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LEGEND:

- Creek Centreline
- Map Extents
- Limit of Mapping

Velocity (m/s)

- 0.0 – 1.0 m/s
- 1.0 – 2.0 m/s
- 2.0 – 3.0 m/s
- 3.0 – 4.0 m/s
- > 4.00 m/s

NOTES:

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

0.5 0 0.5 1 1.5 2
Kilometres

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

All units are metric and in metres unless otherwise specified. Horzontal 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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Newfoundland Labrador

CHURCHILL RIVER FLOOD RISK AND FORECASTING

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

JUNE 2020 | FIGURE 4.1 | REV: 0

FileName: P:\Projects\2018\18-3217-001\Dwg\GIS\MXD\Flood_Mapping_Creeks\18-3217-001_Fig4.1_11x17.mxd
11"x17" PLOT SCALE 1:1

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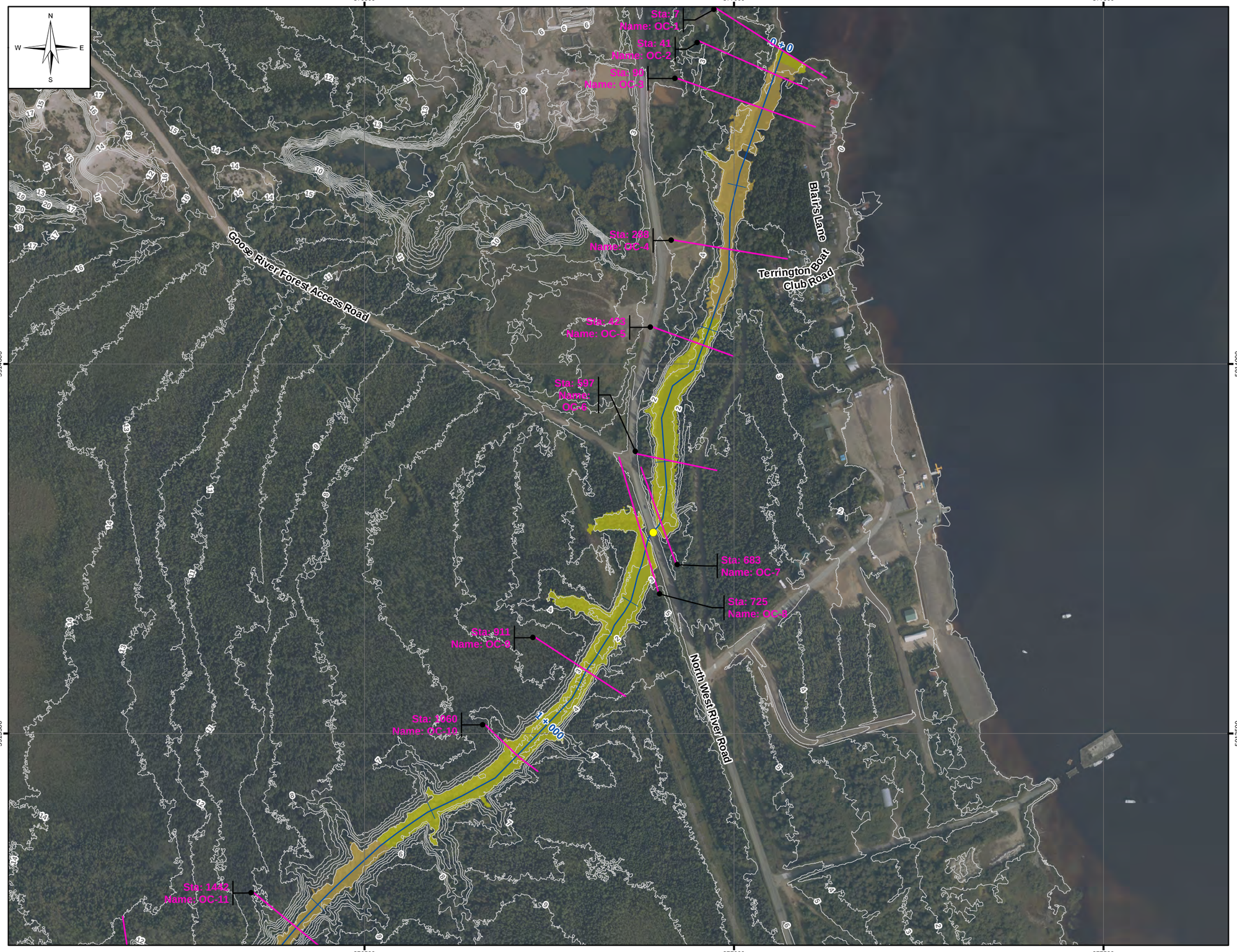

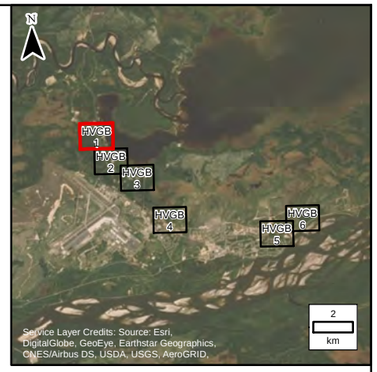

LEGEND:

- 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

Velocity (m/s)

- 0.0 – 1.0 m/s
- 1.0 – 2.0 m/s
- 2.0 – 3.0 m/s
- 3.0 – 4.0 m/s
- > 4.00 m/s

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.

50 0 50 100 150 200
Metres

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

All units are metric and in metres unless otherwise specified. Horzontal 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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Newfoundland Labrador

CHURCHILL RIVER FLOOD RISK AND FORECASTING

OPEN WATER 1:20 YEAR VELOCITY DISTRIBUTION FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC–CD) – HVGB–1

JUNE 2020 | FIGURE 4.2 | REV: 0

FileName: P:\Projects\2018\18-3217-001\Dwg\GIS\MXD\Flood_Mapping_Creeks\18-3217-001_Fig4.2_11x17.mxd
11"x17" PLOT SCALE 1:1

