

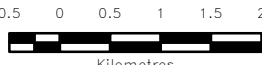


LEGEND:

- Creek Centreline
 - Map Extents
 - Limit of Mapping
- Water Depth (m)
- 0.0 – 0.5 m
 - 0.5 – 1.0 m
 - 1.0 – 1.5 m
 - 1.5 – 2.0 m
 - > 2.0 m

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.



SCALE: 1:75,000 METRIC 11"x17"

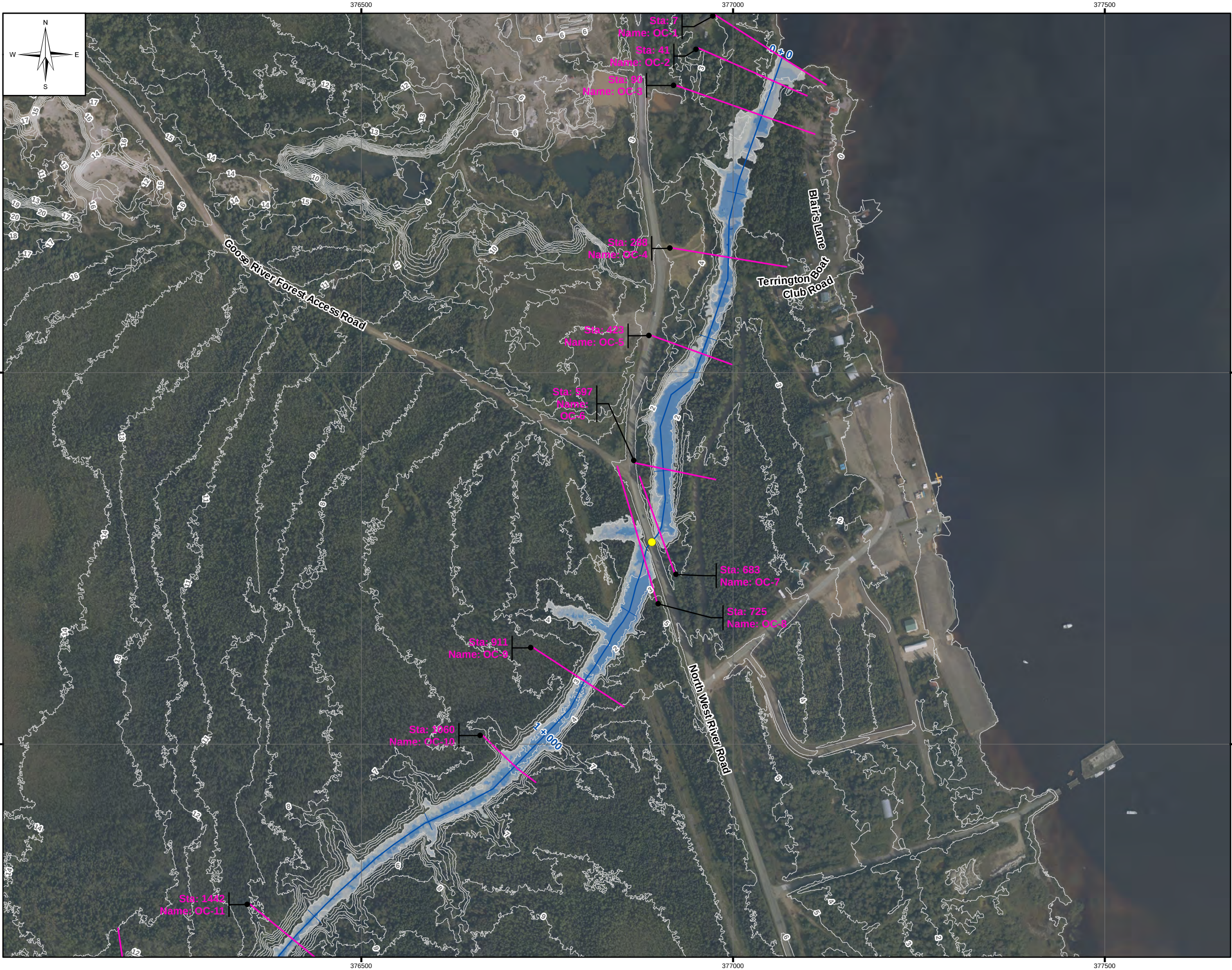
All units are metric and in metres unless otherwise specified.
Horizontal Projection: North American Datum 1983 CSRS (NAD83), Modified Transverse Mercator Projection (MTM), Zone 4. Elevations are in metres above sea level (MSL), Canadian Geodetic Vertical Datum 2013 (CGVD2013).

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CHURCHILL RIVER FLOOD RISK AND FORECASTING

OPEN WATER 1:20 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) CONDITIONS – CREEK OVERVIEW MAP

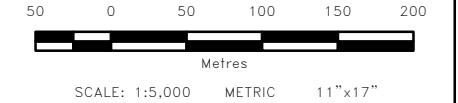
JUNE 2020	FIGURE 3.1	REV: 0
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LEGEND:

- Sta: 1252
Name: LCA - 15
AEP 1:20: 12.0 m
AEP 1:100: 12.1 m
- 1m LiDAR Contour
- Creek Centreline
- Limit of Mapping
- Modelled Culverts
- Water Depth (m)**
 - 0.0 – 0.5 m
 - 0.5 – 1.0 m
 - 1.0 – 1.5 m
 - 1.5 – 2.0 m
 - > 2.0 m color swatch"/> > 2.0 m

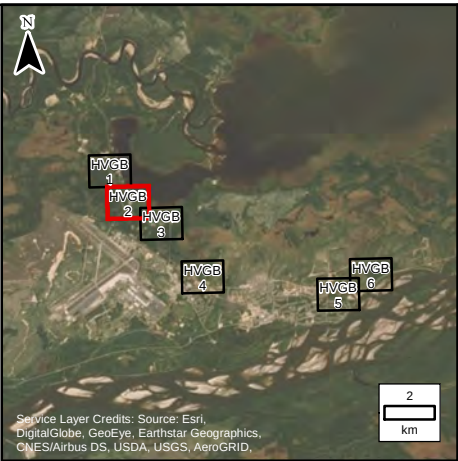
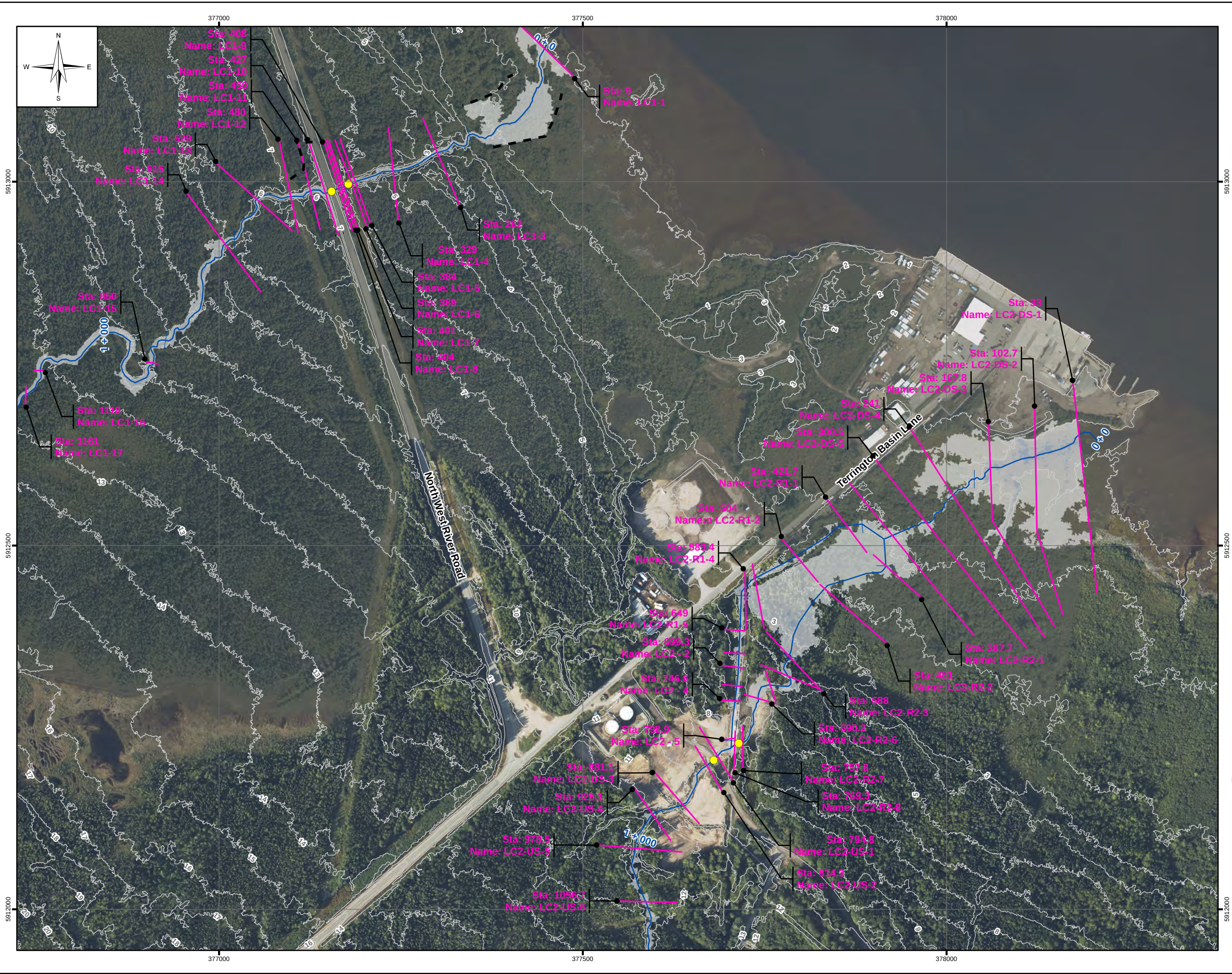
- NOTES:**
- Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
 - Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



