



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), 2023. 'Northwest Vancouver Island Tsunami Risk Assessment (Phase 2)'. Report prepared for Ocean Networks Canada. NHC project number 3006332.
3. Tsunami model results shown correspond to an earthquake with a magnitude of 9.2 from the Alaska-Aleutian Subduction Zone. Please refer to the project report for additional information on tsunami source.
4. Initial water level for tsunami simulations consists of current-day Higher High Water Mean Tide (HHWMT) which at Winter Harbour and Gold River terminal correspond to an elevation of 1.5 m above the Canadian Geodetic Vertical Datum of 2013 (CGVD2013). HHWMT is defined as the average from all the higher high waters from 19 years of tidal predictions.
5. These maps show the tsunami inundation as predicted by the numerical model as well as the tsunami inundation level for emergency planning which includes a safety factor. This safety factor was applied by increasing by 50% the vertical distance of the maximum water surface above a reference plane corresponding to HHWMT. Inundation levels mapped do not include any freeboard or any setback.
6. The accuracy of the inundation extents 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 study limitations.
7. The accuracy of inundation mapping is limited by the accuracy of the available orthoimagery basemap. Horizontal shifts between mapping and the basemap vary approximately from 5 m up to 20 m. Please refer to the project report for a discussion on study limitations.
8. These maps provide results for one possible tsunami scenario with associated earthquake magnitude and subduction zone rupture mechanism. Tsunami hazards and associated effects can vary for different tsunami scenarios that may occur.
9. These maps do not reflect all risks associated with a tsunami. Strong currents and debris mobilized from shorelines can be significant hazards.
10. Service roads and/or resource roads shown on these maps may be decommissioned and overgrown with vegetation inhibiting their use. The status of such roads should be reviewed as part of evacuation planning. These maps may not show all roads and pathways which may be considered for evacuation planning.
11. The influence stream flow may have on the propagation and inundation of tsunamis in rivers and creeks was not included in the numerical model.

Data Sources and References

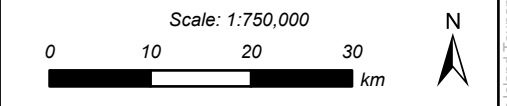
1. Topographic basemaps from Esri Canada, Natural Resources Canada, and Esri Canadian Community Maps contributors.
2. Imagery basemaps from Esri and Maxar.
3. First Nation administrative boundaries based on GeoBC data with adjustments by NHC and should be considered as approximate only.
4. Road locations and classification based on GeoBC Digital Roads Atlas with adjustments by NHC and should be considered approximate only.
5. Ferry route, municipal boundary, and regional district boundary data from GeoBC.

Disclaimer

These maps have been prepared by **Northwest Hydraulic Consultants Ltd.** for the benefit of **Ocean Networks Canada Society and The Lake Family's All One Fund** for specific application to the **Northwest Vancouver Island Tsunami Risk Assessment Phase II** project undertaken to support emergency planning in Nootka Sound and Quatsino Sound, British Columbia. The information and data contained herein represent **Northwest Hydraulic Consultants Ltd.**'s best professional judgement in light of the knowledge and information available to **Northwest Hydraulic Consultants Ltd.** at the time of preparation and was prepared in accordance with generally accepted engineering and geoscience practices. Except as required by law, these maps and the information and data contained herein are for the information of **Ocean Networks Canada Society and The Lake Family's All One Fund**, their officers, and employees. **Northwest Hydraulic Consultants Ltd.** denies any liability whatsoever to other parties who may obtain access to these maps for any injury, loss, or damage suffered by such parties arising from their use of or reliance upon these maps or any of their contents.



- 1:5,000 INUNDATION MAP SHEET
- REGIONAL DISTRICT BOUNDARY
- FERRY ROUTE

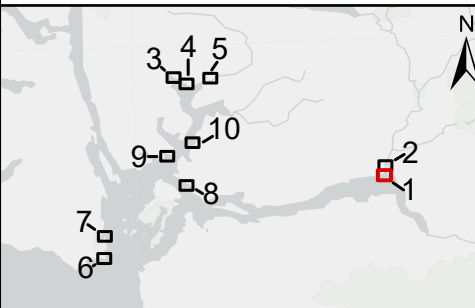
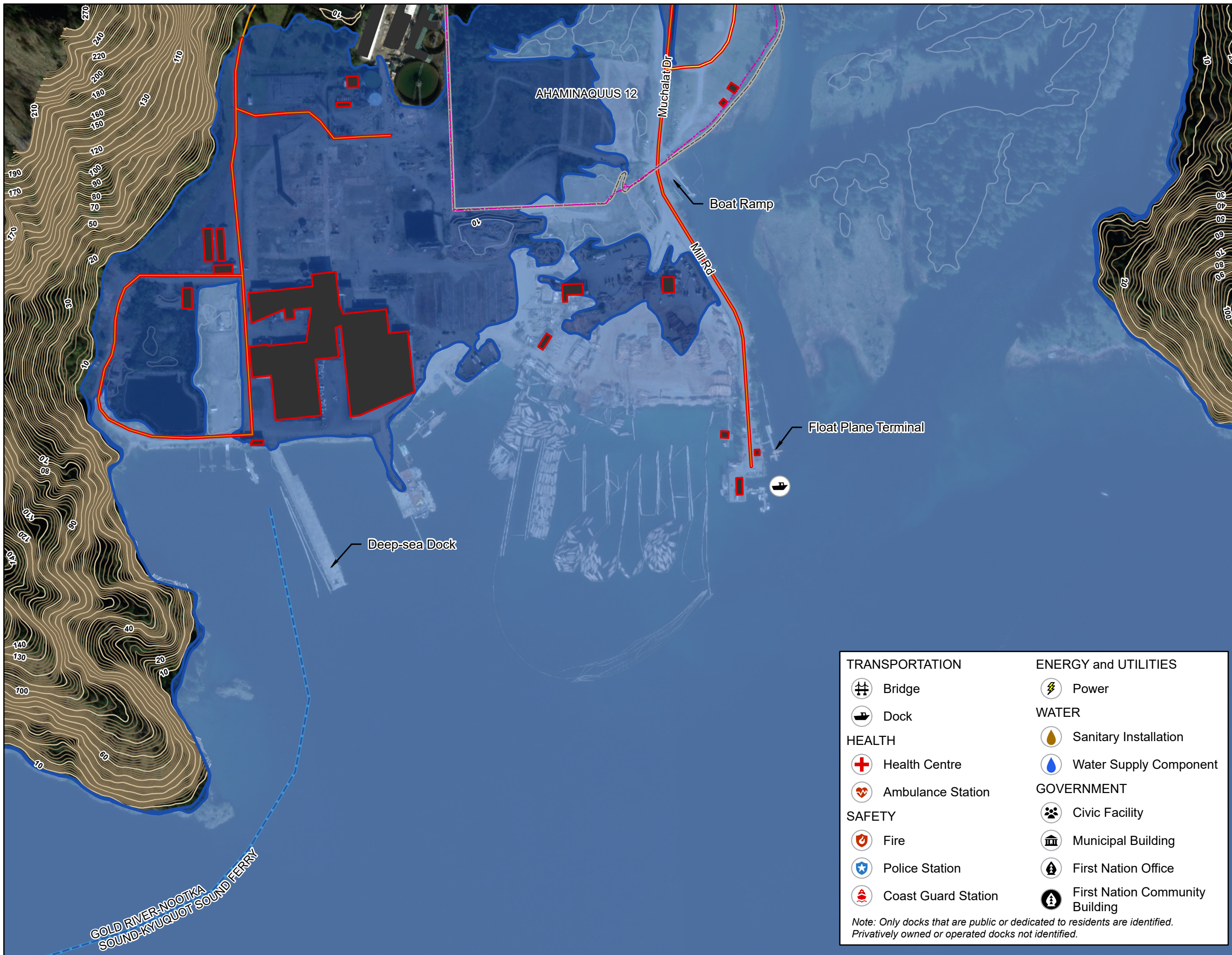


Coordinate System: NAD 1983 CSRS UTM ZONE 9N
Units: METRES

Engineer	PSG	GIS	SWM	Reviewer	GFL
Job Number	3006332			Date	07-JUL-2023

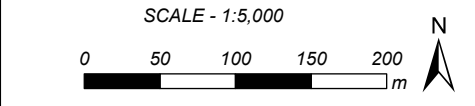
**NORTHWEST VANCOUVER ISLAND
TSUNAMI RISK ASSESSMENT PROJECT**

**INUNDATION LEVEL FOR
EMERGENCY PLANNING
ALASKA TSUNAMI
MAP INDEX & NOTES**



- FERRY ROUTE
- PAVED ROAD
- UNPAVED ROAD
- INUNDATED PAVED ROAD
- INUNDATED UNPAVED ROAD
- BUILDING
- INUNDATED BUILDING
- INUNDATION EXTENTS WITH SAFETY FACTOR
- INUNDATION EXTENTS WITHOUT SAFETY FACTOR
- FIRST NATION ADMINISTRATIVE BOUNDARY
- MUNICIPAL BOUNDARY
- PROVINCIAL PARK
- MAJOR CONTOUR AT 10 m INTERVAL
labelled with elevation in metres
- MINOR CONTOUR AT 2 m INTERVAL

REFER TO INDEX MAP FOR COMPLETE NOTES.
 A SAFETY FACTOR WAS APPLIED TO OBTAIN THE TSUNAMI INUNDATION LEVEL FOR EMERGENCY PLANNING.
 EFFECTS OF CLIMATE CHANGE-INDUCED SEA LEVEL RISE NOT INCLUDED.
 OVERWATER HAZARDS SUCH AS STRONG CURRENT VELOCITY NOT SHOWN ON THE INUNDATION MAPS.



Coordinate System: NAD 1983 CSRS UTM ZONE 9N
 Units: METRES; Vertical Datum: CGVD2013

Engineer	PSG	GIS	SWM	Reviewer	GFL
Job Number	3006332		Date	07-JUL-2023	

**NORTHWEST VANCOUVER ISLAND
 TSUNAMI RISK ASSESSMENT PROJECT**

**GOLD RIVER WATERFRONT
 INUNDATION LEVEL FOR
 EMERGENCY PLANNING
 ALASKA TSUNAMI**

TRANSPORTATION	ENERGY and UTILITIES
Bridge	Power
Dock	WATER
HEALTH	Sanitary Installation
Health Centre	Water Supply Component
Ambulance Station	GOVERNMENT
SAFETY	Civic Facility
Fire	Municipal Building
Police Station	First Nation Office
Coast Guard Station	First Nation Community Building

Note: Only docks that are public or dedicated to residents are identified. Privately owned or operated docks not identified.

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TRANSPORTATION

- Bridge
- Dock

HEALTH

- Health Centre
- Ambulance Station

SAFETY

- Fire
- Police Station
- Coast Guard Station

ENERGY and UTILITIES

- Power

WATER

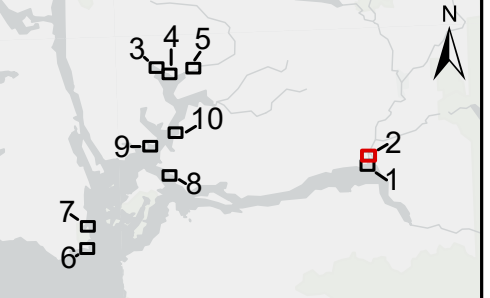
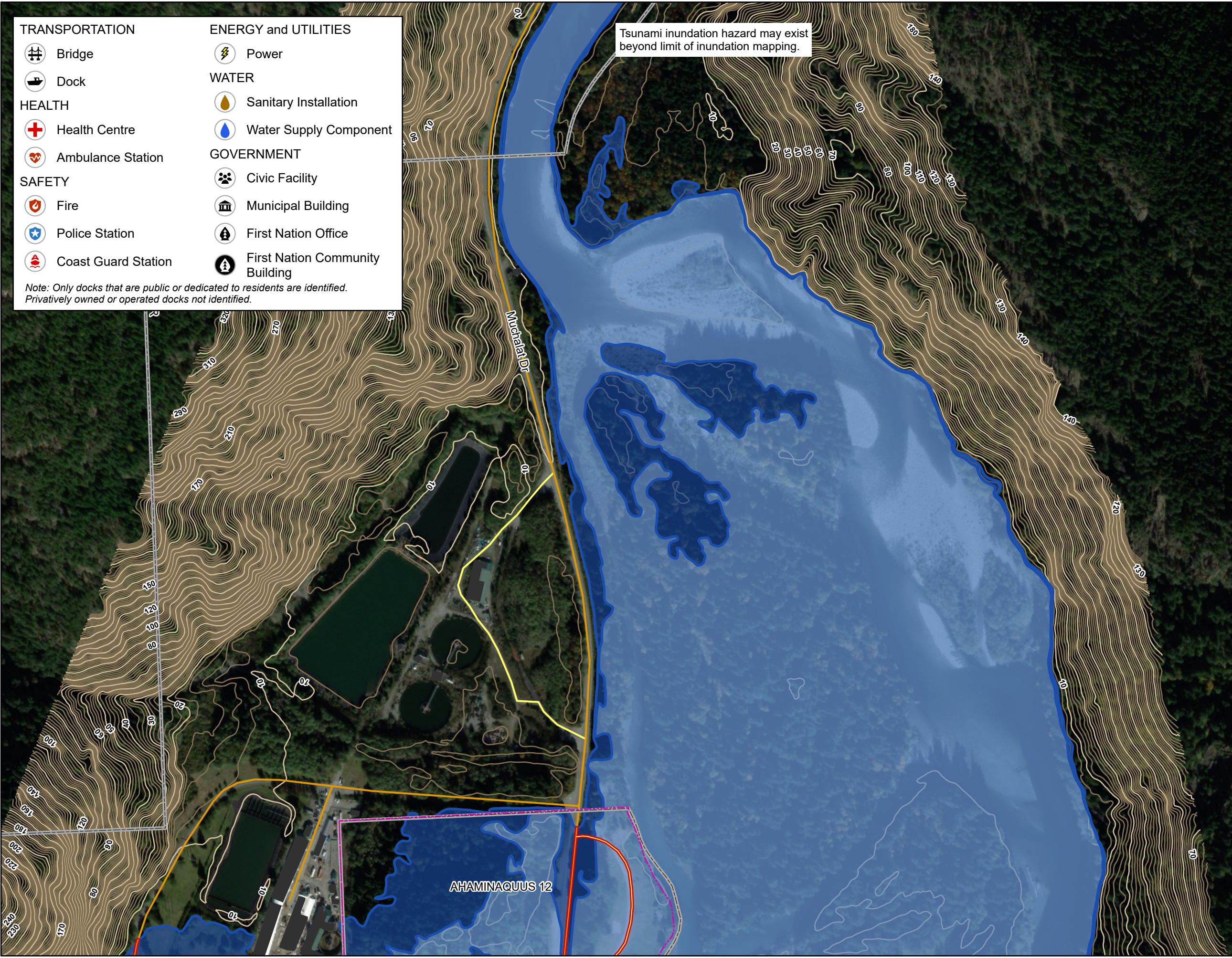
- Sanitary Installation
- Water Supply Component

GOVERNMENT

- Civic Facility
- Municipal Building
- First Nation Office
- First Nation Community Building

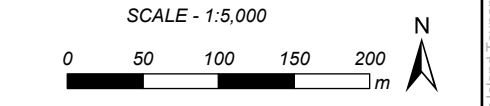
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Tsunami inundation hazard may exist beyond limit of inundation mapping.



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EFFECTS OF CLIMATE CHANGE-INDUCED SEA LEVEL RISE NOT INCLUDED.
OVERWATER HAZARDS SUCH AS STRONG CURRENT VELOCITY NOT SHOWN ON THE INUNDATION MAPS.



