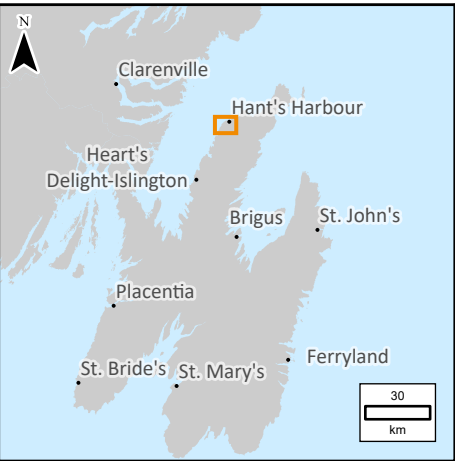
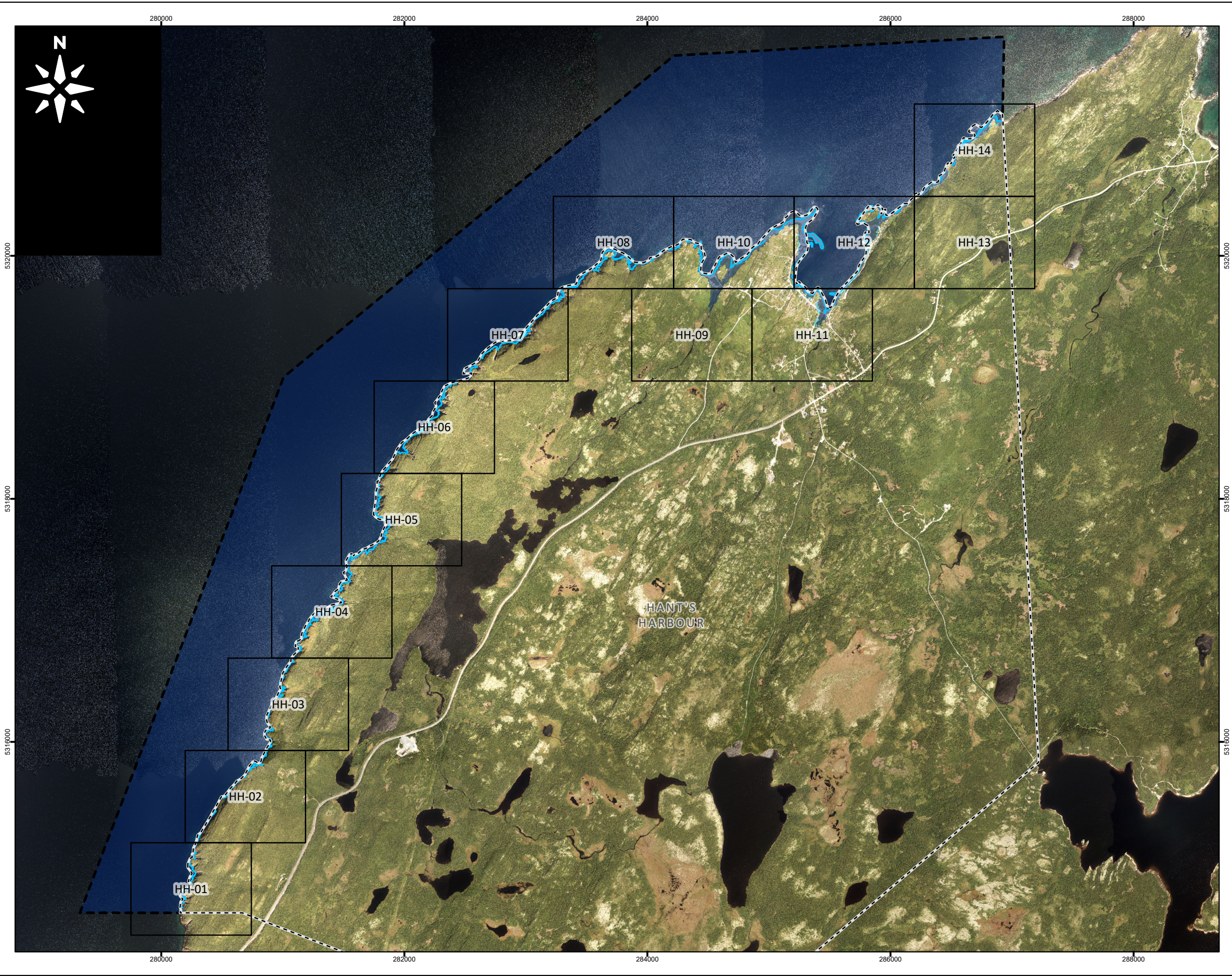
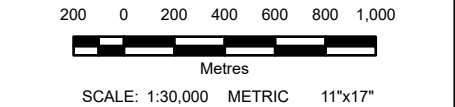




LEGEND:

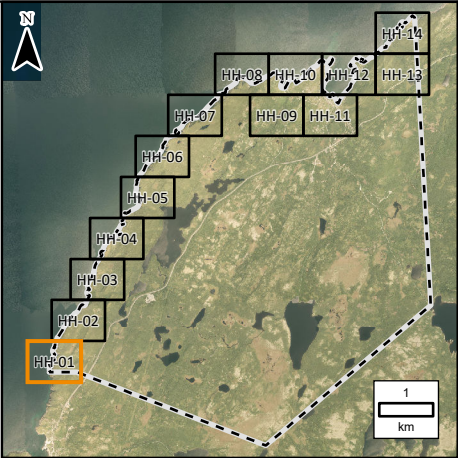
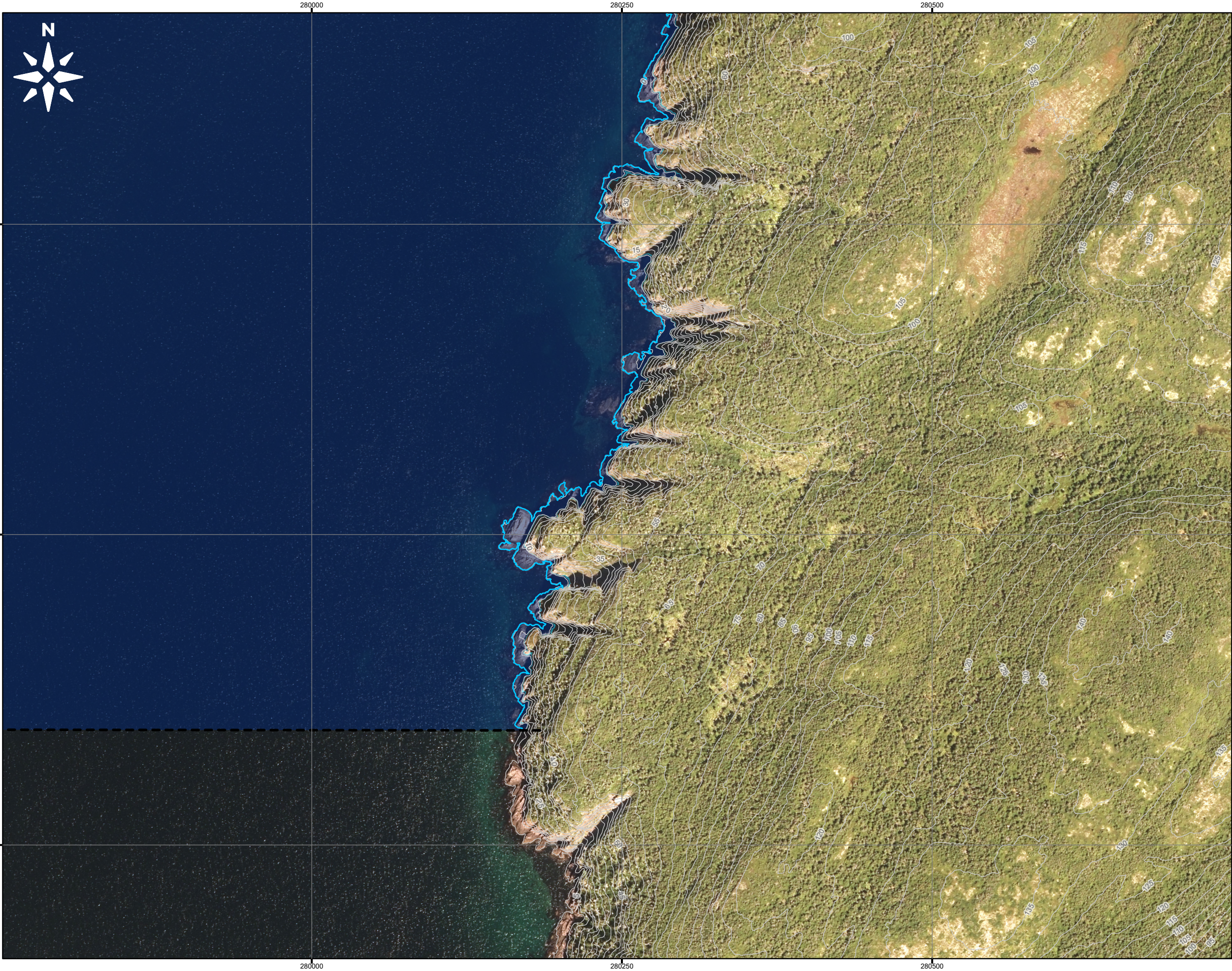
- Coastline
- Limit of Mapping
- Map Extent
- Municipal Boundary
- 1:20 Year Wave Run Up
- 1:100 Year Wave Run Up

