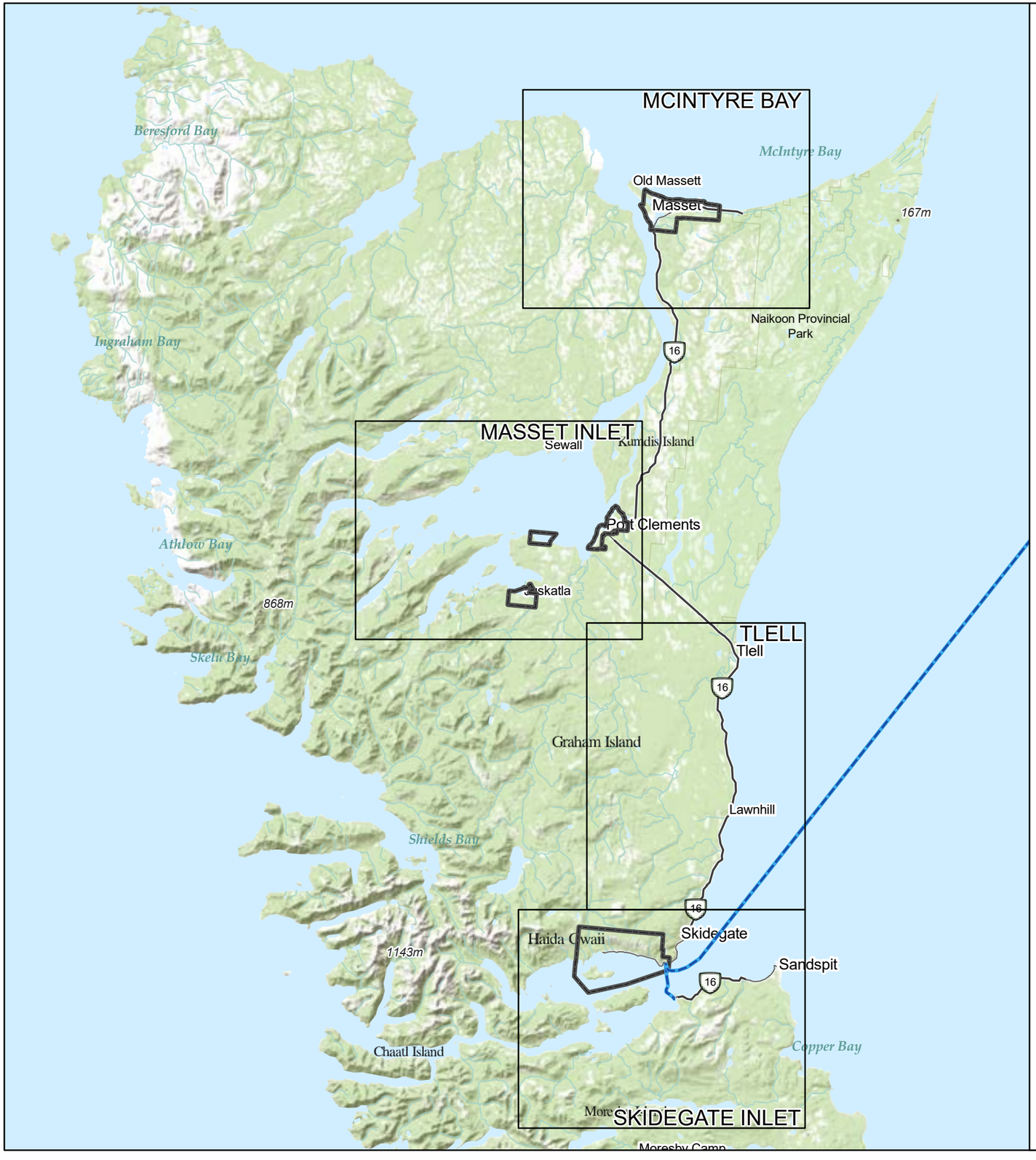


Notes to Users

1. Please refer to the **Disclaimer** below.
2. Please review the associated project report before referring to the maps: Northwest Hydraulic Consultants Ltd. (NHC). 2022. 'Haida Gwaii Coastal Flood and Erosion Study – Planning for Sea Level Rise and Tsunami Hazards'. Report prepared for North Coast Regional District, Village of Masset, Village of Port Clements, and Village of Daajing Giids. NHC project number 3006196.
3. Tsunami model results shown correspond to an earthquake with a magnitude of 9.0 from the Cascadia Subduction Zone. Please refer to the project report for additional information on tsunami source.
4. Initial water level for tsunami simulations performed to produce these maps consists of Higher High Water Mean Tide (HHWMT) with one metre of sea-level rise. HHWMT is defined as the average from all the higher high waters from 19 years of tidal predictions and varies from one location to another. Please refer to the project report for information on tide levels.
5. Information shown on maximum tsunami amplitude maps corresponds to model results of maximum water surface elevation above a reference plane corresponding to HHWMT. Over the ocean this information corresponds to the maximum tsunami amplitude, which is defined as the vertical distance of the tsunami wave crest above the reference plane. Overland this information corresponds to the maximum tsunami runup, which is defined as the vertical distance of the leading edge (most upland reach) of the tsunami flow above the reference plane.