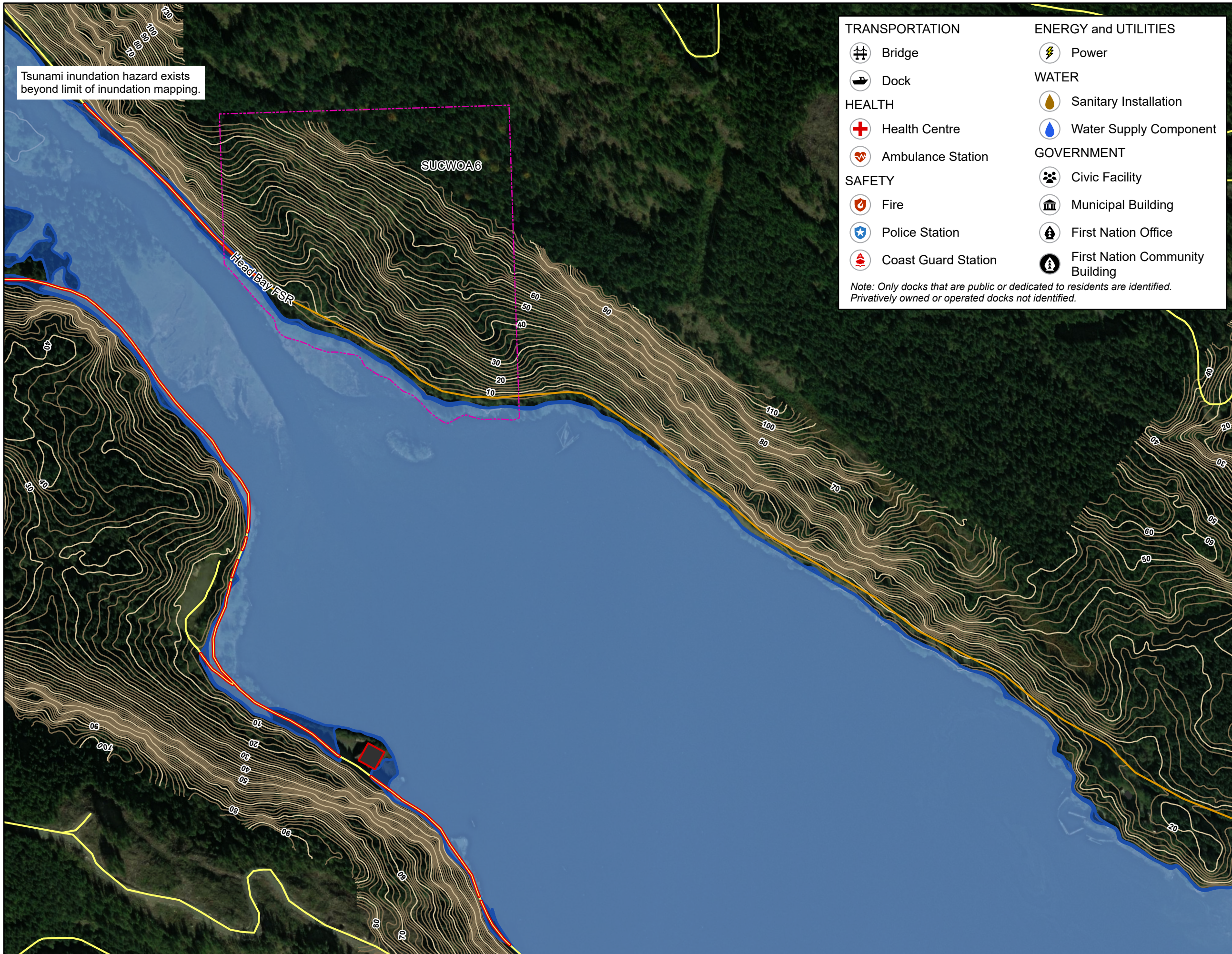
Coordinate System: NAD 1983 CSRS UTM ZONE 9N
Units: METRES; Vertical Datum: CGVD2013

Engineer	PSG	GIS	SWM	Reviewer	GFL
Job Number	3006332		Date	07-JUL-2023	

**NORTHWEST VANCOUVER ISLAND
TSUNAMI RISK ASSESSMENT PROJECT**

**GOLD RIVER HWY
INUNDATION LEVEL FOR
EMERGENCY PLANNING
ALASKA TSUNAMI**

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Tsunami inundation hazard exists beyond limit of inundation mapping.

TRANSPORTATION

- Bridge
- Dock

HEALTH

- Health Centre
- Ambulance Station

SAFETY

- Fire
- Police Station
- Coast Guard Station

ENERGY and UTILITIES

- Power

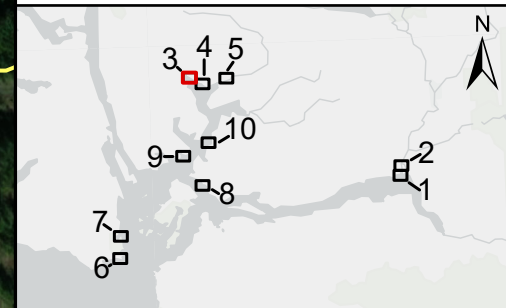
WATER

- Sanitary Installation
- Water Supply Component

GOVERNMENT

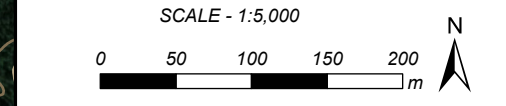
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- First Nation Community Building

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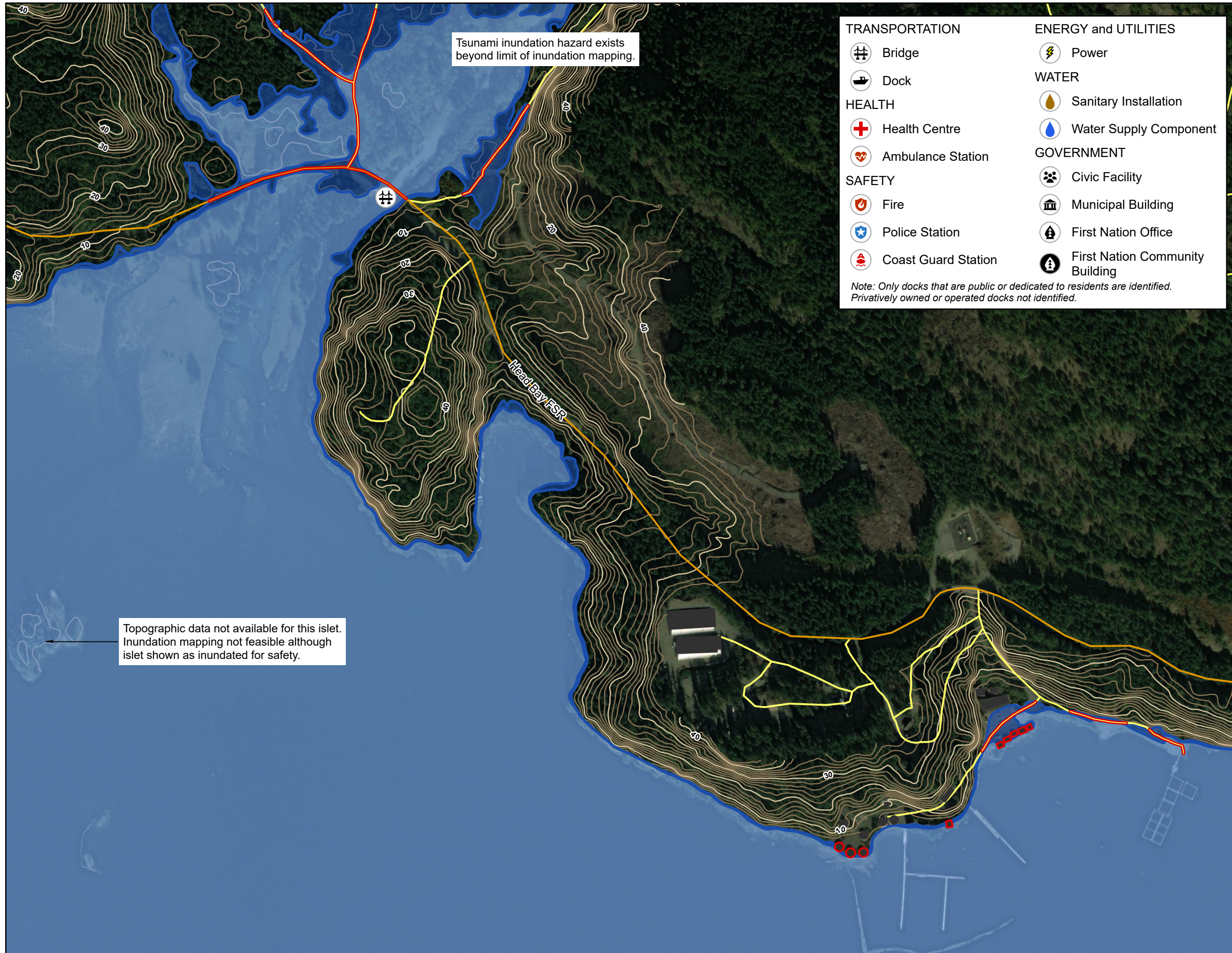
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Engineer	PSG	GIS	SWM	Reviewer	GFL
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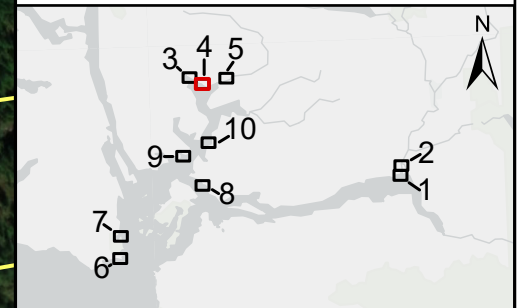
Job Number	3006332	Date	07-JUL-2023
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**NORTHWEST VANCOUVER ISLAND
 TSUNAMI RISK ASSESSMENT PROJECT**
**HEAD BAY
 INUNDATION LEVEL FOR
 EMERGENCY PLANNING
 ALASKA TSUNAMI**

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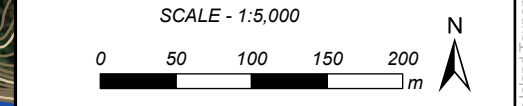


- TRANSPORTATION**
- Bridge
 - Dock
- HEALTH**
- Health Centre
 - Ambulance Station
- SAFETY**
- Fire
 - Police Station
 - Coast Guard Station
- ENERGY and UTILITIES**
- Power
- WATER**
- Sanitary Installation
 - Water Supply Component
- GOVERNMENT**
- Civic Facility
 - Municipal Building
 - First Nation Office
 - First Nation Community Building
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**NORTHWEST VANCOUVER ISLAND
TSUNAMI RISK ASSESSMENT PROJECT**

**CANTON CREEK
INUNDATION LEVEL FOR
EMERGENCY PLANNING
ALASKA TSUNAMI**

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TRANSPORTATION

- Bridge
- Dock

HEALTH

- Health Centre
- Ambulance Station

SAFETY

- Fire
- Police Station
- Coast Guard Station

ENERGY and UTILITIES

- Power

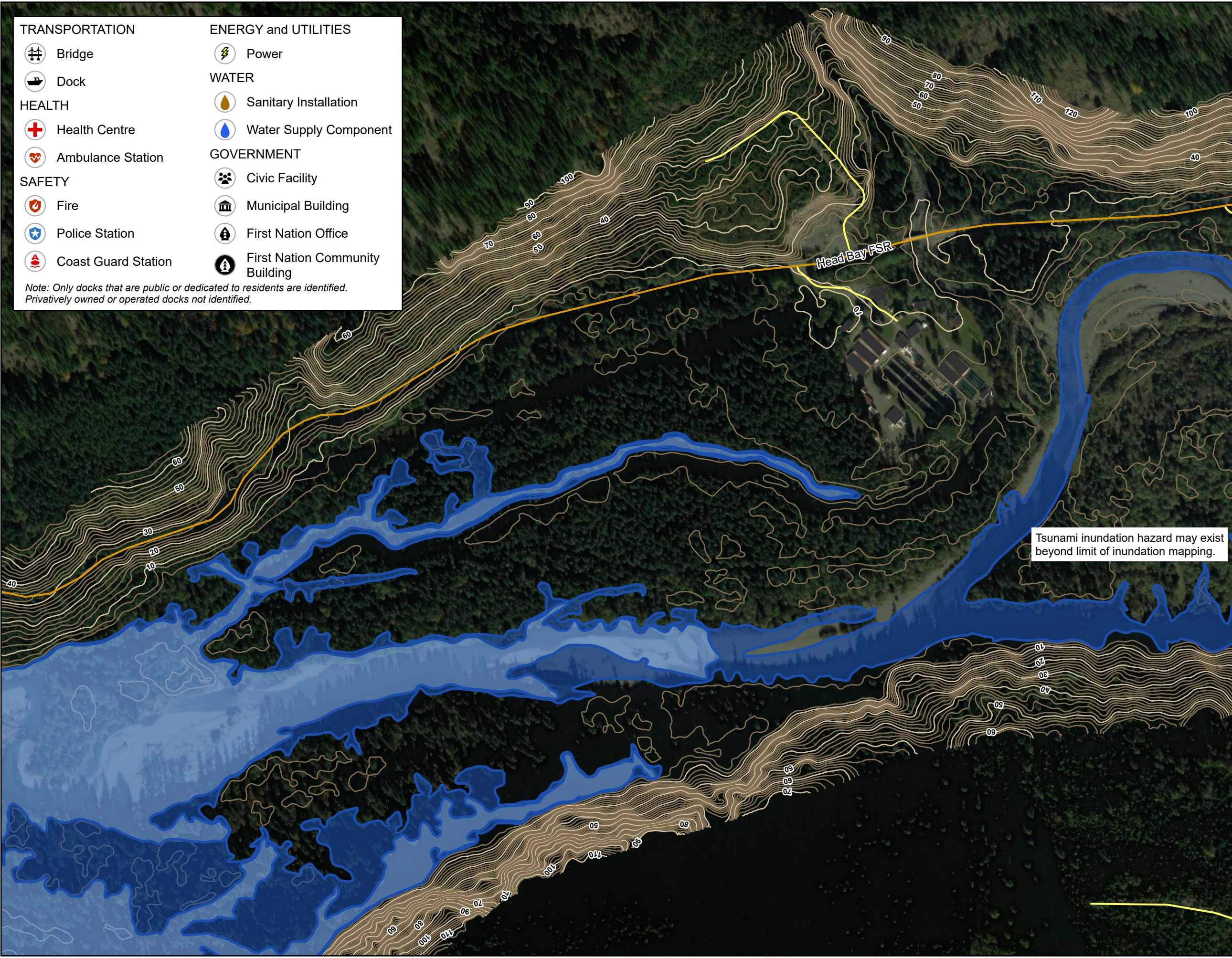
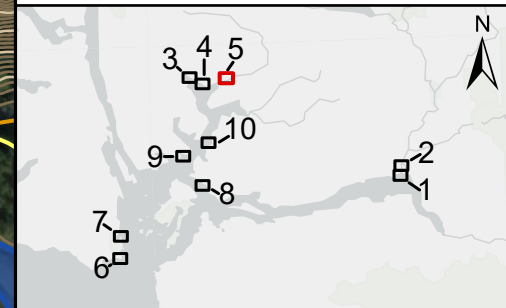
WATER

- Sanitary Installation
- Water Supply Component

GOVERNMENT

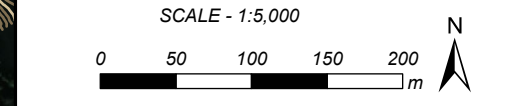
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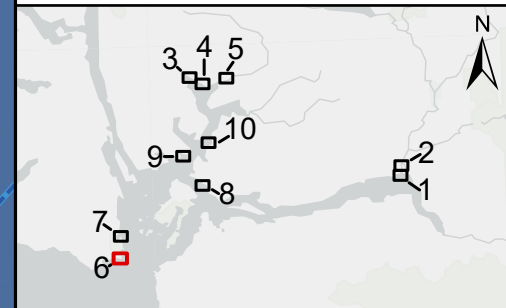
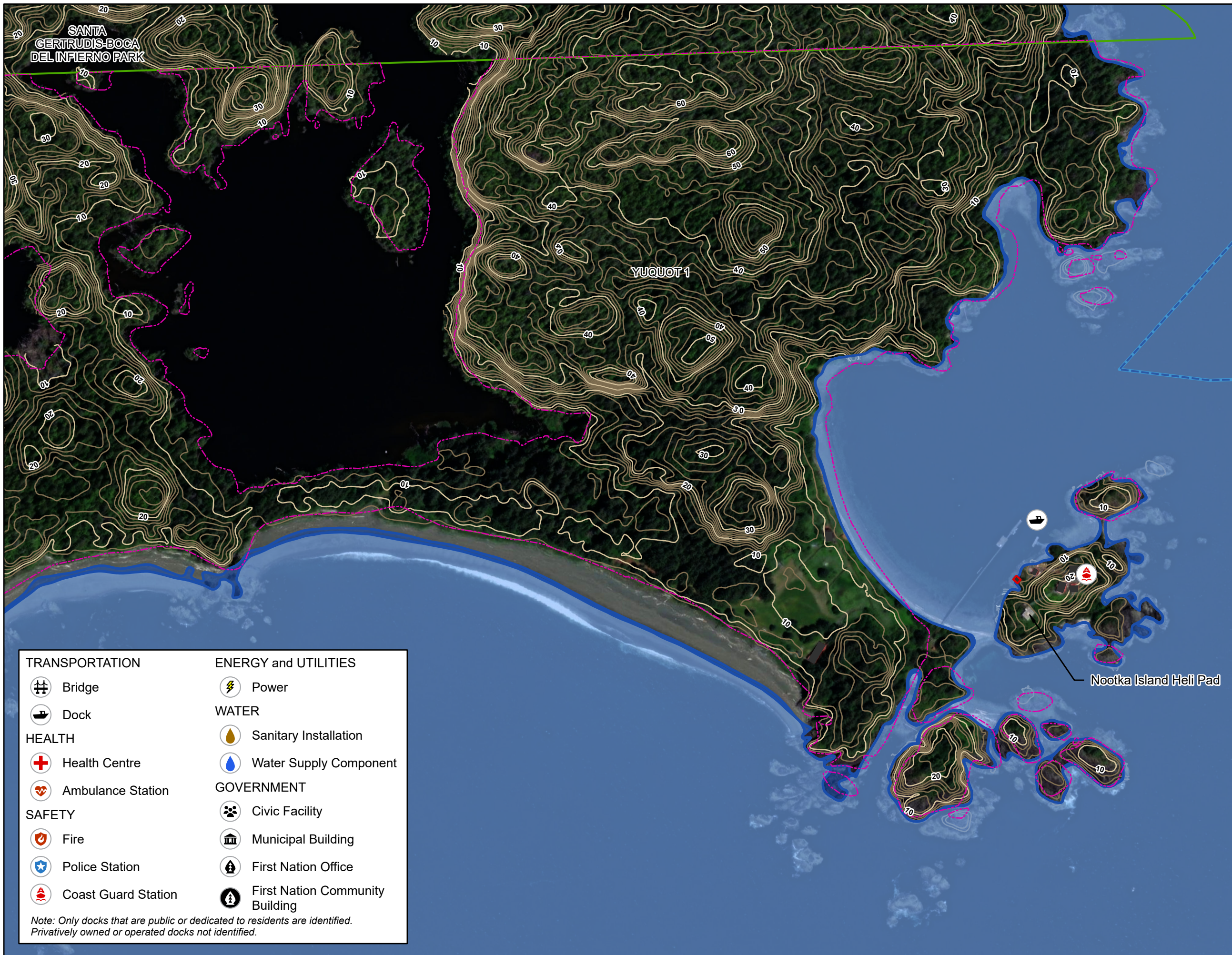
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**NORTHWEST VANCOUVER ISLAND
TSUNAMI RISK ASSESSMENT PROJECT**