NOTES:
1. Imagery is supplied by the Government of Newfoundland and Labrador. (Capture date: 2020)



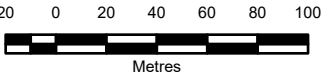
All units are metric and in metres unless otherwise specified.
Horizontal Projection: North American Datum 1983 CSRS (NAD83), Modified Transverse Mercator Projection (MTM) Zone 1. Elevations are in metres above sea level (MSL), Canadian Geodetic Vertical Datum 2013 (CGVD2013).

0	25/12/19	ISSUED WITH FINAL REPORT	ALW	DSB
NO.	YYMMDD	DESCRIPTION	ISSUED BY	CHECK BY
REVISIONS / ISSUE				
				
CLIMATE CHANGE FLOOD HAZARD MAPPING STUDY FOR FERRYLAND, BRIGUS, HEART'S DELIGHT, WINTERTON & HANT'S HARBOUR				
CURRENT CLIMATE AND CURRENT DEVELOPMENT CONDITION (CC-CD)				
WAVE RUN UP - OVERVIEW MAP				
DECEMBER 2025		FIGURE 13.1		REV: 0



- LEGEND:**
- 1:20 Year Wave Run Up
 - 1:100 Year Wave Run Up
 - Coastline
 - 5m LiDAR Contour
 - Limit of Mapping
 - Wave Run Up Transect

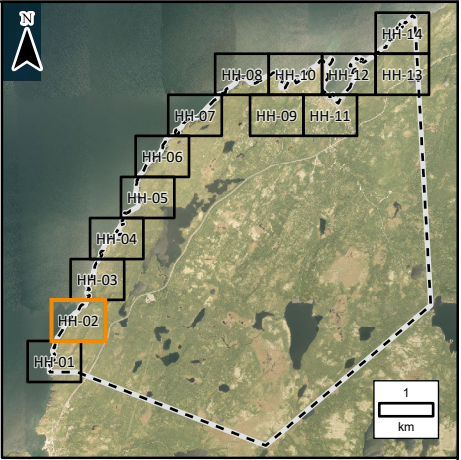
- NOTES:**
- Imagery is supplied by the Government of Newfoundland and Labrador. (Capture date: 2020)
 - Topography shown was developed by KGS Group from the HRDEM from Natural Resources Canada (NRCAN). (Capture date: June and July, 2020)



SCALE: 1:3,000 METRIC 11"x17"

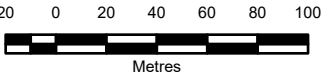
All units are metric and in metres unless otherwise specified.
Horizontal Projection: North American Datum 1983 CSRS (NAD83), Modified Transverse Mercator Projection (MTM) Zone 1. Elevations are in metres above sea level (MSL), Canadian Geodetic Vertical Datum 2013 (CGVD2013).

➡	0	25/12/19	ISSUED WITH FINAL REPORT	ALW	DSB
	NO.	YYMMDD	DESCRIPTION	ISSUED BY	CHECK BY
REVISIONS / ISSUE					
					
CLIMATE CHANGE FLOOD HAZARD MAPPING STUDY FOR FERRYLAND, BRIGUS, HEART'S DELIGHT, WINTERTON & HANT'S HARBOUR					
CURRENT CLIMATE AND CURRENT DEVELOPMENT CONDITION (CC-CD)					
WAVE RUN UP - HH-01					
DECEMBER 2025			FIGURE 13.2		REV: 0



- LEGEND:**
- 1:20 Year Wave Run Up
 - 1:100 Year Wave Run Up
 - Coastline
 - 5m LiDAR Contour
 - Limit of Mapping
 - Wave Run Up Transect

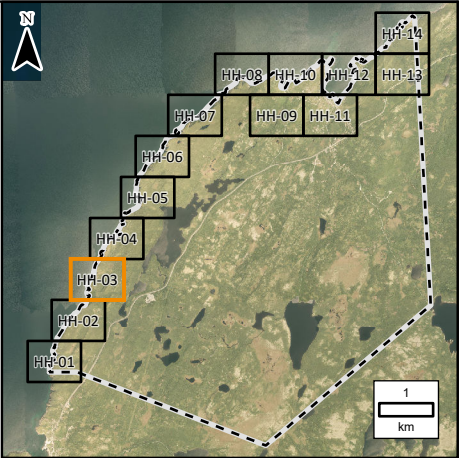
- NOTES:**
- Imagery is supplied by the Government of Newfoundland and Labrador. (Capture date: 2020)
 - Topography shown was developed by KGS Group from the HRDEM from Natural Resources Canada (NRCAN). (Capture date: June and July, 2020)



SCALE: 1:3,000 METRIC 11"x17"

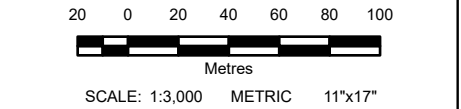
All units are metric and in metres unless otherwise specified.
Horizontal Projection: North American Datum 1983 CSRS (NAD83), Modified Transverse Mercator Projection (MTM) Zone 1, Elevations are in metres above sea level (MSL), Canadian Geodetic Vertical Datum 2013 (CGVD2013).

➡	0	25/12/19	ISSUED WITH FINAL REPORT	ALW	DSB
NO.	YYMMDD	DESCRIPTION		ISSUED BY	CHECK BY
REVISIONS / ISSUE					
					
CLIMATE CHANGE FLOOD HAZARD MAPPING STUDY FOR FERRYLAND, BRIGUS, HEART'S DELIGHT, WINTERTON & HANT'S HARBOUR					
CURRENT CLIMATE AND CURRENT DEVELOPMENT CONDITION (CC-CD) WAVE RUN UP - HH-02					
DECEMBER 2025		FIGURE 13.2		REV:	0



