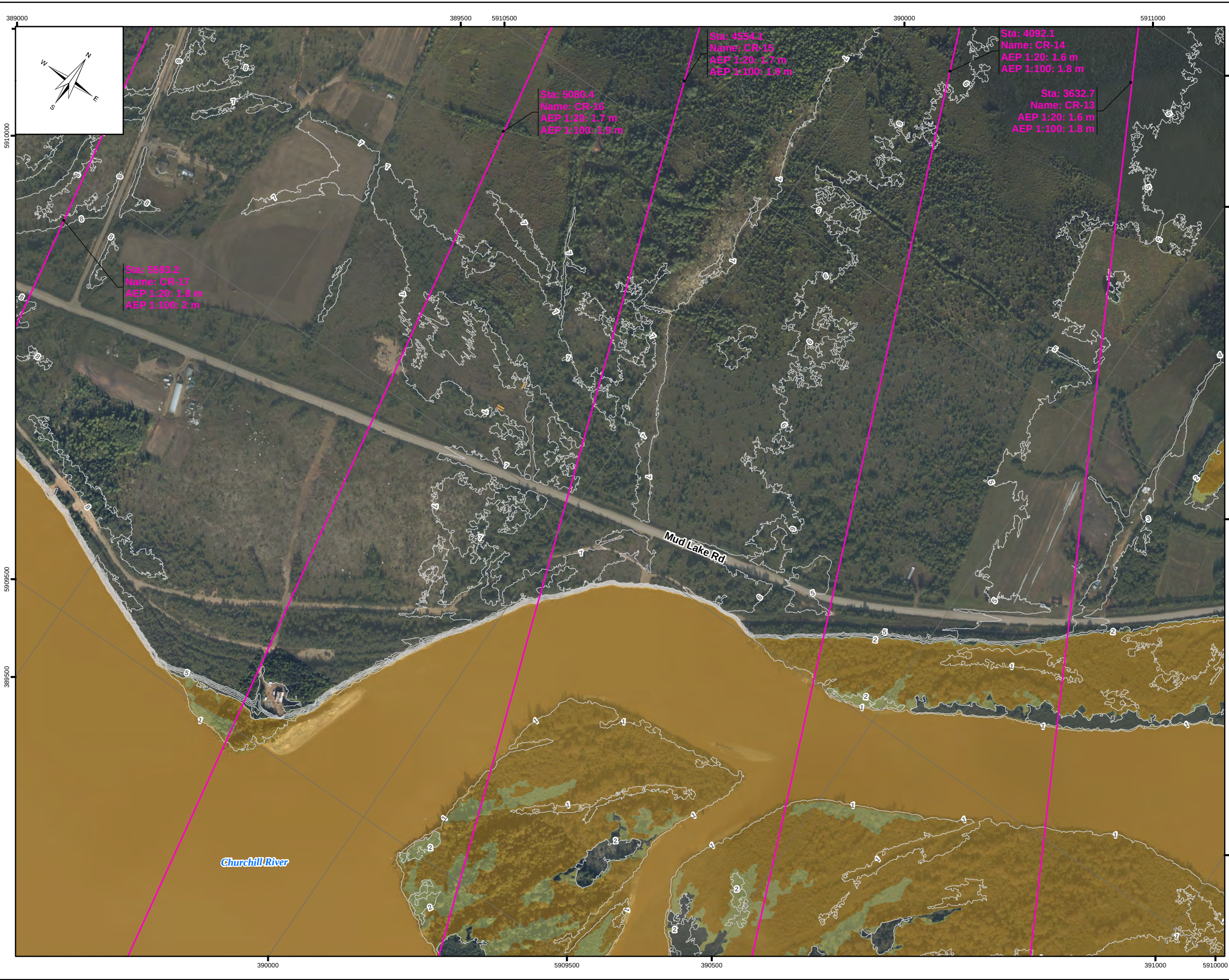
KGS GROUP CONSULTING ENGINEERS

Newfoundland Labrador

CHURCHILL RIVER FLOOD RISK AND FORECASTING		
OPEN WATER FLOOD ZONE FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) – CR-14		
JUNE 2020	FIGURE 1.2	REV: 0

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File Name: P:\Projects\2018\18-3217-001\Drawings\GIS\MXD\Flood_Mapping\18-3217-001_Fig1.2_11x17.mxd
11"x17" PLOT SCALE 1:1



LEGEND:

- Sta: 23648
Name: CR-53
AEP 1:20: 4.2 m
AEP 1:100: 4.5 m
- Cross Section
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LIDAR Contour
- 1:20 Year Open Water Flood Zone
- 1:100 Year Open Water Flood Zone

NOTES:

- Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
- Topography shown was developed by KGS Group from the LIDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



SCALE: 1:5,000 METRIC 11"x17"

All units are metric and in metres unless otherwise specified.
Horizontal Projection: North American Datum 1983 CSRS (NAD83), Modified Transverse Mercator Projection (MTM), Zone 4. Elevations are in metres above sea level (MSL), Canadian Geodetic Vertical Datum 2013 (CGVD2013).

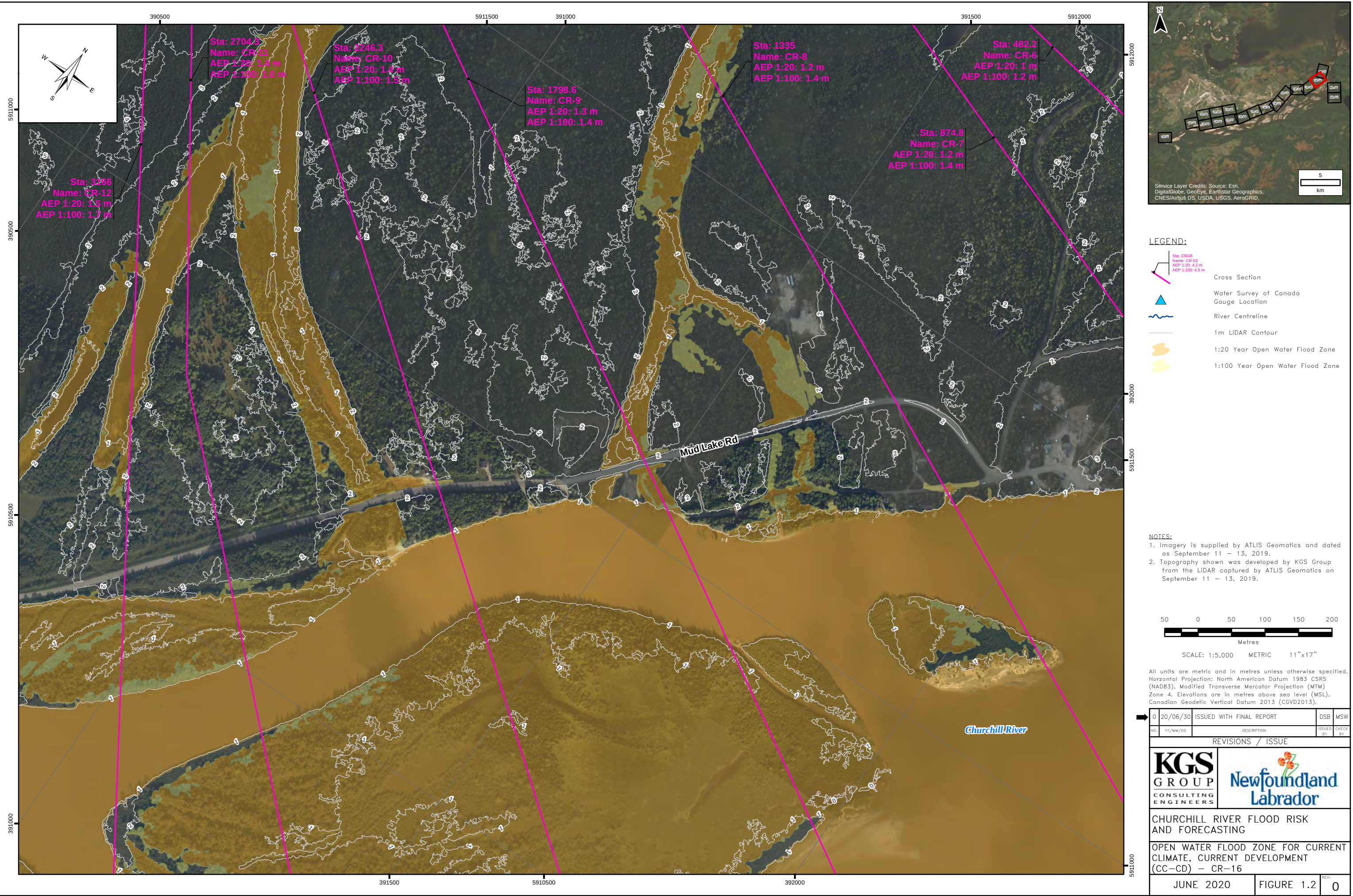
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NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
REVISIONS / ISSUE				

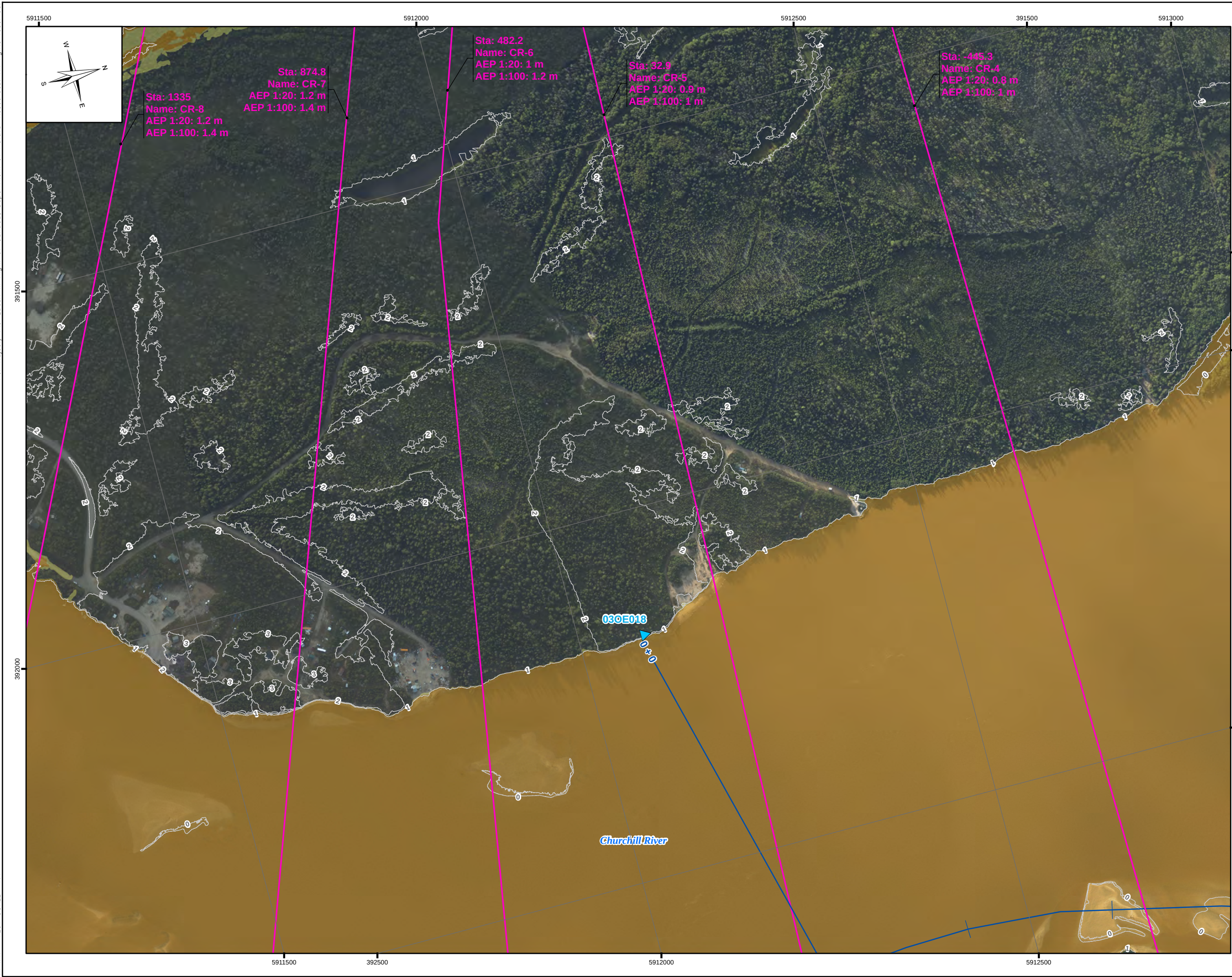


CHURCHILL RIVER FLOOD RISK AND FORECASTING

OPEN WATER FLOOD ZONE FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) – CR-15

JUNE 2020	FIGURE 1.2	REV: 0
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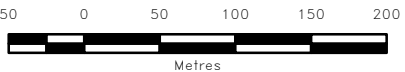


LEGEND:

- Sta: 23648
Name: CR-53
AEP 1:20: 4.2 m
AEP 1:100: 4.5 m
- Cross Section
- Water Survey of Canada
Gauge Location
- River Centreline
- 1m LIDAR Contour
- 1:20 Year Open Water Flood Zone
- 1:100 Year Open Water Flood Zone

NOTES:

- Imagery is supplied by ATLIS Geomatics and dated as September 11 – 13, 2019.
- Topography shown was developed by KGS Group from the LiDAR captured by ATLIS Geomatics on September 11 – 13, 2019.