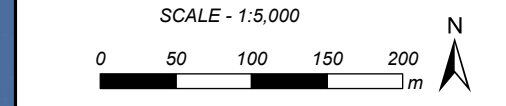
**CONUMA RIVER
INUNDATION LEVEL FOR
EMERGENCY PLANNING
ALASKA TSUNAMI**

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- FERRY ROUTE
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Engineer	PSG	GIS	SWM	Reviewer	GFL
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NORTHWEST VANCOUVER ISLAND
TSUNAMI RISK ASSESSMENT PROJECT

YUQUOT
INUNDATION LEVEL FOR
EMERGENCY PLANNING
ALASKA TSUNAMI

TRANSPORTATION

- Bridge
- Dock
- HEALTH
- Health Centre
- Ambulance Station
- SAFETY
- Fire
- Police Station
- Coast Guard Station

ENERGY and UTILITIES

- Power

WATER

- Sanitary Installation
- Water Supply Component



GOVERNMENT

- Civic Facility
- Municipal Building
- First Nation Office
- First Nation Community Building



Note: Only docks that are public or dedicated to residents are identified. Privately owned or operated docks not identified.

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TRANSPORTATION

-  Bridge
-  Dock

HEALTH

-  Health Centre
-  Ambulance Station



SAFETY

-  Fire
-  Police Station
-  Coast Guard Station





ENERGY and UTILITIES

-  Power

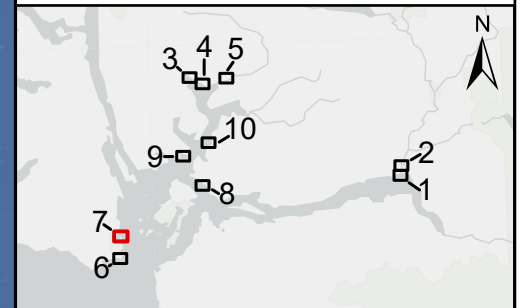
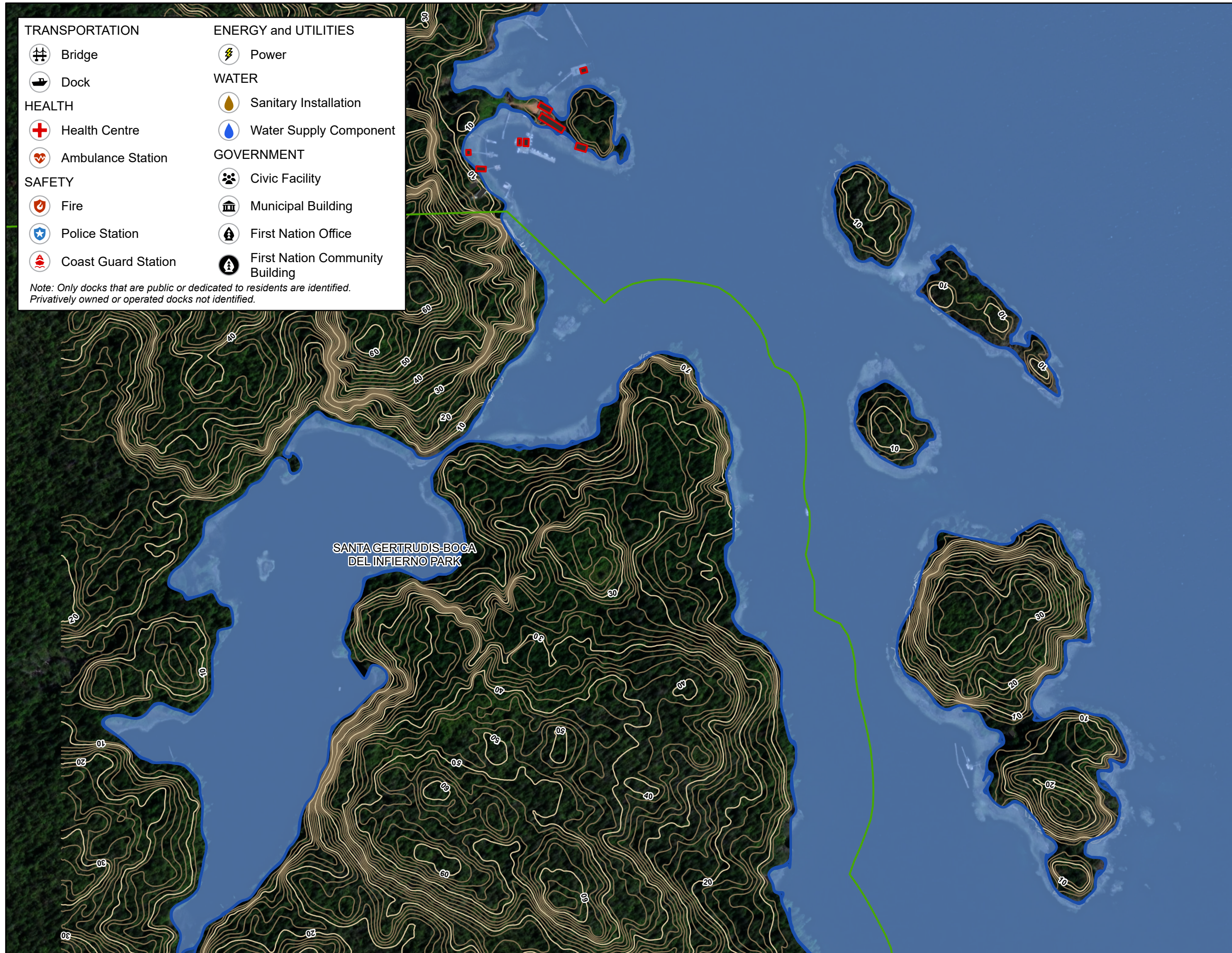
WATER















-  Sanitary Installation
-  Water Supply Component

GOVERNMENT

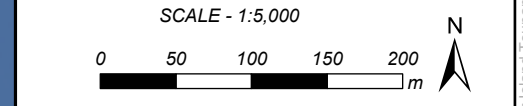
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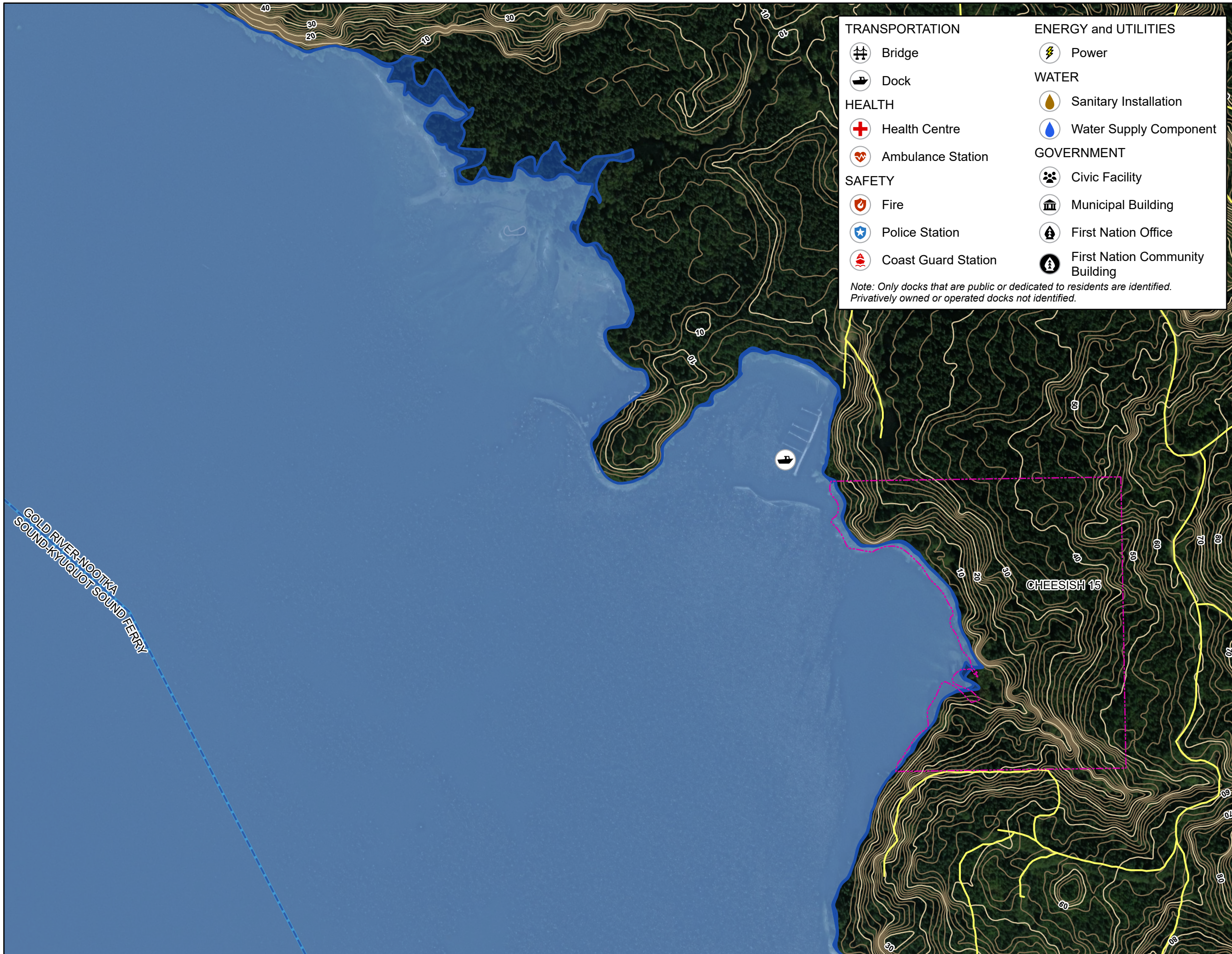
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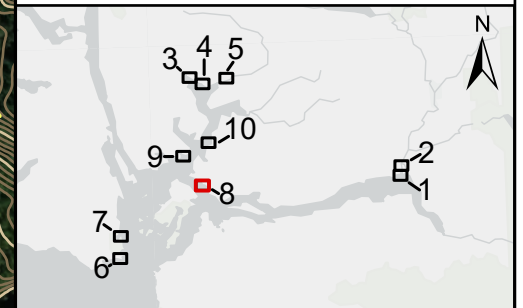
**NORTHWEST VANCOUVER ISLAND
TSUNAMI RISK ASSESSMENT PROJECT**

**MCKAY PASSAGE
INUNDATION LEVEL FOR
EMERGENCY PLANNING
ALASKA TSUNAMI**

SWM: \\mainfile-van\Projects\Active\3006332 NW Vancouver Island Tsunami Risk Assessment - Phase 2\95 GIS\3006332_map_5K_Asset\RiskMapping.aprx

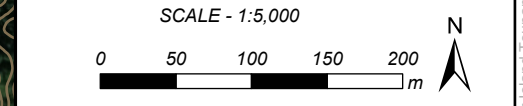


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|-----------------------|---------------------------------|
| TRANSPORTATION | ENERGY and UTILITIES |
| Bridge | Power |
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| HEALTH | Sanitary Installation |
| Health Centre | Water Supply Component |
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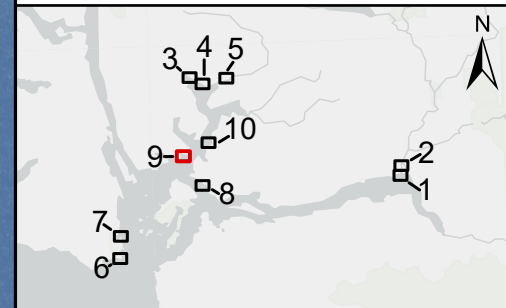
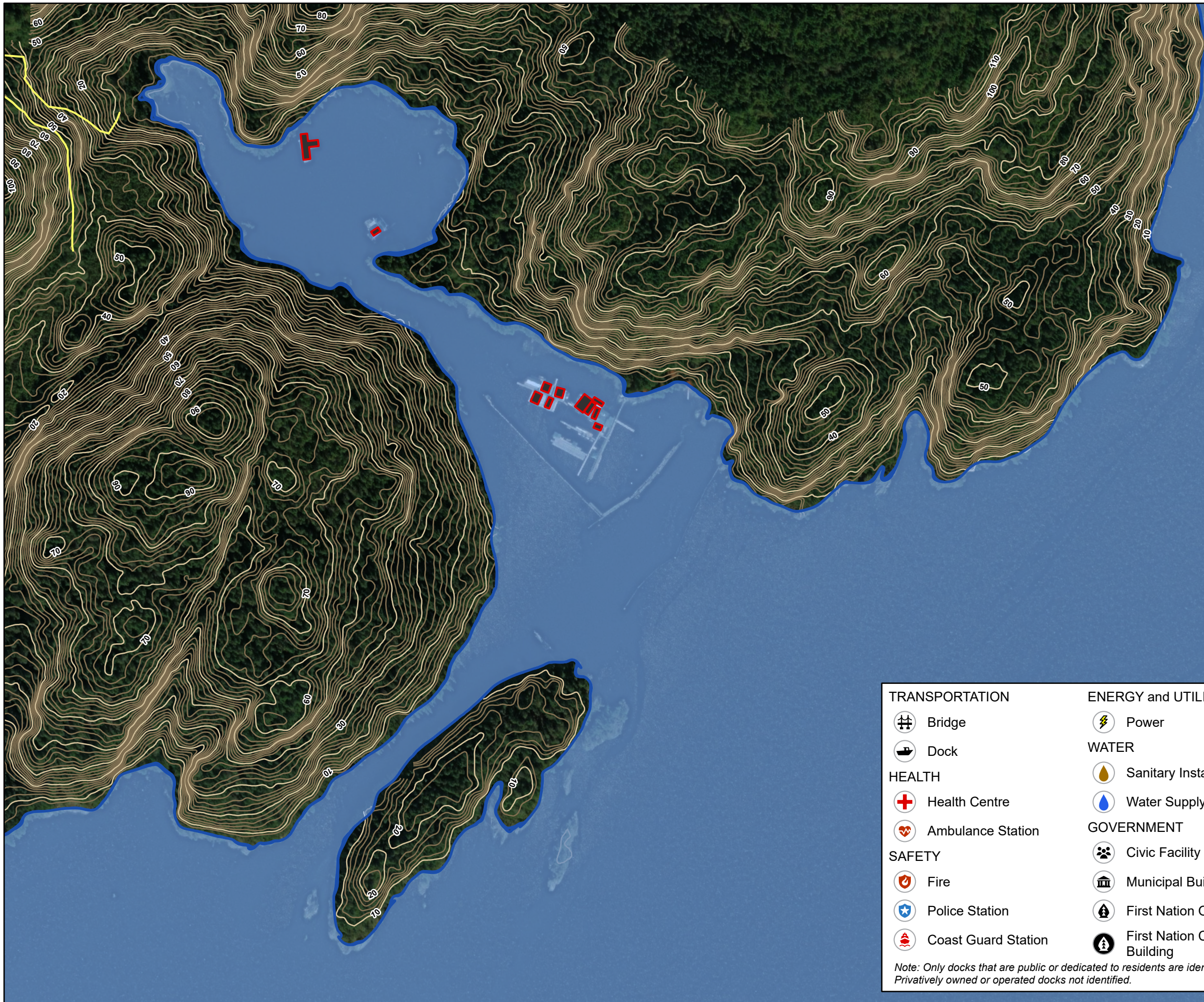
Coordinate System: NAD 1983 CSRS UTM ZONE 9N
 Units: METRES; Vertical Datum: CGVD2013

Engineer	PSG	GIS	SWM	Reviewer	GFL
Job Number	3006332		Date	07-JUL-2023	

**NORTHWEST VANCOUVER ISLAND
 TSUNAMI RISK ASSESSMENT PROJECT**

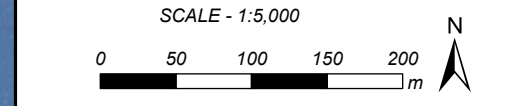
**CHEESISH
 INUNDATION LEVEL FOR
 EMERGENCY PLANNING
 ALASKA TSUNAMI**

SWM: \\mainfile-van\Projects\Active\3006332 NW Vancouver Island Tsunami Risk Assessment - Phase 2\95 GIS\3006332_map_5K_Asset\RiskMapping.aprx



- FERRY ROUTE
- PAVED ROAD
- UNPAVED ROAD
- INUNDATED PAVED ROAD
- INUNDATED UNPAVED ROAD
- BUILDING
- INUNDATED BUILDING
- INUNDATION EXTENTS WITH SAFETY FACTOR
- INUNDATION EXTENTS WITHOUT SAFETY FACTOR
- FIRST NATION ADMINISTRATIVE BOUNDARY
- MUNICIPAL BOUNDARY
- PROVINCIAL PARK
- MAJOR CONTOUR AT 10 m INTERVAL
labelled with elevation in metres
- MINOR CONTOUR AT 2 m INTERVAL

REFER TO INDEX MAP FOR COMPLETE NOTES.
A SAFETY FACTOR WAS APPLIED TO OBTAIN THE TSUNAMI INUNDATION LEVEL FOR EMERGENCY PLANNING. EFFECTS OF CLIMATE CHANGE-INDUCED SEA LEVEL RISE NOT INCLUDED.
OVERWATER HAZARDS SUCH AS STRONG CURRENT VELOCITY NOT SHOWN ON THE INUNDATION MAPS.