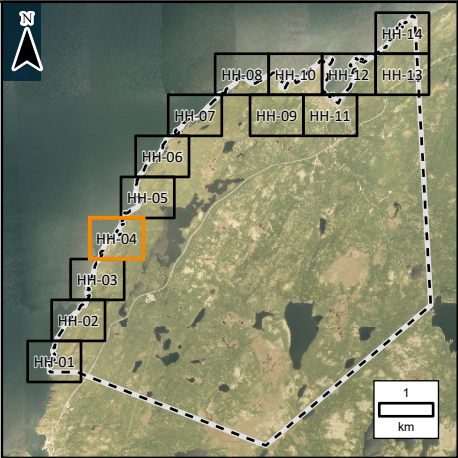
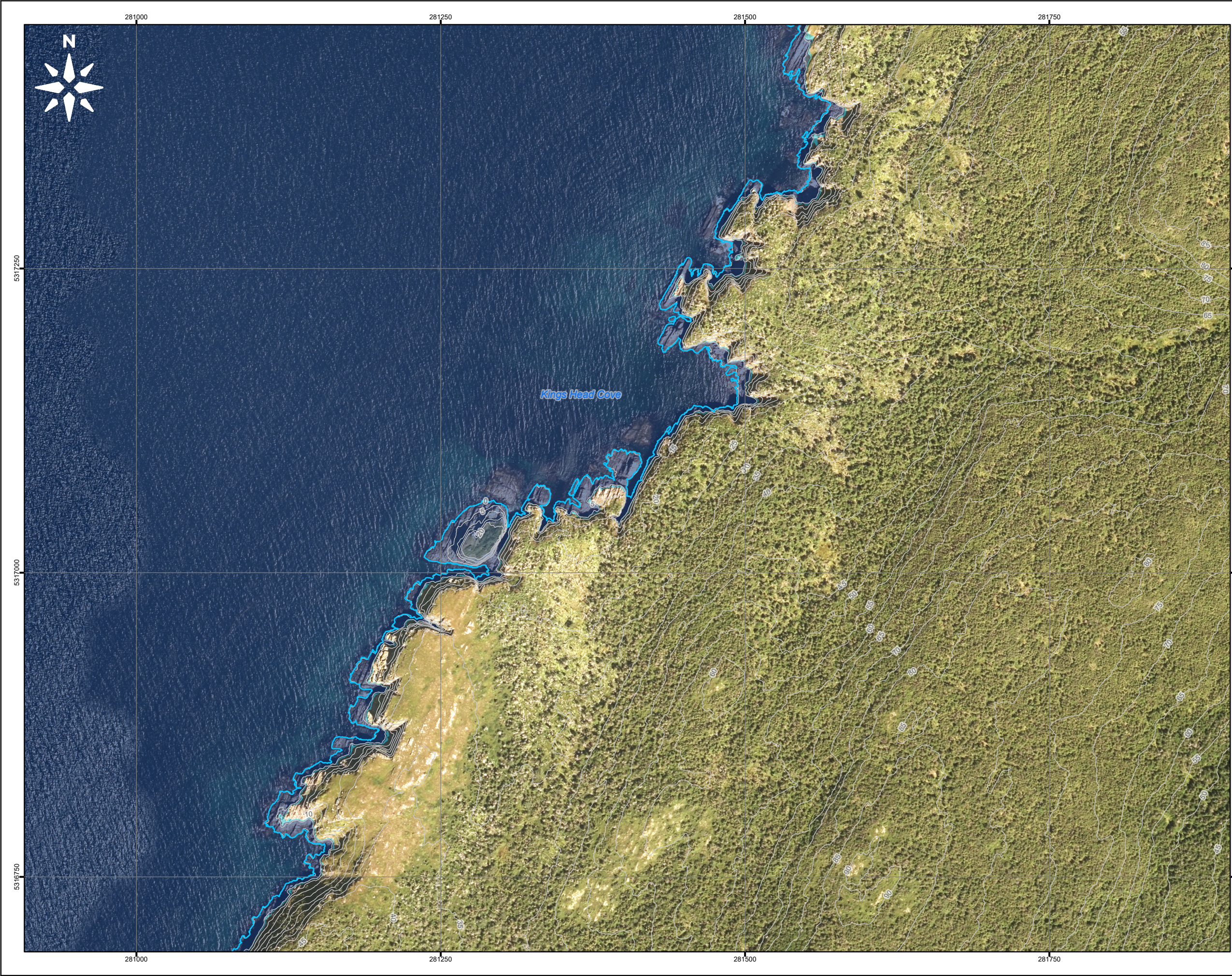
- LEGEND:**
- 1:20 Year Wave Run Up
 - 1:100 Year Wave Run Up
 - Coastline
 - 5m LiDAR Contour
 - Limit of Mapping
 - Wave Run Up Transect

- NOTES:**
- Imagery is supplied by the Government of Newfoundland and Labrador. (Capture date: 2020)
 - Topography shown was developed by KGS Group from the HRDEM from Natural Resources Canada (NRCAN). (Capture date: June and July, 2020)



All units are metric and in metres unless otherwise specified.
Horizontal Projection: North American Datum 1983 CSRS (NAD83), Modified Transverse Mercator Projection (MTM) Zone 1. Elevations are in metres above sea level (MSL), Canadian Geodetic Vertical Datum 2013 (CGVD2013).

0	25/12/19	ISSUED WITH FINAL REPORT		ALW	DSB
NO.	YYMMDD	DESCRIPTION		ISSUED BY	CHECK BY
REVISIONS / ISSUE					
					
CLIMATE CHANGE FLOOD HAZARD MAPPING STUDY FOR FERRYLAND, BRIGUS, HEART'S DELIGHT, WINTERTON & HANT'S HARBOUR					
CURRENT CLIMATE AND CURRENT DEVELOPMENT CONDITION (CC-CD)					
WAVE RUN UP - HH-03					
DECEMBER 2025		FIGURE 13.2		REV:	0



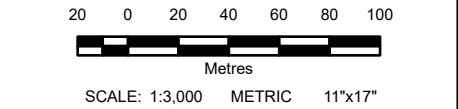
LEGEND:

- 1:20 Year Wave Run Up
- 1:100 Year Wave Run Up
- Coastline
- 5m LiDAR Contour
- Limit of Mapping
- Wave Run Up Transect

NOTES:

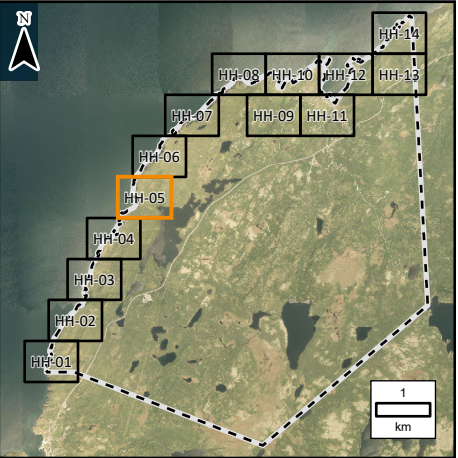
1. Imagery is supplied by the Government of Newfoundland and Labrador. (Capture date: 2020)

2. Topography shown was developed by KGS Group from the HRDEM from Natural Resources Canada (NRCAN). (Capture date: June and July, 2020)



All units are metric and in metres unless otherwise specified.
Horizontal Projection: North American Datum 1983 CSRS (NAD83), Modified Transverse Mercator Projection (MTM) Zone 1. Elevations are in metres above sea level (MSL), Canadian Geodetic Vertical Datum 2013 (CGVD2013).

		0	25/12/19	ISSUED WITH FINAL REPORT	ALW	DSB
NO.		YYMMDD		DESCRIPTION	ISSUED BY	CHECK BY
REVISIONS / ISSUE						
						
CLIMATE CHANGE FLOOD HAZARD MAPPING STUDY FOR FERRYLAND, BRIGUS, HEART'S DELIGHT, WINTERTON & HANT'S HARBOUR						
CURRENT CLIMATE AND CURRENT DEVELOPMENT CONDITION (CC-CD)						
WAVE RUN UP - HH-04						
DECEMBER 2025		FIGURE 13.2			REV:	0



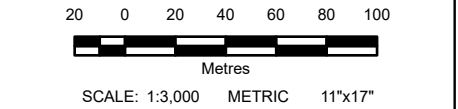
LEGEND:

- 1:20 Year Wave Run Up
- 1:100 Year Wave Run Up
- Coastline
- 5m LiDAR Contour
- Limit of Mapping
- Wave Run Up Transect

NOTES:

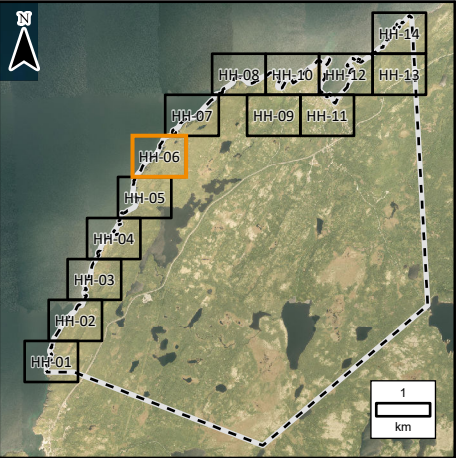
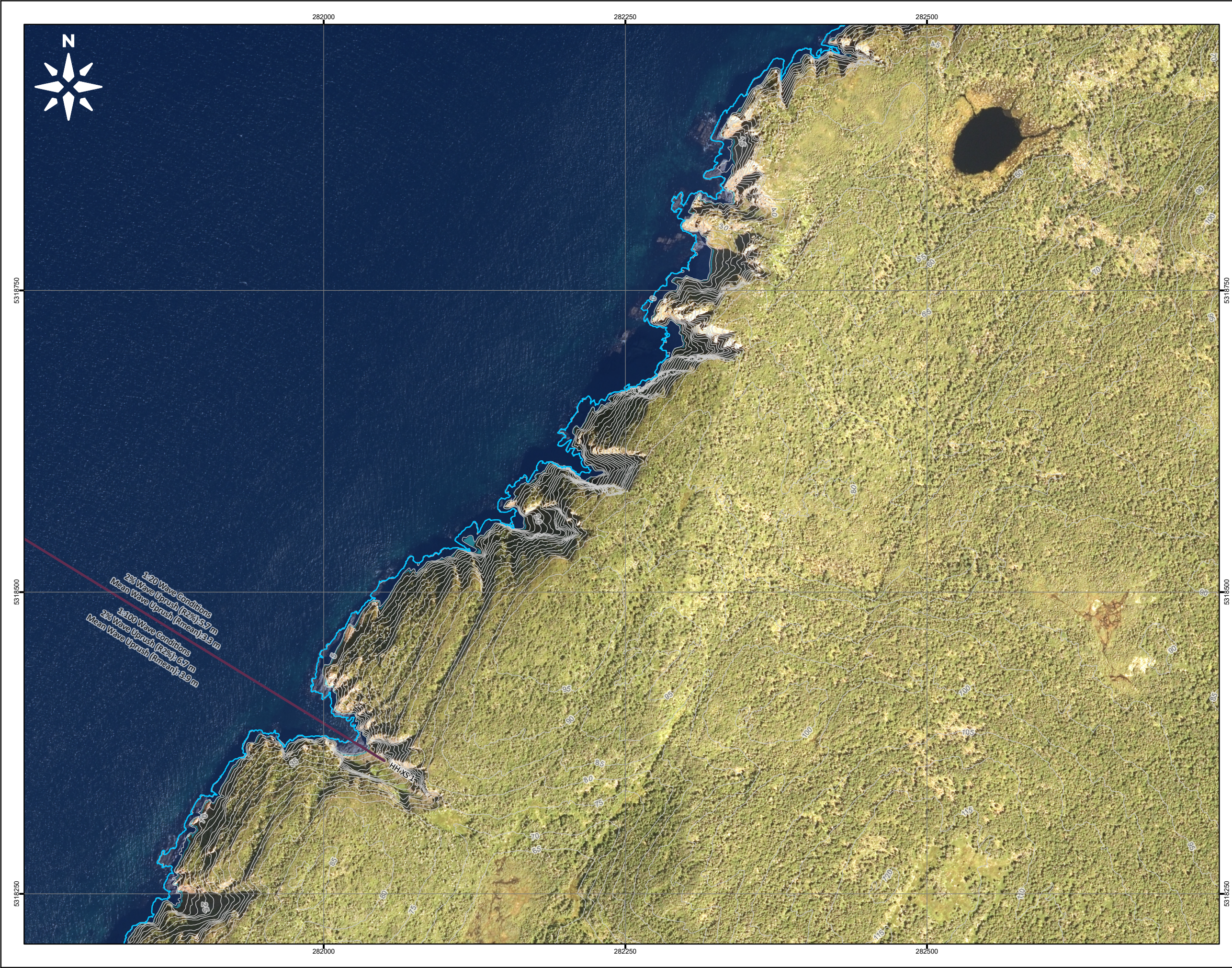
1. Imagery is supplied by the Government of Newfoundland and Labrador. (Capture date: 2020)

2. Topography shown was developed by KGS Group from the HRDEM from Natural Resources Canada (NRCAN). (Capture date: June and July, 2020)



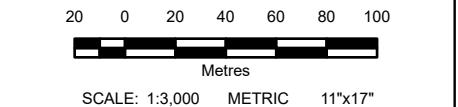
All units are metric and in metres unless otherwise specified.
Horizontal Projection: North American Datum 1983 CSRS (NAD83), Modified Transverse Mercator Projection (MTM) Zone 1. Elevations are in metres above sea level (MSL), Canadian Geodetic Vertical Datum 2013 (CGVD2013).

➡	0	25/12/19	ISSUED WITH FINAL REPORT	ALW	DSB
	NO.	YYMMDD	DESCRIPTION	ISSUED BY	CHECK BY
REVISIONS / ISSUE					
					
CLIMATE CHANGE FLOOD HAZARD MAPPING STUDY FOR FERRYLAND, BRIGUS, HEART'S DELIGHT, WINTERTON & HANT'S HARBOUR					
CURRENT CLIMATE AND CURRENT DEVELOPMENT CONDITION (CC-CD) WAVE RUN UP - HH-05					
DECEMBER 2025		FIGURE 13.2		REV:	0



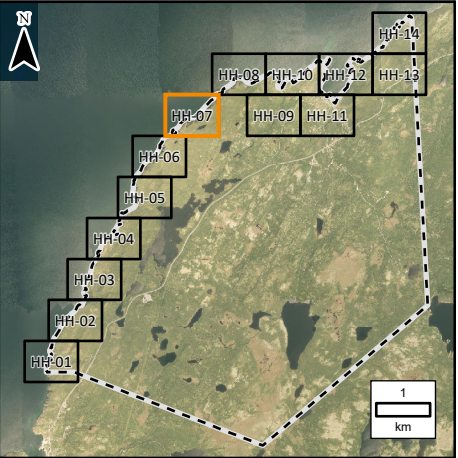
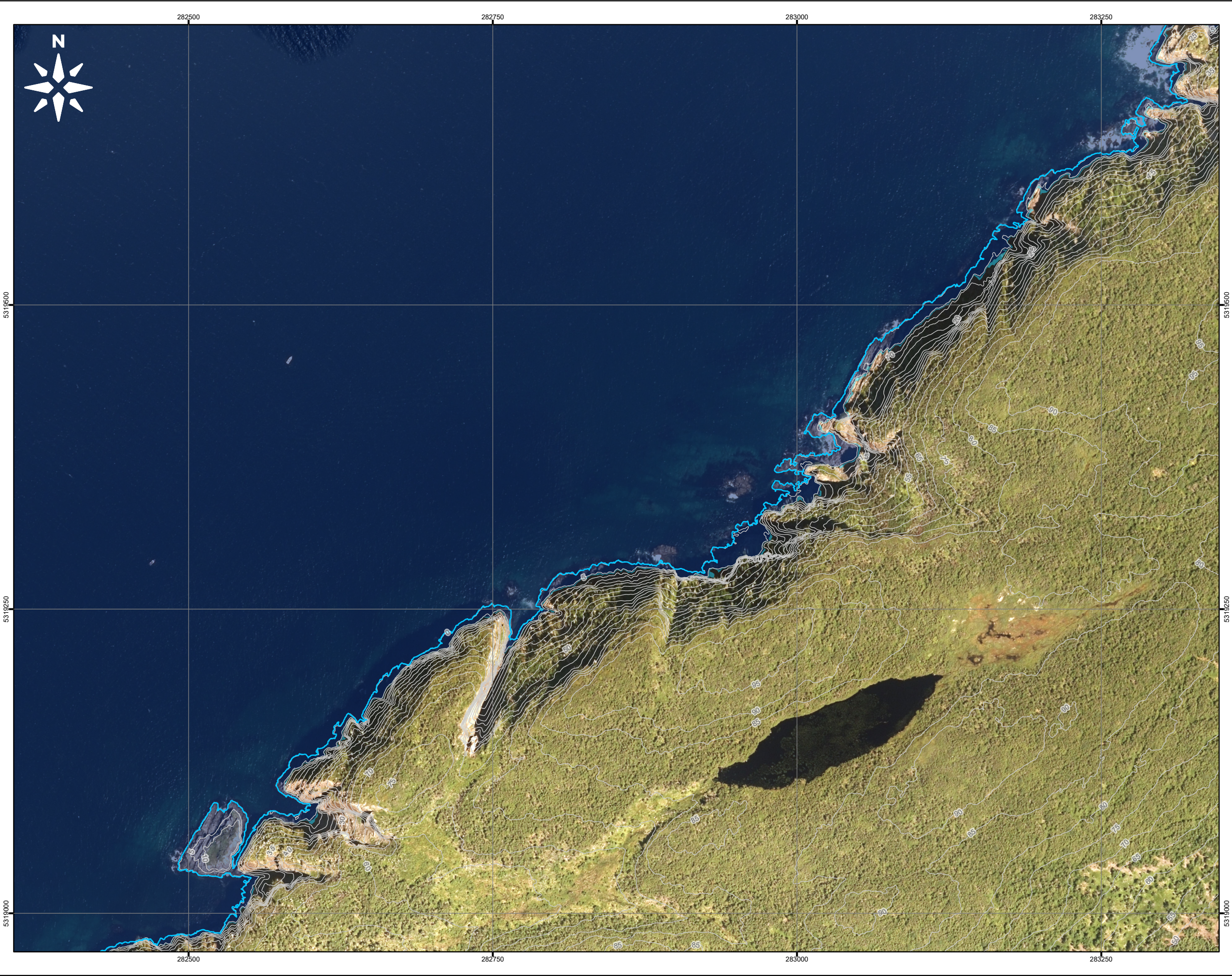
- LEGEND:**
- 1:20 Year Wave Run Up
 - 1:100 Year Wave Run Up
 - Coastline
 - 5m LiDAR Contour
 - Limit of Mapping
 - Wave Run Up Transect

- NOTES:**
- Imagery is supplied by the Government of Newfoundland and Labrador. (Capture date: 2020)
 - Topography shown was developed by KGS Group from the HRDEM from Natural Resources Canada (NRCAN). (Capture date: June and July, 2020)



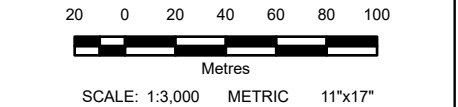
All units are metric and in metres unless otherwise specified.
Horizontal Projection: North American Datum 1983 CSRS (NAD83), Modified Transverse Mercator Projection (MTM) Zone 1, Elevations are in metres above sea level (MSL), Canadian Geodetic Vertical Datum 2013 (CGVD2013).