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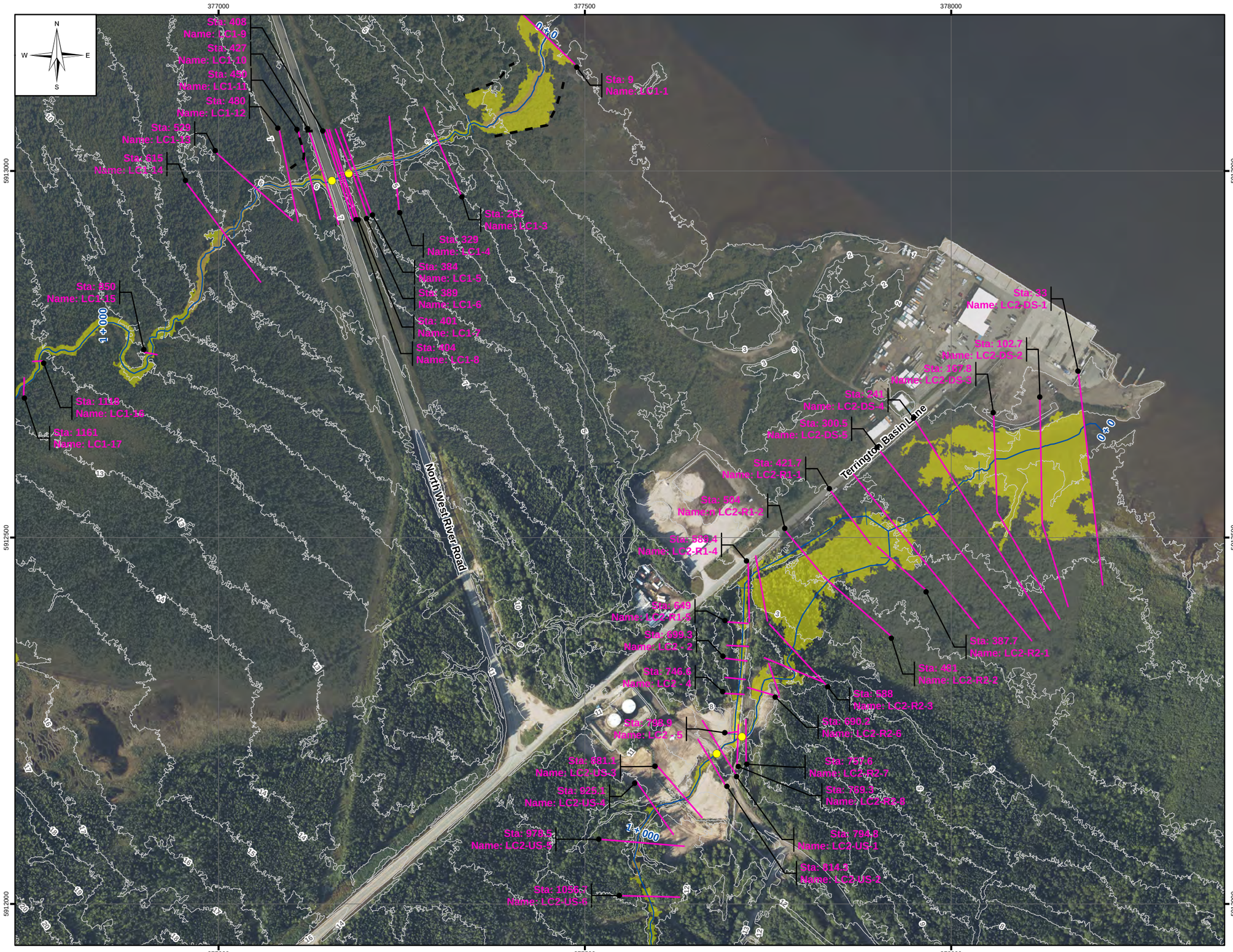

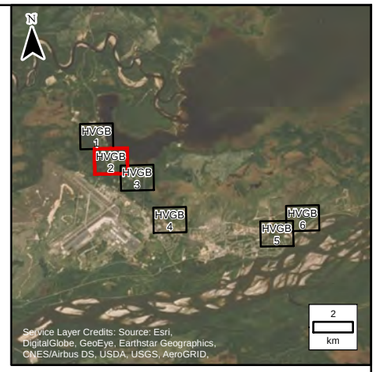

LEGEND:

- 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

Velocity (m/s)

- 0.0 – 1.0 m/s
- 1.0 – 2.0 m/s
- 2.0 – 3.0 m/s
- 3.0 – 4.0 m/s
- > 4.00 m/s

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. Horzontal 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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Newfoundland Labrador

CHURCHILL RIVER FLOOD RISK AND FORECASTING

OPEN WATER 1:20 YEAR VELOCITY DISTRIBUTION FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC–CD) – HVGB–2

JUNE 2020 | FIGURE 4.2 | REV: 0

FileName: P:\Projects\2018\18-3217-001\Dwg\GIS\MXD\Flood_Mapping_Creeks\18-3217-001_Fig4.2_11x17.mxd
11"x17" PLOT SCALE 1:1

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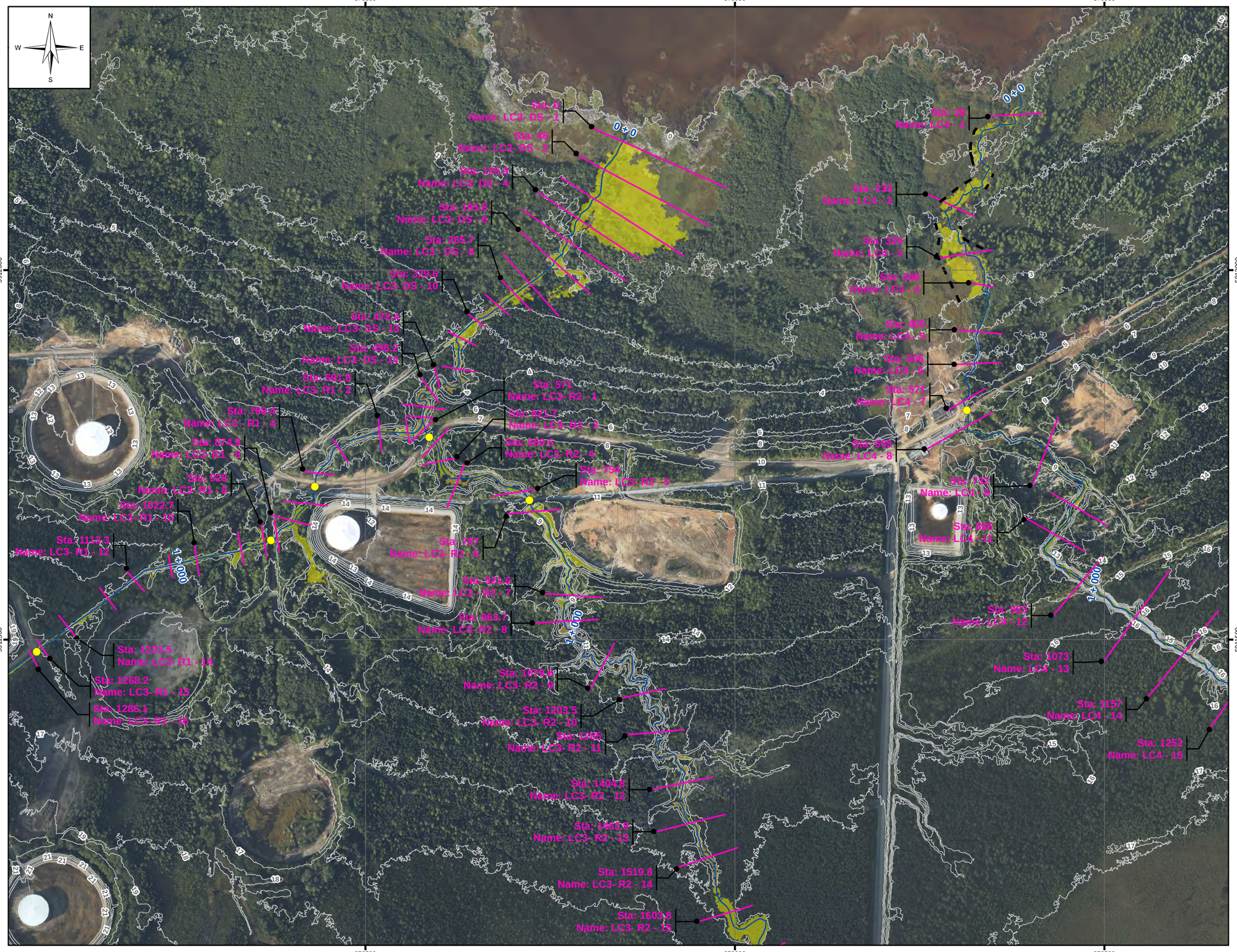

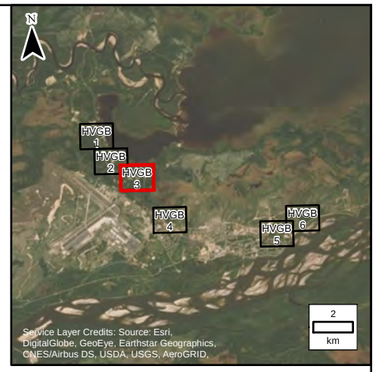

LEGEND:

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

Velocity (m/s)

- 0.0 – 1.0 m/s
- 1.0 – 2.0 m/s
- 2.0 – 3.0 m/s
- 3.0 – 4.0 m/s
- > 4.00 m/s

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. Horzontal 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 VELOCITY DISTRIBUTION FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC–CD) – HVGB–3