SCALE: 1:5,000 METRIC 11"x17"

All units are metric and in metres unless otherwise specified.
Horizontal Projection: North American Datum 1983 CSRS (NAD83), Modified Transverse Mercator Projection (MTM), Zone 4. Elevations are in metres above sea level (MSL), Canadian Geodetic Vertical Datum 2013 (CGVD2013).

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NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
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KGS
GROUP
CONSULTING
ENGINEERS

Newfoundland
Labrador

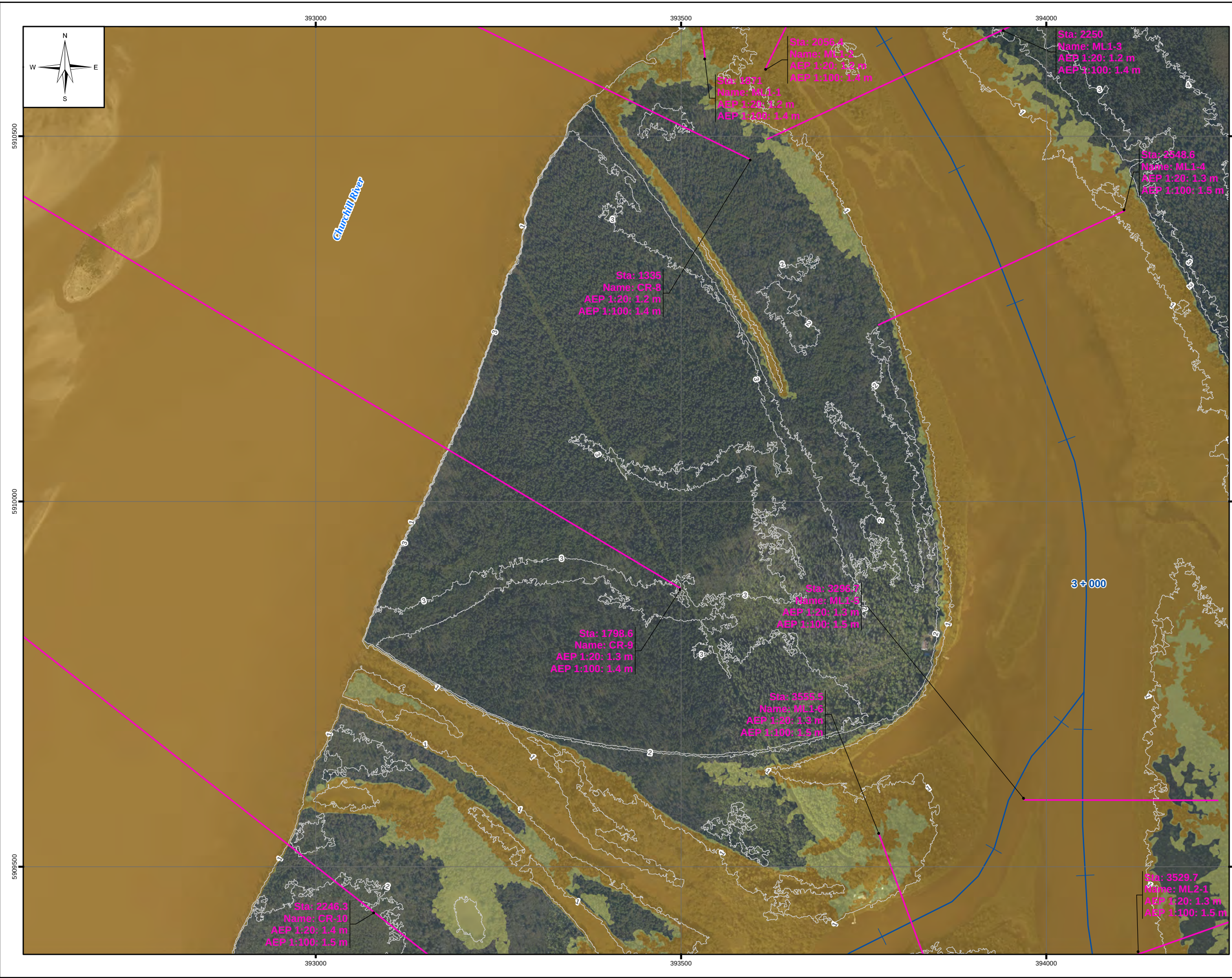
CHURCHILL RIVER FLOOD RISK
AND FORECASTING

OPEN WATER FLOOD ZONE FOR CURRENT
CLIMATE, CURRENT DEVELOPMENT
(CC-CD) – CR-17

JUNE 2020

FIGURE 1.2

REV: 0



Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID,

5 km

LEGEND:

- Sta: 23648
Name: CR-53
AEP 1:20: 4.2 m
AEP 1:100: 4.5 m
- Cross Section
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LIDAR Contour
- 1:20 Year Open Water Flood Zone
- 1:100 Year Open Water Flood Zone

NOTES:

- Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
- Topography shown was developed by KGS Group from the LIDAR captured by ATLAS Geomatics on September 11 – 13, 2019.

50 0 50 100 150 200

Metres

SCALE: 1:5,000 METRIC 11"x17"

All units are metric and in metres unless otherwise specified.
Horizontal Projection: North American Datum 1983 CSRS (NAD83), Modified Transverse Mercator Projection (MTM) Zone 4. Elevations are in metres above sea level (MSL), Canadian Geodetic Vertical Datum 2013 (CGVD2013).

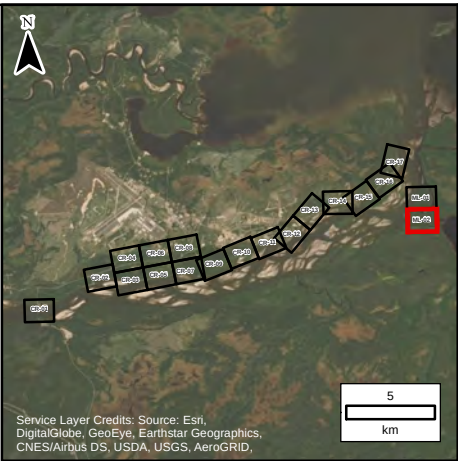
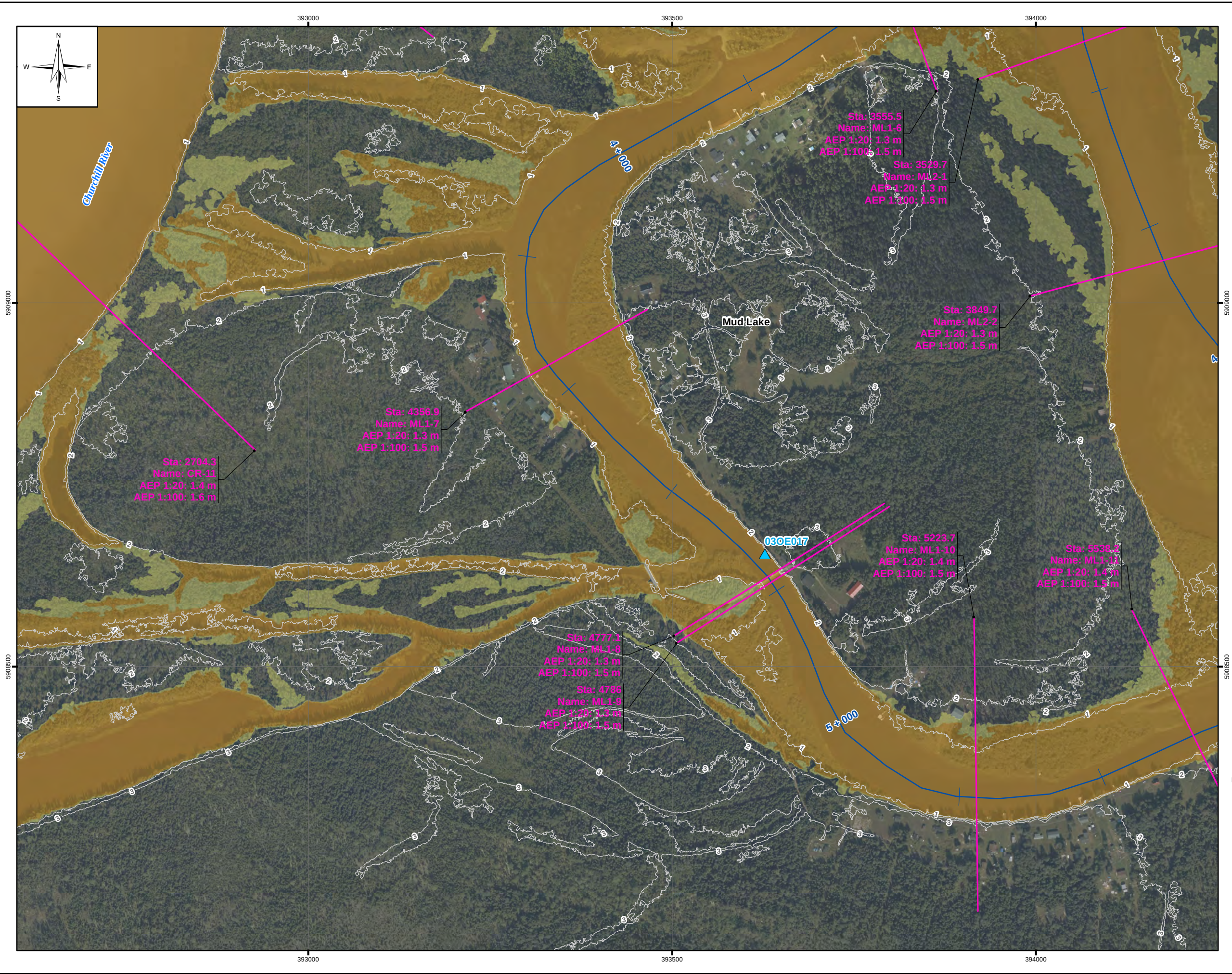
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NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY

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CHURCHILL RIVER FLOOD RISK AND FORECASTING

OPEN WATER FLOOD ZONE FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) – ML-01

JUNE 2020	FIGURE 1.2	REV: 0
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LEGEND:

- Sta: 23648
Name: CR-53
AEP 1:20: 4.2 m
AEP 1:100: 4.5 m
- Cross Section
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LIDAR Contour
- 1:20 Year Open Water Flood Zone
- 1:100 Year Open Water Flood Zone

NOTES:

- Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
- Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



SCALE: 1:5,000 METRIC 11"x17"

All units are metric and in metres unless otherwise specified.
Horizontal Projection: North American Datum 1983 CSRS (NAD83), Modified Transverse Mercator Projection (MTM), Zone 4. Elevations are in metres above sea level (MSL), Canadian Geodetic Vertical Datum 2013 (CGVD2013).