0	25/12/19	ISSUED WITH FINAL REPORT	ALW	DSB			
NO.	YYMMDD	DESCRIPTION	ISSUED BY	CHECK BY			
REVISIONS / ISSUE							
							
CLIMATE CHANGE FLOOD HAZARD MAPPING STUDY FOR FERRYLAND, BRIGUS, HEART'S DELIGHT, WINTERTON & HANT'S HARBOUR							
CURRENT CLIMATE AND CURRENT DEVELOPMENT CONDITION (CC-CD) WAVE RUN UP - HH-06							
DECEMBER 2025		FIGURE 13.2		REV: 0			



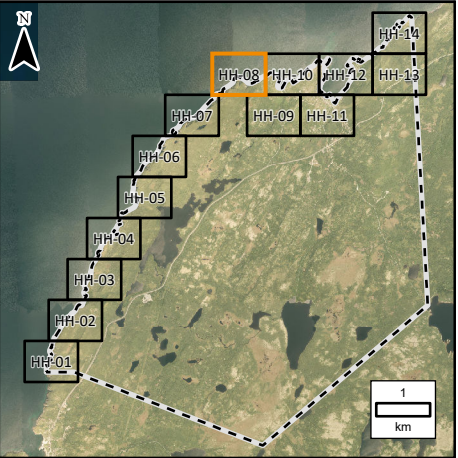
- LEGEND:**
- 1:20 Year Wave Run Up
 - 1:100 Year Wave Run Up
 - Coastline
 - 5m LiDAR Contour
 - Limit of Mapping
 - Wave Run Up Transect

- NOTES:**
- Imagery is supplied by the Government of Newfoundland and Labrador. (Capture date: 2020)
 - Topography shown was developed by KGS Group from the HRDEM from Natural Resources Canada (NRCAN). (Capture date: June and July, 2020)



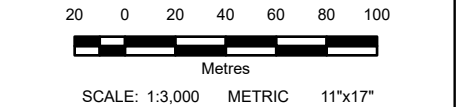
All units are metric and in metres unless otherwise specified.
Horizontal Projection: North American Datum 1983 CSRS (NAD83), Modified Transverse Mercator Projection (MTM) Zone 1, Elevations are in metres above sea level (MSL), Canadian Geodetic Vertical Datum 2013 (CGVD2013).

➡	0	25/12/19	ISSUED WITH FINAL REPORT	ALW	DSB
	NO.	YYMMDD	DESCRIPTION	ISSUED BY	CHECK BY
REVISIONS / ISSUE					
					
CLIMATE CHANGE FLOOD HAZARD MAPPING STUDY FOR FERRYLAND, BRIGUS, HEART'S DELIGHT, WINTERTON & HANT'S HARBOUR					
CURRENT CLIMATE AND CURRENT DEVELOPMENT CONDITION (CC-CD) WAVE RUN UP - HH-07					
DECEMBER 2025		FIGURE 13.2		REV:	0



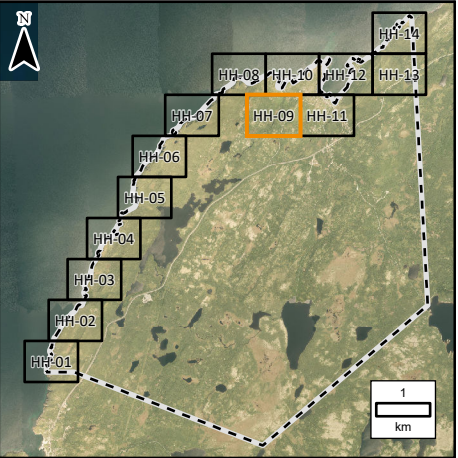
- LEGEND:**
- 1:20 Year Wave Run Up
 - 1:100 Year Wave Run Up
 - Coastline
 - 5m LiDAR Contour
 - Limit of Mapping
 - Wave Run Up Transect

- NOTES:**
- Imagery is supplied by the Government of Newfoundland and Labrador. (Capture date: 2020)
 - Topography shown was developed by KGS Group from the HRDEM from Natural Resources Canada (NRCAN). (Capture date: June and July, 2020)



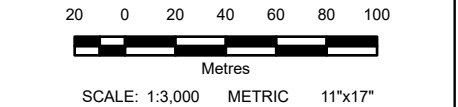
All units are metric and in metres unless otherwise specified.
Horizontal Projection: North American Datum 1983 CSRS (NAD83), Modified Transverse Mercator Projection (MTM) Zone 1. Elevations are in metres above sea level (MSL), Canadian Geodetic Vertical Datum 2013 (CGVD2013).

0	25/12/19	ISSUED WITH FINAL REPORT	ALW	DSB
NO.	YYMMDD	DESCRIPTION	ISSUED BY	CHECK BY
REVISIONS / ISSUE				
				
CLIMATE CHANGE FLOOD HAZARD MAPPING STUDY FOR FERRYLAND, BRIGUS, HEART'S DELIGHT, WINTERTON & HANT'S HARBOUR				
CURRENT CLIMATE AND CURRENT DEVELOPMENT CONDITION (CC-CD)				
WAVE RUN UP - HH-08				
DECEMBER 2025		FIGURE 13.2		REV: 0