JUNE 2020 | FIGURE 4.2 | REV: 0

FileName: P:\Projects\2018\18-3217-001\Dwg\GIS\MXD\Flood_Mapping_Creeks\18-3217-001_Fig4.2_11x17.mxd
11"x17" PLOT SCALE 1:1

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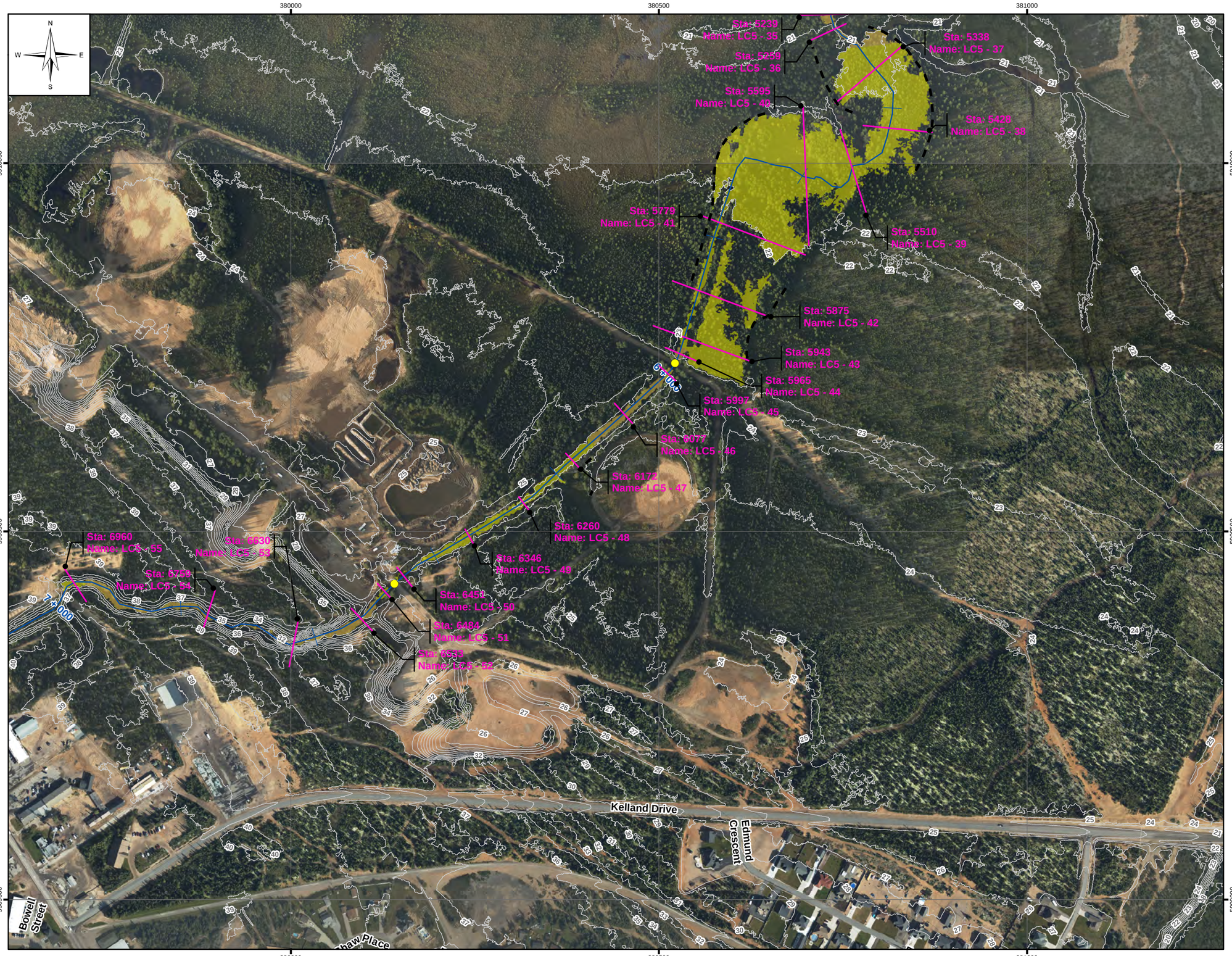

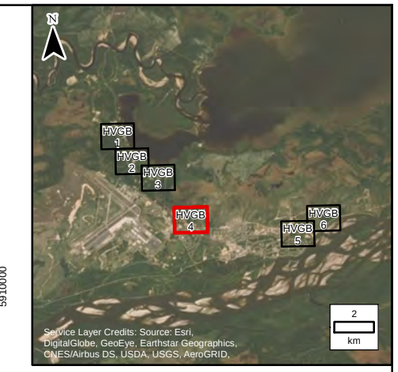

LEGEND:

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

Velocity (m/s)

- 0.0 – 1.0 m/s
- 1.0 – 2.0 m/s
- 2.0 – 3.0 m/s
- 3.0 – 4.0 m/s
- > 4.00 m/s

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. Horzontal 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 VELOCITY DISTRIBUTION FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC–CD) – HVGB–4

JUNE 2020 | FIGURE 4.2 | REV: 0

FileName: P:\Projects\2018\18-3217-001\Dwg\GIS\MXD\Flood_Mapping_Creeks\18-3217-001_Fig4.2_11x17.mxd
11"x17" PLOT SCALE 1:1

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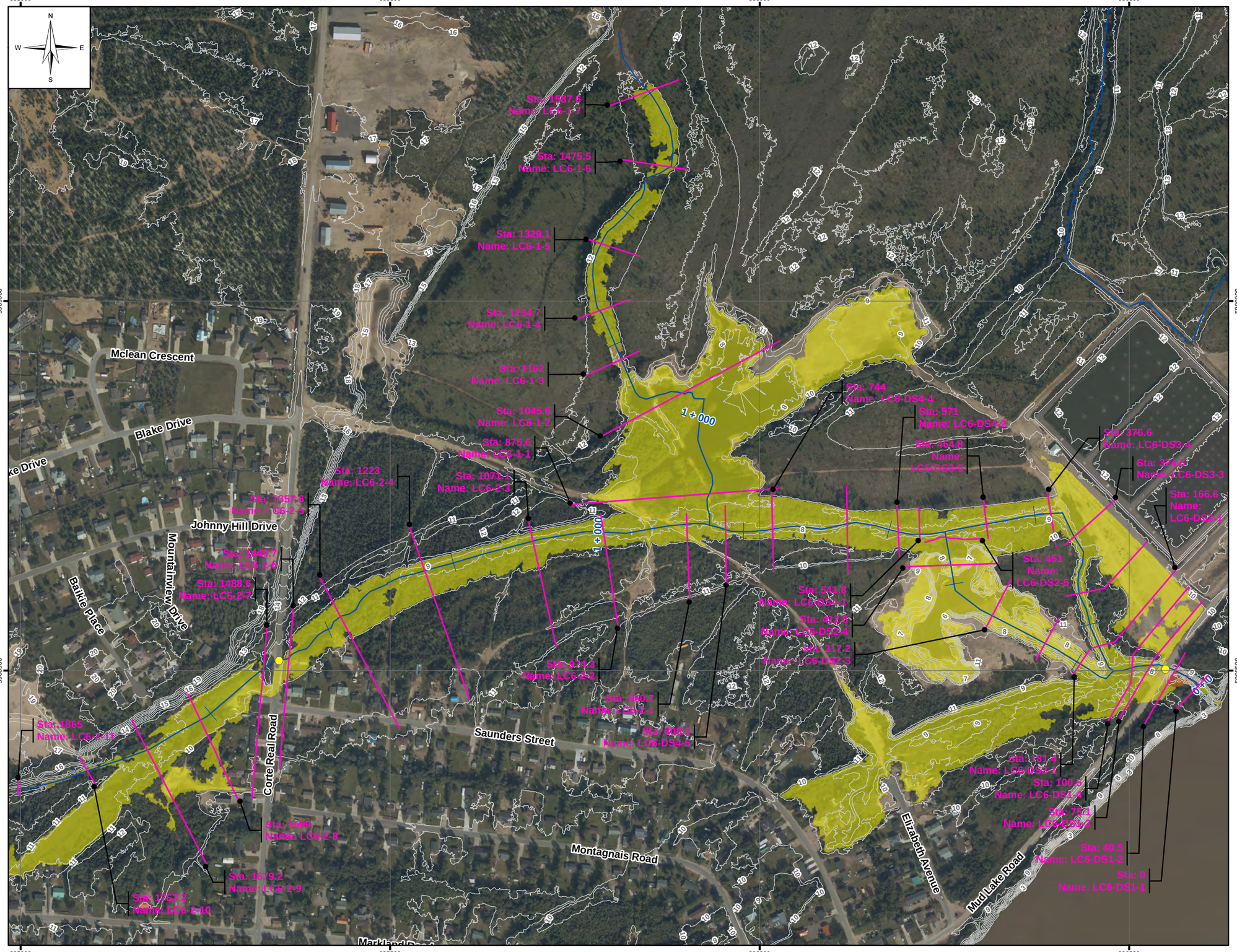