6. No safety factor or freeboard was applied to the results shown on these maps. Any inundation visible on these maps correspond to the inundation as estimated by the numerical model without any adjustment and should be considered as indicative only. For inundation extents, refer to maps of tsunami inundation level for emergency planning to which a safety factor is applied.
7. The accuracy of the model results mapped is limited by the accuracy of the available bathymetric and topographic data as well as uncertainties associated to the numerical modelling approach used. Please refer to the project report for a discussion on modelling and mapping limitations.
8. These maps provide results for one possible tsunami scenario with associated earthquake magnitude and rupture mechanism. Tsunami hazards and associated effects can vary for different tsunami scenarios that may occur.
9. The influence stream flow may have on the propagation of tsunamis up rivers and creeks was not included in the numerical model.

Data Sources and References

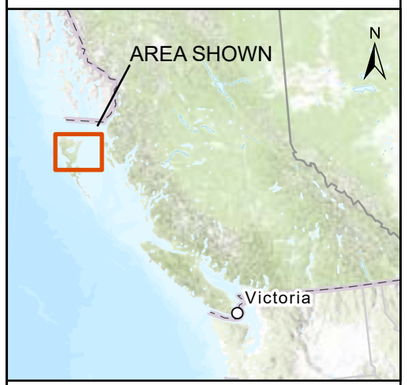
1. Topographic basemaps from Esri Canada, Natural Resources Canada, and Esri Canadian Community Maps contributors.
2. Ferry route and municipal boundary data from GeoBC.
3. Coastline and riverbanks from GeoBC 1:20,000 scale Freshwater Atlas data.