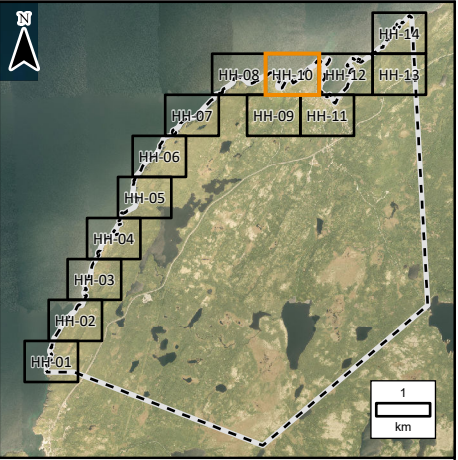
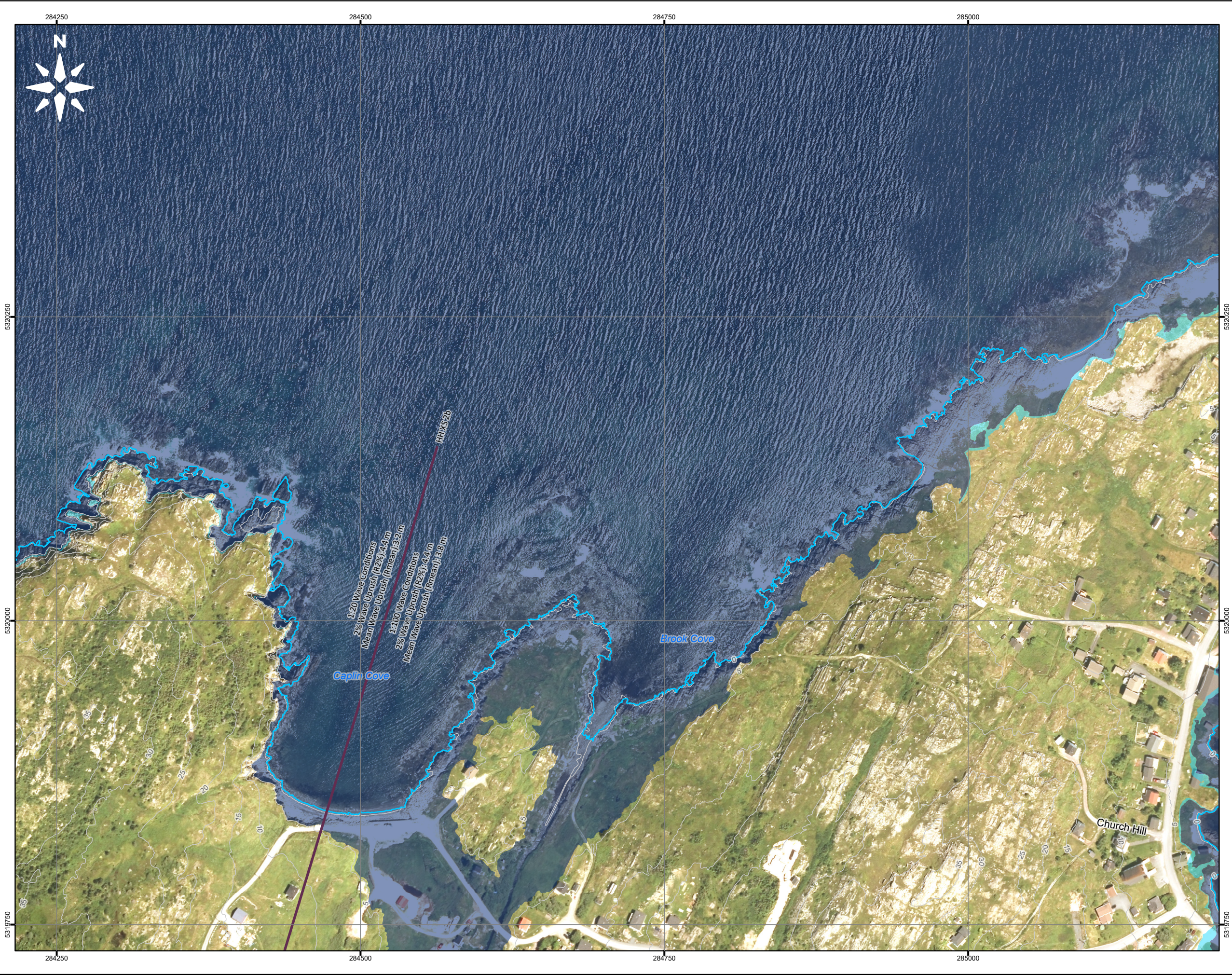
- LEGEND:**
- 1:20 Year Wave Run Up
 - 1:100 Year Wave Run Up
 - Coastline
 - 5m LiDAR Contour
 - Limit of Mapping
 - Wave Run Up Transect

- NOTES:**
- Imagery is supplied by the Government of Newfoundland and Labrador. (Capture date: 2020)
 - Topography shown was developed by KGS Group from the HRDEM from Natural Resources Canada (NRCAN). (Capture date: June and July, 2020)



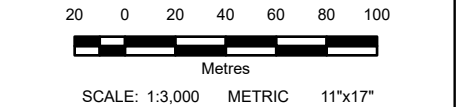
All units are metric and in metres unless otherwise specified.
Horizontal Projection: North American Datum 1983 CSRS (NAD83), Modified Transverse Mercator Projection (MTM) Zone 1. Elevations are in metres above sea level (MSL), Canadian Geodetic Vertical Datum 2013 (CGVD2013).

0	25/12/19	ISSUED WITH FINAL REPORT	ALW	DSB			
NO.	YYMMDD	DESCRIPTION	ISSUED BY	CHECK BY			
REVISIONS / ISSUE							
							
CLIMATE CHANGE FLOOD HAZARD MAPPING STUDY FOR FERRYLAND, BRIGUS, HEART'S DELIGHT, WINTERTON & HANT'S HARBOUR							
CURRENT CLIMATE AND CURRENT DEVELOPMENT CONDITION (CC-CD) WAVE RUN UP - HH-09							
DECEMBER 2025		FIGURE 13.2		REV: 0			



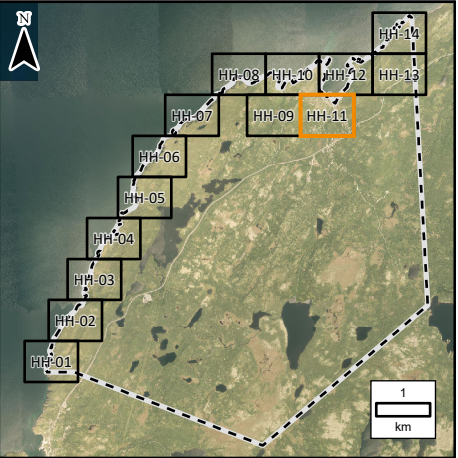
- LEGEND:**
- 1:20 Year Wave Run Up
 - 1:100 Year Wave Run Up
 - Coastline
 - 5m LiDAR Contour
 - Limit of Mapping
 - Wave Run Up Transect

- NOTES:**
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Horizontal Projection: North American Datum 1983 CSRS (NAD83), Modified Transverse Mercator Projection (MTM) Zone 1. Elevations are in metres above sea level (MSL), Canadian Geodetic Vertical Datum 2013 (CGVD2013).

0		25/12/19	ISSUED WITH FINAL REPORT	ALW	DSB
NO.	YYMMDD	DESCRIPTION		ISSUED BY	CHECK BY
REVISIONS / ISSUE					
					
CLIMATE CHANGE FLOOD HAZARD MAPPING STUDY FOR FERRYLAND, BRIGUS, HEART'S DELIGHT, WINTERTON & HANT'S HARBOUR					
CURRENT CLIMATE AND CURRENT DEVELOPMENT CONDITION (CC-CD)					
WAVE RUN UP - HH-10					
DECEMBER 2025		FIGURE 13.2			REV: 0



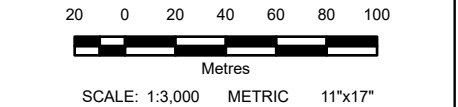
LEGEND:

- 1:20 Year Wave Run Up
- 1:100 Year Wave Run Up
- Coastline
- 5m LiDAR Contour
- Limit of Mapping
- Wave Run Up Transect

NOTES:

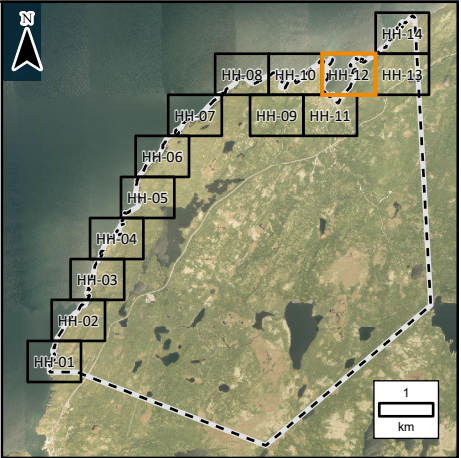
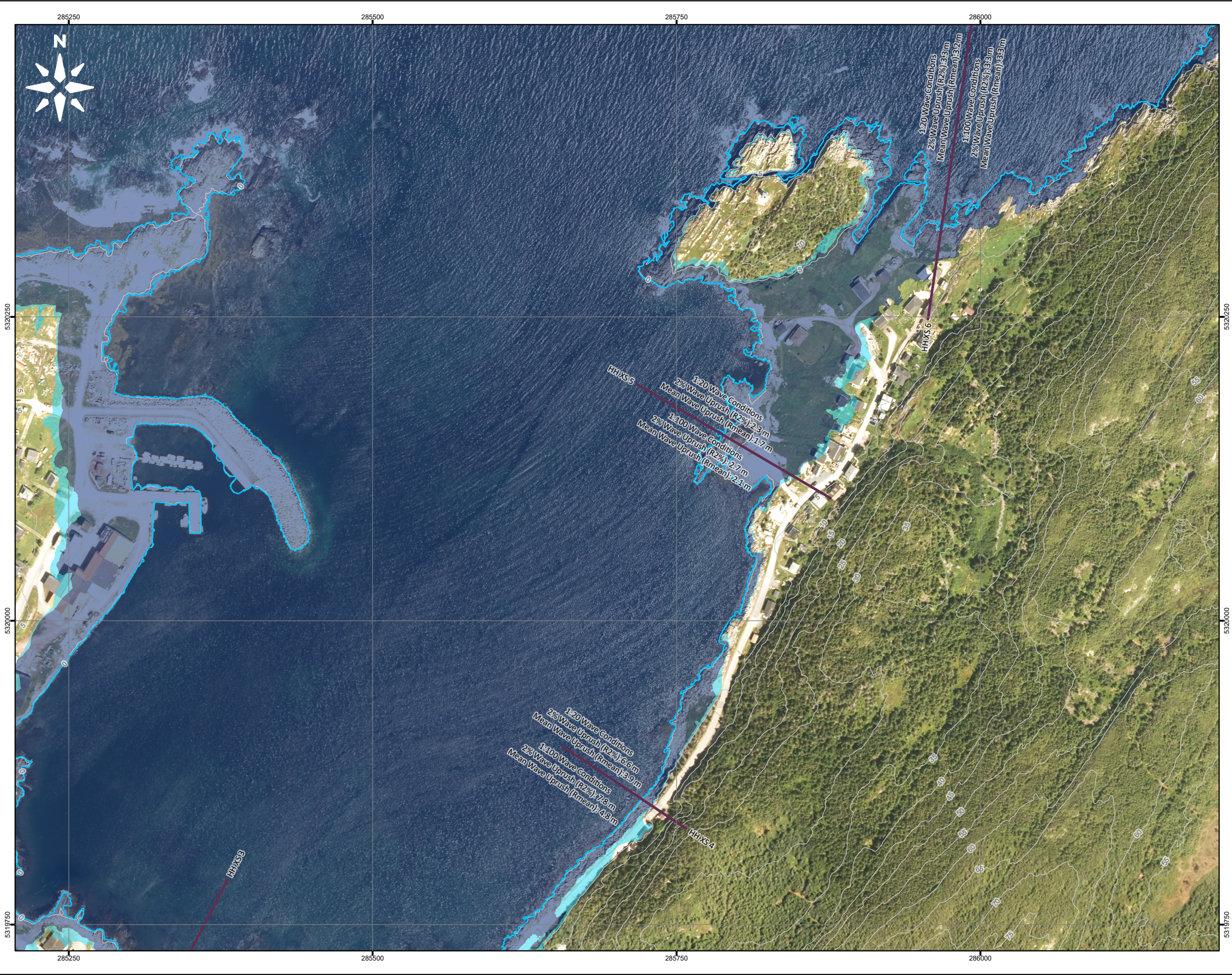
1. Imagery is supplied by the Government of Newfoundland and Labrador. (Capture date: 2020)