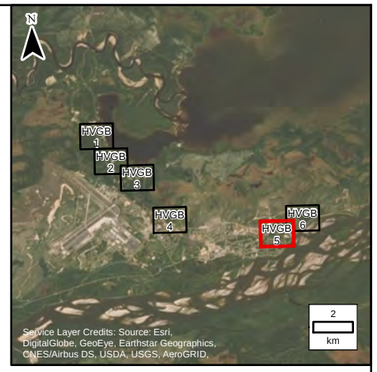

LEGEND:

- 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

Velocity (m/s)

- 0.0 – 1.0 m/s
- 1.0 – 2.0 m/s
- 2.0 – 3.0 m/s
- 3.0 – 4.0 m/s
- > 4.00 m/s

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.

50 0 50 100 150 200
Metres

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

All units are metric and in metres unless otherwise specified. Horzontal 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 VELOCITY DISTRIBUTION FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC–CD) – HVGB–5

JUNE 2020 | FIGURE 4.2 | REV: 0

FileName: P:\Projects\2018\18-3217-001\Dwg\GIS\MXD\Flood_Mapping_Creeks\18-3217-001_Fig4.2_11x17.mxd
11"x17" PLOT SCALE 1:1

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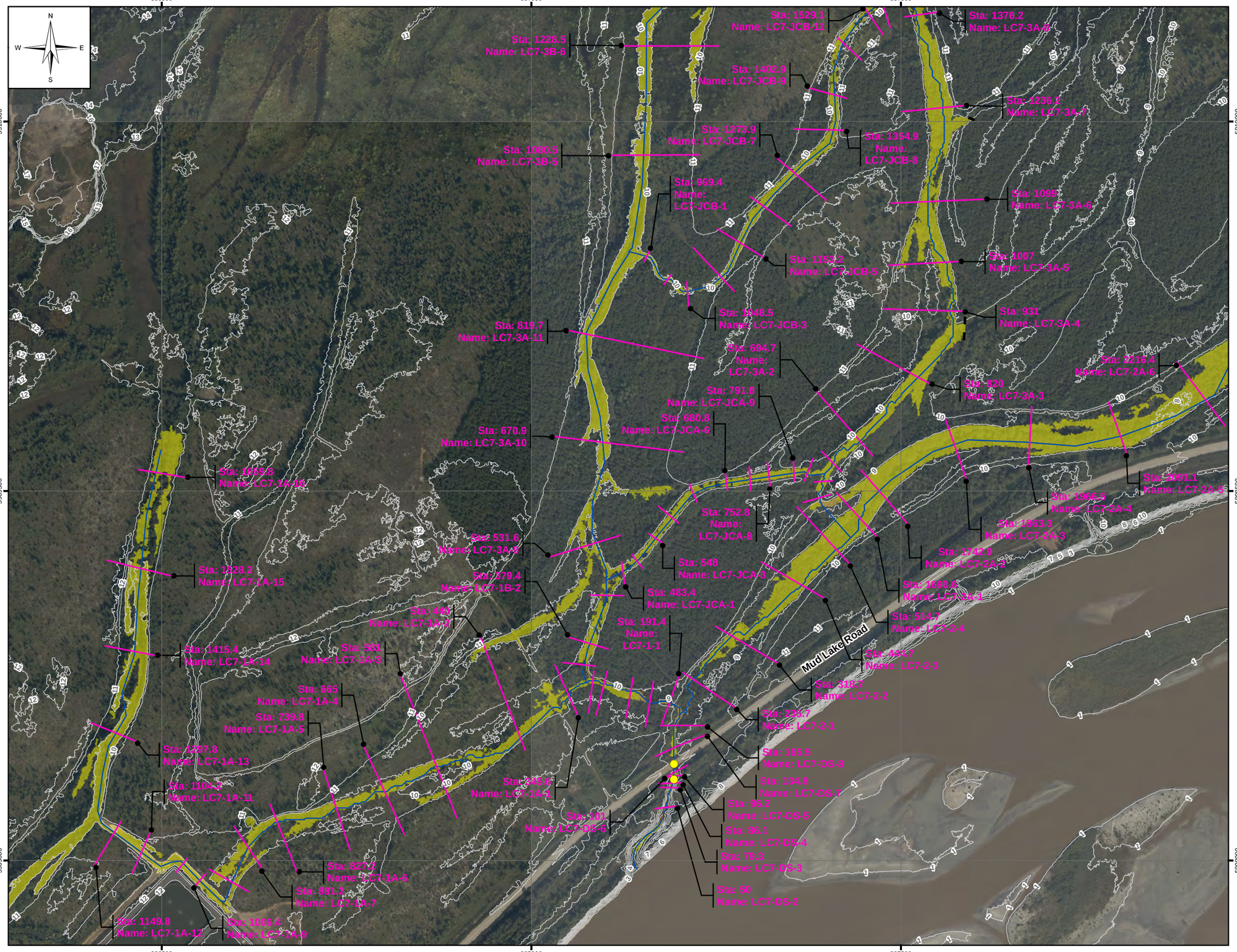

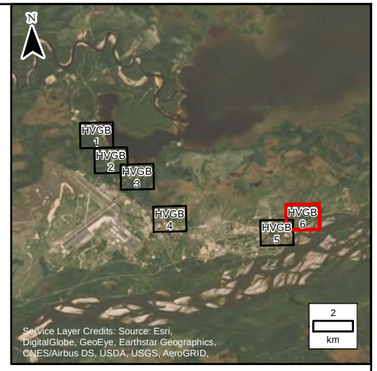

LEGEND:

- 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

Velocity (m/s)

- 0.0 – 1.0 m/s
- 1.0 – 2.0 m/s
- 2.0 – 3.0 m/s
- 3.0 – 4.0 m/s
- > 4.00 m/s

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. Horzontal 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 VELOCITY DISTRIBUTION FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC–CD) – HVGB–6

JUNE 2020 | FIGURE 4.2 | REV: 0

FileName: P:\Projects\2018\18-3217-001\Dwg\GIS\MXD\Flood_Mapping_Creeks\18-3217-001_Fig4.2_11x17.mxd
11"x17" PLOT SCALE 1:1

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LEGEND:

- Creek Centreline
- Map Extents
- Limit of Mapping

Velocity (m/s)

- 0.0 – 1.0 m/s
- 1.0 – 2.0 m/s
- 2.0 – 3.0 m/s
- 3.0 – 4.0 m/s
- > 4.00 m/s

NOTES:

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

0.5 0 0.5 1 1.5 2
Kilometres

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

All units are metric and in metres unless otherwise specified. Horzontal 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 1:100 YEAR VELOCITY DISTRIBUTION FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC–CD) CONDITIONS – CREEK OVERVIEW MAP

JUNE 2020 | FIGURE 4.3 | REV: 0

FileName: P:\Projects\2018\18-3217-001\Dwg\GIS\MXD\Flood_Mapping_Creeks\18-3217-001_Fig4.3_11x17.mxd
11"x17" PLOT SCALE 1:1

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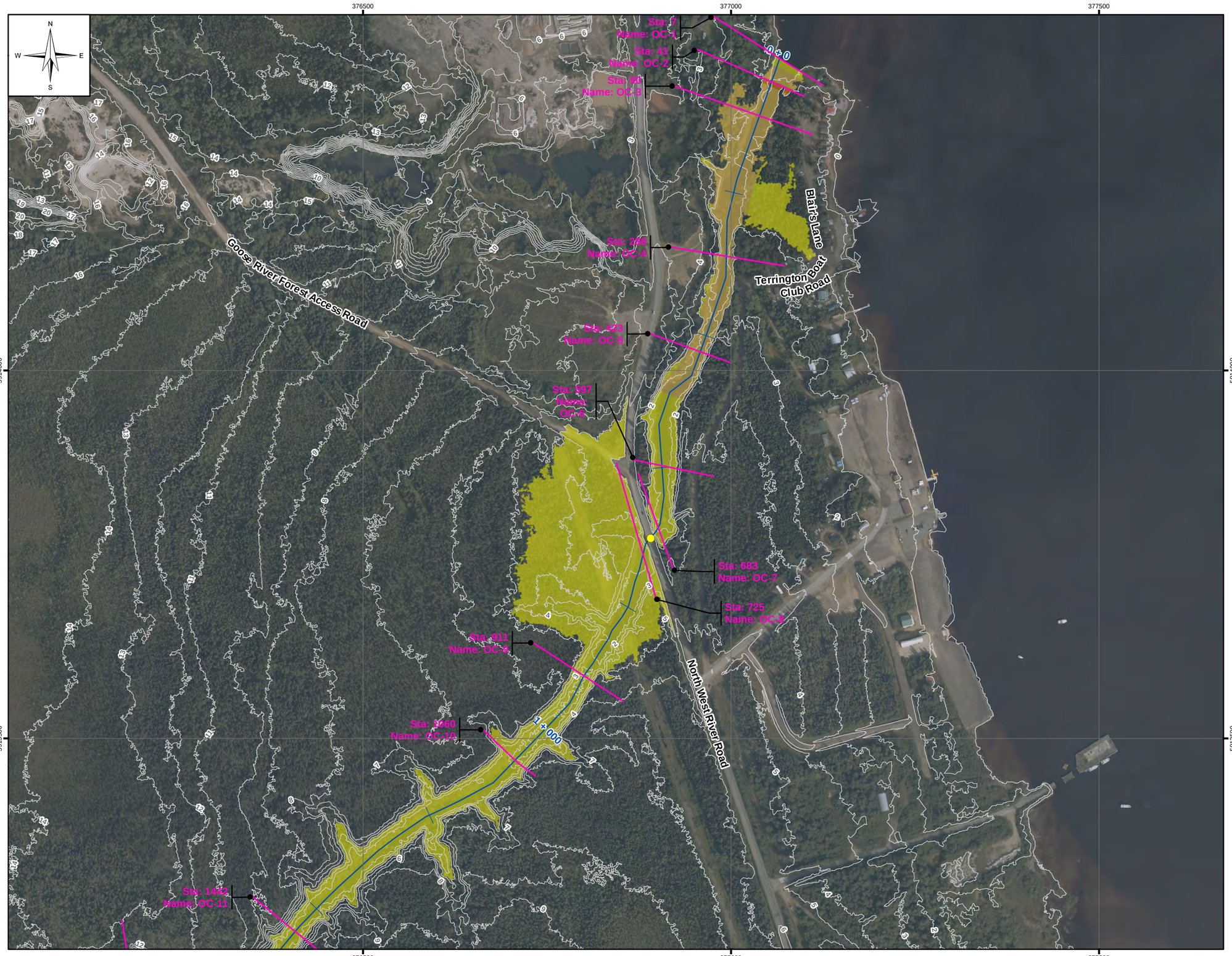

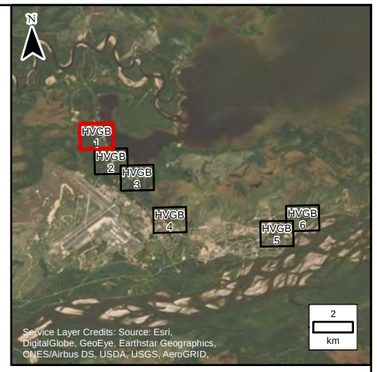

LEGEND:

- 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

Velocity (m/s)

- 0.0 – 1.0 m/s
- 1.0 – 2.0 m/s
- 2.0 – 3.0 m/s
- 3.0 – 4.0 m/s
- > 4.00 m/s

NOTES:

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50 0 50 100 150 200
Metres

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

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CHURCHILL RIVER FLOOD RISK AND FORECASTING

OPEN WATER 1:100 YEAR VELOCITY DISTRIBUTION FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC–CD) – HVGB–1

JUNE 2020 | FIGURE 4.4 | REV: 0

FileName: P:\Projects\2018\18-3217-001\Dwg\GIS\MXD\Flood_Mapping_Creeks\18-3217-001_Fig4.4_11x17.mxd
11"x17" PLOT SCALE 1:1

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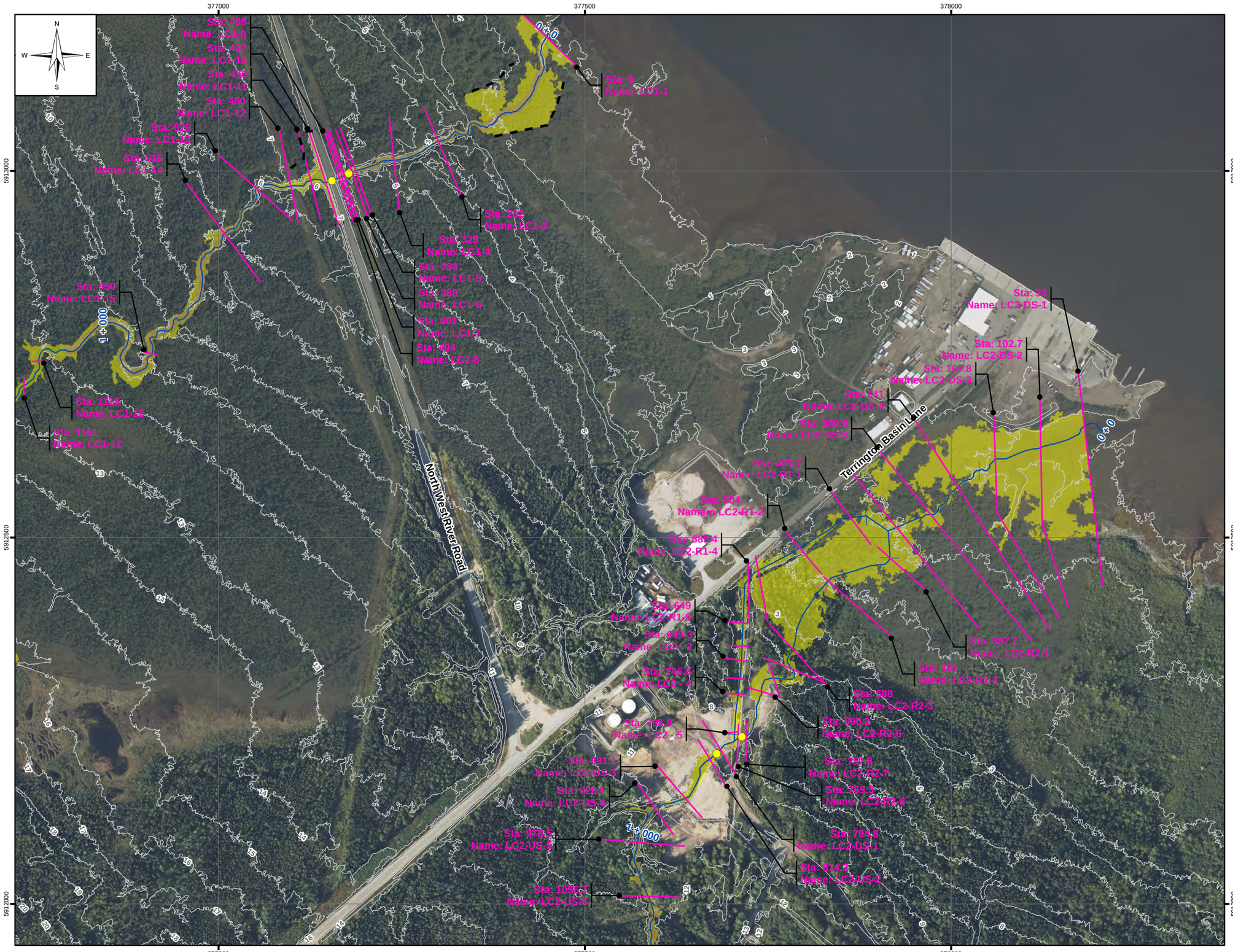