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

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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					
OPEN WATER 1:20 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) – HVGB-1					
JUNE 2020		FIGURE 3.2			REV: 0



LEGEND:

- Sta: 1252 Name: LC4-15 AEP 1:20: 12.0 m AEP 1:100: 12.1 m
- Cross Section
- 1m LiDAR Contour
- Creek Centreline
- Limit of Mapping
- Modelled Culverts
- Water Depth (m)
 - 0.0 – 0.5 m
 - 0.5 – 1.0 m
 - 1.0 – 1.5 m
 - 1.5 – 2.0 m
 - > 2.0 m

NOTES:

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50 0 50 100 150 200 Metres

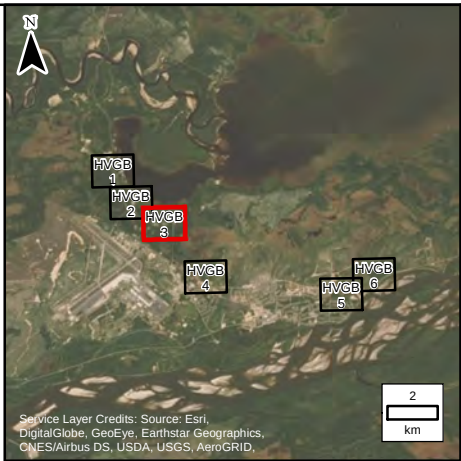
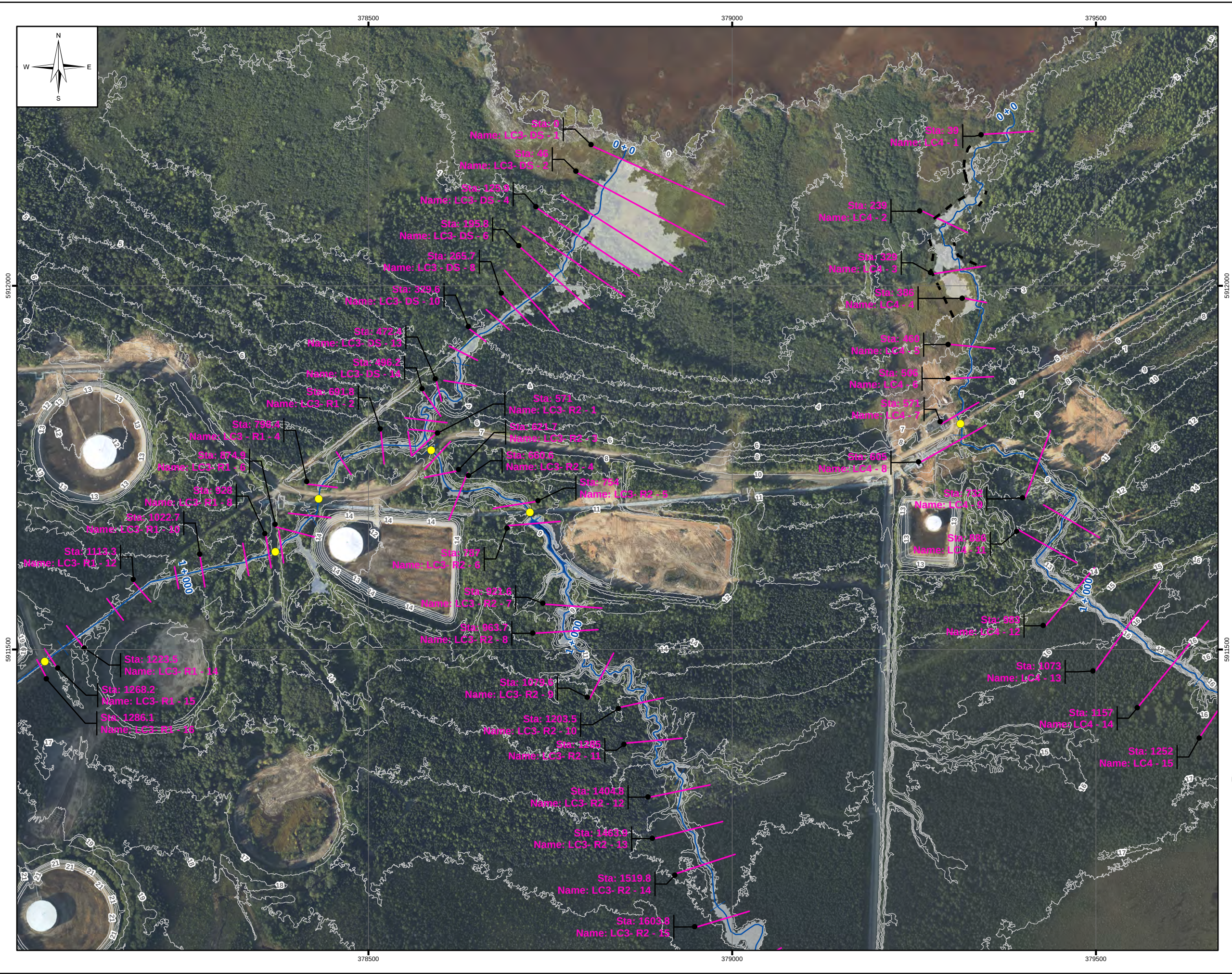
SCALE: 1:5,000 METRIC 11"x17"

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).

Q	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 1:20 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) – HVGB-2				
JUNE 2020		FIGURE 3.2		REV: 0

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File Name: P:\Projects\2018\18-3217-001\Drawings\GIS\MXD\Flood_Mapping_Creeks\18-3217-001_Fig3.2_11x17.mxd
11"x17" PLOT SCALE 1:1

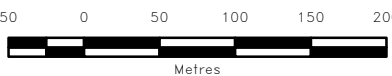


LEGEND:

- Sta: 1252
Name: LC4 - 15
AEP 1:20: 12.0 m
AEP 1:100: 12.1 m
- Cross Section
- 1m LiDAR Contour
- Creek Centreline
- Limit of Mapping
- Modelled Culverts
- Water Depth (m)
 - 0.0 - 0.5 m
 - 0.5 - 1.0 m
 - 1.0 - 1.5 m
 - 1.5 - 2.0 m
 - > 2.0 m

NOTES:

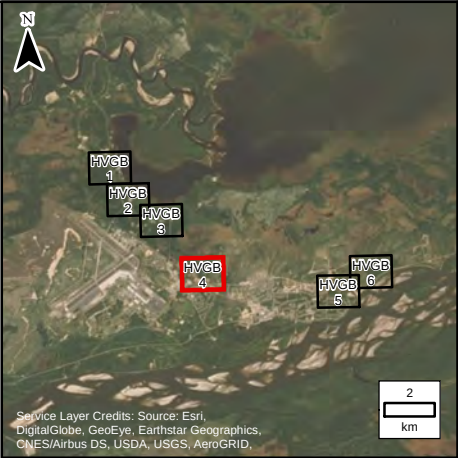
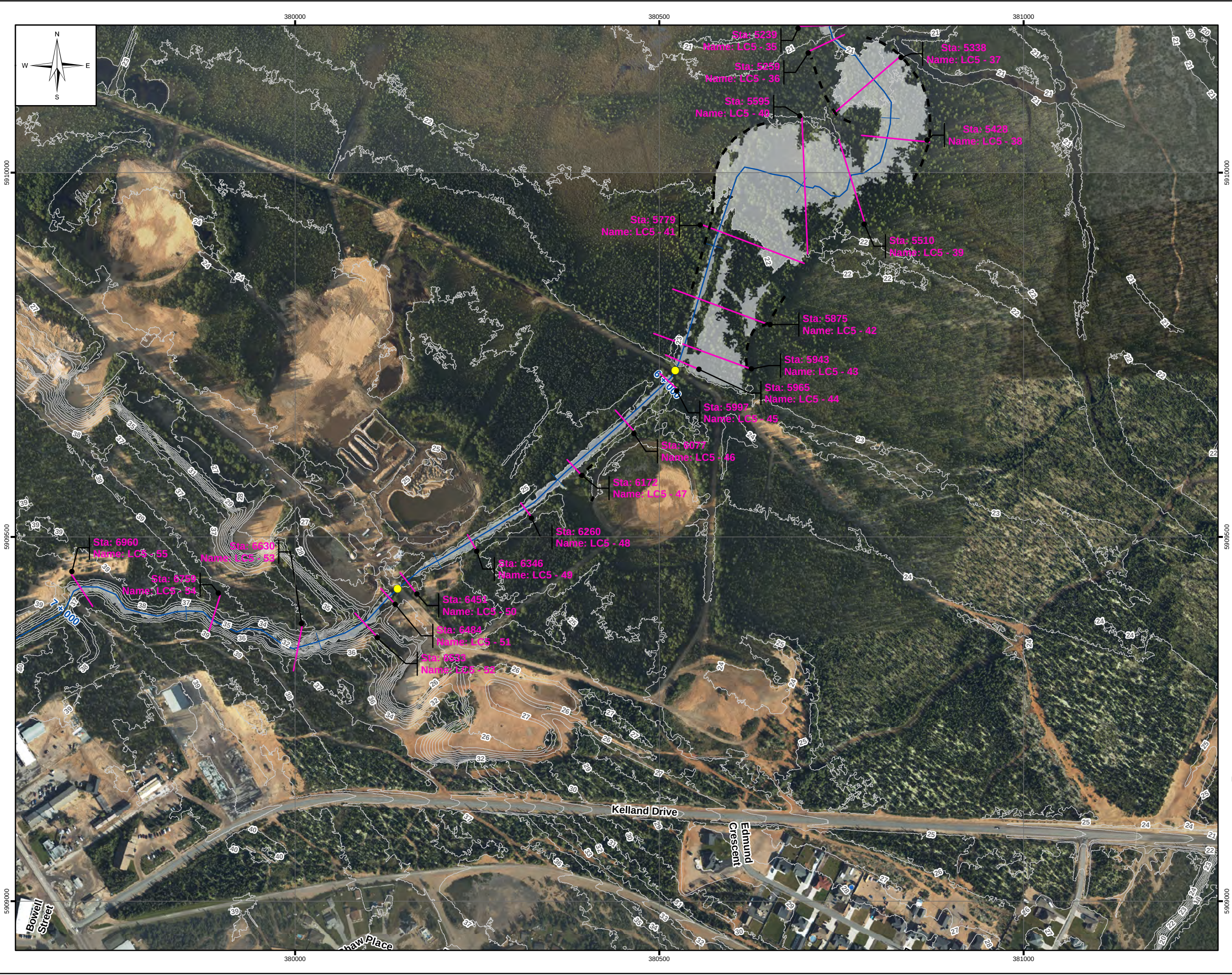
- Imagery is supplied by ATLAS Geomatics and dated as September 11 - 13, 2019.
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SCALE: 1:5,000 METRIC 11"x17"

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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 1:20 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) – HVGB-3				
JUNE 2020		FIGURE 3.2		REV: 0

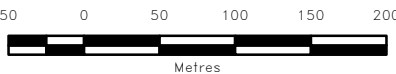


LEGEND:

- Sta: 1252
Name: LC5 - 15
AEP 1:20: 12.0 m
AEP 1:100: 12.1 m
- Cross Section
- 1m LiDAR Contour
- Creek Centreline
- Limit of Mapping
- Modelled Culverts
- Water Depth (m)
 - 0.0 – 0.5 m
 - 0.5 – 1.0 m
 - 1.0 – 1.5 m
 - 1.5 – 2.0 m
 - > 2.0 m

NOTES:

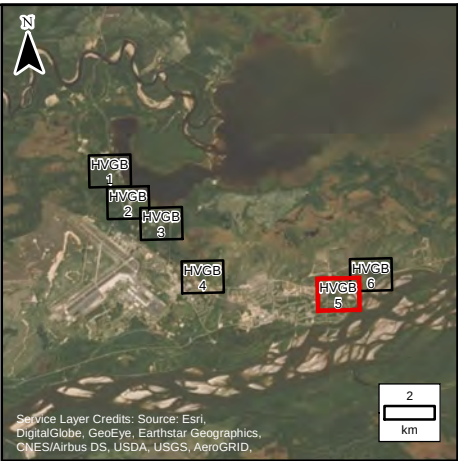
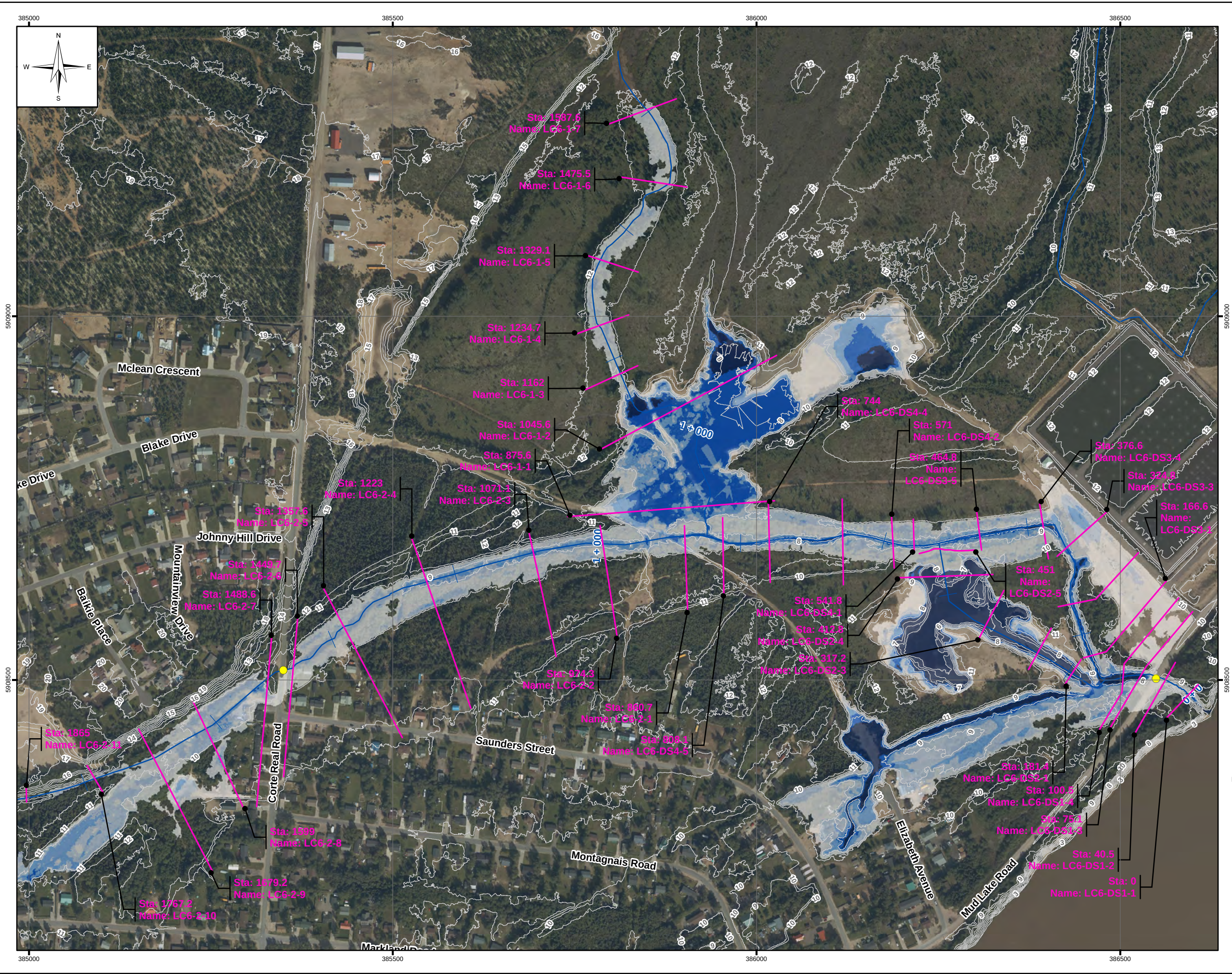
- Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
- Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