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NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
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CHURCHILL RIVER FLOOD RISK AND FORECASTING

OPEN WATER FLOOD ZONE FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) – ML-02

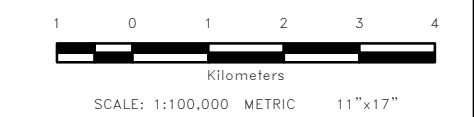
JUNE 2020	FIGURE 1.2	REV: 0
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- LEGEND:
- Water Survey of Canada Gauge Location
 - River Centerline
 - 1:20 Year Ice Affected Flood Zone
 - 1:100 Year Ice Affected Flood Zone
 - Map Extents

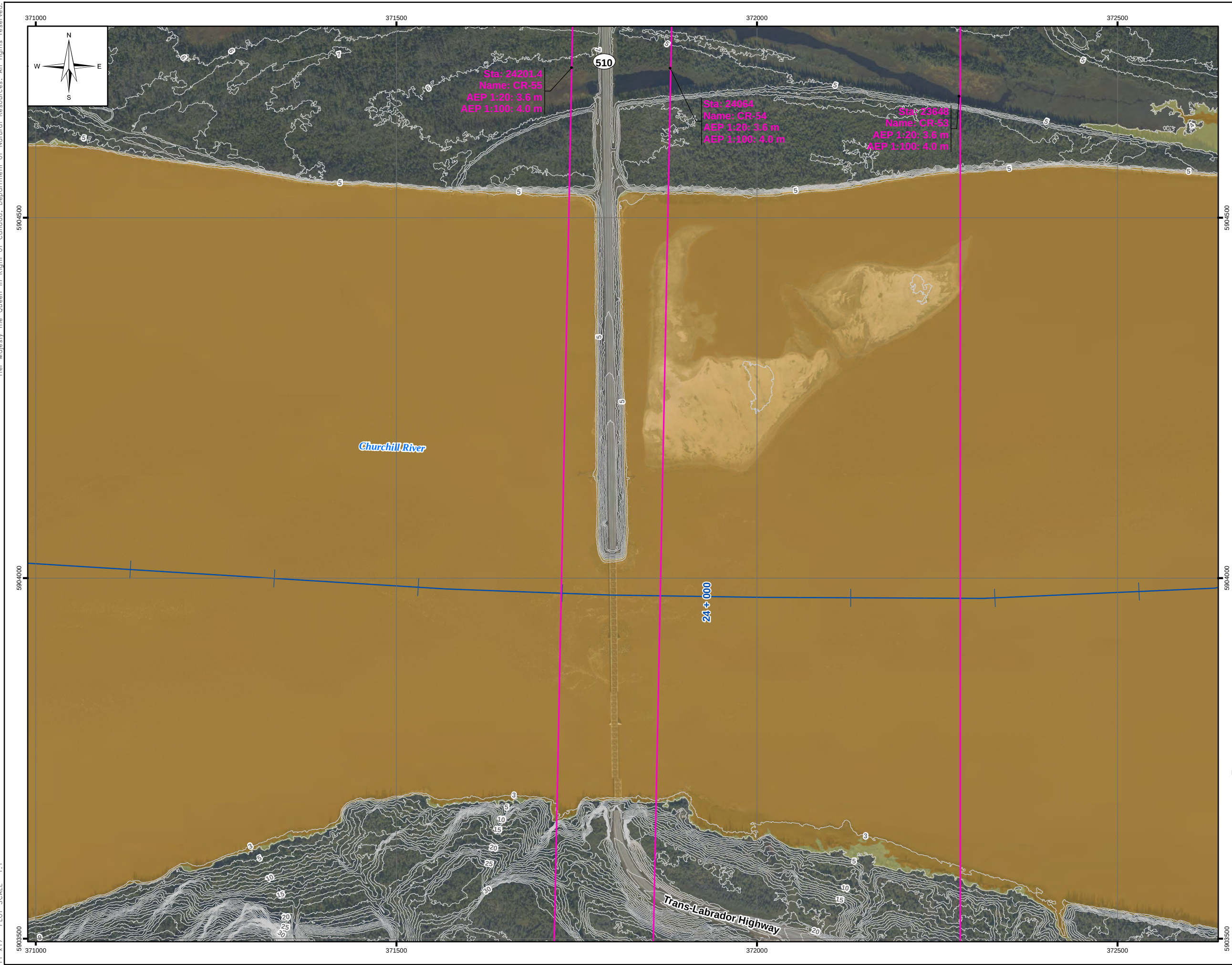
NOTES:

1. Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019, and by ESRI and DigitalGlobe, WV02 dated June 3, 2015.



All units are metric and in metres unless otherwise specified.
Horizontal Projection: North American Datum 1983 CSRS (NAD83), Modified Transverse Mercator Projection (MTM)
Zone 4. Elevations are in metres above sea level (MSL), Canadian Geodetic Vertical Datum 2013 (CGVD2013).

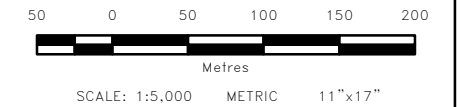
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NO.	YY/MM/DD	DESCRIPTION		ISSUED BY	CHECK BY
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CHURCHILL RIVER FLOOD RISK AND FORECASTING					
ICE-AFFECTED FLOOD ZONE FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) – OVERVIEW MAP					
JUNE 2020		FIGURE 2.1		REV:	0



LEGEND:

- Sta: 23648
Name: CR-53
AEP 1:20: 4.2 m
AEP 1:100: 4.5 m
- Cross Section
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LIDAR Contour
- 1:20 Year Ice Affected Flood Zone
- 1:100 Year Ice Affected Flood Zone

- NOTES:**
- Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
 - Topography shown was developed by KGS Group from the LIDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



All units are metric and in metres unless otherwise specified.
Horizontal Projection: North American Datum 1983 CSRS (NAD83), Modified Transverse Mercator Projection (MTM)
Zone 4. Elevations are in metres above sea level (MSL), Canadian Geodetic Vertical Datum 2013 (CGVD2013).

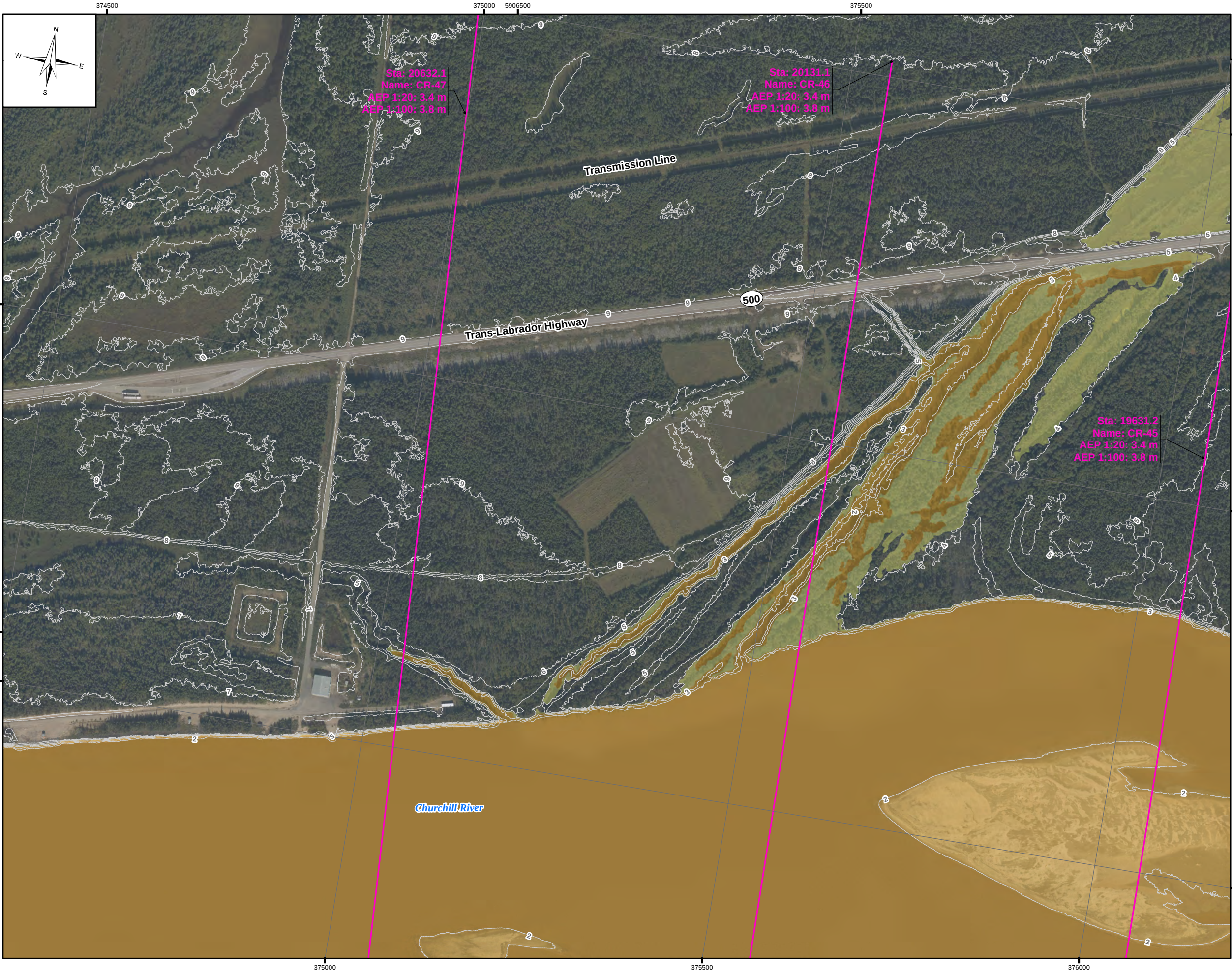
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NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
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CHURCHILL RIVER FLOOD RISK AND FORECASTING

ICE AFFECTED FLOOD ZONE FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) – CR-01

JUNE 2020	FIGURE 2.2	REV: 0
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- LEGEND:**
- Sta: 23648
Name: CR-53
AEP 1:20: 4.2 m
AEP 1:100: 4.5 m
 - Water Survey of Canada Gauge Location
 - River Centreline
 - 1m LIDAR Contour
 - 1:20 Year Ice Affected Flood Zone
 - 1:100 Year Ice Affected Flood Zone

- NOTES:**
- Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
 - Topography shown was developed by KGS Group from the LIDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



SCALE: 1:5,000 METRIC 11"x17"

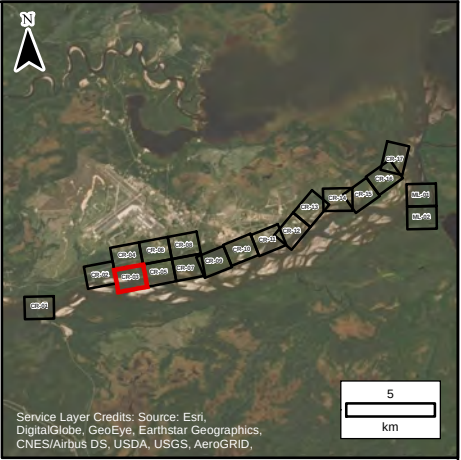
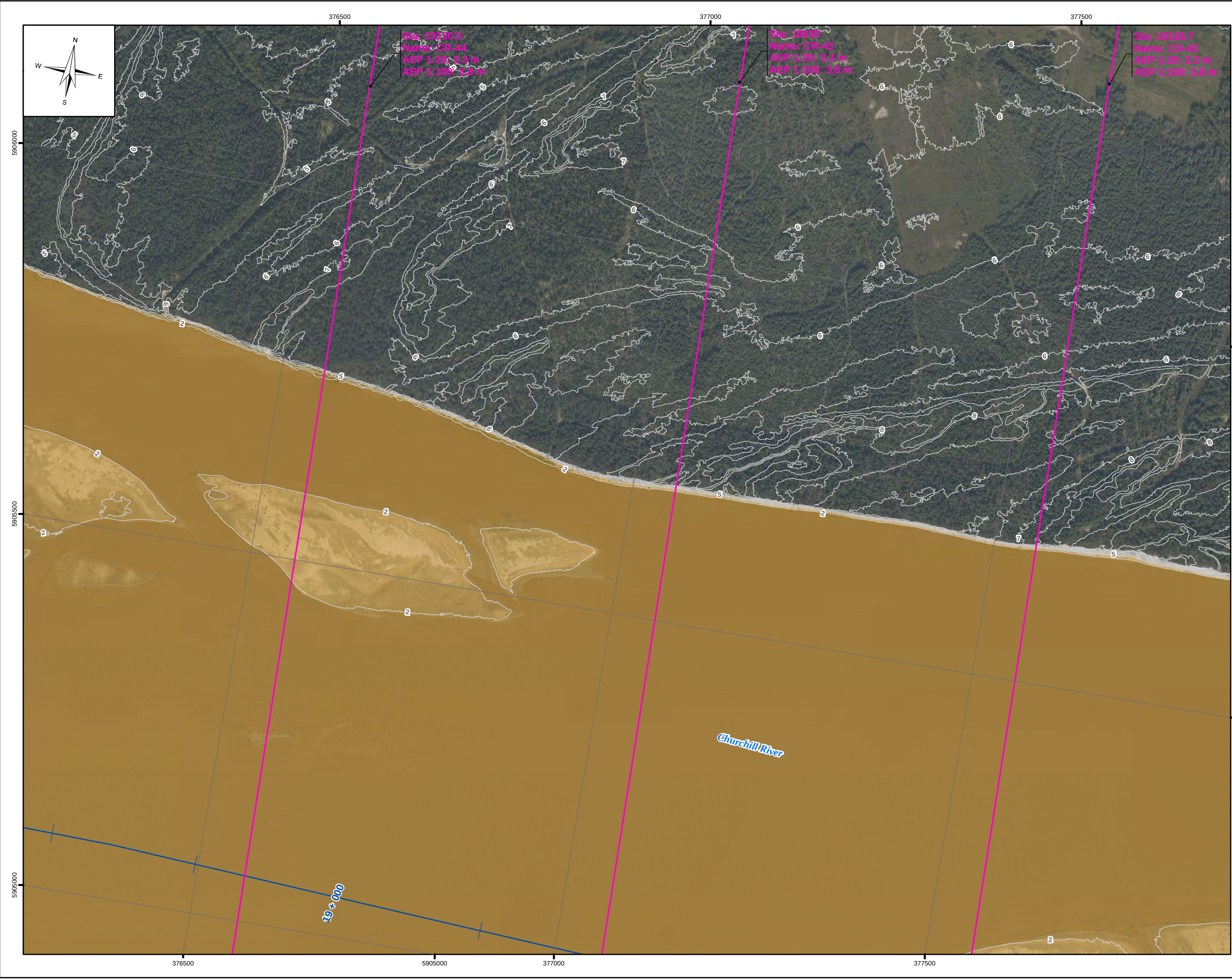
All units are metric and in metres unless otherwise specified.
Horizontal Projection: North American Datum 1983 CSRS (NAD83), Modified Transverse Mercator Projection (MTM)
Zone 4. Elevations are in metres above sea level (MSL), Canadian Geodetic Vertical Datum 2013 (CGVD2013).