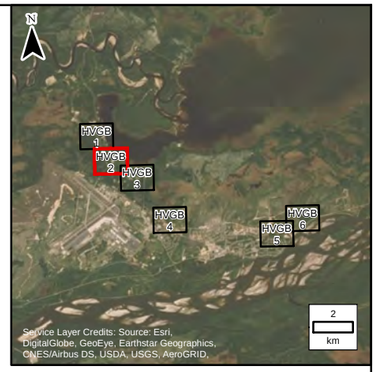

LEGEND:

- 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

Velocity (m/s)

- 0.0 – 1.0 m/s
- 1.0 – 2.0 m/s
- 2.0 – 3.0 m/s
- 3.0 – 4.0 m/s
- > 4.00 m/s

NOTES:

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50 0 50 100 150 200
Metres

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

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CHURCHILL RIVER FLOOD RISK AND FORECASTING

OPEN WATER 1:100 YEAR VELOCITY DISTRIBUTION FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC–CD) – HVGB–2

JUNE 2020 | FIGURE 4.4 | REV: 0

FileName: P:\Projects\2018\18-3217-001\Dwg\GIS\MXD\Flood_Mapping_Creeks\18-3217-001_Fig4.4_11x17.mxd
11"x17" PLOT SCALE 1:1

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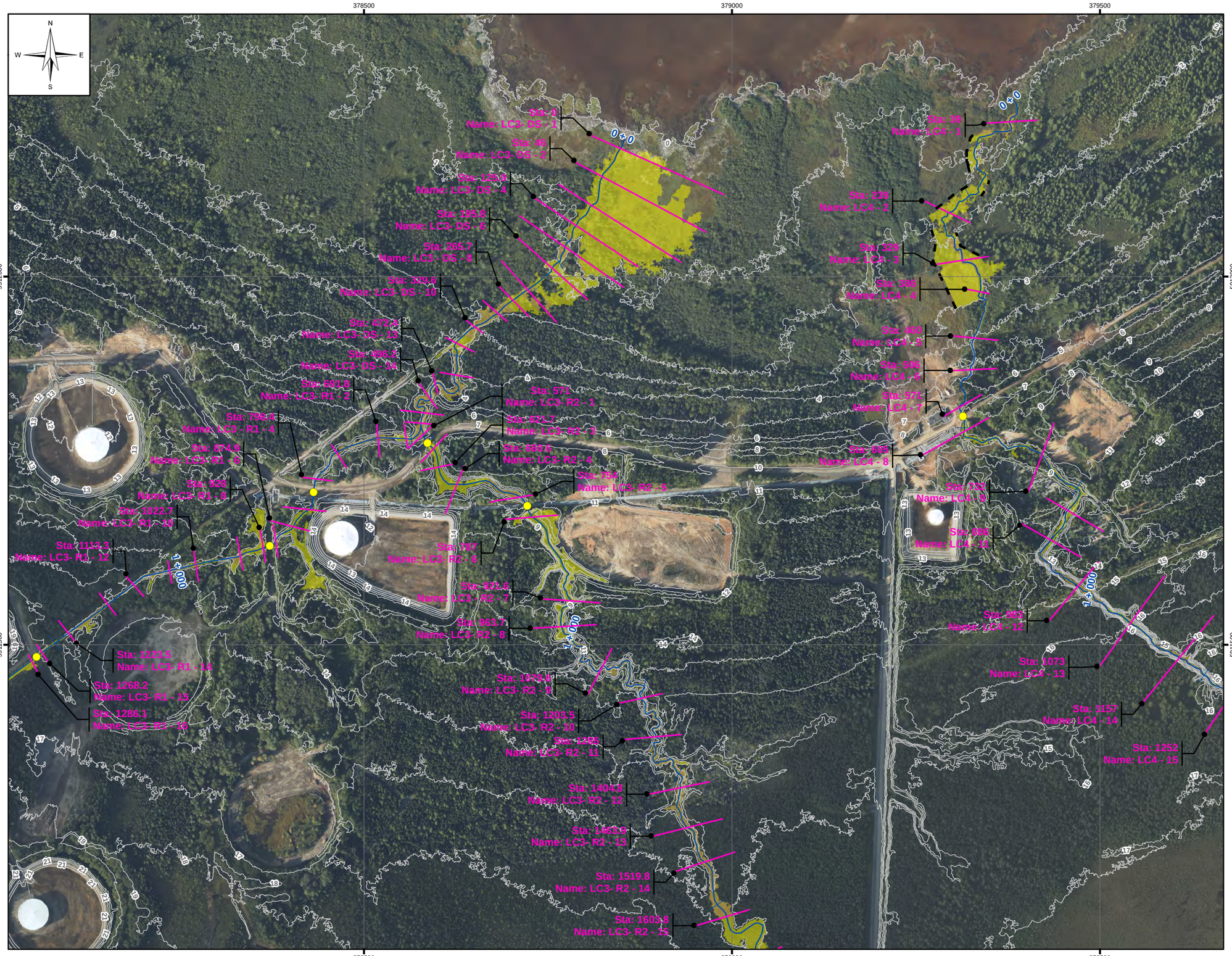

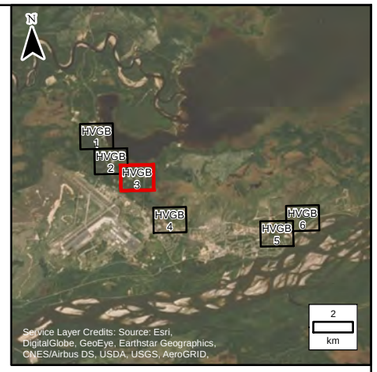

LEGEND:

- 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

Velocity (m/s)

- 0.0 – 1.0 m/s
- 1.0 – 2.0 m/s
- 2.0 – 3.0 m/s
- 3.0 – 4.0 m/s
- > 4.00 m/s

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.