2. Topography shown was developed by KGS Group from the HRDEM from Natural Resources Canada (NRCAN). (Capture date: June and July, 2020)



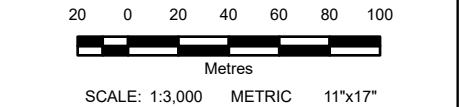
All units are metric and in metres unless otherwise specified.
Horizontal Projection: North American Datum 1983 CSRS (NAD83), Modified Transverse Mercator Projection (MTM) Zone 1. Elevations are in metres above sea level (MSL), Canadian Geodetic Vertical Datum 2013 (CGVD2013).

0	25/12/19	ISSUED WITH FINAL REPORT	ALW	DSB
NO.	YYMMDD	DESCRIPTION	ISSUED BY	CHECK BY
REVISIONS / ISSUE				
				
CLIMATE CHANGE FLOOD HAZARD MAPPING STUDY FOR FERRYLAND, BRIGUS, HEART'S DELIGHT, WINTERTON & HANT'S HARBOUR				
CURRENT CLIMATE AND CURRENT DEVELOPMENT CONDITION (CC-CD)				
WAVE RUN UP - HH-11				
DECEMBER 2025		FIGURE 13.2		REV: 0



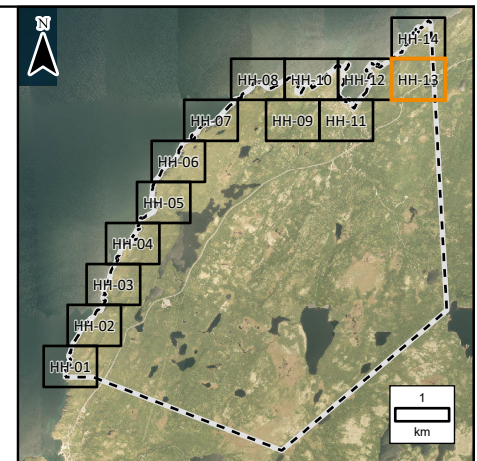
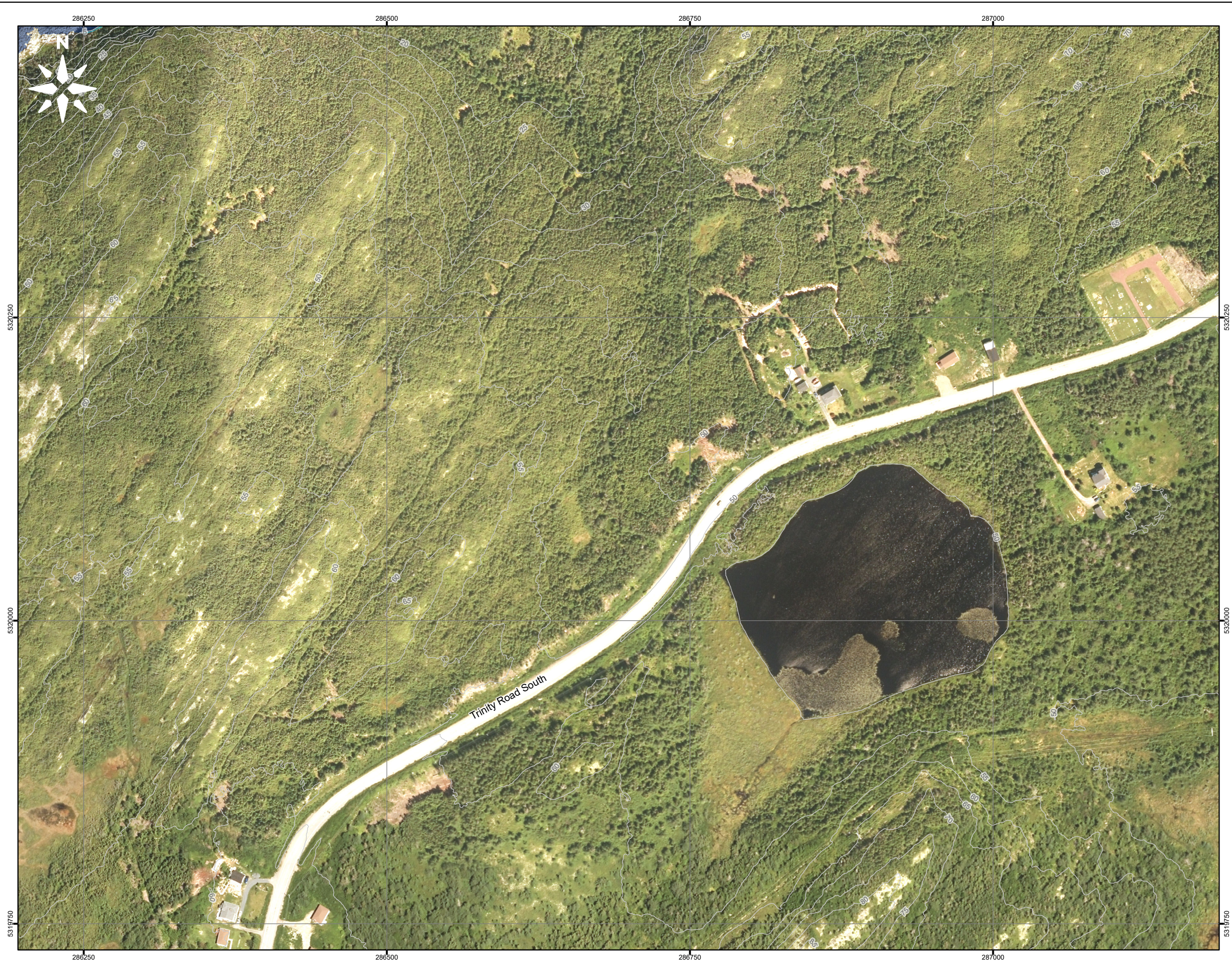
- LEGEND:**
- 1:20 Year Wave Run Up
 - 1:100 Year Wave Run Up
 - Coastline
 - 5m LiDAR Contour
 - Limit of Mapping
 - Wave Run Up Transect

- NOTES:**
- Imagery is supplied by the Government of Newfoundland and Labrador. (Capture date: 2020)
 - Topography shown was developed by KGS Group from the HRDEM from Natural Resources Canada (NRCAN). (Capture date: June and July, 2020)



All units are metric and in metres unless otherwise specified.
Horizontal Projection: North American Datum 1983 CSRS (NAD83), Modified Transverse Mercator Projection (MTM) Zone 1. Elevations are in metres above sea level (MSL), Canadian Geodetic Vertical Datum 2013 (CGVD2013).