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CHURCHILL RIVER FLOOD RISK AND FORECASTING

ICE AFFECTED FLOOD ZONE FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) – CR-02

JUNE 2020	FIGURE 2.2	REV: 0
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LEGEND:

- Sta: 23648
Name: CR-53
AEP 1:20: 4.2 m
AEP 1:100: 4.5 m
- Cross Section
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LIDAR Contour
- 1:20 Year Ice Affected Flood Zone
- 1:100 Year Ice Affected Flood Zone

NOTES:

- Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
- Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.

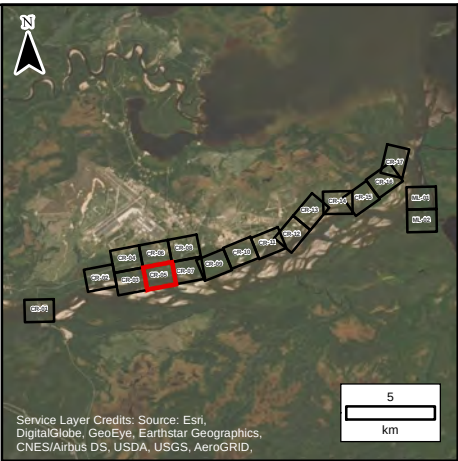
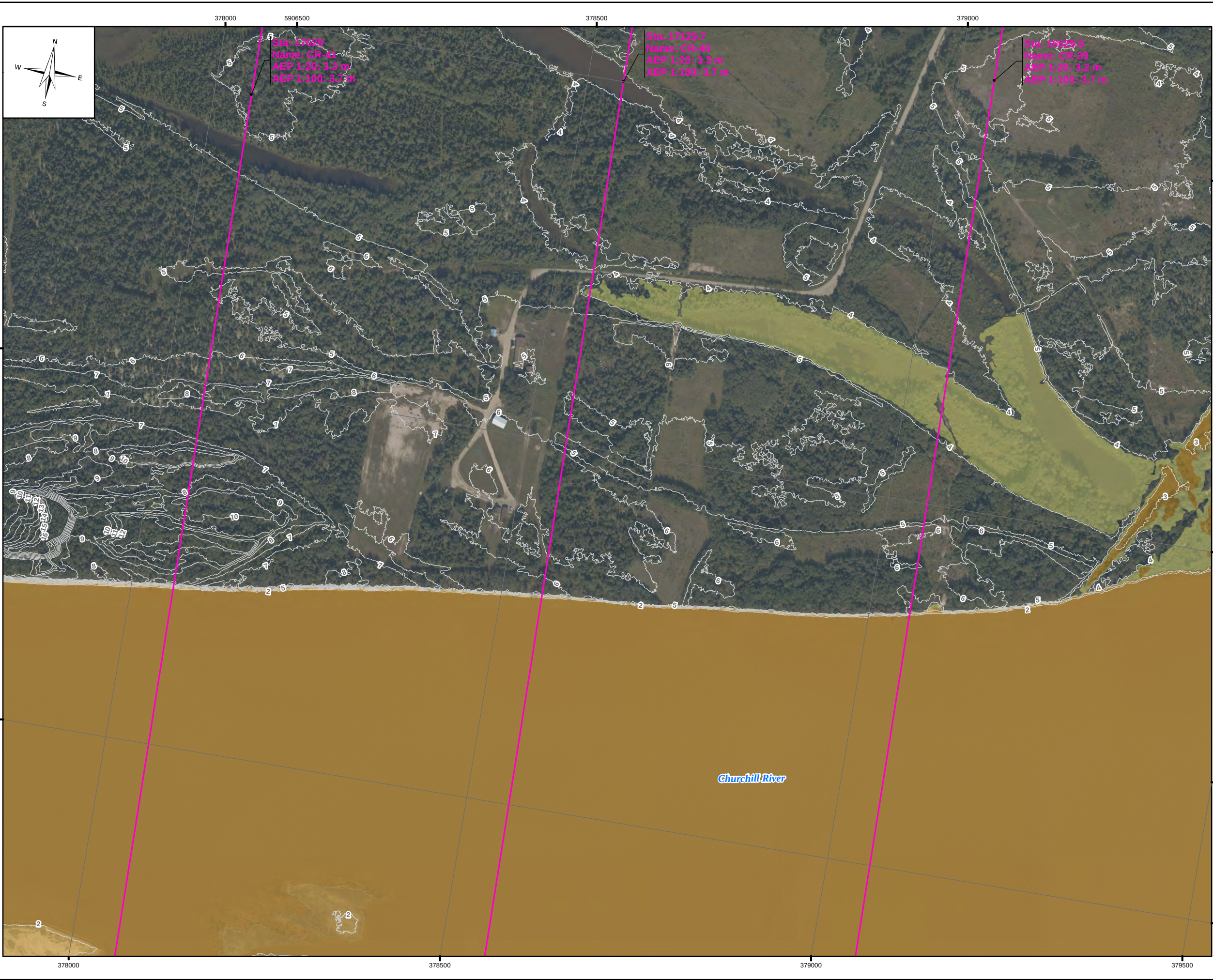


SCALE: 1:5,000 METRIC 11"x17"

All units are metric and in metres unless otherwise specified.
Horizontal Projection: North American Datum 1983 CSRS (NAD83), Modified Transverse Mercator Projection (MTM)
Zone 4. Elevations are in metres above sea level (MSL), Canadian Geodetic Vertical Datum 2013 (CGVD2013).

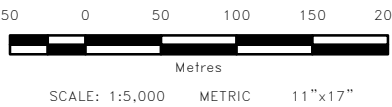
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KGS GROUP CONSULTING ENGINEERS		 Newfoundland Labrador			
CHURCHILL RIVER FLOOD RISK AND FORECASTING					
ICE AFFECTED FLOOD ZONE FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) – CR-03					
JUNE 2020		FIGURE 2.2			REV: 0



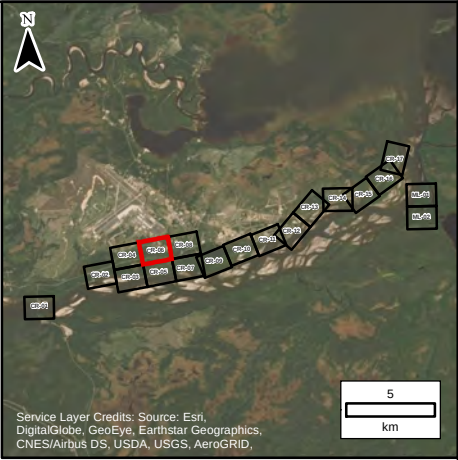
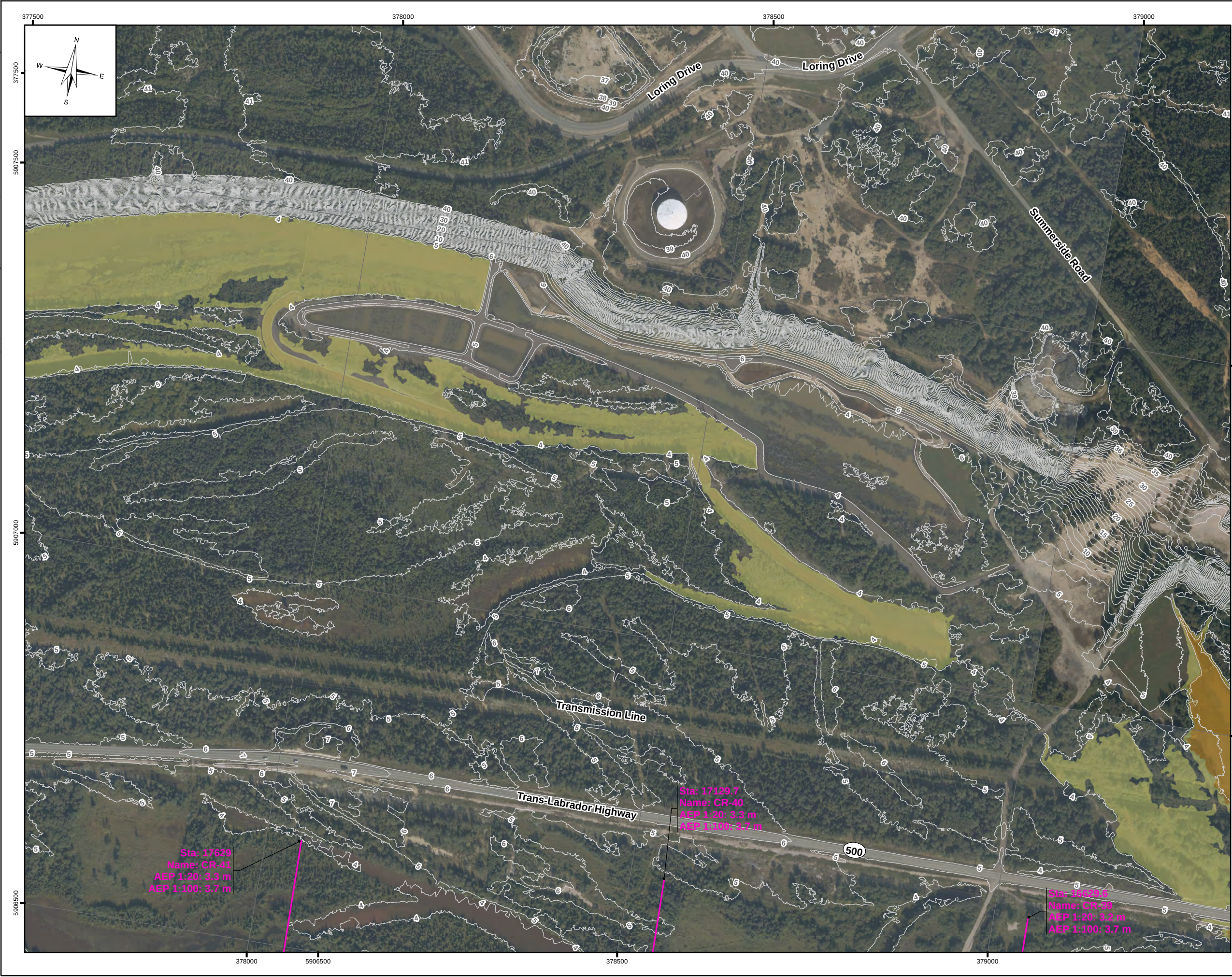
- LEGEND:**
- Sta: 23648
Name: CR-53
AEP 1:20: 4.2 m
AEP 1:100: 4.5 m
 - Water Survey of Canada Gauge Location
 - River Centreline
 - 1m LIDAR Contour
 - 1:20 Year Ice Affected Flood Zone
 - 1:100 Year Ice Affected Flood Zone

- NOTES:**
- Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
 - Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



All units are metric and in metres unless otherwise specified.
Horizontal Projection: North American Datum 1983 CSRS (NAD83), Modified Transverse Mercator Projection (MTM)
Zone 4. Elevations are in metres above sea level (MSL), Canadian Geodetic Vertical Datum 2013 (CGVD2013).