50 0 50 100 150 200
Metres

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

All units are metric and in metres unless otherwise specified. Horzontal 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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Newfoundland Labrador

CHURCHILL RIVER FLOOD RISK AND FORECASTING

OPEN WATER 1:100 YEAR VELOCITY DISTRIBUTION FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC–CD) – HVGB–3

JUNE 2020 | FIGURE 4.4 | REV: 0

FileName: P:\Projects\2018\18-3217-001\Dwg\GIS\MXD\Flood_Mapping_Creeks\18-3217-001_Fig4.4_11x17.mxd
11"x17" PLOT SCALE 1:1

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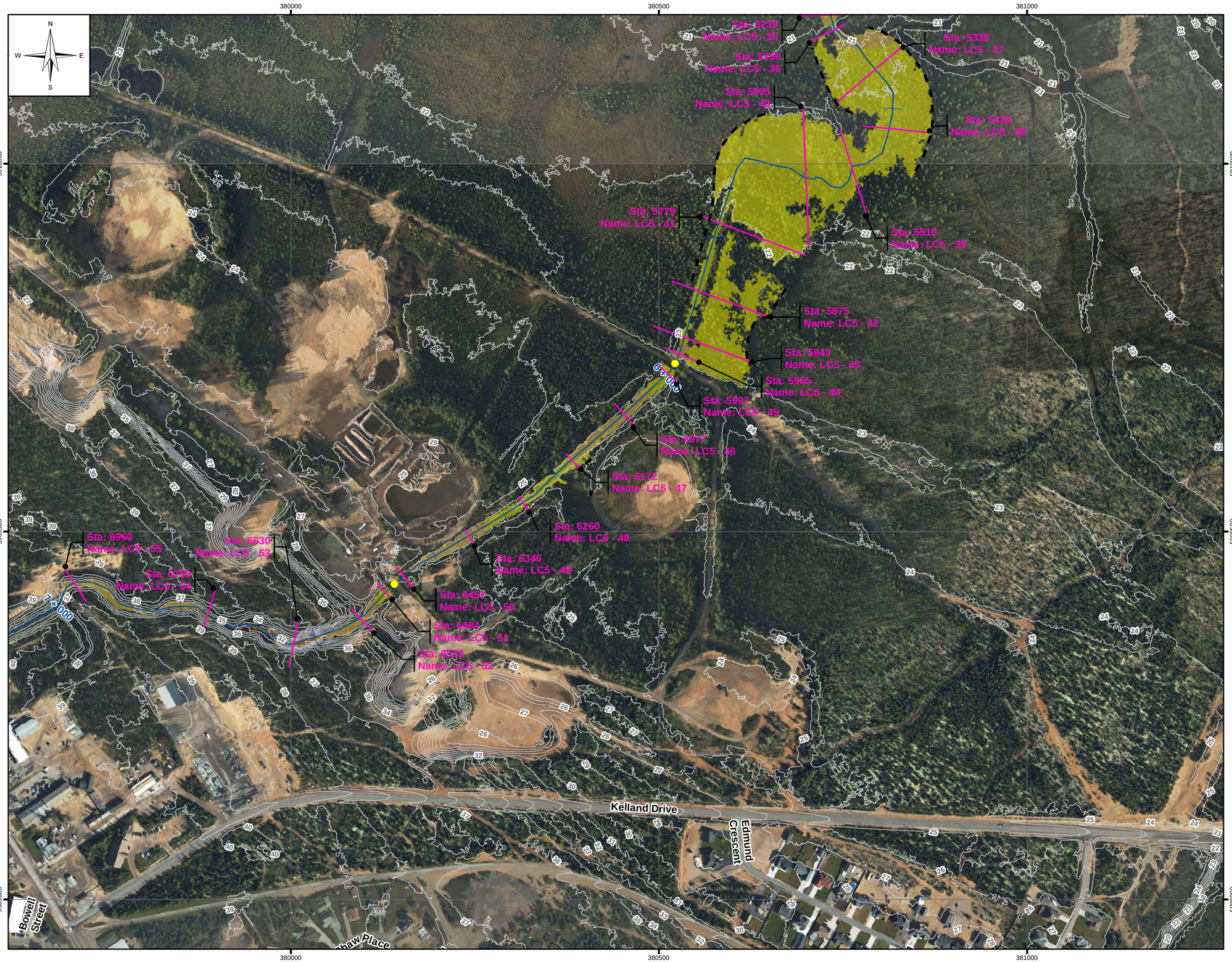

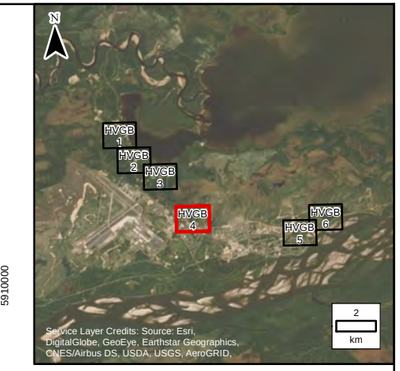

LEGEND:

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

Velocity (m/s)

- 0.0 – 1.0 m/s
- 1.0 – 2.0 m/s
- 2.0 – 3.0 m/s
- 3.0 – 4.0 m/s
- > 4.00 m/s

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. Horzontal 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 1:100 YEAR VELOCITY DISTRIBUTION FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC–CD) – HVGB–4

JUNE 2020 | FIGURE 4.4 | REV: 0

FileName: P:\Projects\2018\18-3217-001\Dwg\GIS\MXD\Flood_Mapping_Creeks\18-3217-001_Fig4.4_11x17.mxd
11"x17" PLOT SCALE 1:1

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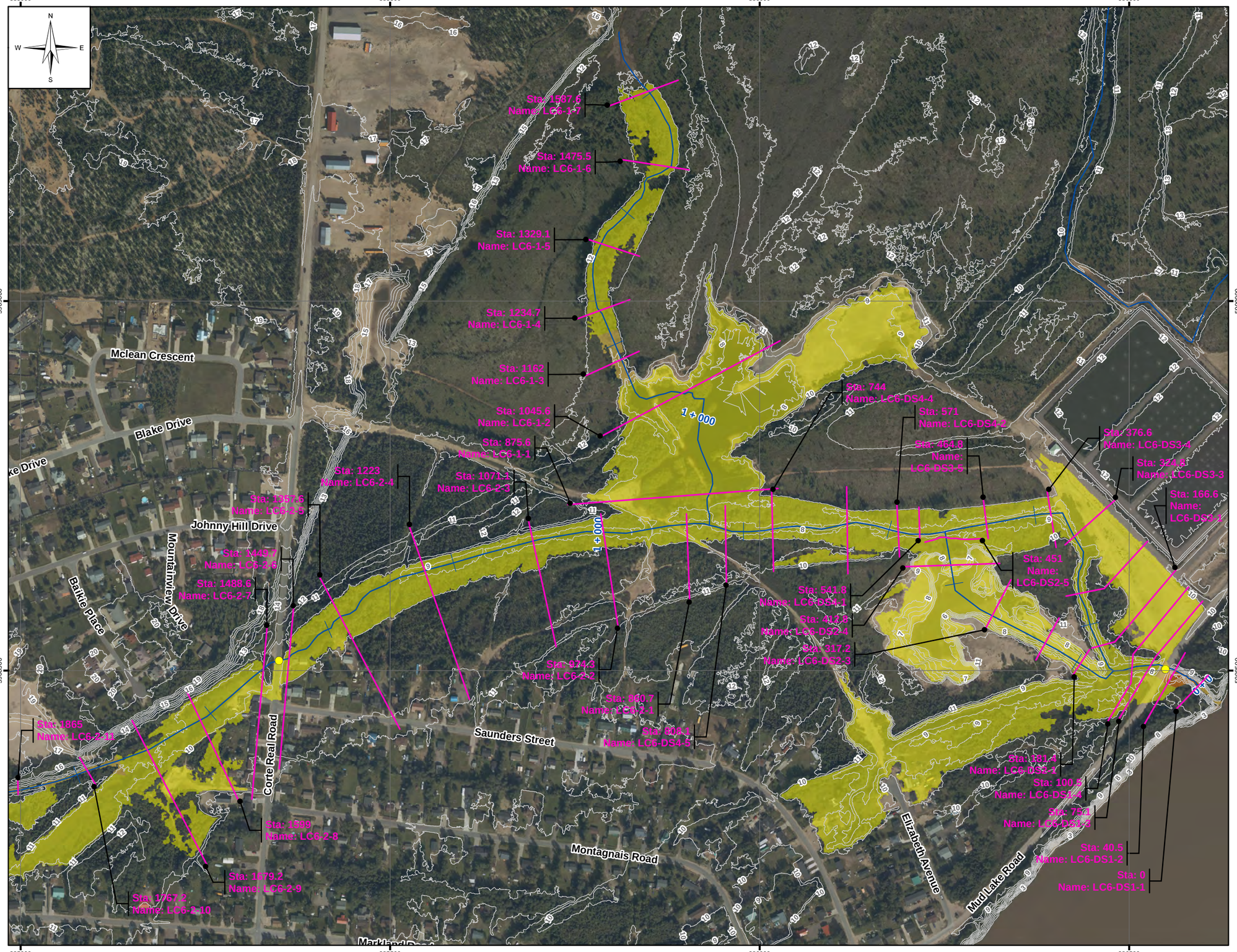