Coordinate System: NAD 1983 CSRS UTM ZONE 9N
Units: METRES; Vertical Datum: CGVD2013

Engineer	PSG	GIS	SWM	Reviewer	GFL
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Job Number	3006332	Date	07-JUL-2023
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NORTHWEST VANCOUVER ISLAND
TSUNAMI RISK ASSESSMENT PROJECT

CRITTER COVE
INUNDATION LEVEL FOR
EMERGENCY PLANNING
ALASKA TSUNAMI

- | | |
|-----------------------|---------------------------------|
| TRANSPORTATION | ENERGY and UTILITIES |
| Bridge | Power |
| Dock | WATER |
| HEALTH | Sanitary Installation |
| Health Centre | Water Supply Component |
| Ambulance Station | GOVERNMENT |
| SAFETY | Civic Facility |
| Fire | Municipal Building |
| Police Station | First Nation Office |
| Coast Guard Station | First Nation Community Building |
- Note: Only docks that are public or dedicated to residents are identified. Privately owned or operated docks not identified.*

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TRANSPORTATION

- Bridge
- Dock

HEALTH

- Health Centre
- Ambulance Station

SAFETY

- Fire
- Police Station
- Coast Guard Station

ENERGY and UTILITIES

- Power

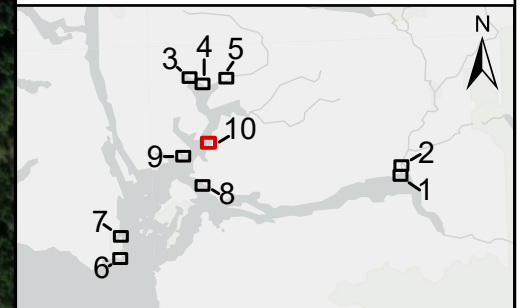
WATER

- Sanitary Installation
- Water Supply Component

GOVERNMENT

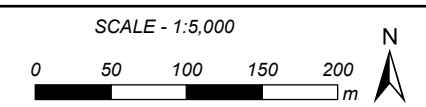
- Civic Facility
- Municipal Building
- First Nation Office
- First Nation Community Building

Note: Only docks that are public or dedicated to residents are identified. Privately owned or operated docks not identified.



- FERRY ROUTE
- PAVED ROAD
- UNPAVED ROAD
- INUNDATED PAVED ROAD
- INUNDATED UNPAVED ROAD
- BUILDING
- INUNDATED BUILDING
- INUNDATION EXTENTS WITH SAFETY FACTOR
- INUNDATION EXTENTS WITHOUT SAFETY FACTOR
- FIRST NATION ADMINISTRATIVE BOUNDARY
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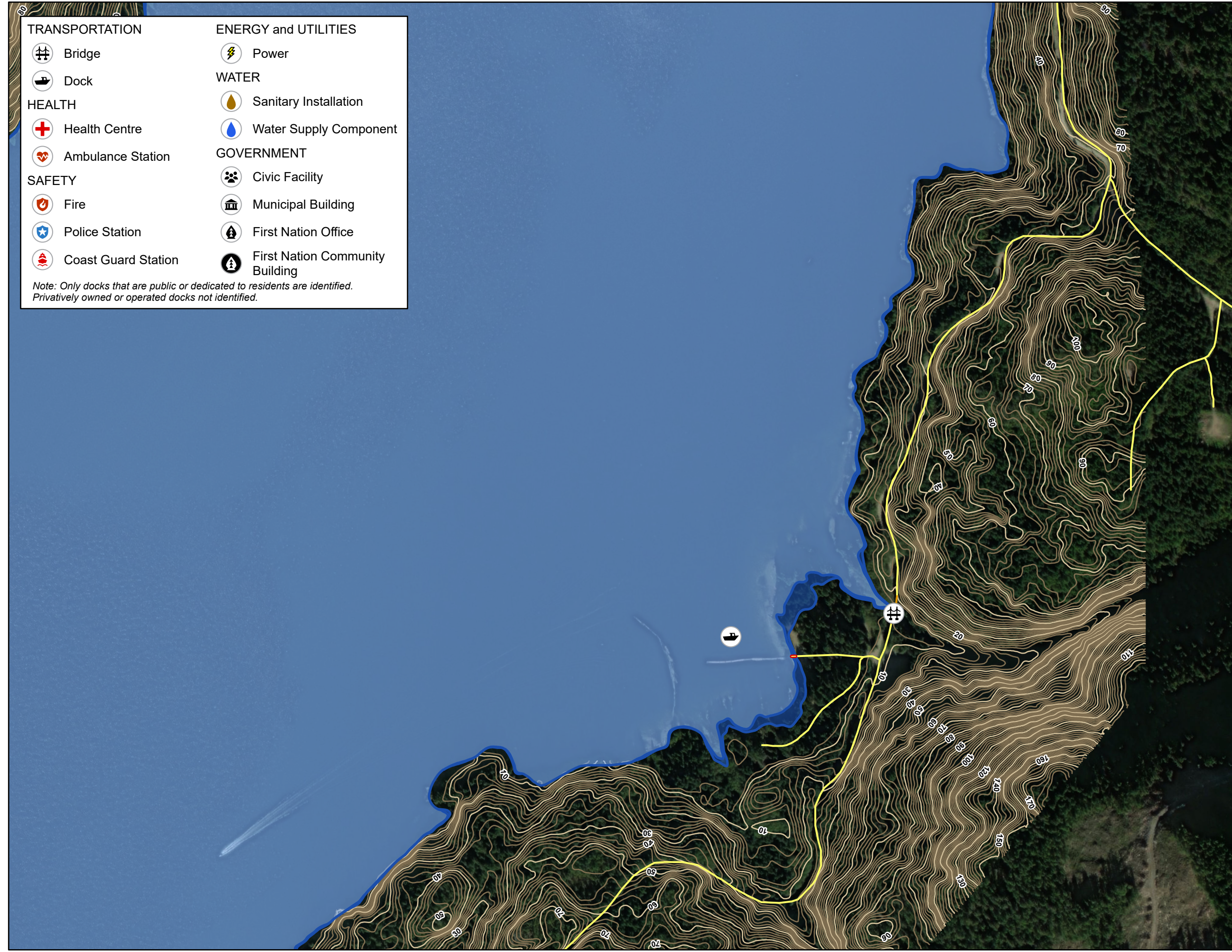
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Units: METRES; Vertical Datum: CGVD2013

Engineer	PSG	GIS	SWM	Reviewer	GFL
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Job Number	3006332	Date	07-JUL-2023
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**NORTHWEST VANCOUVER ISLAND
TSUNAMI RISK ASSESSMENT PROJECT**

**COUGAR CREEK
INUNDATION LEVEL FOR
EMERGENCY PLANNING
ALASKA TSUNAMI**





SWM: \\mainfile-van\Projects\Active\3006332 NW Vancouver Island Tsunami Risk Assessment - Phase 2\95 GIS\3006332_map_5K_AssetA\RiskMapping.aprx




TRANSPORTATION

-  Bridge
-  Dock

HEALTH

-  Health Centre
-  Ambulance Station



SAFETY

-  Fire
-  Police Station
-  Coast Guard Station





ENERGY and UTILITIES

-  Power

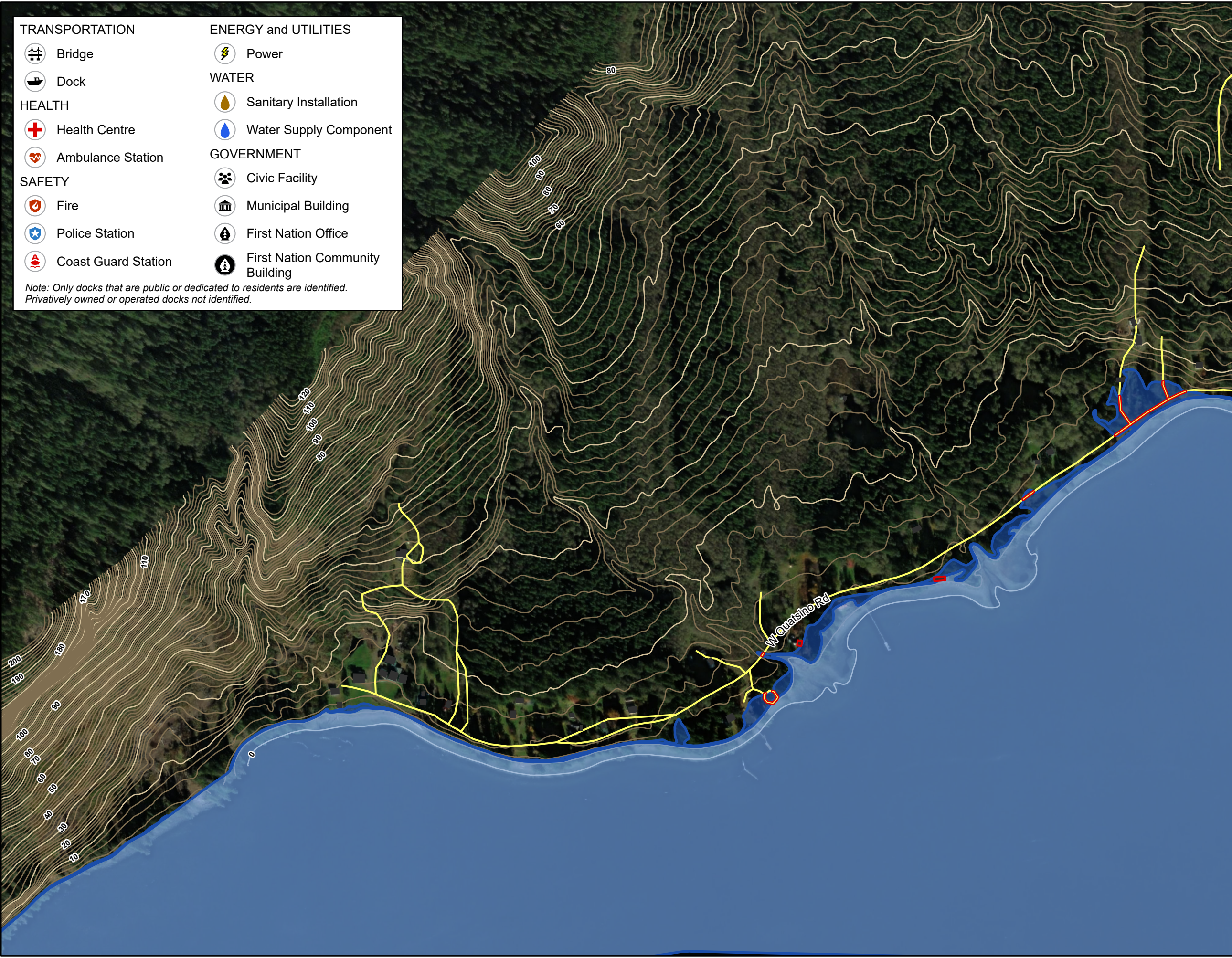
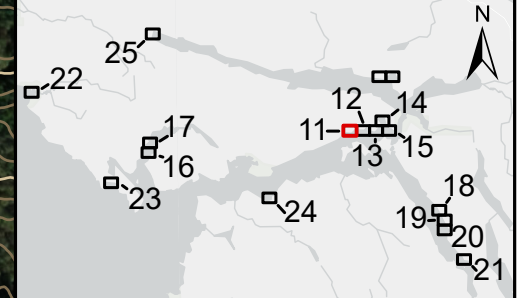
WATER















-  Sanitary Installation
-  Water Supply Component

GOVERNMENT

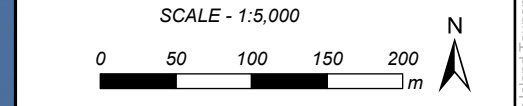
-  Civic Facility
-  Municipal Building
-  First Nation Office
-  First Nation Community Building

Note: Only docks that are public or dedicated to residents are identified. Privately owned or operated docks not identified.



-  FERRY ROUTE
-  PAVED ROAD
-  UNPAVED ROAD
-  INUNDATED PAVED ROAD
-  INUNDATED UNPAVED ROAD
-  BUILDING
-  INUNDATED BUILDING
-  INUNDATION EXTENTS WITH SAFETY FACTOR
-  INUNDATION EXTENTS WITHOUT SAFETY FACTOR
-  FIRST NATION ADMINISTRATIVE BOUNDARY
-  MUNICIPAL BOUNDARY
-  PROVINCIAL PARK
-  MAJOR CONTOUR AT 10 m INTERVAL
-  MINOR CONTOUR AT 2 m INTERVAL

REFER TO INDEX MAP FOR COMPLETE NOTES. A SAFETY FACTOR WAS APPLIED TO OBTAIN THE TSUNAMI INUNDATION LEVEL FOR EMERGENCY PLANNING. EFFECTS OF CLIMATE CHANGE-INDUCED SEA LEVEL RISE NOT INCLUDED. OVERWATER HAZARDS SUCH AS STRONG CURRENT VELOCITY NOT SHOWN ON THE INUNDATION MAPS.