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CHURCHILL RIVER FLOOD RISK AND FORECASTING					
ICE AFFECTED FLOOD ZONE FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) – CR-05					
JUNE 2020		FIGURE 2.2		REV:	0



LEGEND:

- Sta: 23648
Name: CR-53
AEP 1:20: 4.2 m
AEP 1:100: 4.5 m
- Cross Section
- Water Survey of Canada
Gauge Location
- River Centreline
- 1m LIDAR Contour
- 1:20 Year Ice Affected Flood Zone
- 1:100 Year Ice Affected Flood Zone

NOTES:

- Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
- Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



SCALE: 1:5,000 METRIC 11"x17"

All units are metric and in metres unless otherwise specified.
Horizontal Projection: North American Datum 1983 CSRS (NAD83), Modified Transverse Mercator Projection (MTM)
Zone 4. Elevations are in metres above sea level (MSL), Canadian Geodetic Vertical Datum 2013 (CGVD2013).

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CHURCHILL RIVER FLOOD RISK AND FORECASTING

ICE AFFECTED FLOOD ZONE FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) – CR-06

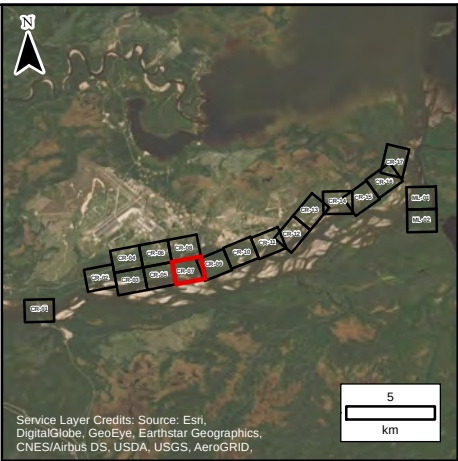
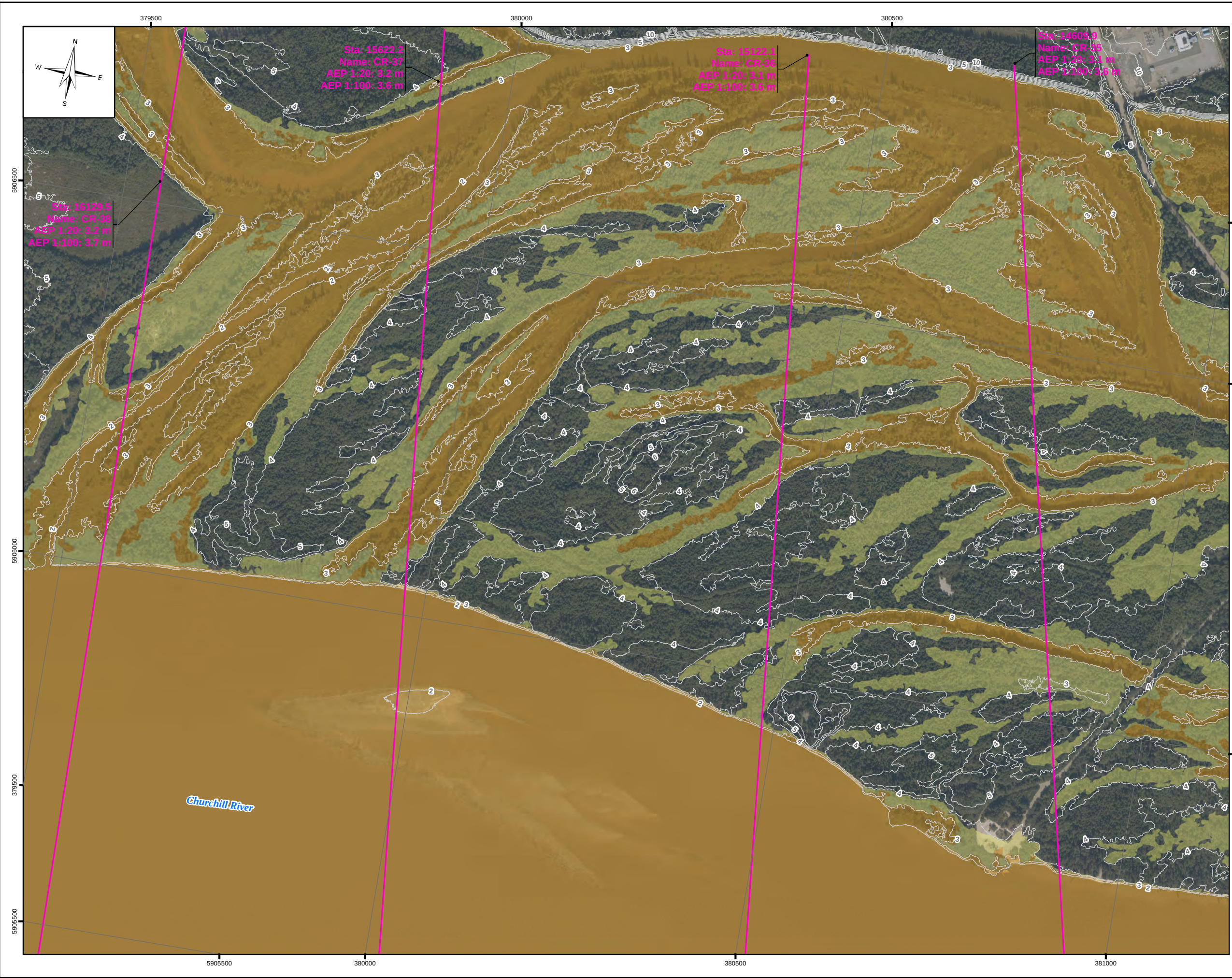
JUNE 2020

FIGURE 2.2

REV: 0

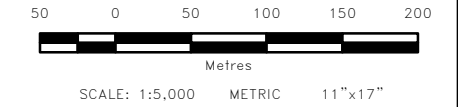
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File Name: P:\Projects\2018\18-3217-001\Draw\GIS\MXD\Flood_Mapping\18-3217-001_Fig2.2_11x17.mxd
11"x17" PLOT SCALE 1:1



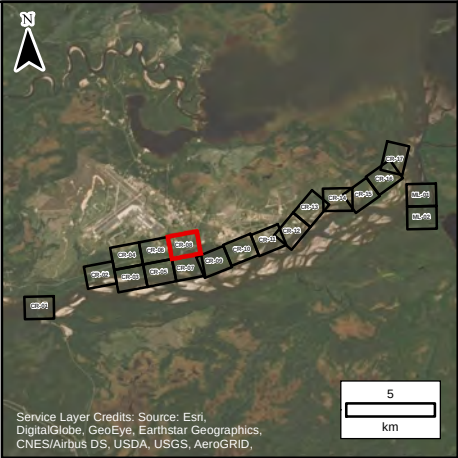
- LEGEND:**
- Sta: 23648
Name: CR-53
AEP 1:20: 4.2 m
AEP 1:100: 4.5 m
 - Cross Section
 - Water Survey of Canada Gauge Location
 - River Centreline
 - 1m LIDAR Contour
 - 1:20 Year Ice Affected Flood Zone
 - 1:100 Year Ice Affected Flood Zone

- NOTES:**
- Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
 - Topography shown was developed by KGS Group from the LIDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



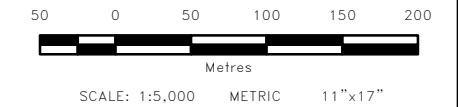
All units are metric and in metres unless otherwise specified.
Horizontal Projection: North American Datum 1983 CSRS (NAD83), Modified Transverse Mercator Projection (MTM)
Zone 4. Elevations are in metres above sea level (MSL), Canadian Geodetic Vertical Datum 2013 (CGVD2013).

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REVISIONS / ISSUE					
					
CHURCHILL RIVER FLOOD RISK AND FORECASTING					
ICE AFFECTED FLOOD ZONE FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) – CR-07					
JUNE 2020		FIGURE 2.2		REV:	0



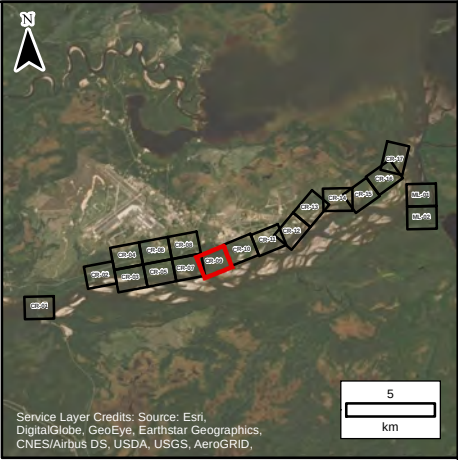
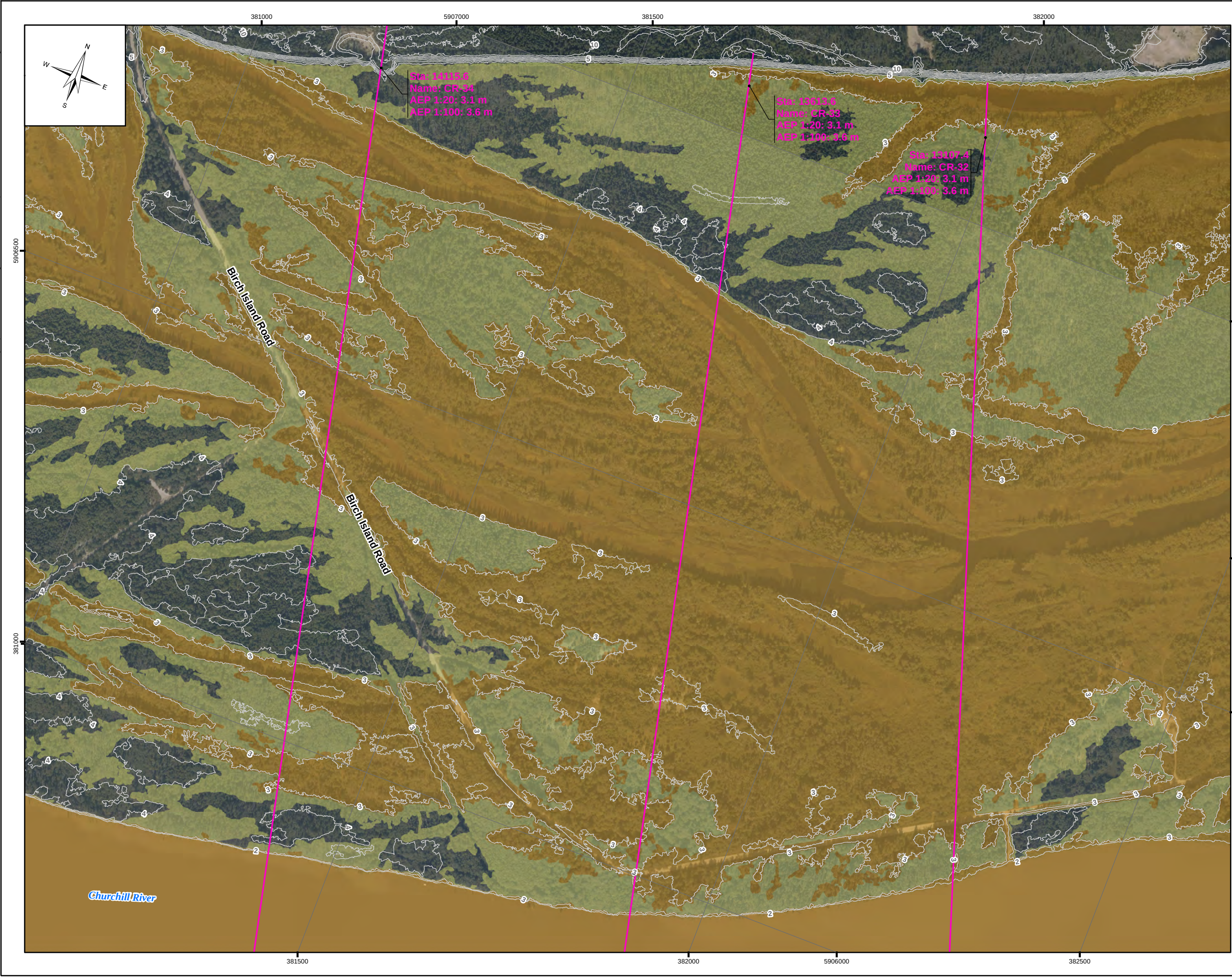
- LEGEND:**
- Sta: 23648
Name: CR-53
AEP 1:20: 4.2 m
AEP 1:100: 4.5 m
 - Water Survey of Canada Gauge Location
 - River Centreline
 - 1m LIDAR Contour
 - 1:20 Year Ice Affected Flood Zone
 - 1:100 Year Ice Affected Flood Zone

- NOTES:**
- Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
 - Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



All units are metric and in metres unless otherwise specified.
Horizontal Projection: North American Datum 1983 CSRS (NAD83), Modified Transverse Mercator Projection (MTM) Zone 4. Elevations are in metres above sea level (MSL), Canadian Geodetic Vertical Datum 2013 (CGVD2013).