Disclaimer

NORTH COAST REGIONAL DISTRICT

Village of Daajing Giids

nhc northwest hydraulic consultants



REGIONAL (1:100,000) SCALE MAP SHEET
FERRY ROUTE
MUNICIPAL BOUNDARY

SCALE - 1:500,000
0 5 10 15 20 km
N

Coord.Sys.: NAD 1983 BC ENVIRONMENT ALBERS; Units: METRES

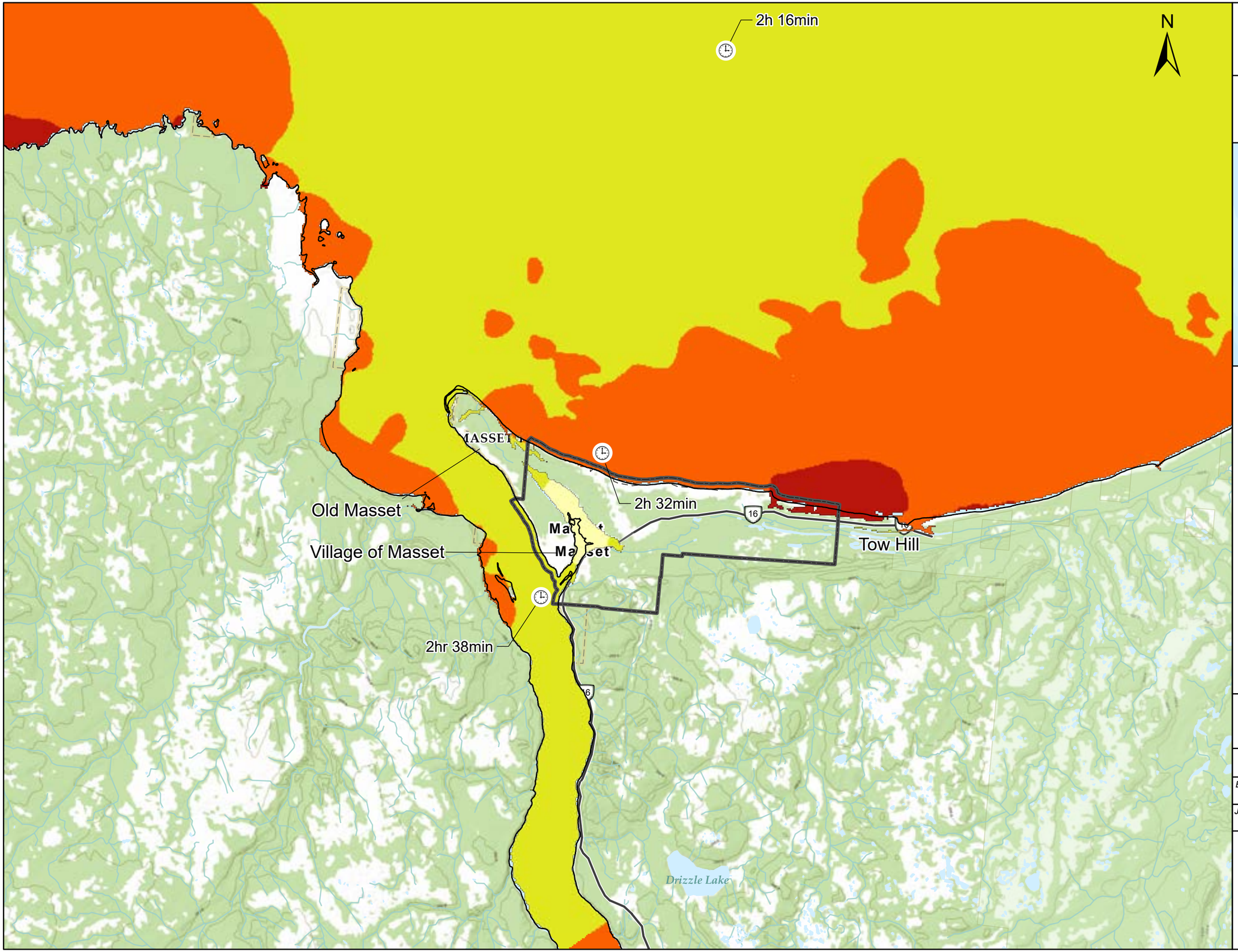
Engineer	GIS	Reviewer
PSG	SWM	GFL

Job Number	Date
3006196	06-JAN-2023

HAIDA GWAII COASTAL FLOOD AND EROSION HAZARD STUDY

MAXIMUM TSUNAMI AMPLITUDE CASCADIA TSUNAMI INDEX & NOTES

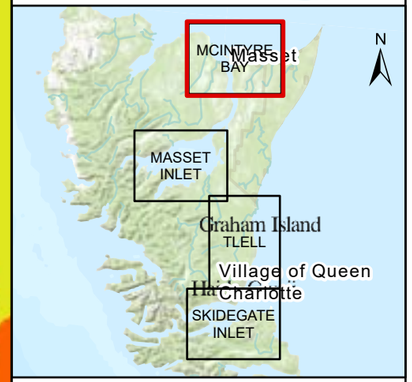
SWM, \\mainfile-van\Projects\Active\3006196 Haida Gwaii Coastal Flood & Tsunami\95 GIS\3006196_Maps_MapRegional2.aprx



NORTH COAST REGIONAL DISTRICT

Village of Daajing Giids

nhc



MAX TSUNAMI AMPLITUDE

- 0 - 0.5 m
- 0.5 - 1 m
- 1 - 2 m
- 2 - 4 m
- 4 - 6 m
- >6 m

TSUNAMI ARRIVAL TIME

APPROXIMATE COASTLINE

MUNICIPAL BOUNDARY

1. *REFER TO INDEX MAP FOR COMPLETE NOTES.*
2. *NO SAFETY FACTOR OR FREEBOARD WAS APPLIED TO THE RESULTS SHOWN. FOR INUNDATION EXTENTS, REFER TO MAPS OF TSUNAMI INUNDATION LEVEL FOR EMERGENCY PLANNING.*