Coordinate System: NAD 1983 CSRS UTM ZONE 9N
Units: METRES; Vertical Datum: CGVD2013

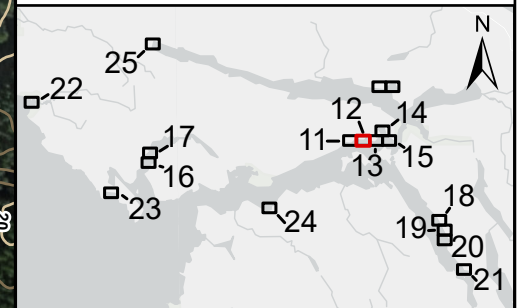
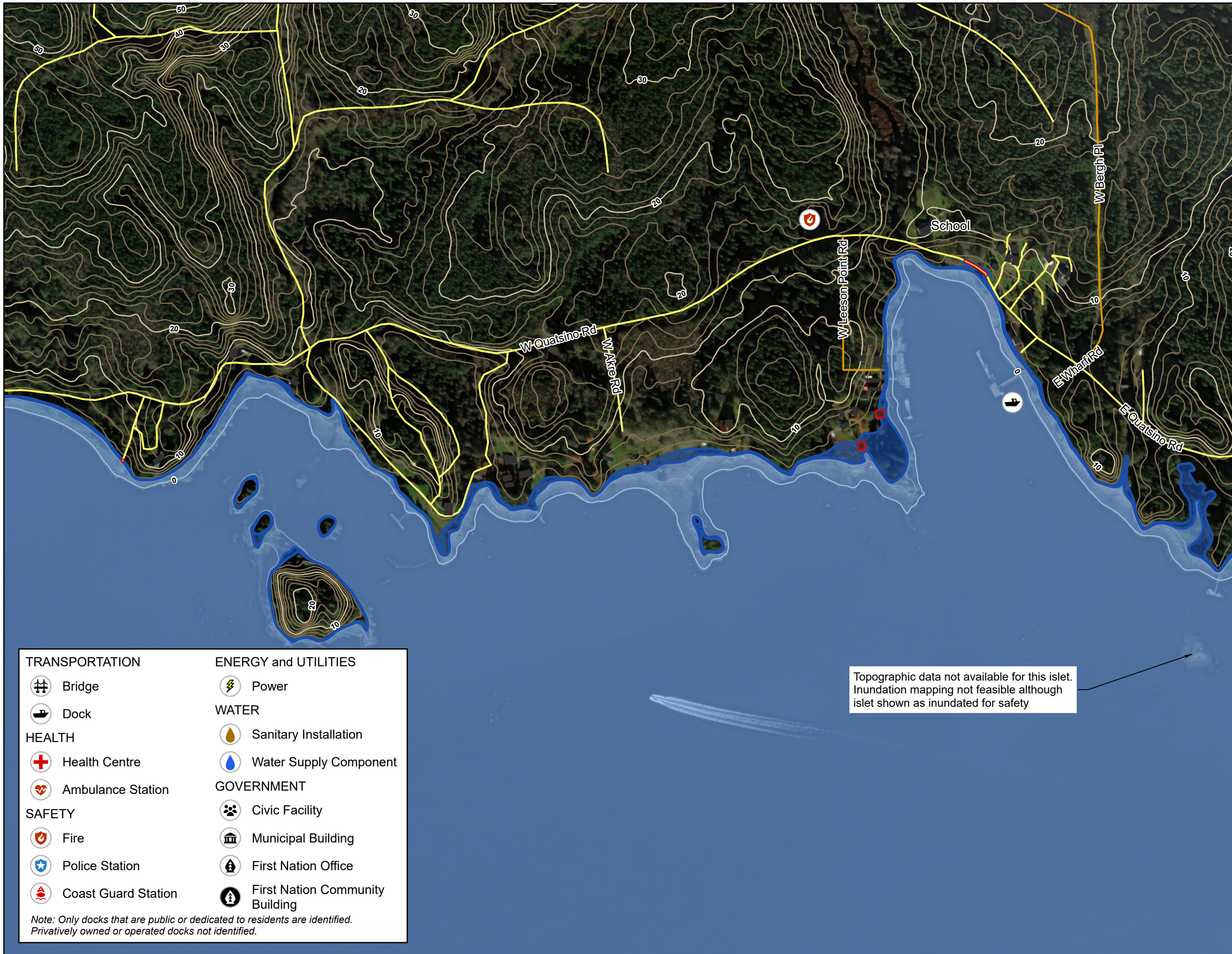
Engineer	PSG	GIS	SWM	Reviewer	GFL
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Job Number	3006332	Date	07-JUL-2023
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**NORTHWEST VANCOUVER ISLAND
TSUNAMI RISK ASSESSMENT PROJECT**

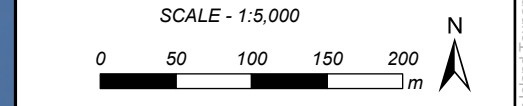
**QUATSINO WEST
INUNDATION LEVEL FOR
EMERGENCY PLANNING
ALASKA TSUNAMI**

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- FERRY ROUTE
- PAVED ROAD
- UNPAVED ROAD
- INUNDATED PAVED ROAD
- INUNDATED UNPAVED ROAD
- BUILDING
- INUNDATED BUILDING
- INUNDATION EXTENTS WITH SAFETY FACTOR
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OVERWATER HAZARDS SUCH AS STRONG CURRENT VELOCITY NOT SHOWN ON THE INUNDATION MAPS.



Coordinate System: NAD 1983 CSRS UTM ZONE 9N
Units: METRES; Vertical Datum: CGVD2013

Engineer	PSG	GIS	SWM	Reviewer	GFL
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Job Number	3006332	Date	07-JUL-2023
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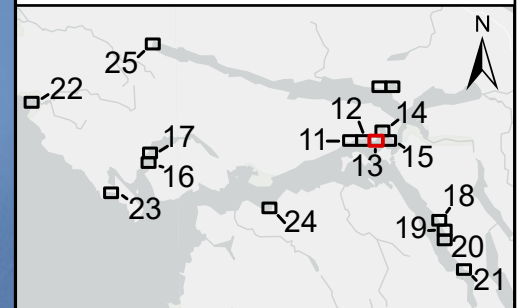
**NORTHWEST VANCOUVER ISLAND
TSUNAMI RISK ASSESSMENT PROJECT**















**QUATSINO CENTRE
INUNDATION LEVEL FOR
EMERGENCY PLANNING
ALASKA TSUNAMI**

- | TRANSPORTATION | ENERGY and UTILITIES |
|---------------------|---------------------------------|
| Bridge | Power |
| Dock | WATER |
| HEALTH | Sanitary Installation |
| Health Centre | Water Supply Component |
| Ambulance Station | GOVERNMENT |
| SAFETY | Civic Facility |
| Fire | Municipal Building |
| Police Station | First Nation Office |
| Coast Guard Station | First Nation Community Building |
- Note: Only docks that are public or dedicated to residents are identified. Privately owned or operated docks not identified.*

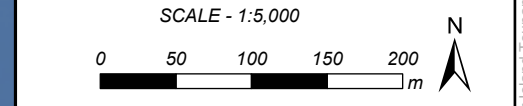
Topographic data not available for this islet.
Inundation mapping not feasible although
islet shown as inundated for safety

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-  FERRY ROUTE
-  PAVED ROAD
-  UNPAVED ROAD
-  INUNDATED PAVED ROAD
-  INUNDATED UNPAVED ROAD
-  BUILDING
-  INUNDATED BUILDING
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-  INUNDATION EXTENTS WITHOUT SAFETY FACTOR
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labelled with elevation in metres
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 EFFECTS OF CLIMATE CHANGE-INDUCED SEA LEVEL RISE NOT INCLUDED.
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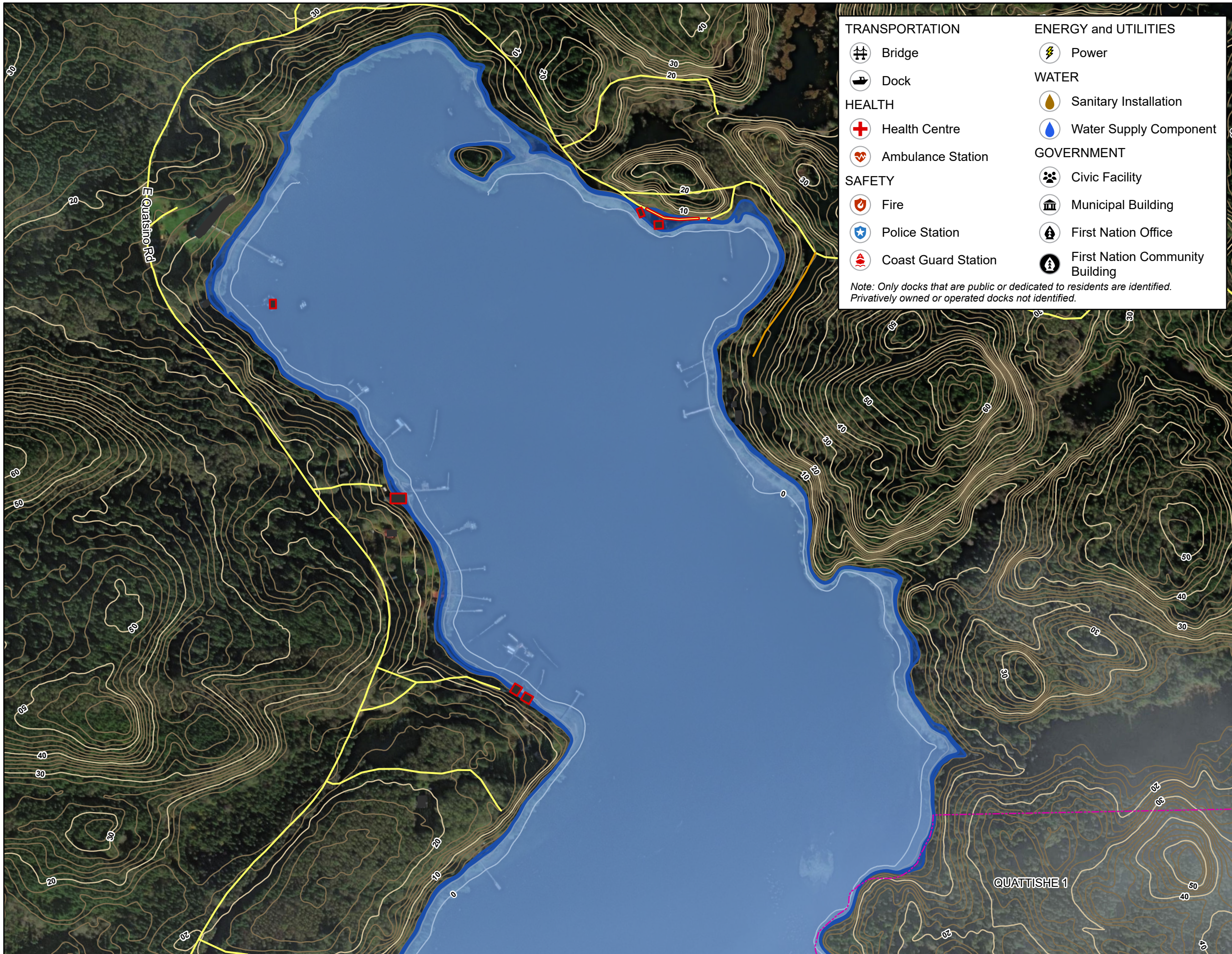
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 Units: METRES; Vertical Datum: CGVD2013

Engineer	PSG	GIS	SWM	Reviewer	GFL
Job Number	3006332		Date	07-JUL-2023	

**NORTHWEST VANCOUVER ISLAND
 TSUNAMI RISK ASSESSMENT PROJECT**
**QUATSINO EAST
 INUNDATION LEVEL FOR
 EMERGENCY PLANNING
 ALASKA TSUNAMI**

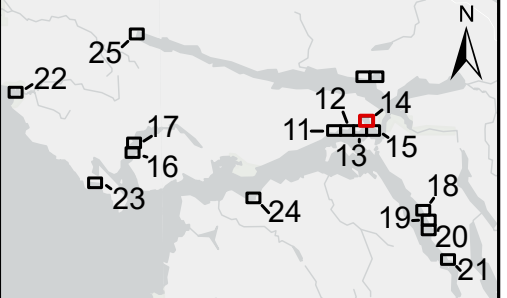
- | | |
|--|---|
| TRANSPORTATION
 Bridge
 Dock | ENERGY and UTILITIES
 Power |
| HEALTH
 Health Centre
 Ambulance Station | WATER
 Sanitary Installation
 Water Supply Component |
| SAFETY
 Fire
 Police Station
 Coast Guard Station | GOVERNMENT
 Civic Facility
 Municipal Building
 First Nation Office
 First Nation Community Building |
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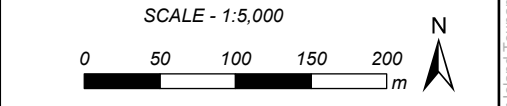
- TRANSPORTATION**
- Bridge
 - Dock
- HEALTH**
- Health Centre
 - Ambulance Station
- SAFETY**
- Fire
 - Police Station
 - Coast Guard Station
- ENERGY and UTILITIES**
- Power
- WATER**
- Sanitary Installation
 - Water Supply Component
- GOVERNMENT**
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Coordinate System: NAD 1983 CSRS UTM ZONE 9N
Units: METRES; Vertical Datum: CGVD2013

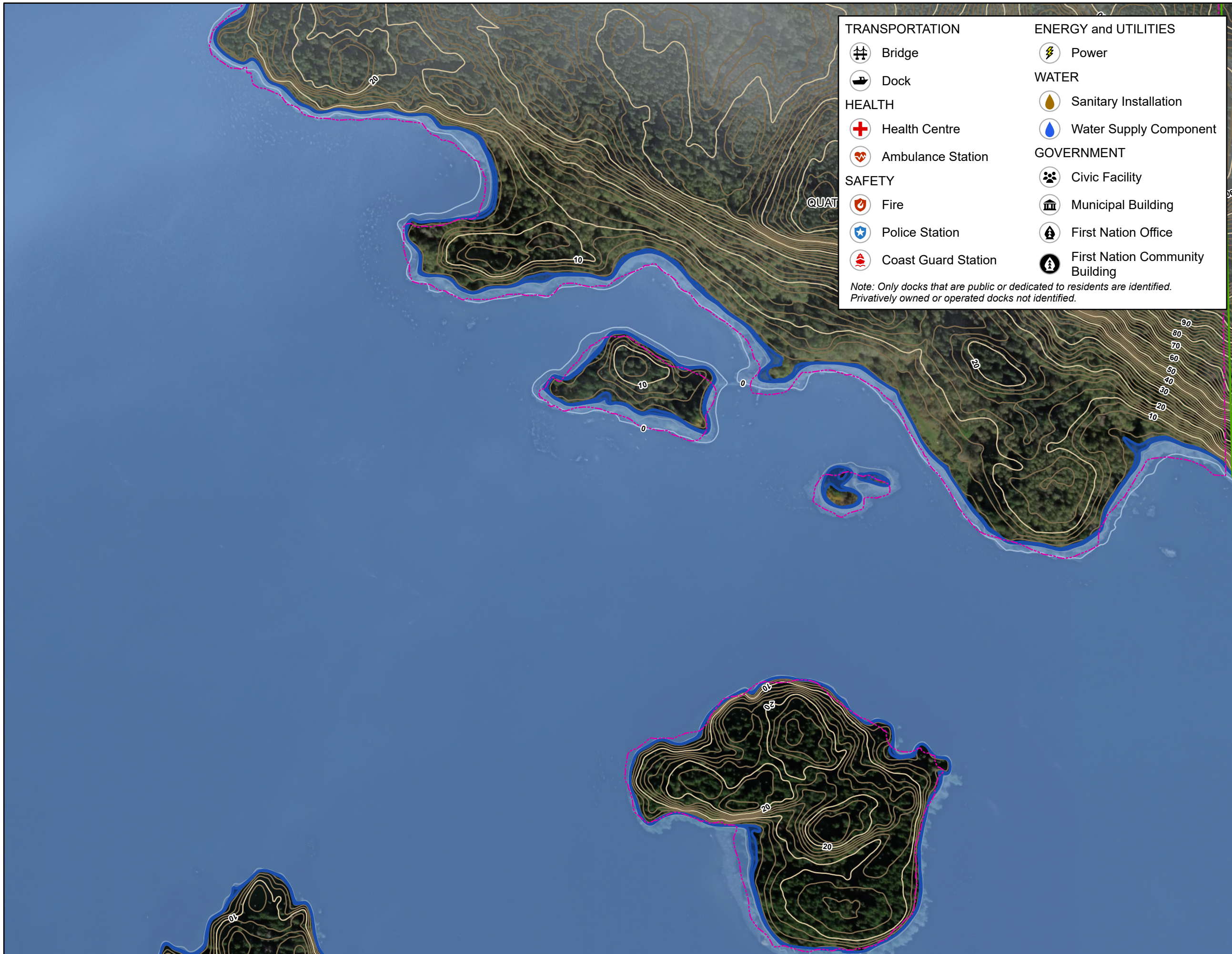
Engineer	PSG	GIS	SWM	Reviewer	GFL
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Job Number	3006332	Date	07-JUL-2023
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**NORTHWEST VANCOUVER ISLAND
TSUNAMI RISK ASSESSMENT PROJECT**

**HECATE COVE
INUNDATION LEVEL FOR
EMERGENCY PLANNING
ALASKA TSUNAMI**

SWM: \mainfile-van\Projects\Active\3006332 NW Vancouver Island Tsunami Risk Assessment - Phase 2\95 GIS\3006332_map_5K_Asset\RiskMapping.aprx



TRANSPORTATION

- Bridge
- Dock

HEALTH

- Health Centre
- Ambulance Station

SAFETY

- Fire
- Police Station
- Coast Guard Station

ENERGY and UTILITIES

- Power

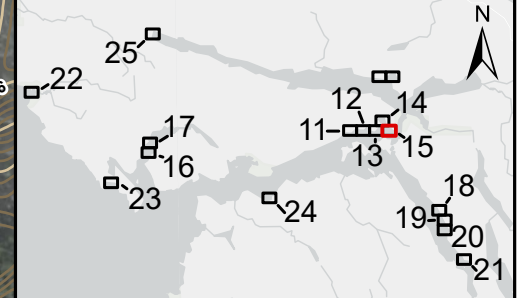
WATER

- Sanitary Installation
- Water Supply Component

GOVERNMENT

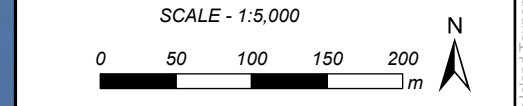
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- Municipal Building
- First Nation Office
- First Nation Community Building