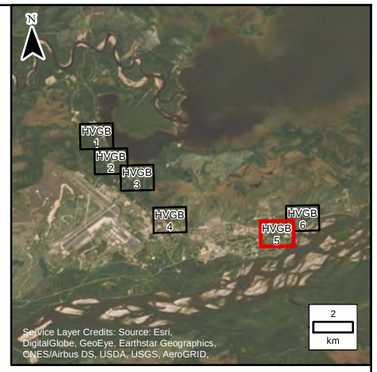

LEGEND:

- 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

Velocity (m/s)

- 0.0 – 1.0 m/s
- 1.0 – 2.0 m/s
- 2.0 – 3.0 m/s
- 3.0 – 4.0 m/s
- > 4.00 m/s

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. Horzontal 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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Newfoundland Labrador

CHURCHILL RIVER FLOOD RISK AND FORECASTING

OPEN WATER 1:100 YEAR VELOCITY DISTRIBUTION FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC–CD) – HVGB–5

JUNE 2020 | FIGURE 4.4 | REV: 0

FileName: P:\Projects\2018\18-3217-001\Dwg\GIS\MXD\Flood_Mapping_Creeks\18-3217-001_Fig4.4_11x17.mxd
11"x17" PLOT SCALE 1:1

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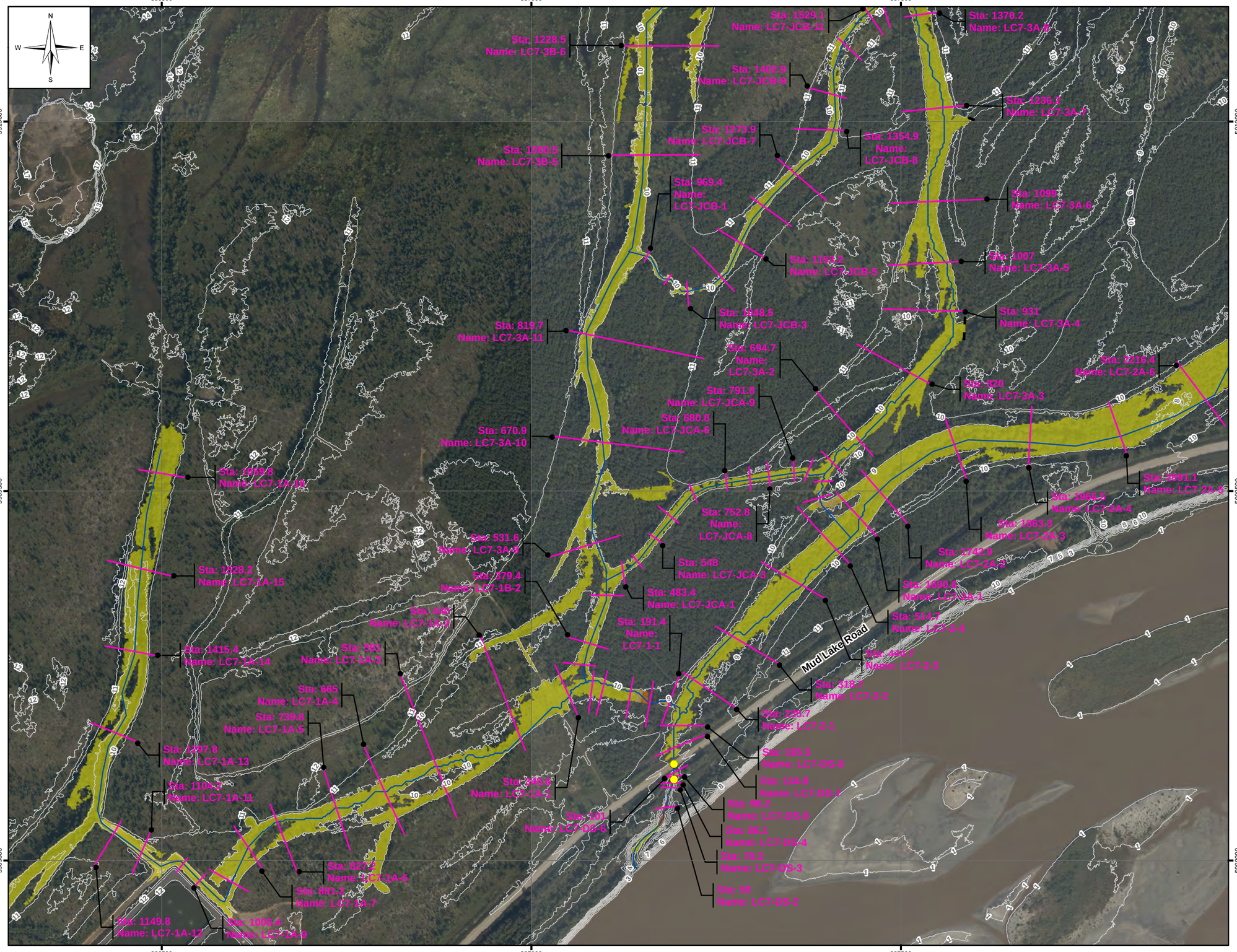

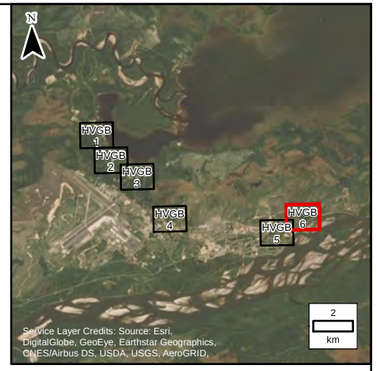

LEGEND:

- 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

Velocity (m/s)

- 0.0 – 1.0 m/s
- 1.0 – 2.0 m/s
- 2.0 – 3.0 m/s
- 3.0 – 4.0 m/s
- > 4.00 m/s

NOTES:

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50 0 50 100 150 200
Metres

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

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Newfoundland Labrador

CHURCHILL RIVER FLOOD RISK AND FORECASTING

OPEN WATER 1:100 YEAR VELOCITY DISTRIBUTION FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC–CD) – HVGB–6

JUNE 2020 | FIGURE 4.4 | REV: 0

FileName: P:\Projects\2018\18-3217-001\Dwg\GIS\MXD\Flood_Mapping_Creeks\18-3217-001_Fig4.4_11x17.mxd
11"x17" PLOT SCALE 1:1