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

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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				
OPEN WATER 1:20 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) – HVGB-4				
JUNE 2020		FIGURE 3.2		REV: 0



LEGEND:

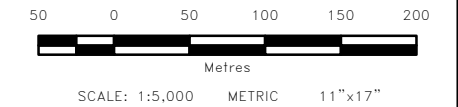
- Sta: 1252
Name: LC4-15
AEP 1:20: 12.0 m
AEP 1:100: 12.1 m
- Cross Section
- 1m LiDAR Contour
- Creek Centreline
- Limit of Mapping
- Modelled Culverts

Water Depth (m)

0.0 - 0.5 m
0.5 - 1.0 m
1.0 - 1.5 m
1.5 - 2.0 m
> 2.0 m

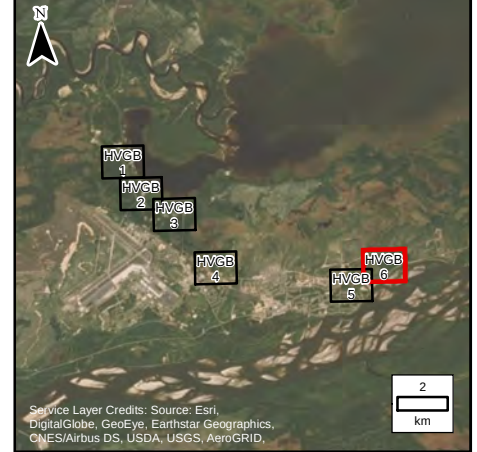
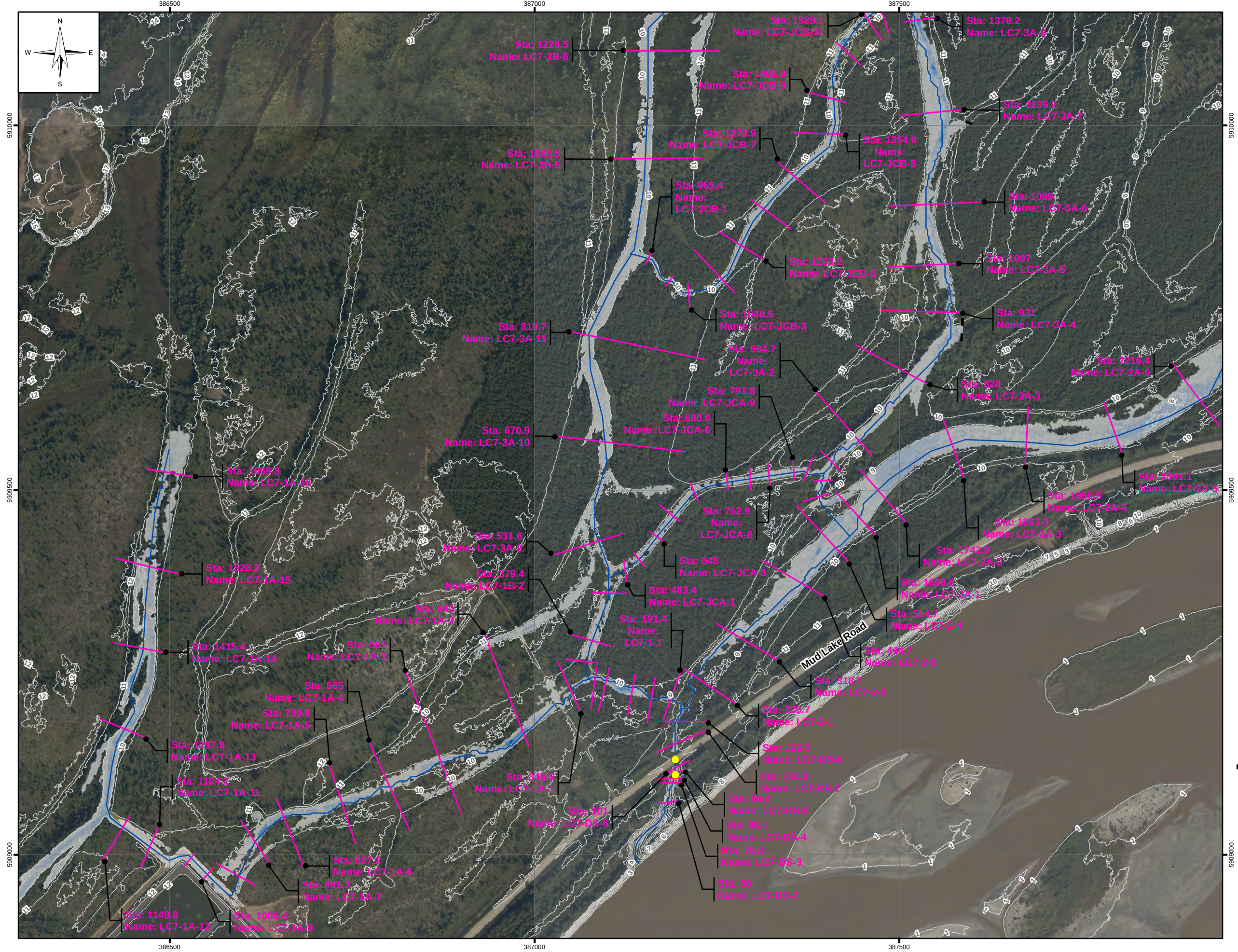
NOTES:

- 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.

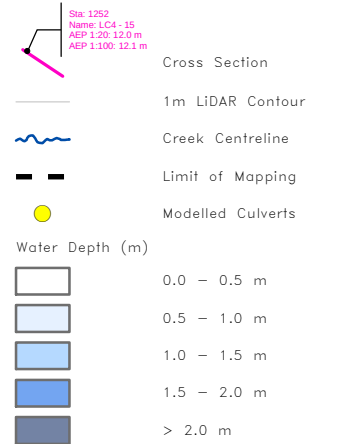


All units are metric and in metres unless otherwise specified.
Horizontal Projection: North American Datum 1983 CSRS (NAD83), Modified Transverse Mercator Projection (MTM) Zone 4. Elevations are in metres above sea level (MSL), Canadian Geodetic Vertical Datum 2013 (CGVD2013).

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 1:20 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) - HVGB-5					
JUNE 2020		FIGURE 3.2		REV:	0

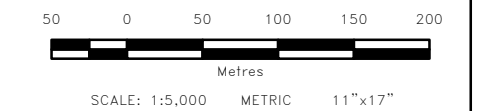


LEGEND:



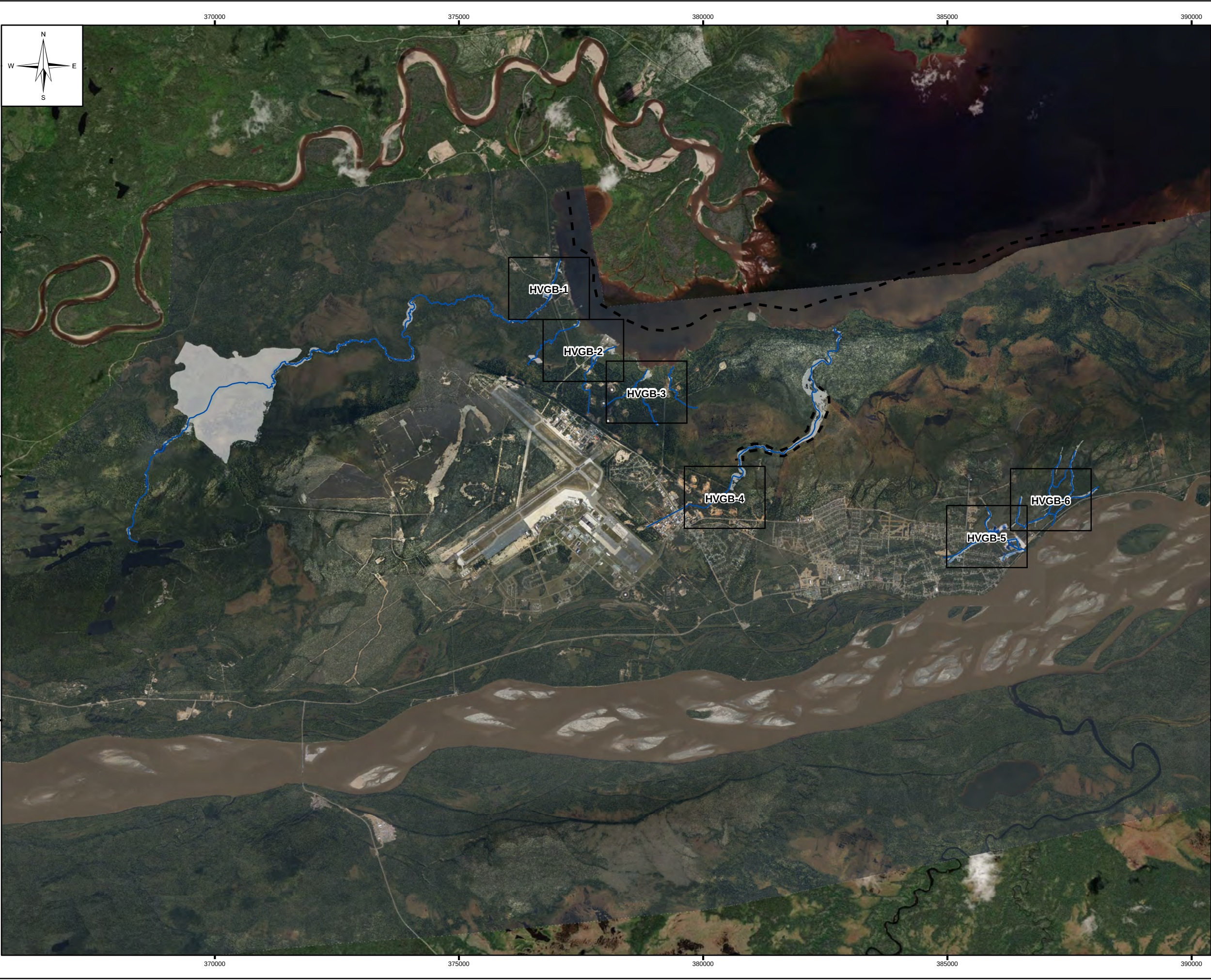
NOTES:

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.



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).

5909000	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 1:20 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) – HVGB-6				
	JUNE 2020		FIGURE 3.2		REV: 0



LEGEND:

- Creek Centreline
- Map Extents
- Limit of Mapping
- Water Depth (m)
 - 0.0 – 0.5 m
 - 0.5 – 1.0 m
 - 1.0 – 1.5 m
 - 1.5 – 2.0 m
 - > 2.0 m

NOTES:

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



SCALE: 1:75,000 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).

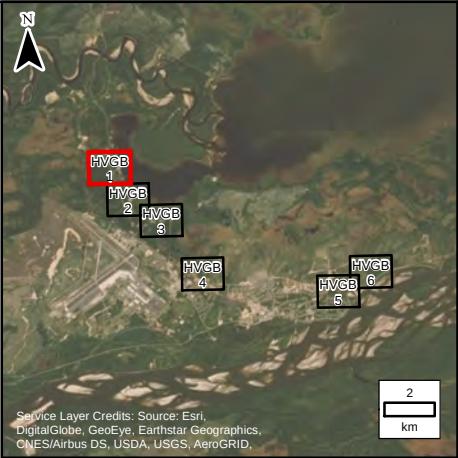
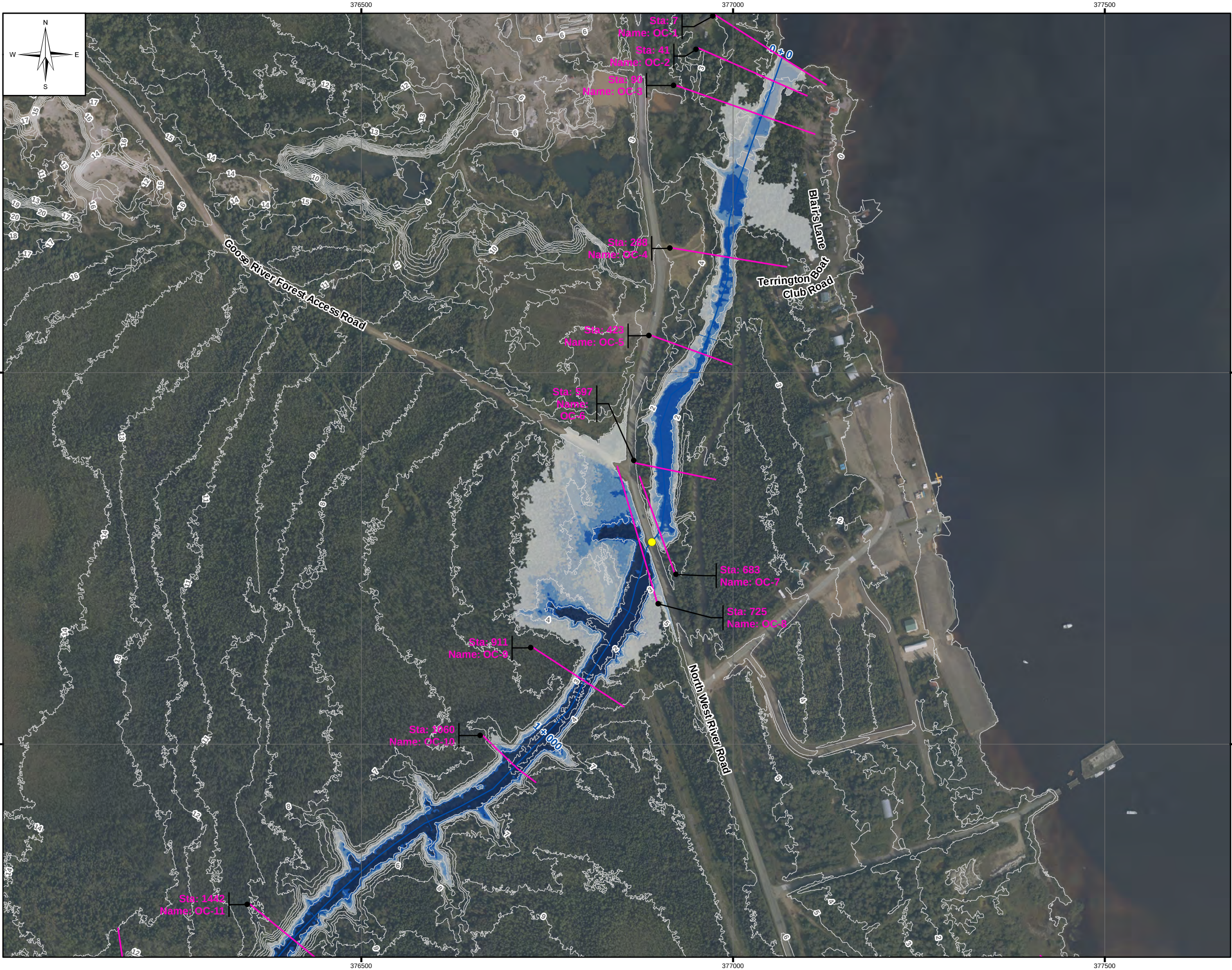
➔	0	20/06/30	ISSUED WITH FINAL REPORT	DSB	MSW
	NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
REVISIONS / ISSUE					

KGS
GROUP
CONSULTING
ENGINEERS

CHURCHILL RIVER FLOOD RISK AND FORECASTING

OPEN WATER 1:100 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) CONDITIONS – CREEK OVERVIEW MAP

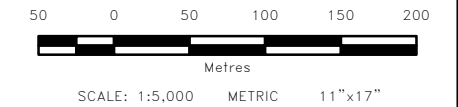
JUNE 2020	FIGURE 3.3	REV: 0
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LEGEND:

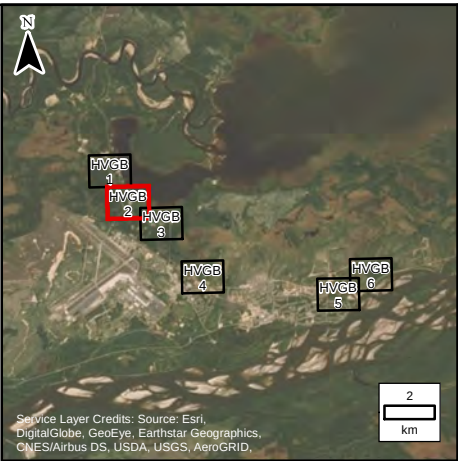
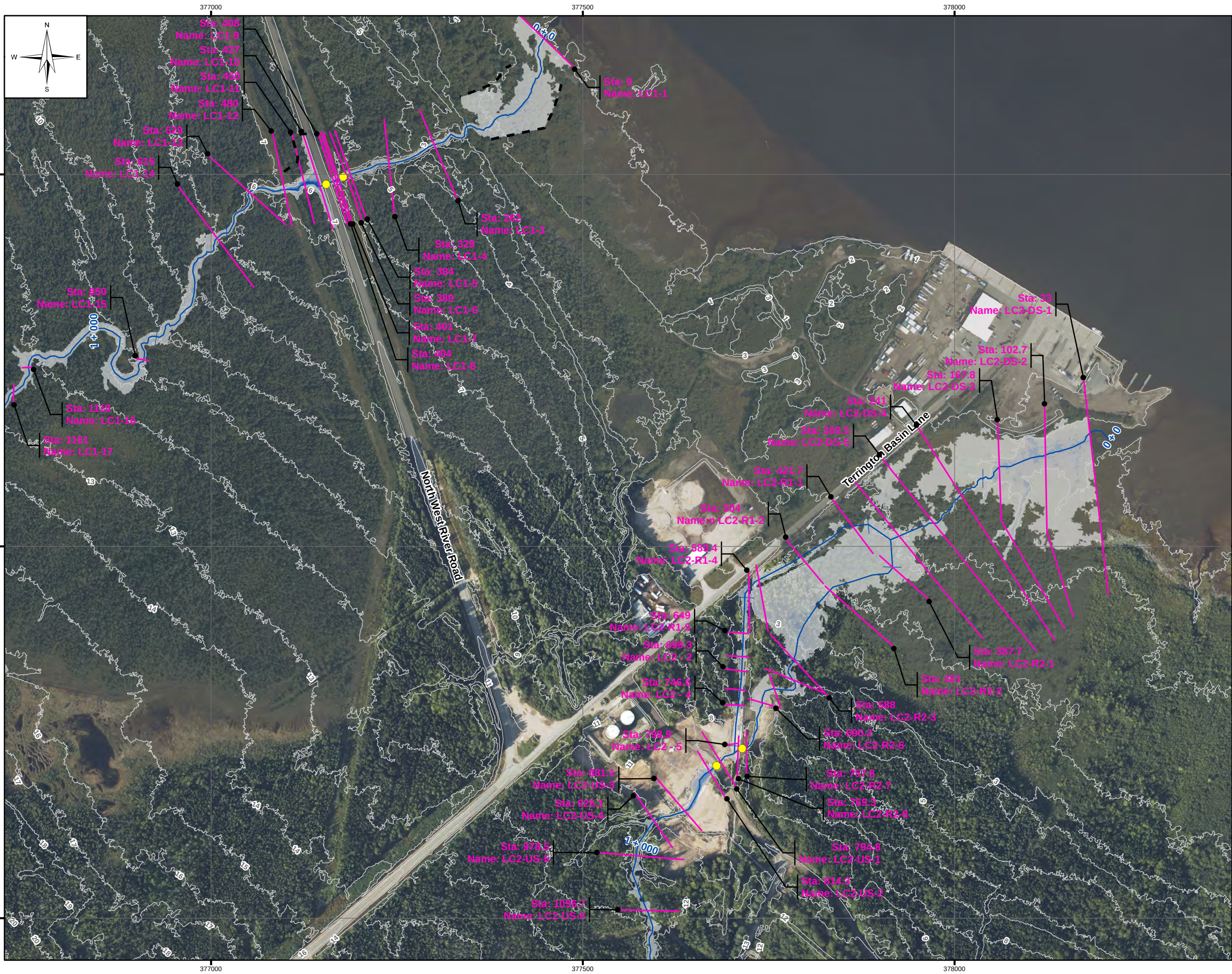
- Sta: 1252
Name: LCA - 15
AEP 1:20: 12.0 m
AEP 1:100: 12.5 m
Cross Section
- Creek Centreline
- 1m LIDAR Contour
- Limit of Mapping
- Modelled Culverts
- Water Depth (m)**
 - 0.0 – 0.5 m
 - 0.5 – 1.0 m
 - 1.0 – 1.5 m
 - 1.5 – 2.0 m
 - > 2.0 m

- 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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NO.	YY/MM/DD	DESCRIPTION			ISSUED BY	CHECK BY
REVISIONS / ISSUE						
						
CHURCHILL RIVER FLOOD RISK AND FORECASTING						
OPEN WATER 1:100 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) – HVGB-1						
JUNE 2020		FIGURE 3.4			REV: 0	



LEGEND:

- Sta: 1252 Name: LC4-15 AEP 1:20: 12.0 m AEP 1:100: 12.1 m
- Cross Section
- Creek Centreline
- 1m LIDAR Contour
- Limit of Mapping
- Modelled Culverts
- Water Depth (m)
 - 0.0 - 0.5 m
 - 0.5 - 1.0 m
 - 1.0 - 1.5 m
 - 1.5 - 2.0 m
 - > 2.0 m

NOTES:

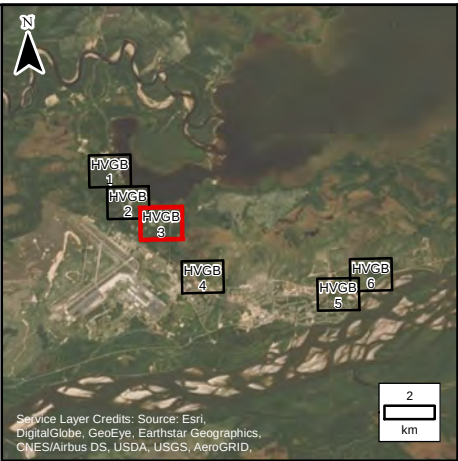
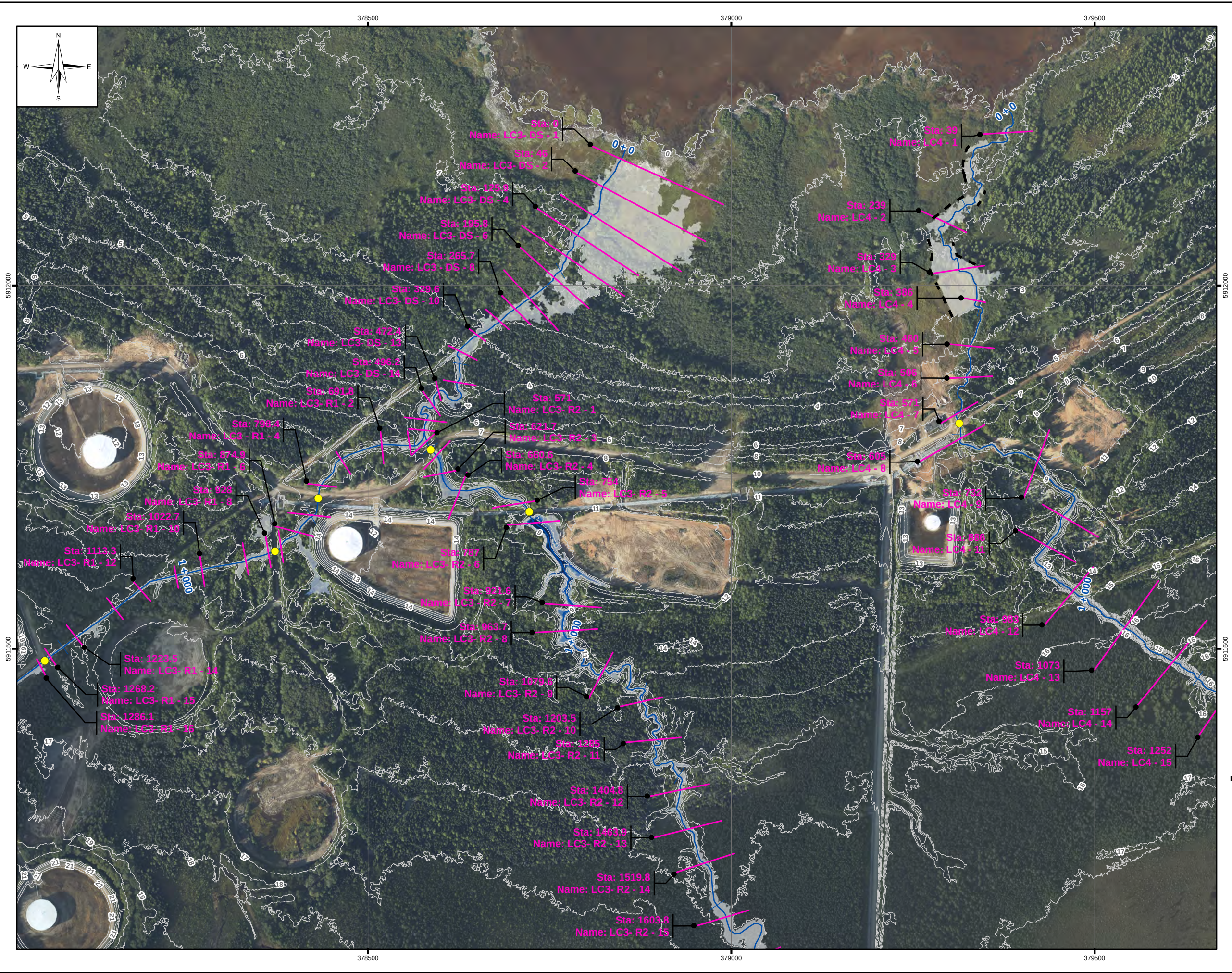
- Imagery is supplied by ATLAS Geomatics and dated as September 11 - 13, 2019.
- Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 - 13, 2019.