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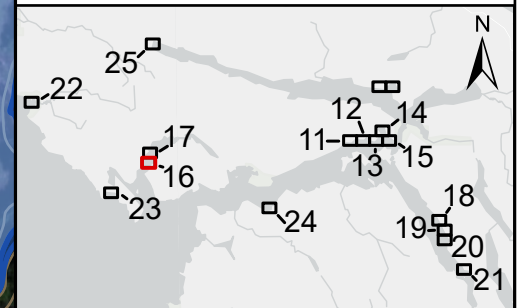
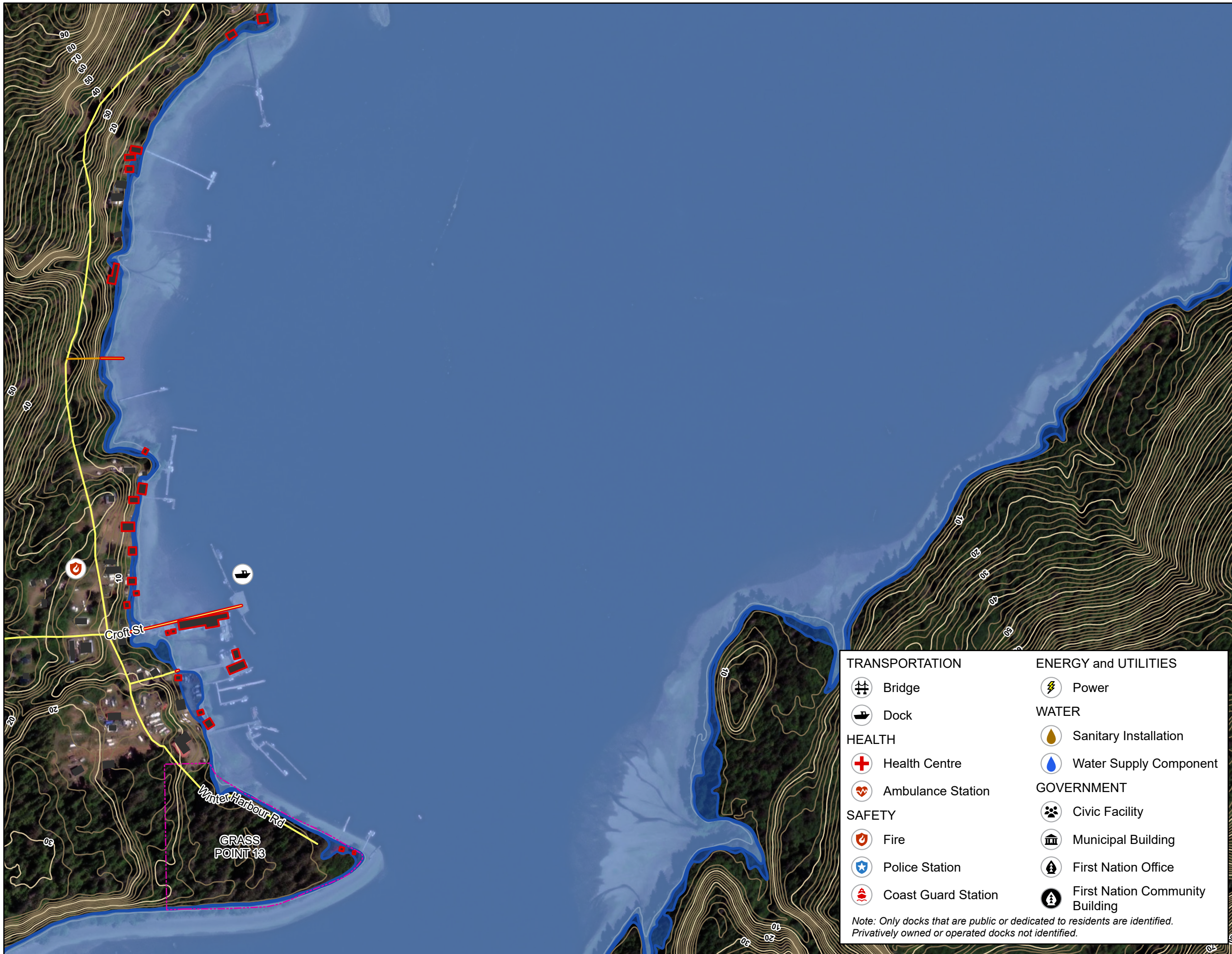
Engineer	PSG	GIS	SWM	Reviewer	GFL
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Job Number	3006332	Date	07-JUL-2023
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**NORTHWEST VANCOUVER ISLAND
TSUNAMI RISK ASSESSMENT PROJECT**

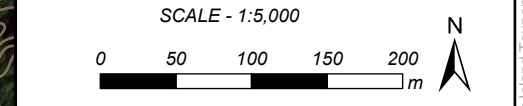
**QUATTISHE
INUNDATION LEVEL FOR
EMERGENCY PLANNING
ALASKA TSUNAMI**

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- FERRY ROUTE
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Engineer	PSG	GIS	SWM	Reviewer	GFL
Job Number	3006332		Date	07-JUL-2023	

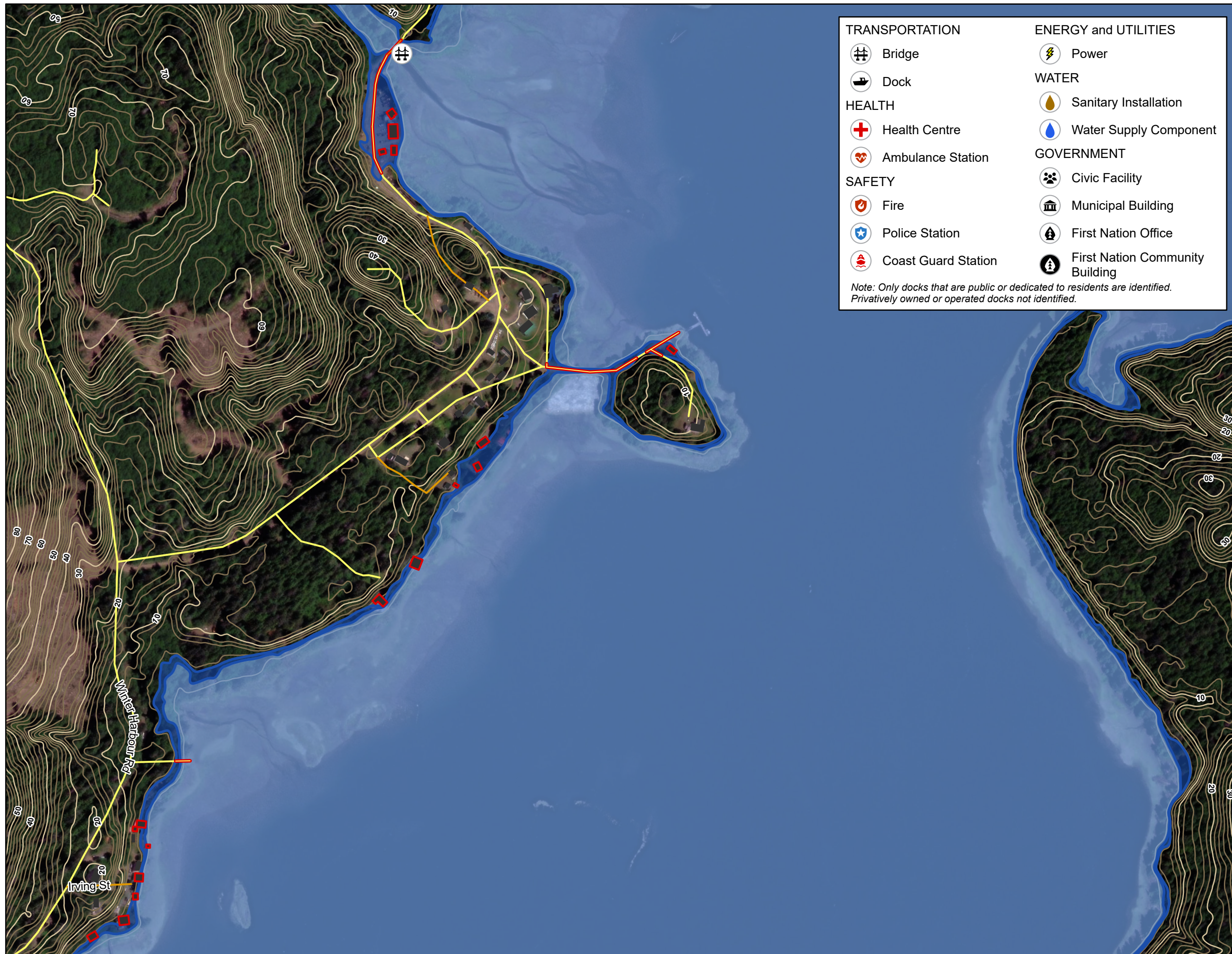
**NORTHWEST VANCOUVER ISLAND
TSUNAMI RISK ASSESSMENT PROJECT**

**WINTER HARBOUR SOUTH
INUNDATION LEVEL FOR
EMERGENCY PLANNING
ALASKA TSUNAMI**

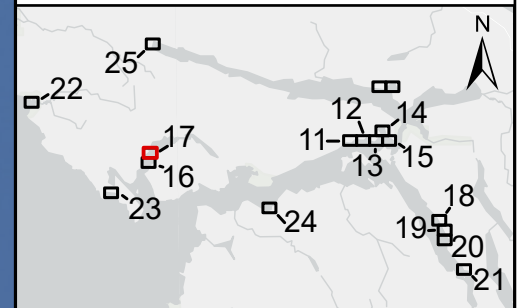
TRANSPORTATION	ENERGY and UTILITIES
Bridge	Power
Dock	WATER
HEALTH	Sanitary Installation
Health Centre	Water Supply Component
Ambulance Station	GOVERNMENT
SAFETY	Civic Facility
Fire	Municipal Building
Police Station	First Nation Office
Coast Guard Station	First Nation Community Building

Note: Only docks that are public or dedicated to residents are identified. Privately owned or operated docks not identified.

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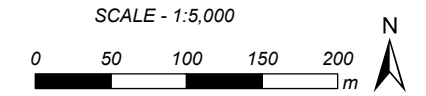


- TRANSPORTATION**
- Bridge
 - Dock
- HEALTH**
- Health Centre
 - Ambulance Station
- SAFETY**
- Fire
 - Police Station
 - Coast Guard Station
- ENERGY and UTILITIES**
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- Sanitary Installation
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 EFFECTS OF CLIMATE CHANGE INDUCED SEA LEVEL RISE NOT INCLUDED.
 OVERWATER HAZARDS SUCH AS STRONG CURRENT VELOCITY NOT SHOWN ON THE INUNDATION MAPS.



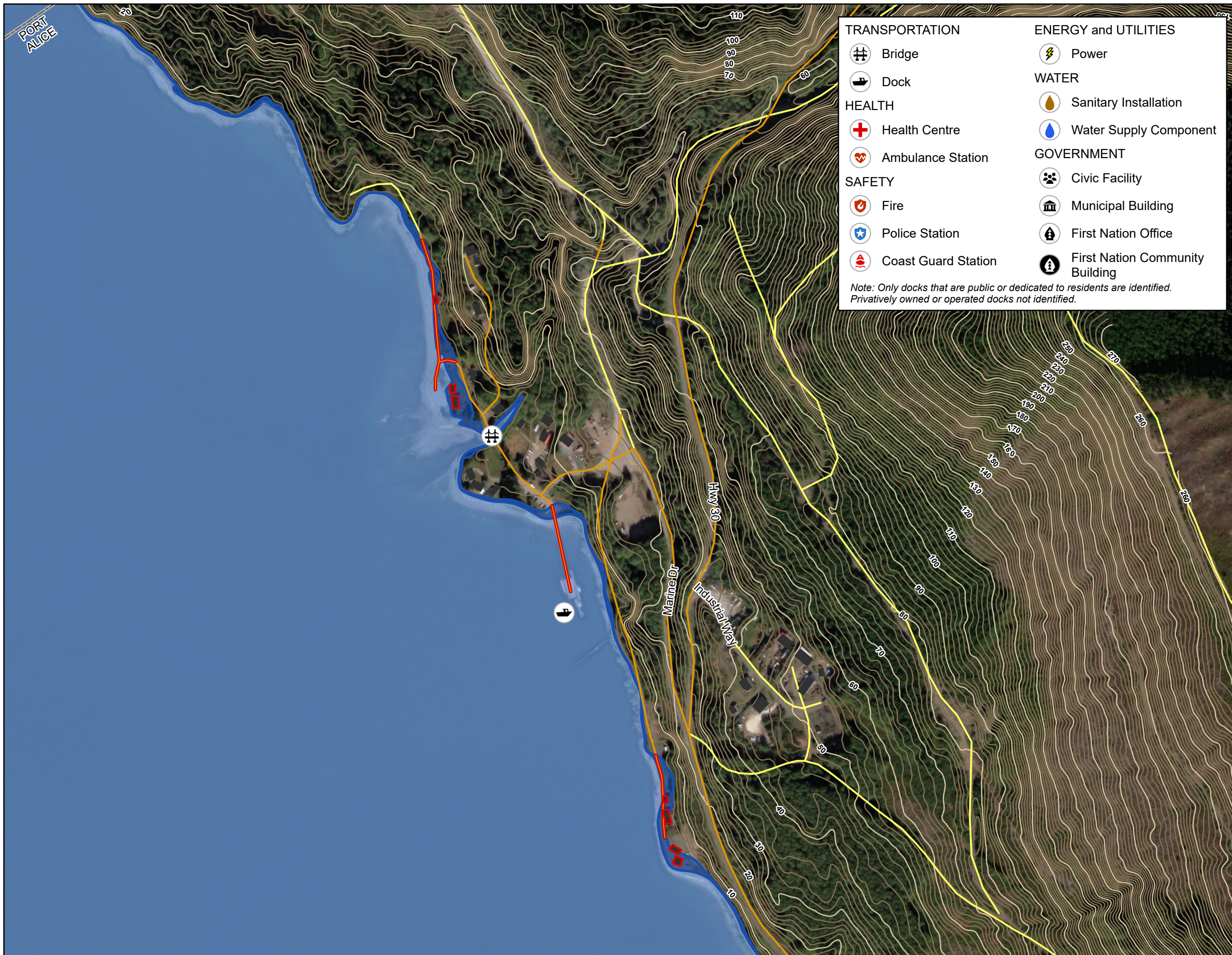
Coordinate System: NAD 1983 CSRS UTM ZONE 9N
 Units: METRES; Vertical Datum: CGVD2013

Engineer	PSG	GIS	SWM	Reviewer	GFL
Job Number	3006332		Date	07-JUL-2023	

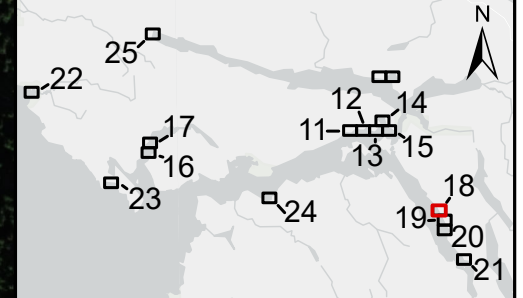
**NORTHWEST VANCOUVER ISLAND
 TSUNAMI RISK ASSESSMENT PROJECT**

**WINTER HARBOUR NORTH
 INUNDATION LEVEL FOR
 EMERGENCY PLANNING
 ALASKA TSUNAMI**

SWM: \mainfile-van\Projects\Active\3006332 NW Vancouver Island Tsunami Risk Assessment - Phase 2\95 GIS\3006332_map_5K_Asset\RiskMapping.aprx

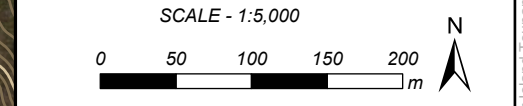


- TRANSPORTATION**
- Bridge
 - Dock
- HEALTH**
- Health Centre
 - Ambulance Station
- SAFETY**
- Fire
 - Police Station
 - Coast Guard Station
- ENERGY and UTILITIES**
- Power
- WATER**
- Sanitary Installation
 - Water Supply Component
- GOVERNMENT**
- Civic Facility
 - Municipal Building
 - First Nation Office
 - First Nation Community Building
- Note: Only docks that are public or dedicated to residents are identified. Privately owned or operated docks not identified.*



- FERRY ROUTE
- PAVED ROAD
- UNPAVED ROAD
- INUNDATED PAVED ROAD
- INUNDATED UNPAVED ROAD
- BUILDING
- INUNDATED BUILDING
- INUNDATION EXTENTS WITH SAFETY FACTOR
- INUNDATION EXTENTS WITHOUT SAFETY FACTOR
- FIRST NATION ADMINISTRATIVE BOUNDARY
- MUNICIPAL BOUNDARY
- PROVINCIAL PARK
- MAJOR CONTOUR AT 10 m INTERVAL
labelled with elevation in metres
- MINOR CONTOUR AT 2 m INTERVAL

REFER TO INDEX MAP FOR COMPLETE NOTES.
 A SAFETY FACTOR WAS APPLIED TO OBTAIN THE TSUNAMI INUNDATION LEVEL FOR EMERGENCY PLANNING.
 EFFECTS OF CLIMATE CHANGE-INDUCED SEA LEVEL RISE NOT INCLUDED.
 OVERWATER HAZARDS SUCH AS STRONG CURRENT VELOCITY NOT SHOWN ON THE INUNDATION MAPS.