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NO.	YY/MM/DD	DESCRIPTION		ISSUED BY	CHECK BY
REVISIONS / ISSUE					
					
CHURCHILL RIVER FLOOD RISK AND FORECASTING					
ICE AFFECTED FLOOD ZONE FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) – CR-08					
JUNE 2020		FIGURE 2.2		REV: 0	



LEGEND:

- Sta: 23648
Name: CR-53
AEP 1:20: 4.2 m
AEP 1:100: 4.5 m
- Cross Section
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LIDAR Contour
- 1:20 Year Ice Affected Flood Zone
- 1:100 Year Ice Affected Flood Zone

NOTES:

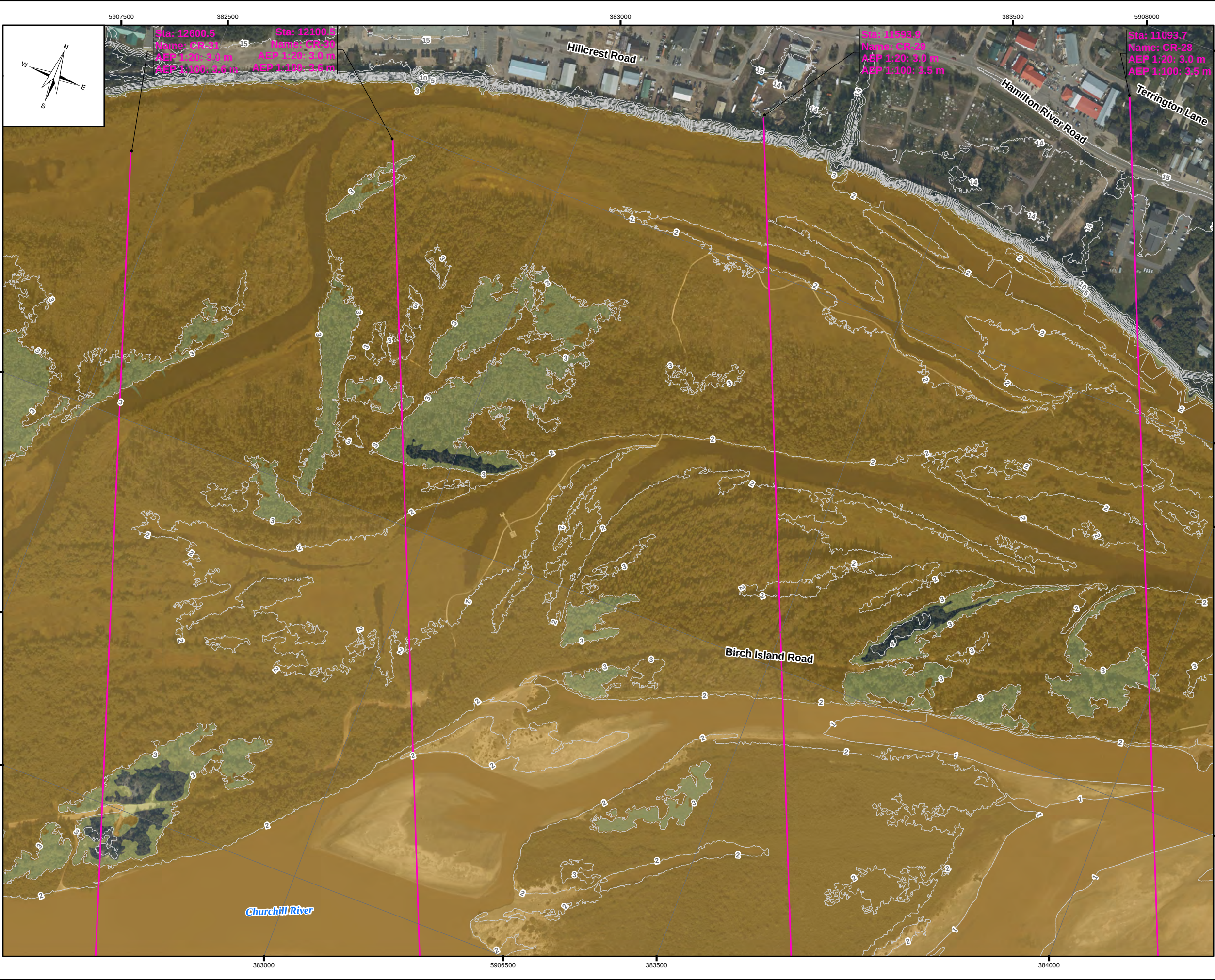
- Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
- Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



SCALE: 1:5,000 METRIC 11"x17"

All units are metric and in metres unless otherwise specified.
Horizontal Projection: North American Datum 1983 CSRS (NAD83), Modified Transverse Mercator Projection (MTM).
Zone 4. Elevations are in metres above sea level (MSL), Canadian Geodetic Vertical Datum 2013 (CGVD2013).

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CHURCHILL RIVER FLOOD RISK AND FORECASTING					
ICE AFFECTED FLOOD ZONE FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) – CR-09					
JUNE 2020		FIGURE 2.2		REV: 0	



- LEGEND:**
- Sta: 23648
Name: CR-53
AEP 1:20: 4.2 m
AEP 1:100: 4.5 m
 - Cross Section
 - Water Survey of Canada Gauge Location
 - River Centreline
 - 1m LIDAR Contour
 - 1:20 Year Ice Affected Flood Zone
 - 1:100 Year Ice Affected Flood Zone

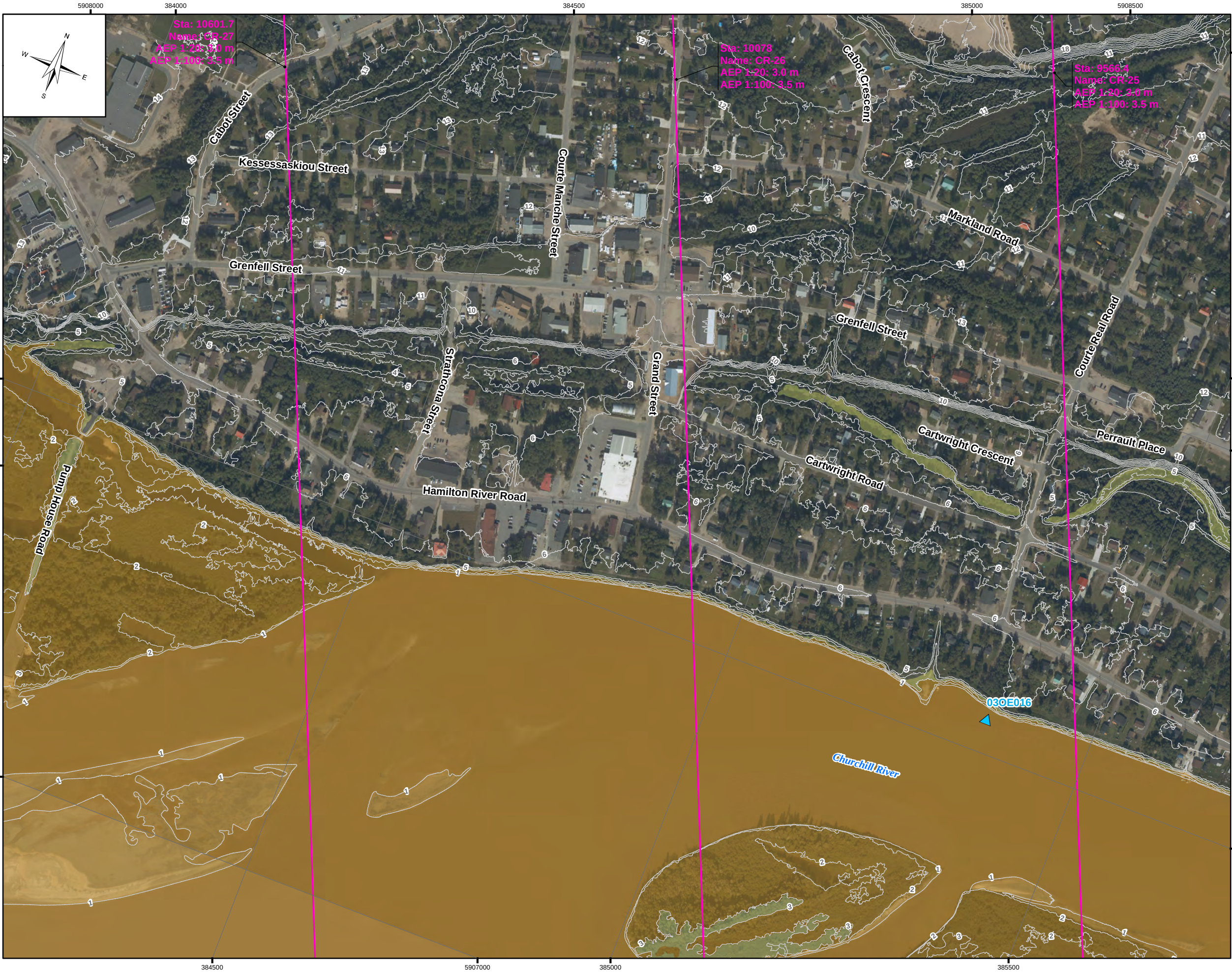
- NOTES:**
1. Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
 2. Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



SCALE: 1:5,000 METRIC 11"x17"

All units are metric and in metres unless otherwise specified.
Horizontal Projection: North American Datum 1983 CSRS (NAD83), Modified Transverse Mercator Projection (MTM)
Zone 4. Elevations are in metres above sea level (MSL), Canadian Geodetic Vertical Datum 2013 (CGVD2013).

0 20/06/30		ISSUED WITH FINAL REPORT		DSB	MSW
NO.	YY/MM/DD	DESCRIPTION		ISSUED BY	CHECK BY
REVISIONS / ISSUE					
					
CHURCHILL RIVER FLOOD RISK AND FORECASTING					
ICE AFFECTED FLOOD ZONE FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) – CR-10					
JUNE 2020		FIGURE 2.2			REV: 0



LEGEND:

- Sta: 23648
Name: CR-53
AEP 1:20: 4.2 m
AEP 1:100: 4.5 m
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LIDAR Contour
- 1:20 Year Ice Affected Flood Zone
- 1:100 Year Ice Affected Flood Zone

NOTES:

- Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
- Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



All units are metric and in metres unless otherwise specified.
Horizontal Projection: North American Datum 1983 CSRS (NAD83), Modified Transverse Mercator Projection (MTM)
Zone 4. Elevations are in metres above sea level (MSL), Canadian Geodetic Vertical Datum 2013 (CGVD2013).

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CHURCHILL RIVER FLOOD RISK AND FORECASTING

ICE AFFECTED FLOOD ZONE FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) – CR-11

JUNE 2020	FIGURE 2.2	REV: 0
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Sta: 23648
Name: CR-53
AEP 1:20: 4.2 m
AEP 1:100: 4.5 m

 Water Survey of Canada
Gauge Location

1m LiDAR Contour

1.20 Year 100 Affected Flood Zone

NOTES:

1. Imagery is supplied by ATLIS Geomatics and dated as September 11 – 13, 2019.
2. Topography shown was developed by KGS Group from the LiDAR captured by ATLIS Geomatics on September 11 – 13, 2019.



SCALE: 1:5,000 METRIC 11"x17"

All units are metric and in metres unless otherwise specified.
Horizontal Projection: North American Datum 1983 CSRS
(NAD83), Modified Transverse Mercator Projection (MTM)
Zone 4. Elevations are in metres above sea level (MSL),
Canadian Geodetic Vertical Datum 2013 (CGVD2013).