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 1:100 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) – HVGB-2				
JUNE 2020		FIGURE 3.4		REV: 0

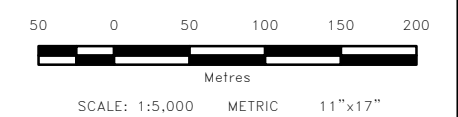


LEGEND:

- Cross Section
 - Creek Centreline
 - 1m LIDAR Contour
 - Limit of Mapping
 - Modelled Culverts
- Water Depth (m)
- | | |
|-------------------------|-------------|
| | 0.0 - 0.5 m |
| | 0.5 - 1.0 m |
| | 1.0 - 1.5 m |
| | 1.5 - 2.0 m |
| > 2.0 m color swatch"/> | > 2.0 m |

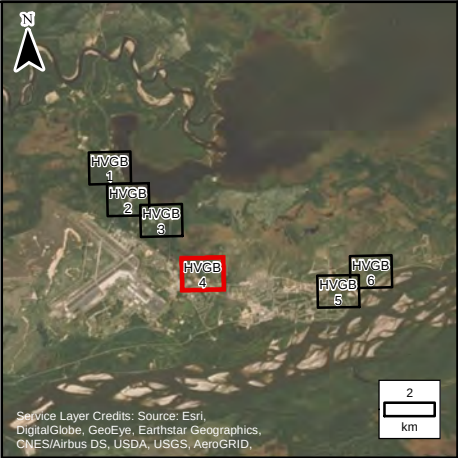
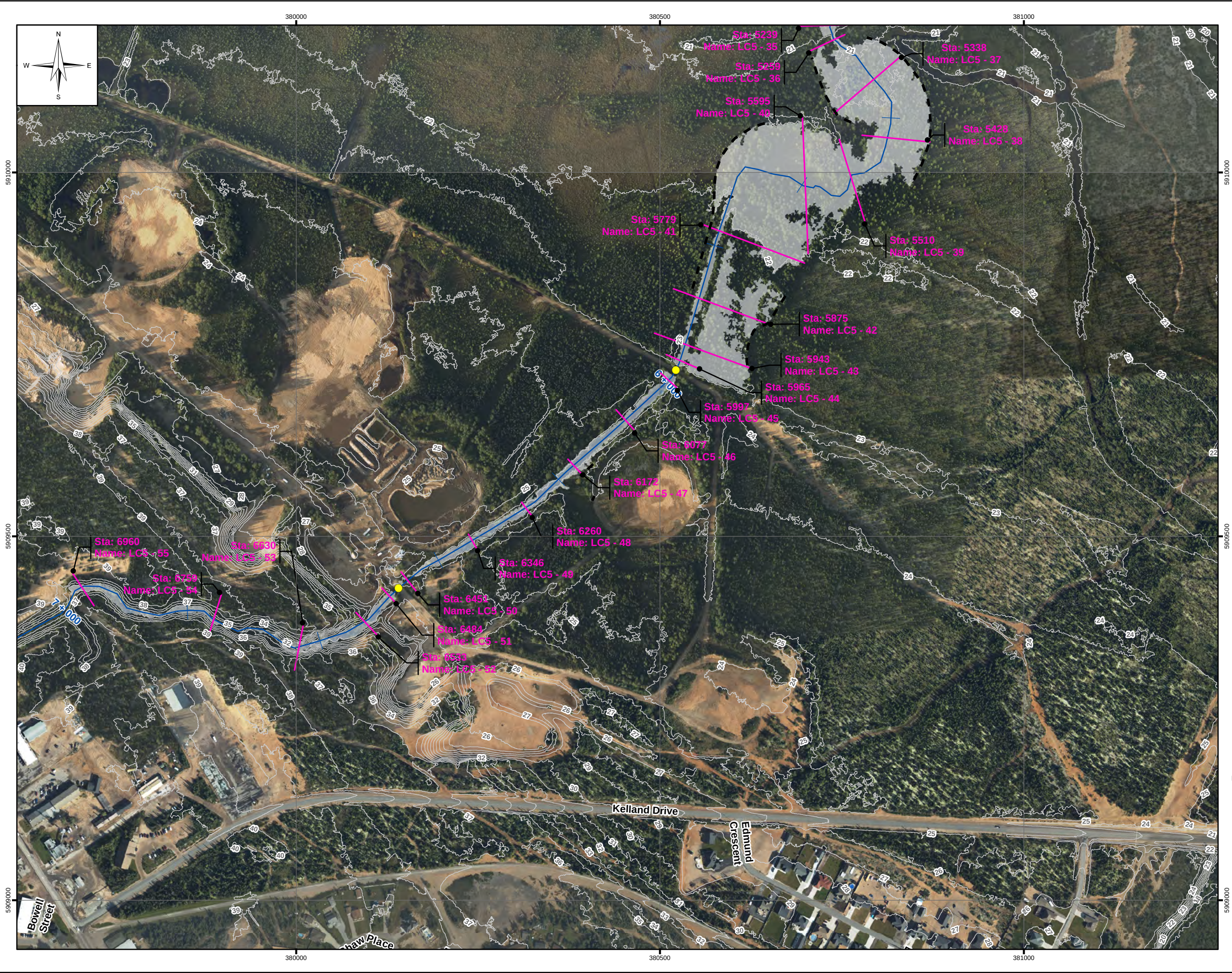
NOTES:

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.



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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 1:100 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) – HVGB-3				
JUNE 2020		FIGURE 3.4	REV:	0

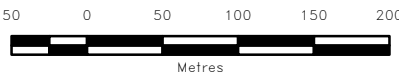


LEGEND:

- Sta: 1252
Name: LC5 - 15
AEP 1:20: 12.0 m
AEP 1:100: 12.1 m
- Cross Section
- Creek Centreline
- 1m LIDAR Contour
- Limit of Mapping
- Modelled Culverts
- Water Depth (m)
 - 0.0 – 0.5 m
 - 0.5 – 1.0 m
 - 1.0 – 1.5 m
 - 1.5 – 2.0 m
 - > 2.0 m

NOTES:

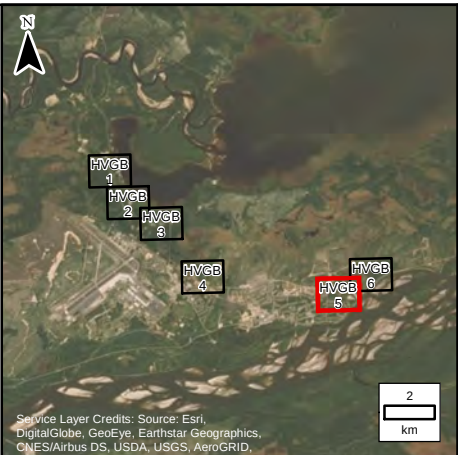
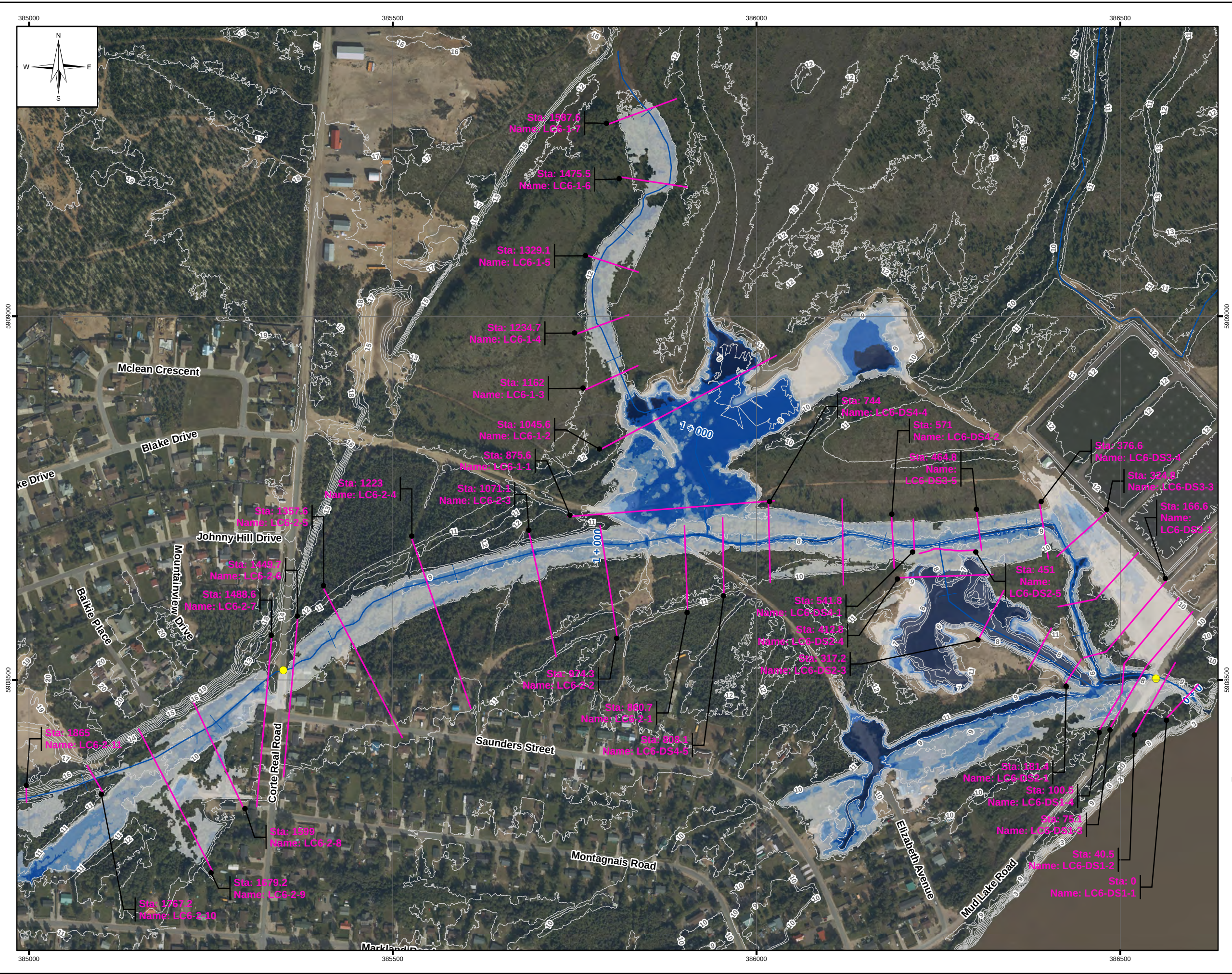
- Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
- Topography shown was developed by KGS Group from the LIDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



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

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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 1:100 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) – HVGB-4					
JUNE 2020		FIGURE 3.4		REV:	0

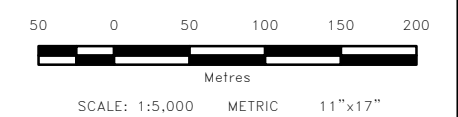


LEGEND:

- Sta: 1252
Name: LC4-15
AEP 1:20: 12.0 m
AEP 1:100: 12.1 m
- Cross Section
- Creek Centreline
- 1m LIDAR Contour
- Limit of Mapping
- Modelled Culverts
- Water Depth (m)
 - 0.0 - 0.5 m
 - 0.5 - 1.0 m
 - 1.0 - 1.5 m
 - 1.5 - 2.0 m
 - > 2.0 m

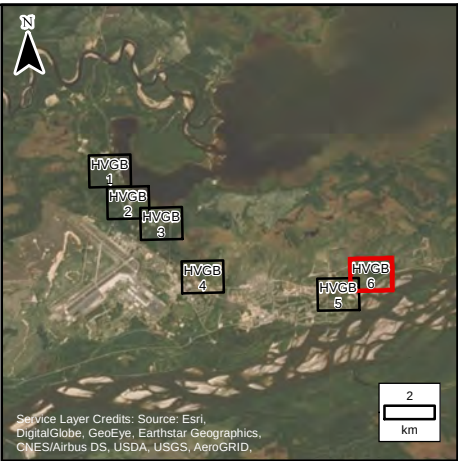
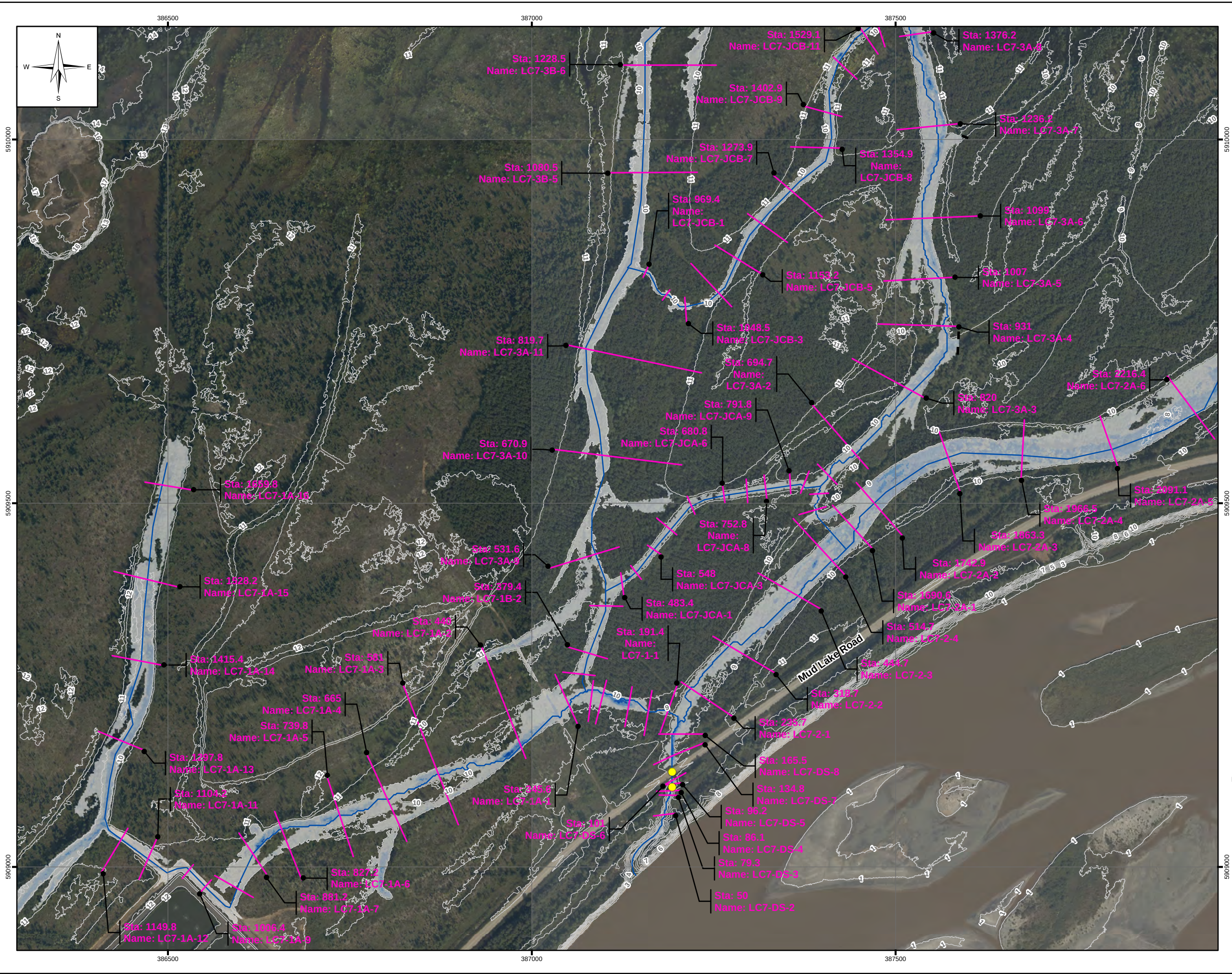
NOTES:

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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 1:100 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) – HVGB-5				
JUNE 2020		FIGURE 3.4		REV: 0

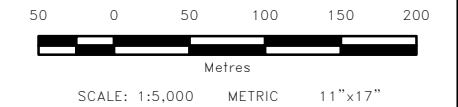


LEGEND:

- Sta: 1252
Name: LC4-15
AEP 1:20: 12.0 m
AEP 1:100: 12.1 m
- Cross Section
- Creek Centreline
- 1m LIDAR Contour
- Limit of Mapping
- Modelled Culverts
- Water Depth (m)
 - 0.0 – 0.5 m
 - 0.5 – 1.0 m
 - 1.0 – 1.5 m
 - 1.5 – 2.0 m
 - > 2.0 m

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 1:100 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) – HVGB-6					
JUNE 2020		FIGURE 3.4		REV: 0	