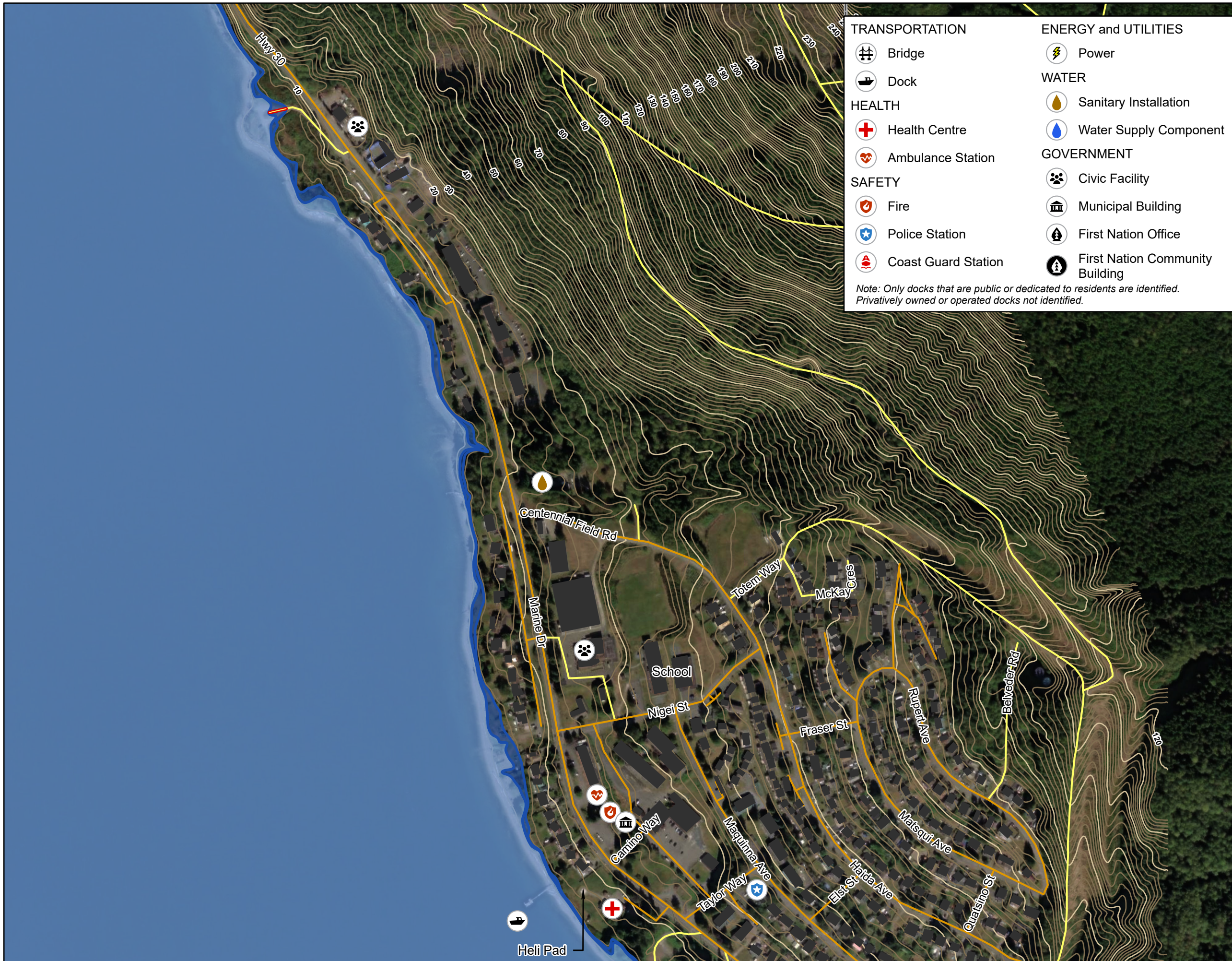
Coordinate System: NAD 1983 CSRS UTM ZONE 9N
 Units: METRES; Vertical Datum: CGVD2013

Engineer	PSG	GIS	SWM	Reviewer	GFL
Job Number	3006332			Date	07-JUL-2023

**NORTHWEST VANCOUVER ISLAND
 TSUNAMI RISK ASSESSMENT PROJECT**

**JEUNE LANDING
 INUNDATION LEVEL FOR
 EMERGENCY PLANNING
 ALASKA TSUNAMI**

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TRANSPORTATION

- Bridge
- Dock

HEALTH

- Health Centre
- Ambulance Station

SAFETY

- Fire
- Police Station
- Coast Guard Station

ENERGY and UTILITIES

- Power

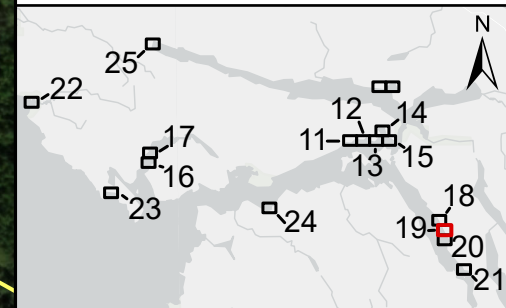
WATER

- Sanitary Installation
- Water Supply Component

GOVERNMENT

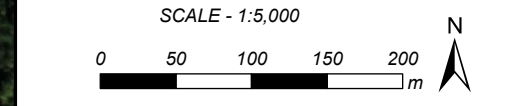
- Civic Facility
- Municipal Building
- First Nation Office
- First Nation Community Building

Note: Only docks that are public or dedicated to residents are identified. Privately owned or operated docks not identified.



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REFER TO INDEX MAP FOR COMPLETE NOTES.
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 OVERWATER HAZARDS SUCH AS STRONG CURRENT VELOCITY NOT SHOWN ON THE INUNDATION MAPS.



Coordinate System: NAD 1983 CSRS UTM ZONE 9N
 Units: METRES; Vertical Datum: CGVD2013

Engineer	PSG	GIS	SWM	Reviewer	GFL
Job Number	3006332		Date	07-JUL-2023	

**NORTHWEST VANCOUVER ISLAND
 TSUNAMI RISK ASSESSMENT PROJECT**




**PORT ALICE
 INUNDATION LEVEL FOR
 EMERGENCY PLANNING
 ALASKA TSUNAMI**

SWM: \\mainfile-van\Projects\Active\3006332 NW Vancouver Island Tsunami Risk Assessment - Phase 2\95 GIS\3006332_map_5K_Asse\RiskMapping.aprx





TRANSPORTATION

-  Bridge
-  Dock
- HEALTH**
-  Health Centre
-  Ambulance Station
- SAFETY**
-  Fire
-  Police Station
-  Coast Guard Station

ENERGY and UTILITIES

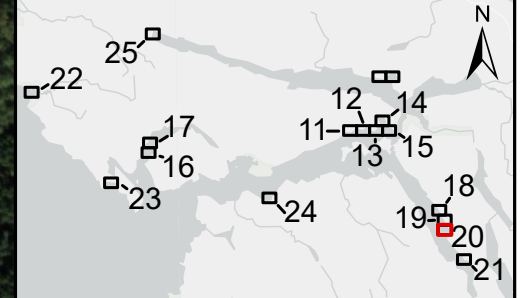
-  Power
- WATER**
-  Sanitary Installation
-  Water Supply Component















GOVERNMENT

-  Civic Facility
-  Municipal Building
-  First Nation Office
-  First Nation Community Building

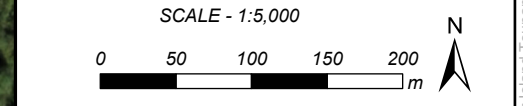
Note: Only docks that are public or dedicated to residents are identified. Privately owned or operated docks not identified.

Topographic data not available for these islands. Inundation mapping not feasible although islands shown as inundated for safety.



-  FERRY ROUTE
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-  INUNDATED PAVED ROAD
-  INUNDATED UNPAVED ROAD
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-  INUNDATED BUILDING
-  INUNDATION EXTENTS WITH SAFETY FACTOR
-  INUNDATION EXTENTS WITHOUT SAFETY FACTOR
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Coordinate System: NAD 1983 CSRS UTM ZONE 9N
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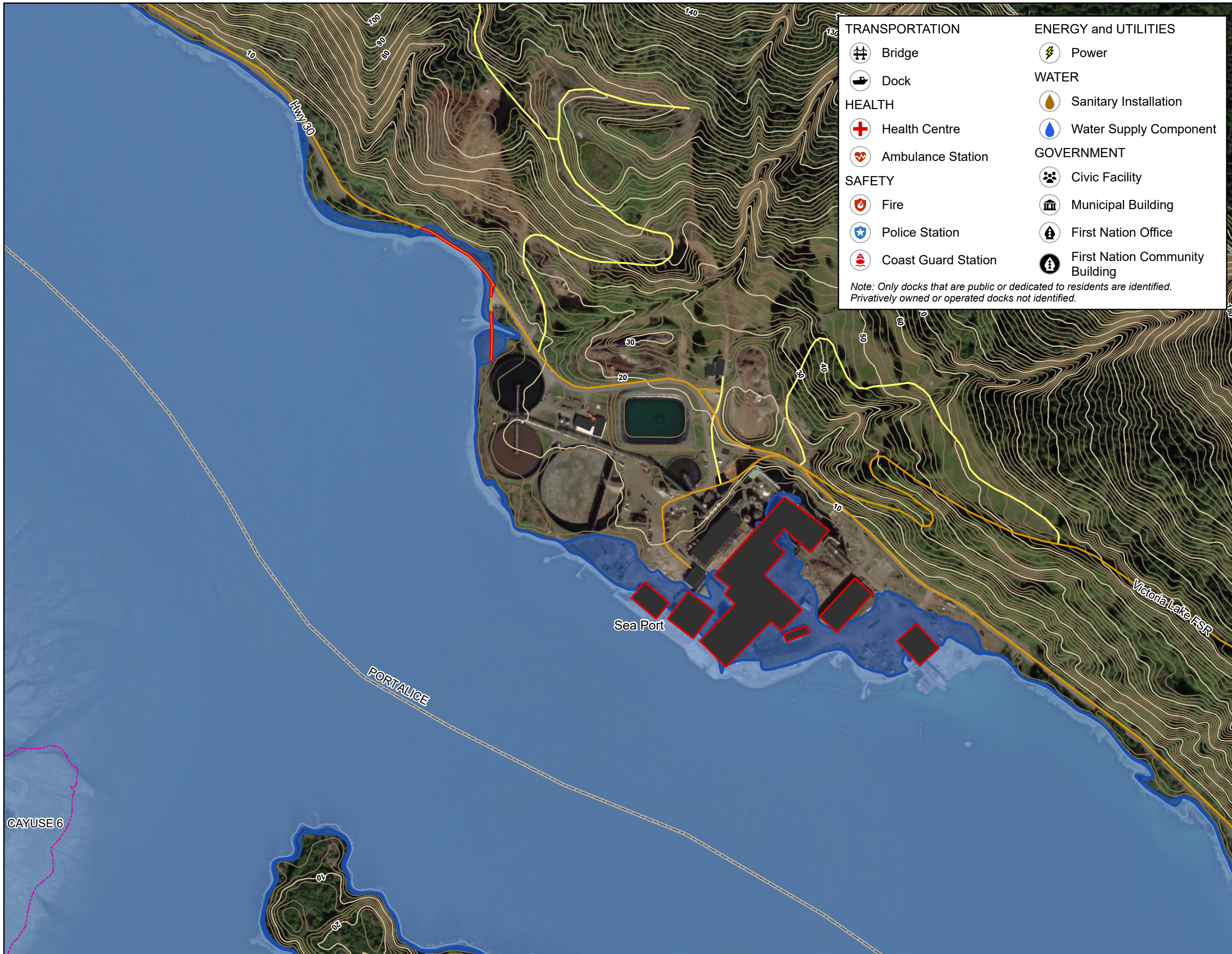
Engineer	PSG	GIS	SWM	Reviewer	GFL
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Job Number	3006332	Date	07-JUL-2023
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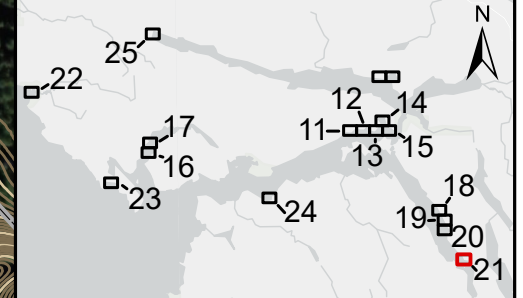
**NORTHWEST VANCOUVER ISLAND
TSUNAMI RISK ASSESSMENT PROJECT**

**RUMBLE BEACH
INUNDATION LEVEL FOR
EMERGENCY PLANNING
ALASKA TSUNAMI**

SWM: \\mainfile-van\Projects\Active\3006332 NW Vancouver Island Tsunami Risk Assessment - Phase 2\95 GIS\3006332_map_5K_AssetA\RiskMapping.aprx

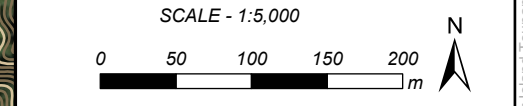


- TRANSPORTATION**
- Bridge
 - Dock
- HEALTH**
- Health Centre
 - Ambulance Station
- SAFETY**
- Fire
 - Police Station
 - Coast Guard Station
- ENERGY and UTILITIES**
- Power
- WATER**
- Sanitary Installation
 - Water Supply Component
- GOVERNMENT**
- Civic Facility
 - Municipal Building
 - First Nation Office
 - First Nation Community Building
- Note: Only docks that are public or dedicated to residents are identified. Privately owned or operated docks not identified.*



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- INUNDATED PAVED ROAD
- INUNDATED UNPAVED ROAD
- BUILDING
- INUNDATED BUILDING
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REFER TO INDEX MAP FOR COMPLETE NOTES.
 A SAFETY FACTOR WAS APPLIED TO OBTAIN THE TSUNAMI INUNDATION LEVEL FOR EMERGENCY PLANNING.
 EFFECTS OF CLIMATE CHANGE-INDUCED SEA LEVEL RISE NOT INCLUDED.
 OVERWATER HAZARDS SUCH AS STRONG CURRENT VELOCITY NOT SHOWN ON THE INUNDATION MAPS.



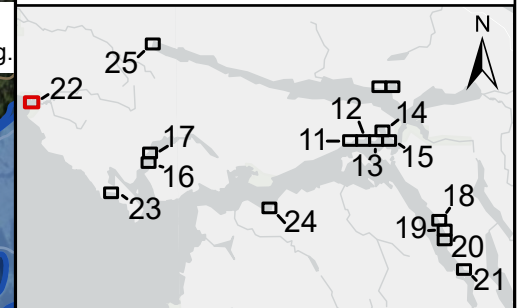
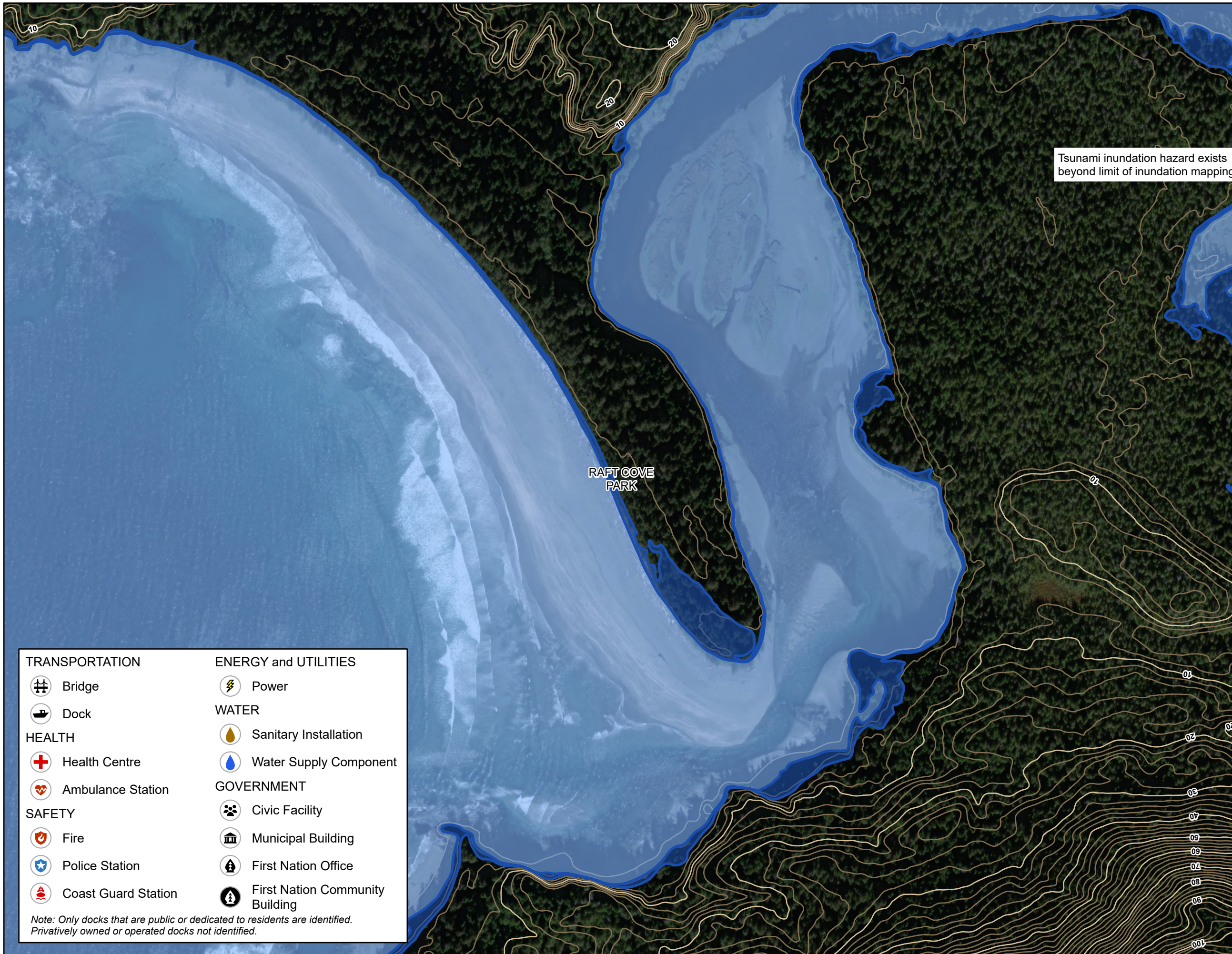
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 Units: METRES; Vertical Datum: CGVD2013