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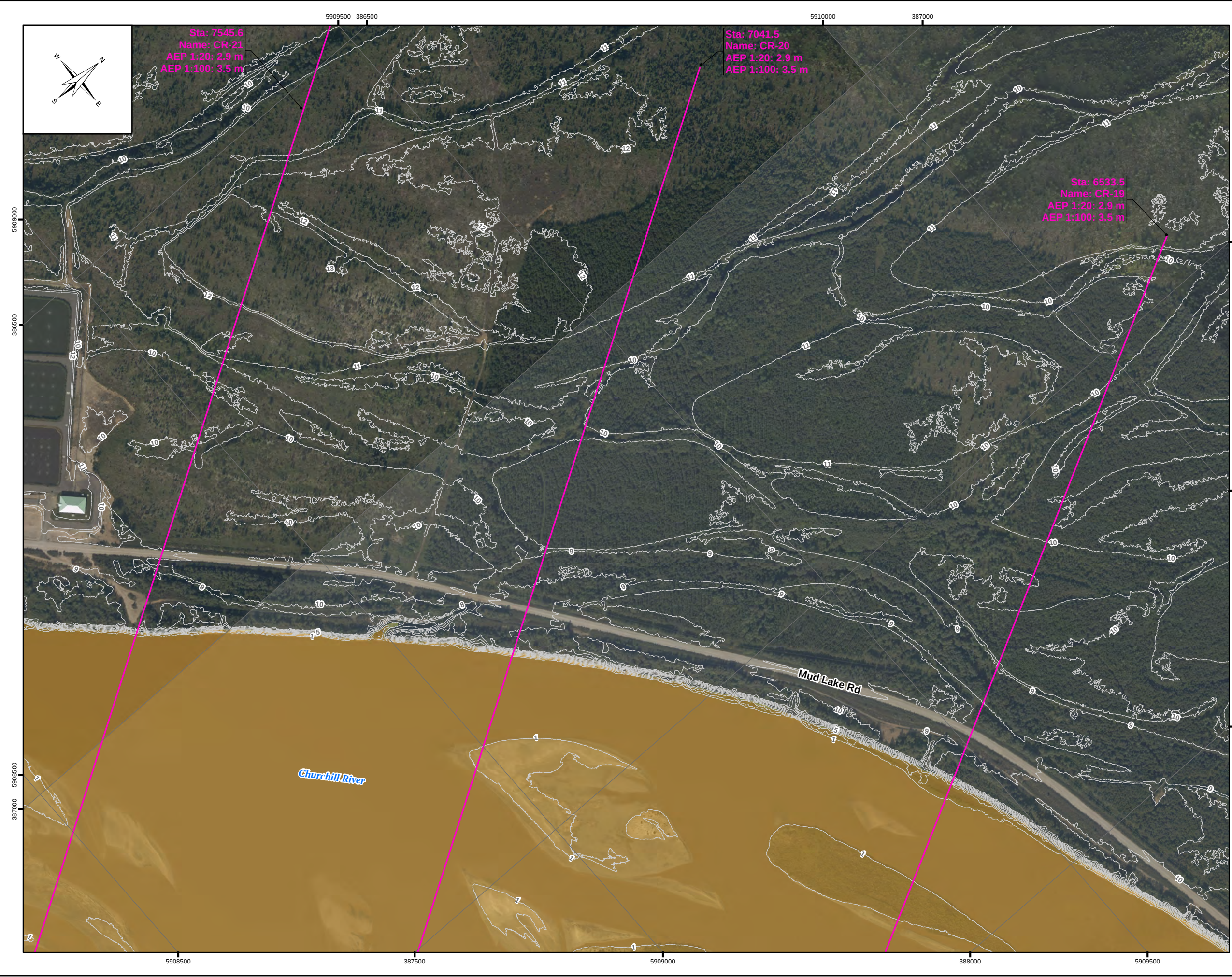
CHURCHILL RIVER FLOOD RISK AND FORECASTING

ICE AFFECTED FLOOD ZONE FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) - CR-12

JUNE 2020

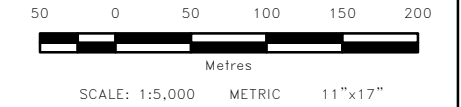
FIGURE 2.2

REV. 0



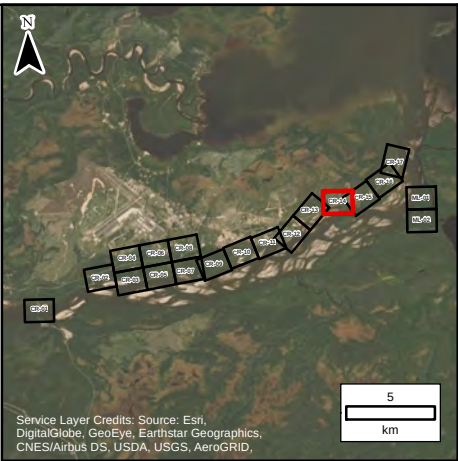
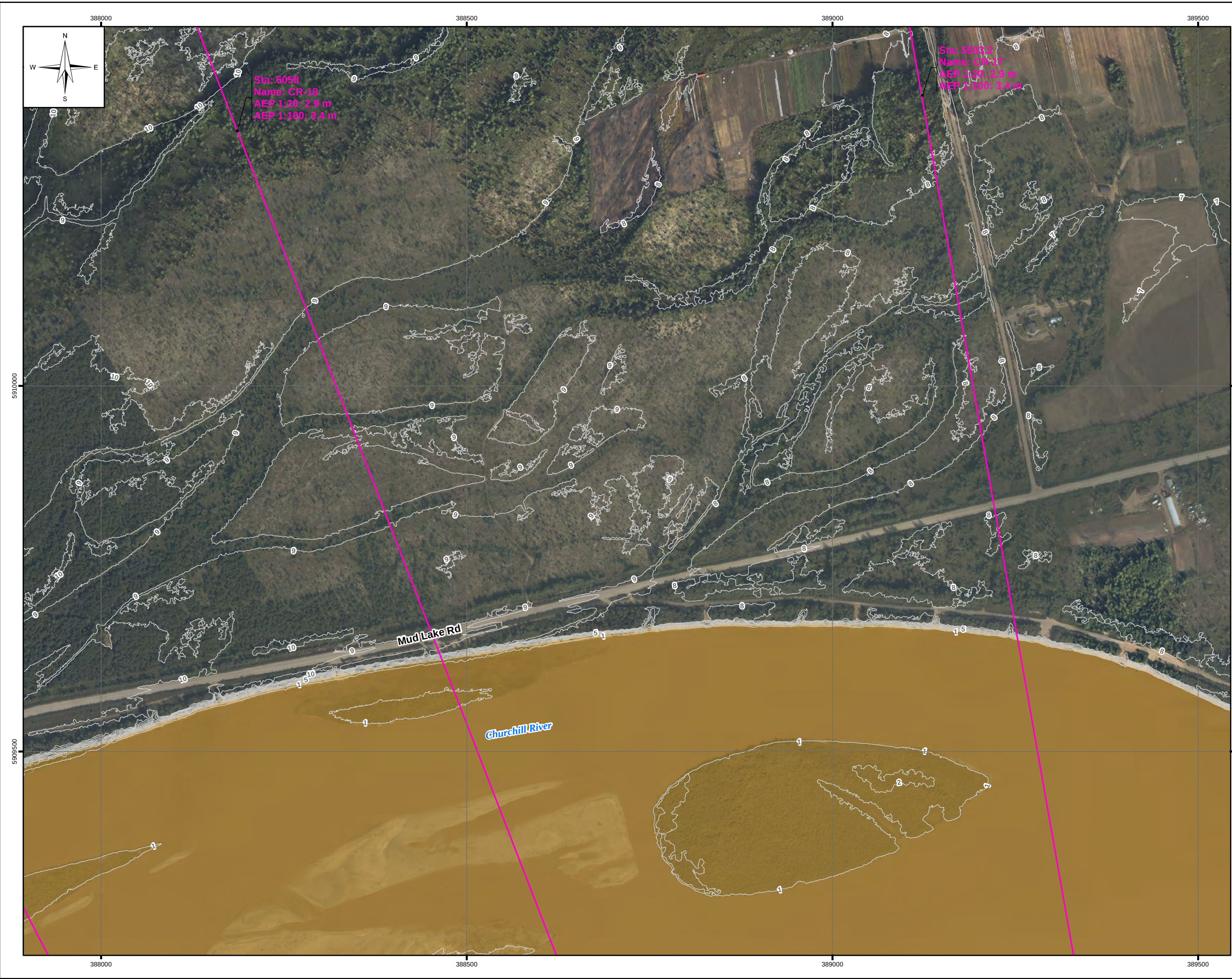
- LEGEND:
- Cross Section
 - Water Survey of Canada Gauge Location
 - River Centreline
 - 1m LIDAR Contour
 - 1:20 Year Ice Affected Flood Zone
 - 1:100 Year Ice Affected Flood Zone

- NOTES:
- Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
 - Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



All units are metric and in metres unless otherwise specified.
Horizontal Projection: North American Datum 1983 CSRS (NAD83), Modified Transverse Mercator Projection (MTM), Zone 4. Elevations are in metres above sea level (MSL), Canadian Geodetic Vertical Datum 2013 (CGVD2013).

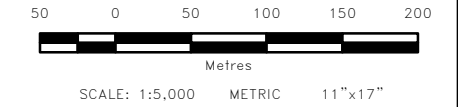
0 20/06/30		ISSUED WITH FINAL REPORT		DSB	MSW
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CHURCHILL RIVER FLOOD RISK AND FORECASTING					
ICE AFFECTED FLOOD ZONE FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) – CR-13					
JUNE 2020		FIGURE 2.2			REV: 0



LEGEND:

- Sta: 23648
Name: CR-53
AEP 1:20: 4.2 m
AEP 1:100: 4.5 m
- Cross Section
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LIDAR Contour
- 1:20 Year Ice Affected Flood Zone
- 1:100 Year Ice Affected Flood Zone

- NOTES:**
1. Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
 2. Topography shown was developed by KGS Group from the LIDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



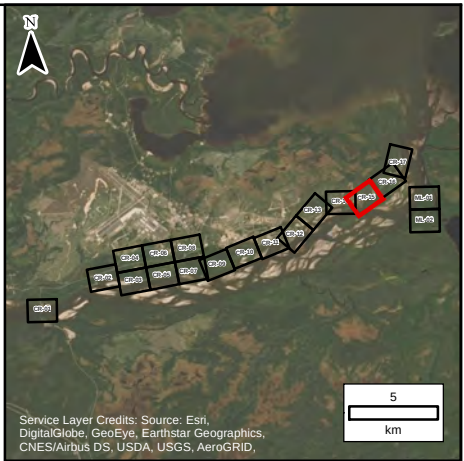
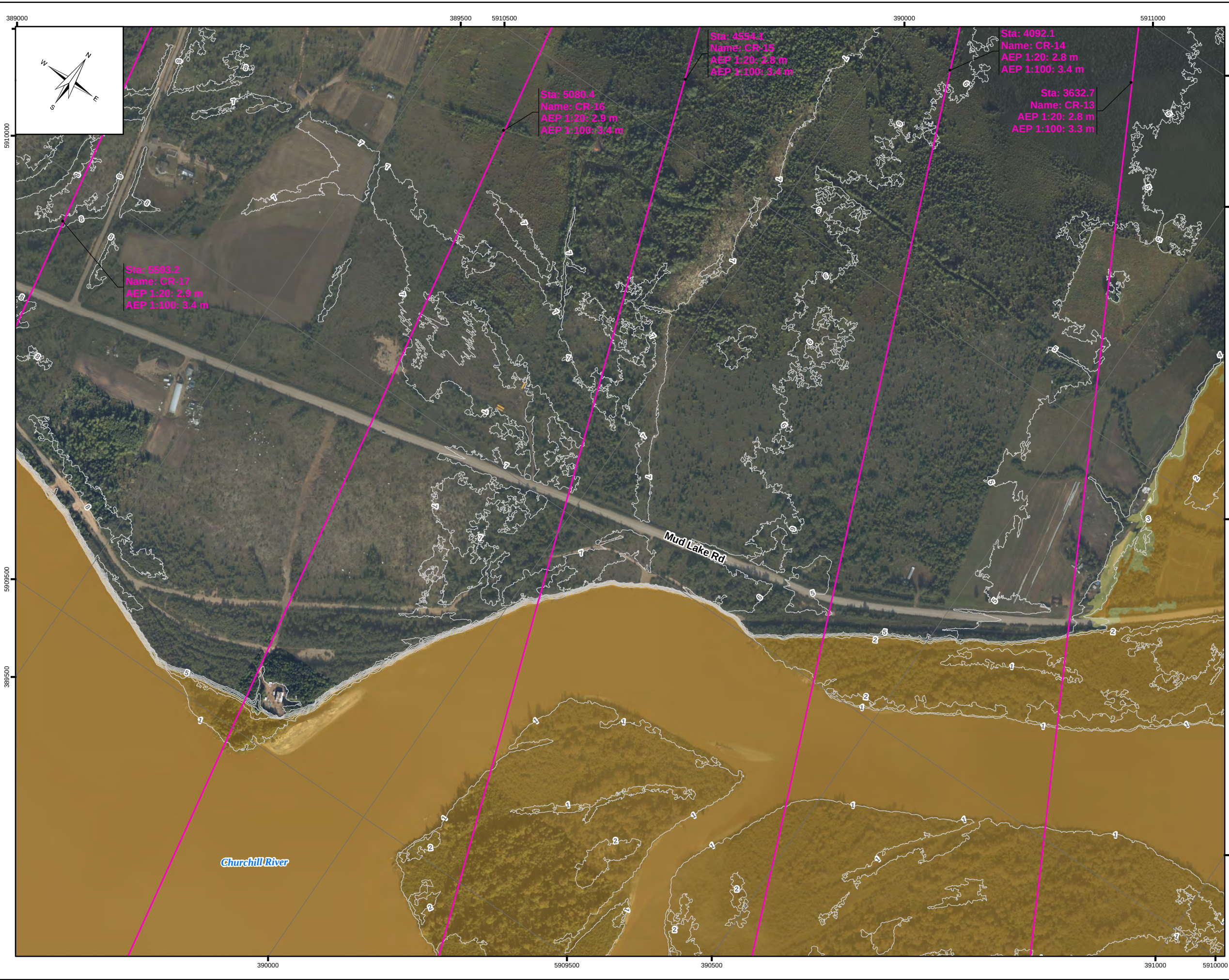
All units are metric and in metres unless otherwise specified.
Horizontal Projection: North American Datum 1983 CSRS (NAD83), Modified Transverse Mercator Projection (MTM)
Zone 4. Elevations are in metres above sea level (MSL), Canadian Geodetic Vertical Datum 2013 (CGVD2013).