SCALE - 1:100,000

0 1 2 3 4 km

N

Coord.Sys.: NAD 1983 BC ENVIRONMENT ALBERS; Units: METRES; Amplitude Referenced to HHWMT

Engineer	GIS	Reviewer
PSG	SWM	GFL

Job Number	Date
3006196	06-JAN-2023

HAIDA GWAII COASTAL FLOOD AND EROSION HAZARD STUDY

MCINTYRE BAY
MAXIMUM TSUNAMI AMPLITUDE
CASCADIA TSUNAMI

SHEET 1 OF 4

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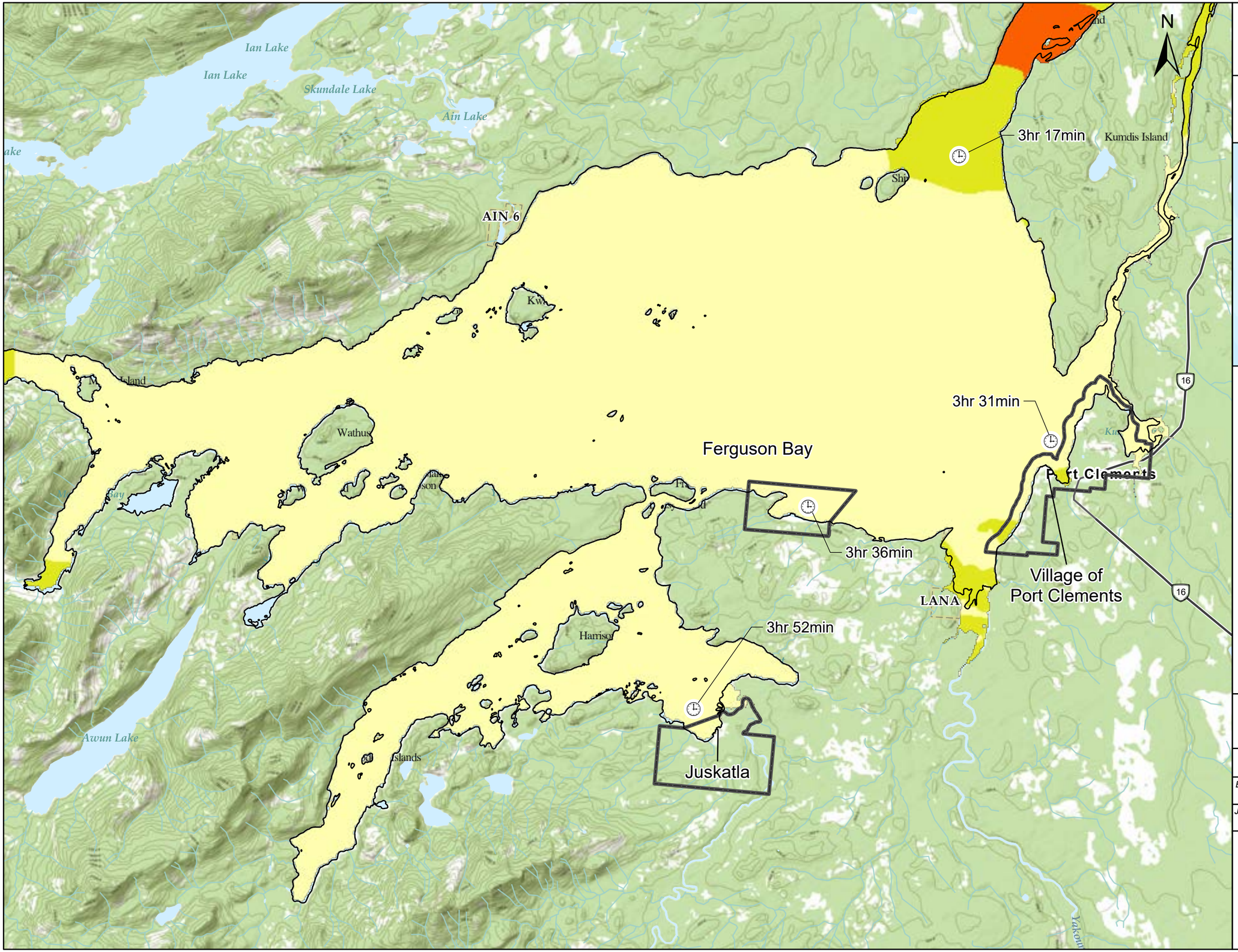
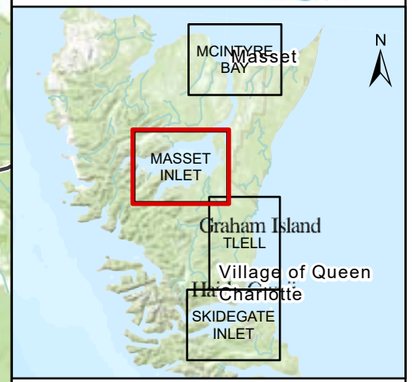