0	25/12/19	ISSUED WITH FINAL REPORT	ALW	DSB
NO.	YYMMDD	DESCRIPTION	ISSUED BY	CHECK BY
REVISIONS / ISSUE				
				
CLIMATE CHANGE FLOOD HAZARD MAPPING STUDY FOR FERRYLAND, BRIGUS, HEART'S DELIGHT, WINTERTON & HANT'S HARBOUR				
CURRENT CLIMATE AND CURRENT DEVELOPMENT CONDITION (CC-CD)				
WAVE RUN UP - HH-12				
DECEMBER 2025		FIGURE 13.2		REV: 0

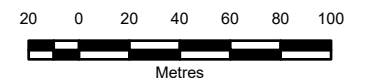


LEGEND:

-  1:20 Year Wave Run Up
-  1:100 Year Wave Run Up
-  Coastline
-  5m LiDAR Contour
-  Limit of Mapping
-  Wave Run Up Transect

NOTES:

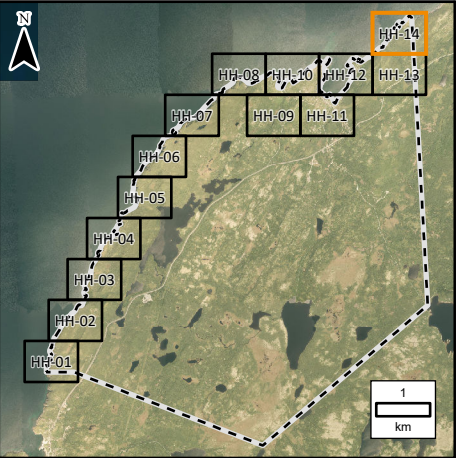
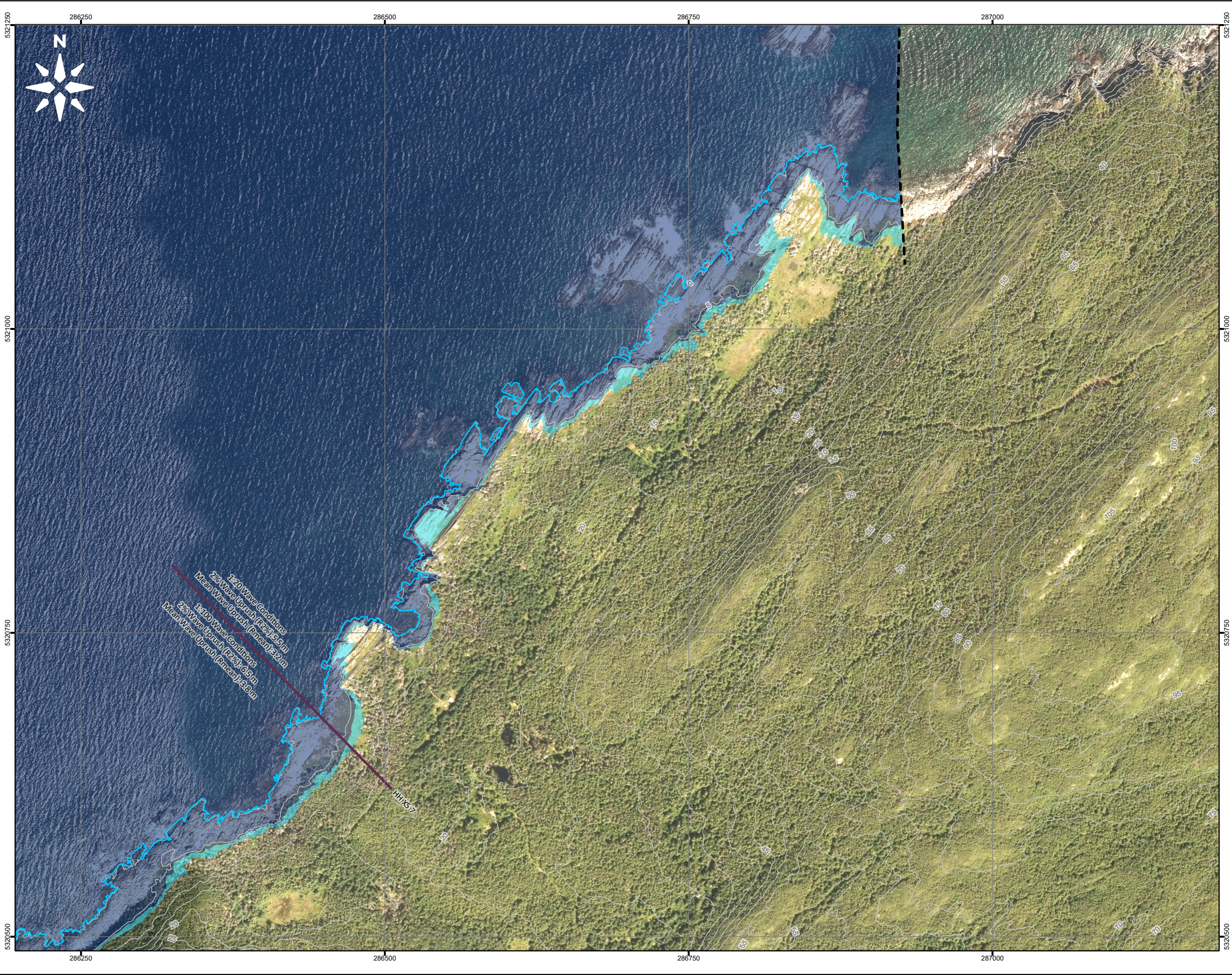
1. Imagery is supplied by the Government of Newfoundland and Labrador. (Capture date: 2020)
2. Topography shown was developed by KGS Group from the HRDEM from Natural Resources Canada (NRCAN). (Capture date: June and July, 2020)



SCALE: 1:3,000 METRIC 11"x17"

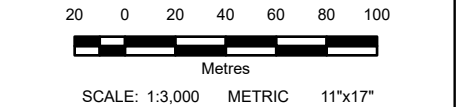
All units are metric and in metres unless otherwise specified.
Horizontal Projection: North American Datum 1983 CSRS (NAD83), Modified Transverse Mercator Projection (MTM)
Zone 1. Elevations are in metres above sea level (MSL),
Canadian Geodetic Vertical Datum 2013 (CGVD2013).

0	25/12/19	ISSUED WITH FINAL REPORT	ALW	DSB
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CLIMATE CHANGE FLOOD HAZARD MAPPING STUDY FOR FERRYLAND, BRIGUS, HEART'S DELIGHT, WINTERTON & HANT'S HARBOUR				
CURRENT CLIMATE AND CURRENT DEVELOPMENT CONDITION (CC-CD) WAVE RUN UP - HH-13				
DECEMBER 2025		FIGURE 13.2		REV: 0



- LEGEND:**
- 1:20 Year Wave Run Up
 - 1:100 Year Wave Run Up
 - Coastline
 - 5m LiDAR Contour
 - Limit of Mapping
 - Wave Run Up Transect

- NOTES:**
- Imagery is supplied by the Government of Newfoundland and Labrador. (Capture date: 2020)
 - Topography shown was developed by KGS Group from the HRDEM from Natural Resources Canada (NRCAN). (Capture date: June and July, 2020)



All units are metric and in metres unless otherwise specified.
Horizontal Projection: North American Datum 1983 CSRS (NAD83), Modified Transverse Mercator Projection (MTM) Zone 1. Elevations are in metres above sea level (MSL), Canadian Geodetic Vertical Datum 2013 (CGVD2013).

0	25/12/19	ISSUED WITH FINAL REPORT	ALW	DSB
NO.	YYMMDD	DESCRIPTION	ISSUED BY	CHECK BY
REVISIONS / ISSUE				
				
CLIMATE CHANGE FLOOD HAZARD MAPPING STUDY FOR FERRYLAND, BRIGUS, HEART'S DELIGHT, WINTERTON & HANT'S HARBOUR				
CURRENT CLIMATE AND CURRENT DEVELOPMENT CONDITION (CC-CD)				
WAVE RUN UP - HH-14				
DECEMBER 2025		FIGURE 13.2		REV: 0