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CHURCHILL RIVER FLOOD RISK AND FORECASTING

ICE AFFECTED FLOOD ZONE FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) – CR-14

JUNE 2020	FIGURE 2.2	REV: 0
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LEGEND:

- Sta: 23648
Name: CR-53
AEP 1:20: 4.2 m
AEP 1:100: 4.5 m
- Cross Section
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LIDAR Contour
- 1:20 Year Ice Affected Flood Zone
- 1:100 Year Ice Affected Flood Zone

NOTES:

- Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
- Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.

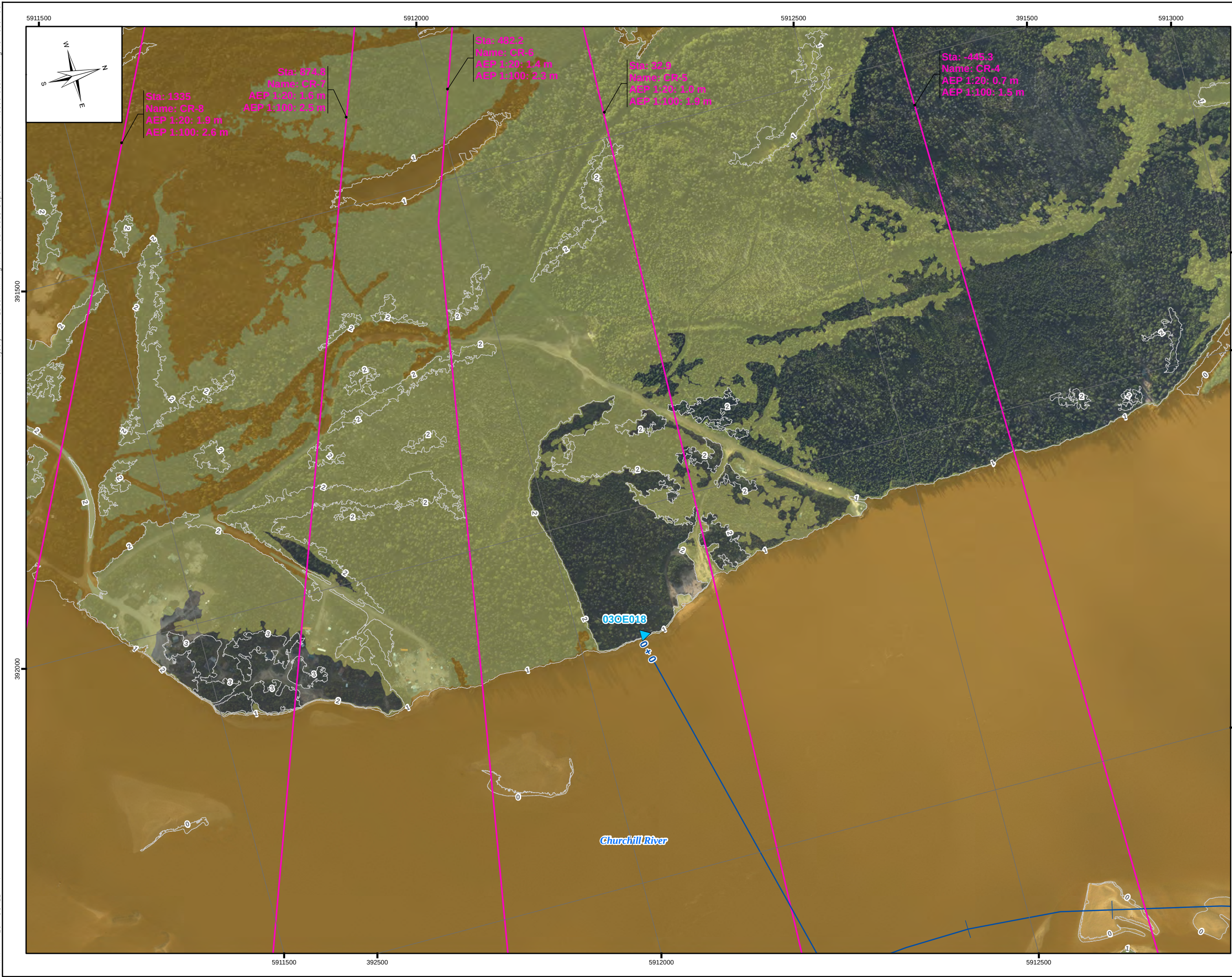


SCALE: 1:5,000 METRIC 11"x17"

All units are metric and in metres unless otherwise specified.
Horizontal Projection: North American Datum 1983 CSRS (NAD83), Modified Transverse Mercator Projection (MTM)
Zone 4. Elevations are in metres above sea level (MSL), Canadian Geodetic Vertical Datum 2013 (CGVD2013).

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KGS GROUP CONSULTING ENGINEERS		Newfoundland Labrador		
CHURCHILL RIVER FLOOD RISK AND FORECASTING				
ICE AFFECTED FLOOD ZONE FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) – CR-15				
JUNE 2020		FIGURE 2.2		REV: 0

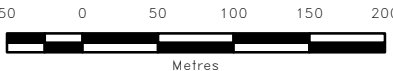


LEGEND:

- Sta: 23648
Name: CR-53
AEP 1:20: 4.2 m
AEP 1:100: 4.5 m
- Cross Section
- Water Survey of Canada
Gauge Location
- River Centreline
- 1m LIDAR Contour
- 1:20 Year Ice Affected Flood Zone
- 1:100 Year Ice Affected Flood Zone

NOTES:

- Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
- Topography shown was developed by KGS Group from the LIDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



SCALE: 1:5,000 METRIC 11"x17"

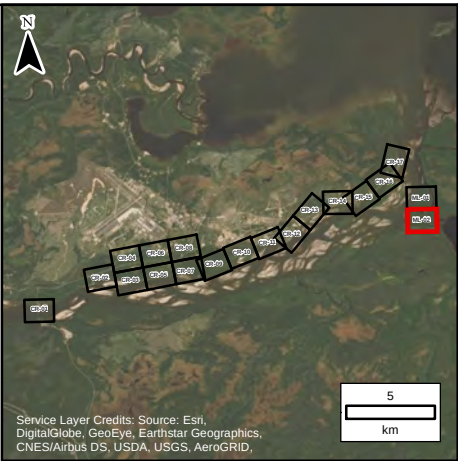
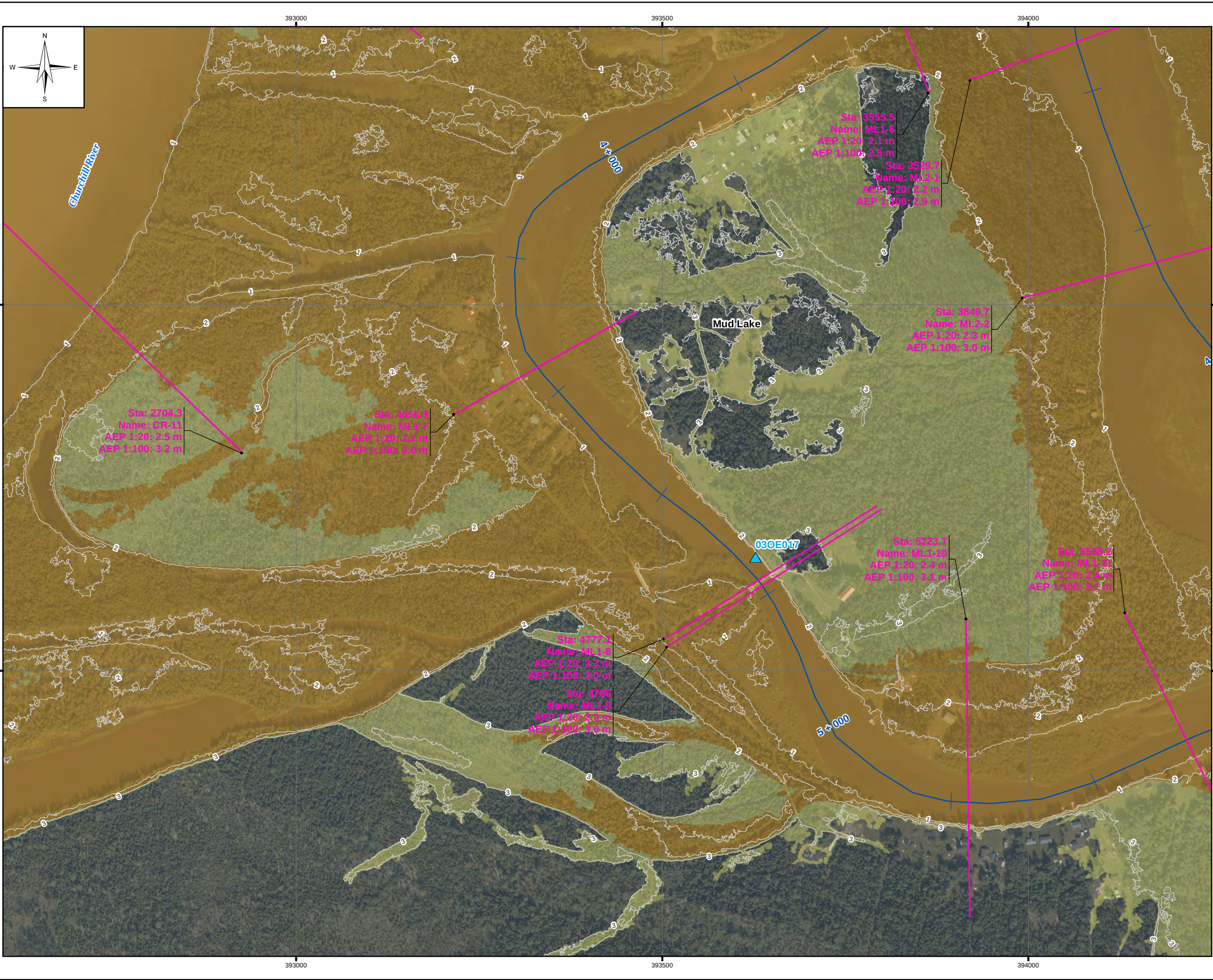
All units are metric and in metres unless otherwise specified.
Horizontal Projection: North American Datum 1983 CSRS (NAD83), Modified Transverse Mercator Projection (MTM)
Zone 4. Elevations are in metres above sea level (MSL), Canadian Geodetic Vertical Datum 2013 (CGVD2013).

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CHURCHILL RIVER FLOOD RISK AND FORECASTING

ICE AFFECTED FLOOD ZONE FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) – CR-17

JUNE 2020	FIGURE 2.2	REV: 0
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LEGEND:

- Sta: 23648
Name: CR-53
AEP 1:20: 4.2 m
AEP 1:100: 4.5 m
- Cross Section
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LIDAR Contour
- 1:20 Year Ice Affected Flood Zone
- 1:100 Year Ice Affected Flood Zone

NOTES:

- Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
- Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



SCALE: 1:5,000 METRIC 11"x17"

All units are metric and in metres unless otherwise specified.
Horizontal Projection: North American Datum 1983 CSRS (NAD83), Modified Transverse Mercator Projection (MTM)
Zone 4. Elevations are in metres above sea level (MSL), Canadian Geodetic Vertical Datum 2013 (CGVD2013).

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NO.	YY/MM/DD	DESCRIPTION		ISSUED BY	CHECK BY
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CHURCHILL RIVER FLOOD RISK AND FORECASTING					
ICE AFFECTED FLOOD ZONE FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) – ML-02					
JUNE 2020		FIGURE 2.2		REV:	0