NORTH COAST REGIONAL DISTRICT

Village of Daajing Giids

nhc



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- 0.5 - 1 m
- 1 - 2 m
- 2 - 4 m
- 4 - 6 m
- >6 m

TSUNAMI ARRIVAL TIME

APPROXIMATE COASTLINE

MUNICIPAL BOUNDARY

1. REFER TO INDEX MAP FOR COMPLETE NOTES.
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SCALE - 1:100,000

0 1 2 3 4 km

N

Coord.Sys.: NAD 1983 BC ENVIRONMENT ALBERS; Units: METRES; Amplitude Referenced to HHWMT

Engineer	GIS	Reviewer
PSG	SWM	GFL

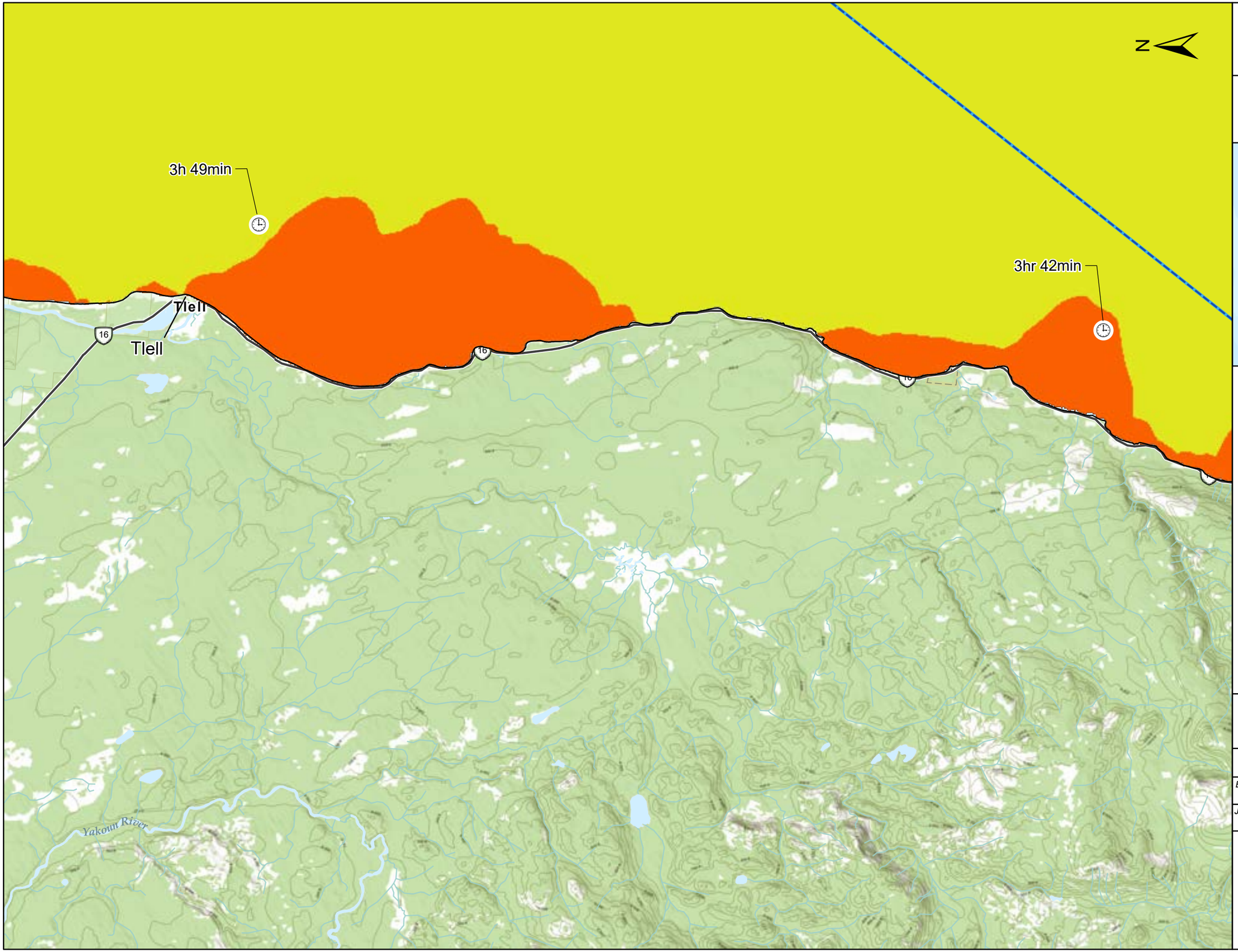
Job Number	Date
3006196	06-JAN-2023

HAIDA GWAII COASTAL FLOOD AND EROSION HAZARD STUDY

MASSET INLET
MAXIMUM TSUNAMI AMPLITUDE
CASCADIA TSUNAMI

SHEET 2 OF 4

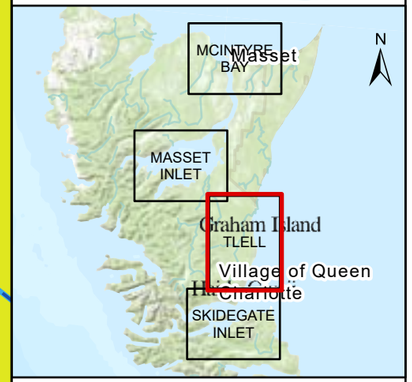
SWM, \\mainfile-van\Projects\Active\3006196 Haida Gwaii Coastal Flood & Tsunami\95 GIS\3006196_Maps_MapRegional2.aprx



NORTH COAST REGIONAL DISTRICT

Village Of Daajing Giids

nhc



MAX TSUNAMI AMPLITUDE

- 0 - 0.5 m
- 0.5 - 1 m
- 1 - 2 m
- 2 - 4 m
- 4 - 6 m
- >6 m

TSUNAMI ARRIVAL TIME

APPROXIMATE COASTLINE

FERRY ROUTE

MUNICIPAL BOUNDARY

1. *REFER TO INDEX MAP FOR COMPLETE NOTES.*
2. *NO SAFETY FACTOR OR FREEBOARD WAS APPLIED TO THE RESULTS SHOWN. FOR INUNDATION EXTENTS, REFER TO MAPS OF TSUNAMI INUNDATION LEVEL FOR EMERGENCY PLANNING.*

SCALE - 1:100,000

0 1 2 3 4 km

Coord.Sys.: NAD 1983 BC ENVIRONMENT ALBERS; Units: METRES; Amplitude Referenced to HHWMT

Engineer	GIS	Reviewer
PSG	SWM	GFL

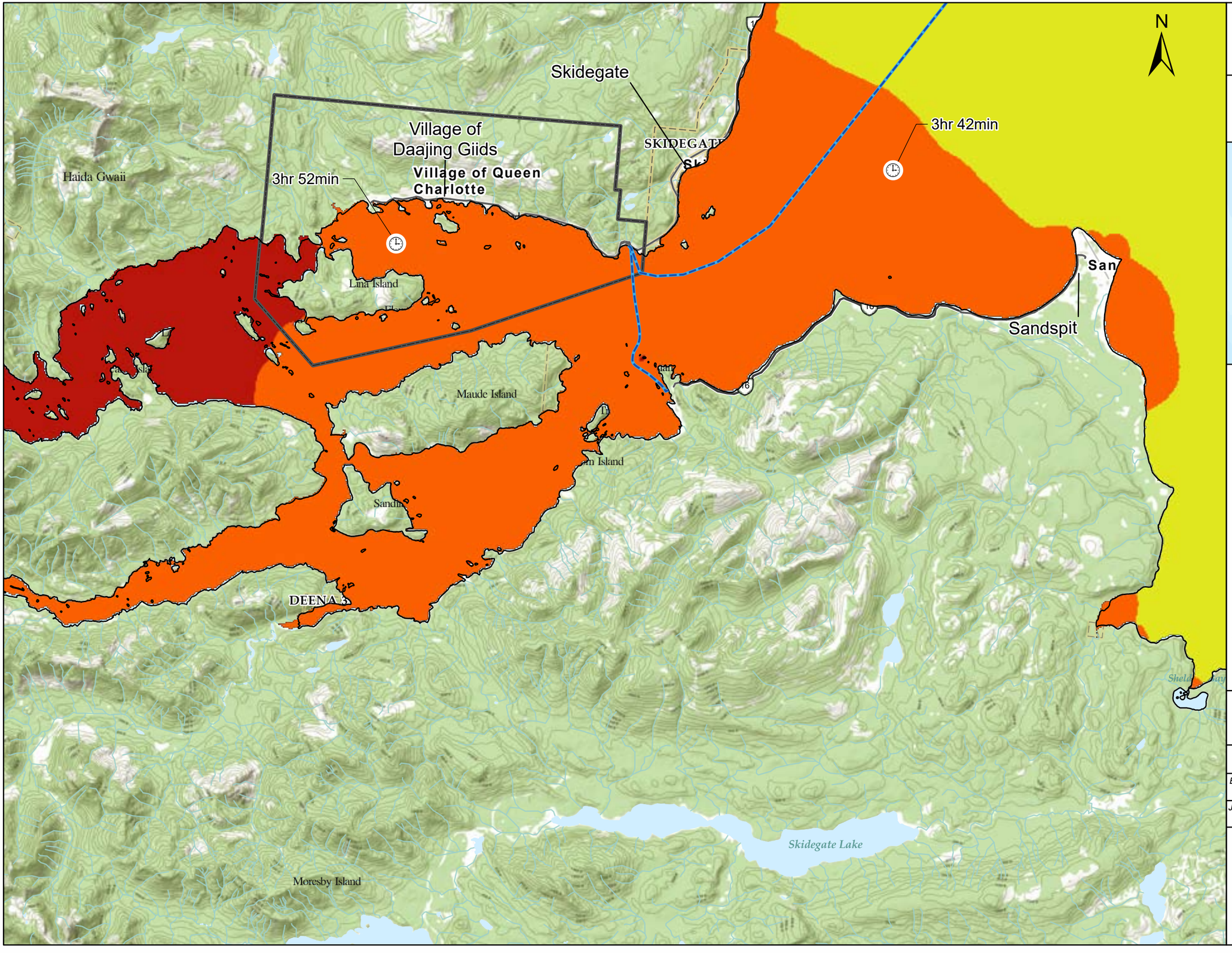
Job Number	Date
3006196	06-JAN-2023

HAIDA GWAII COASTAL FLOOD AND EROSION HAZARD STUDY

TLELL
MAXIMUM TSUNAMI AMPLITUDE
CASCADIA TSUNAMI

SHEET 3 OF 4

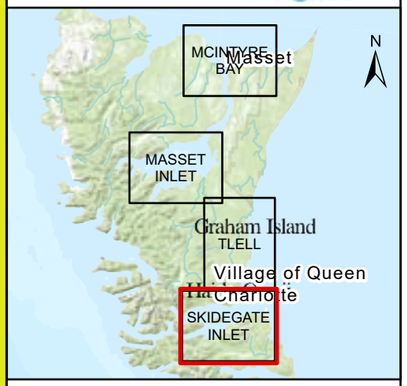
SWM, \\mainfile-van\Projects\Active\3006196 Haida Gwaii Coastal Flood & Tsunami\95 GIS\3006196_Maps_MapRegional2.aprx



NORTH COAST REGIONAL DISTRICT

Village of Daajing Giids

nhc



MAX TSUNAMI AMPLITUDE

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TSUNAMI ARRIVAL TIME

APPROXIMATE COASTLINE

FERRY ROUTE

MUNICIPAL BOUNDARY

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SCALE - 1:100,000

0 1 2 3 4 km

N

Coord.Sys.: NAD 1983 BC ENVIRONMENT ALBERS; Units: METRES; Amplitude Referenced to HHWMT

Engineer	GIS	Reviewer
PSG	SWM	GFL

Job Number	Date
3006196	06-JAN-2023

HAIDA GWAII COASTAL FLOOD AND EROSION HAZARD STUDY

SKIDEGATE INLET
MAXIMUM TSUNAMI AMPLITUDE
CASCADIA TSUNAMI

SHEET 4 OF 4

SWM, \\mainfile-van\Projects\Active\3006196 Haida Gwaii Coastal Flood & Tsunami\95 GIS\3006196_Maps_MapRegional2.aprx