Engineer	PSG	GIS	SWM	Reviewer	GFL
Job Number	3006332		Date	07-JUL-2023	

**NORTHWEST VANCOUVER ISLAND
 TSUNAMI RISK ASSESSMENT PROJECT**

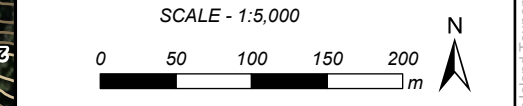
**PORT ALICE TERMINAL
 INUNDATION LEVEL FOR
 EMERGENCY PLANNING
 ALASKA TSUNAMI**

SWM, \mainfile-van\Projects\Active\3006332 NW Vancouver Island Tsunami Risk Assessment - Phase 2\95 GIS\3006332_map_5K_Asset\RiskMapping.aprx



- FERRY ROUTE
- PAVED ROAD
- UNPAVED ROAD
- INUNDATED PAVED ROAD
- INUNDATED UNPAVED ROAD
- BUILDING
- INUNDATED BUILDING
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Coordinate System: NAD 1983 CSRS UTM ZONE 9N
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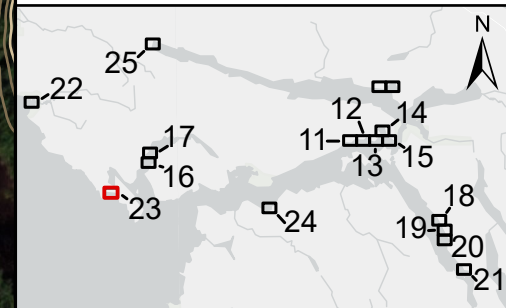
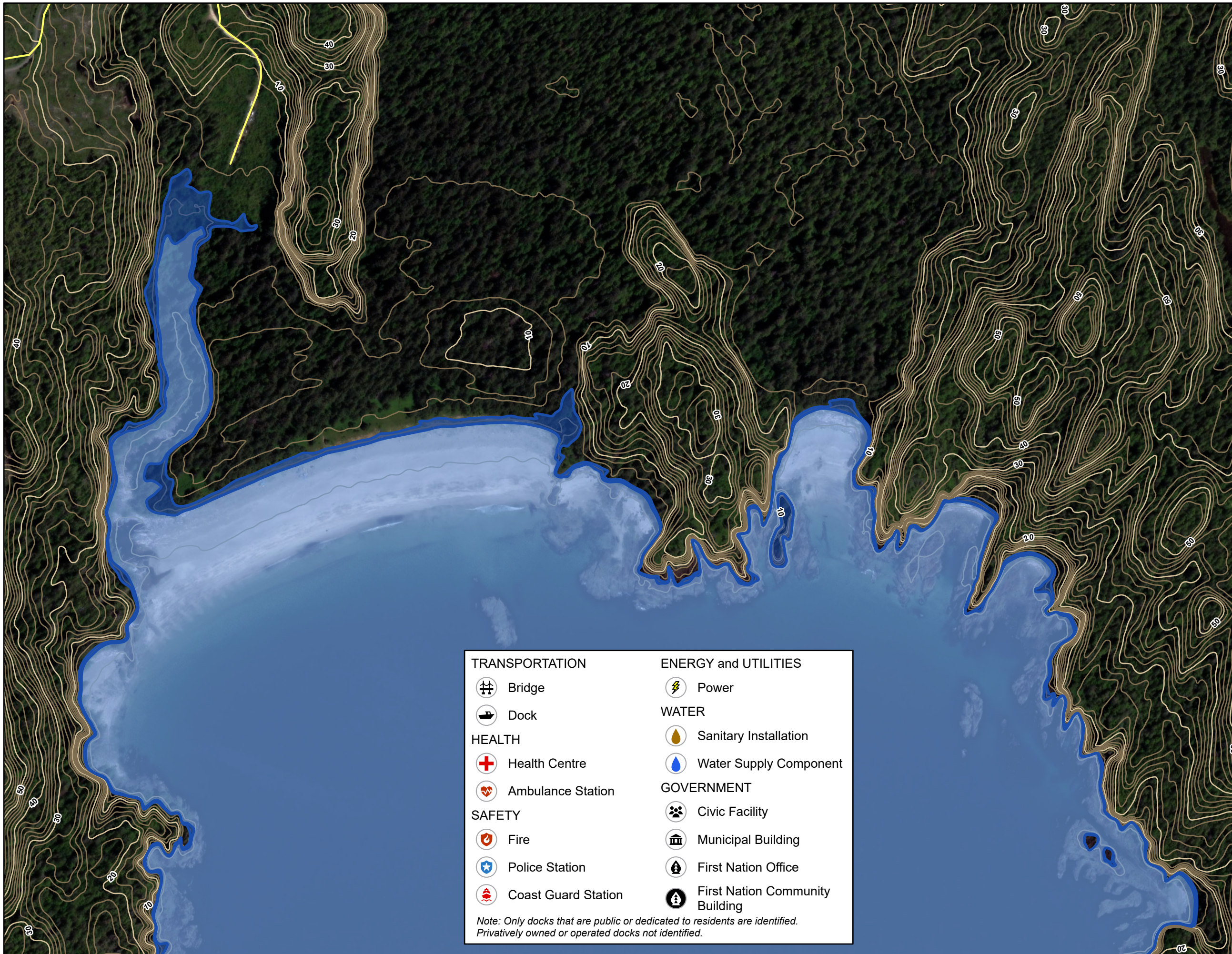
Engineer	PSG	GIS	SWM	Reviewer	GFL
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Job Number	3006332	Date	07-JUL-2023
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NORTHWEST VANCOUVER ISLAND
TSUNAMI RISK ASSESSMENT PROJECT

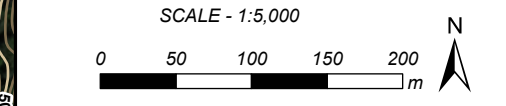
RAFT COVE
INUNDATION LEVEL FOR
EMERGENCY PLANNING
ALASKA TSUNAMI

- | | |
|-----------------------|---------------------------------|
| TRANSPORTATION | ENERGY and UTILITIES |
| Bridge | Power |
| Dock | WATER |
| HEALTH | Sanitary Installation |
| Health Centre | Water Supply Component |
| Ambulance Station | GOVERNMENT |
| SAFETY | Civic Facility |
| Fire | Municipal Building |
| Police Station | First Nation Office |
| Coast Guard Station | First Nation Community Building |
- Note: Only docks that are public or dedicated to residents are identified. Privately owned or operated docks not identified.



-  FERRY ROUTE
-  PAVED ROAD
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-  INUNDATED BUILDING
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REFER TO INDEX MAP FOR COMPLETE NOTES.
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 EFFECTS OF CLIMATE CHANGE-INDUCED SEA LEVEL RISE NOT INCLUDED.
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Coordinate System: NAD 1983 CSRS UTM ZONE 9N
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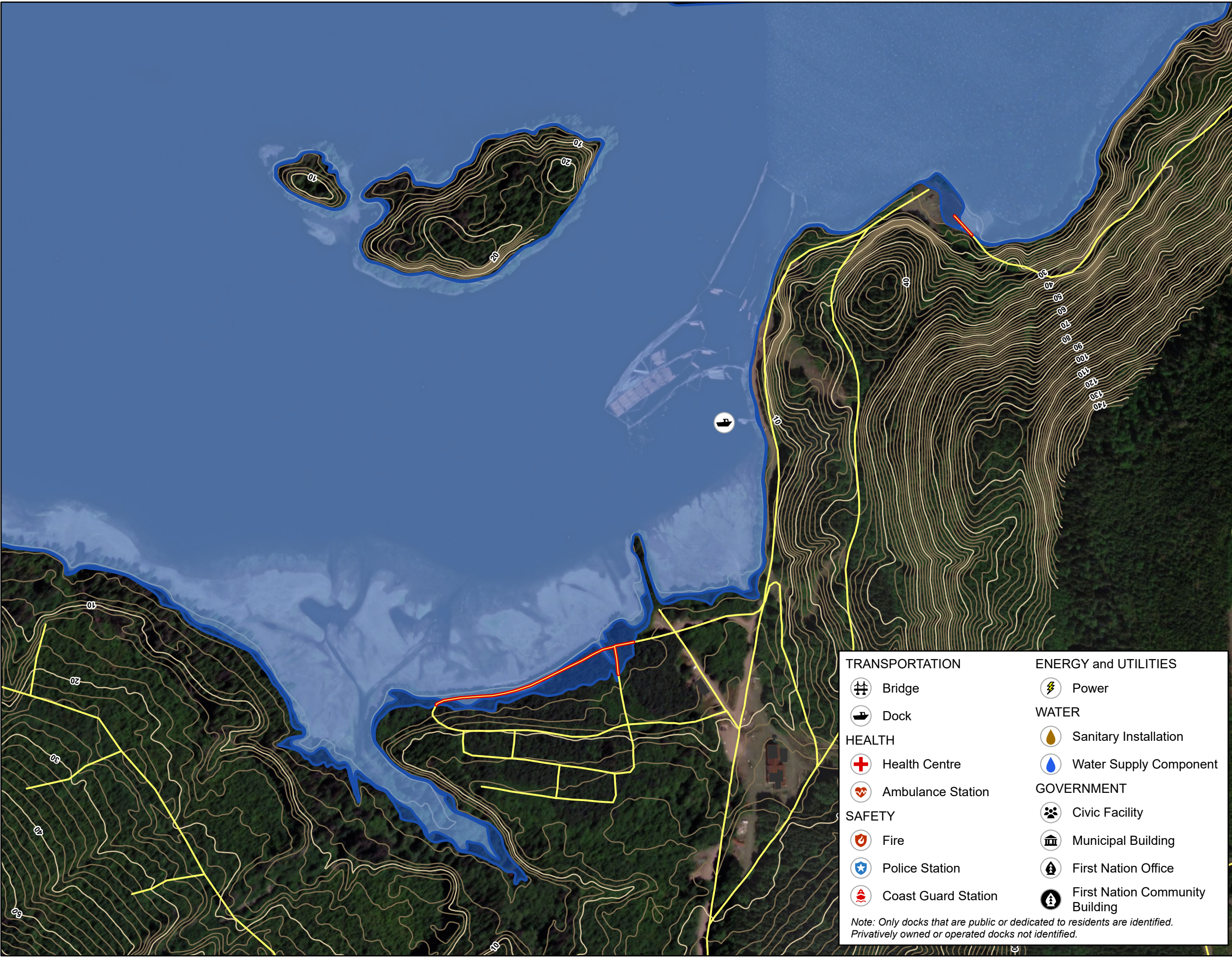
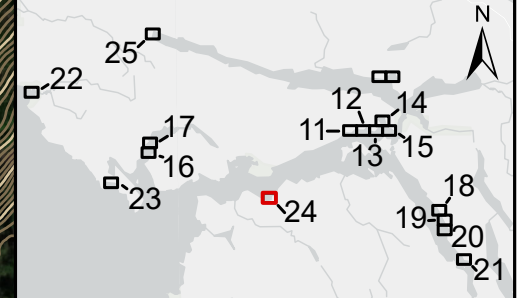
Engineer	PSG	GIS	SWM	Reviewer	GFL
Job Number	3006332		Date	07-JUL-2023	

**NORTHWEST VANCOUVER ISLAND
 TSUNAMI RISK ASSESSMENT PROJECT**
**GRANT BAY
 INUNDATION LEVEL FOR
 EMERGENCY PLANNING
 ALASKA TSUNAMI**

TRANSPORTATION  Bridge  Dock HEALTH  Health Centre  Ambulance Station SAFETY  Fire  Police Station  Coast Guard Station	ENERGY and UTILITIES  Power WATER  Sanitary Installation  Water Supply Component GOVERNMENT  Civic Facility  Municipal Building  First Nation Office  First Nation Community Building
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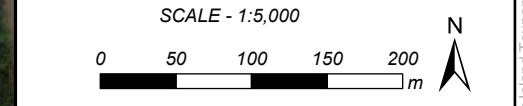
Note: Only docks that are public or dedicated to residents are identified. Privately owned or operated docks not identified.

SWM: \mainfile-van\Projects\Active\3006332 NW Vancouver Island Tsunami Risk Assessment - Phase 2\95 GIS\3006332_map_5K_Asset\RiskMapping.aprx



- FERRY ROUTE
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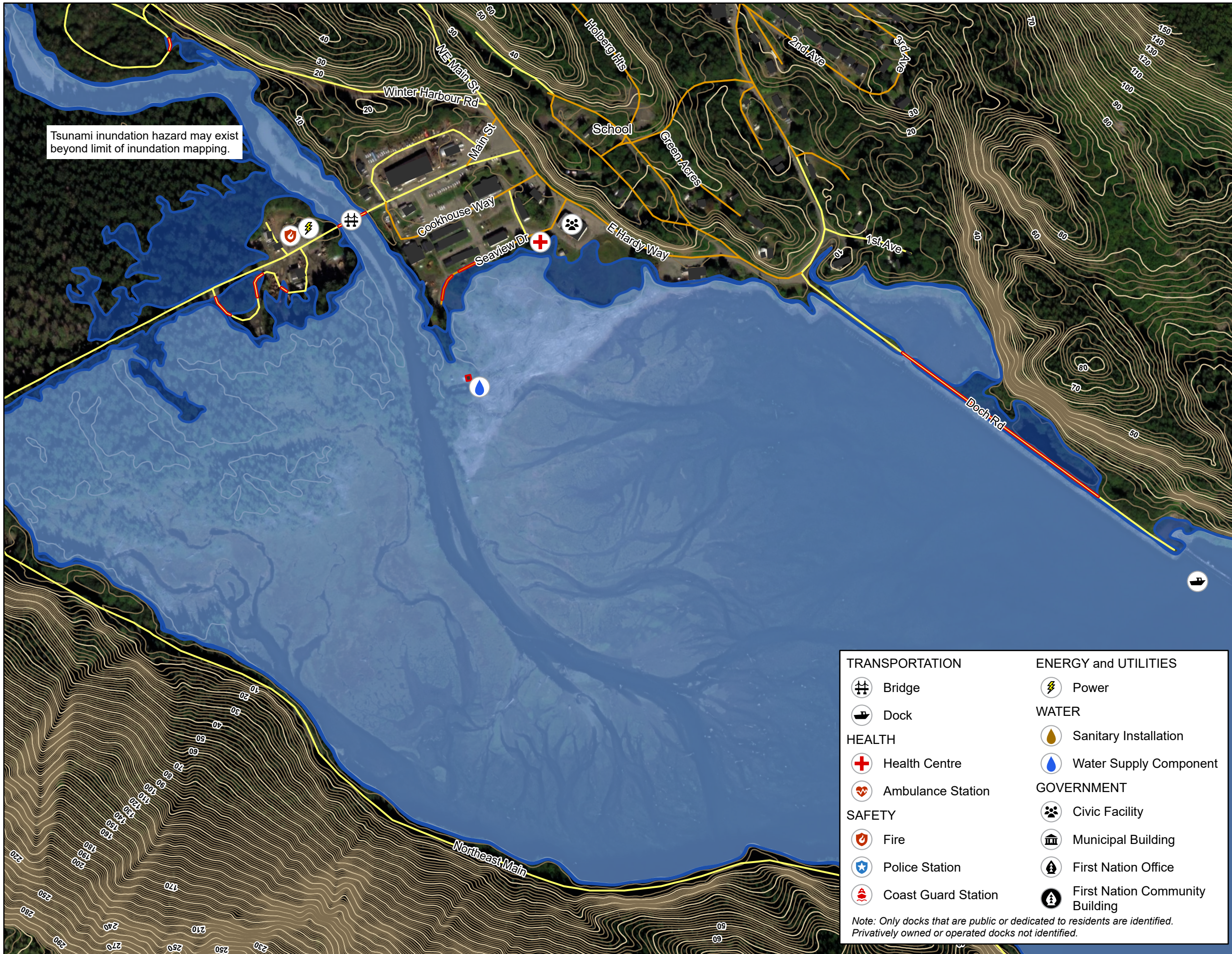
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Engineer	PSG	GIS	SWM	Reviewer	GFL
Job Number	3006332		Date	07-JUL-2023	

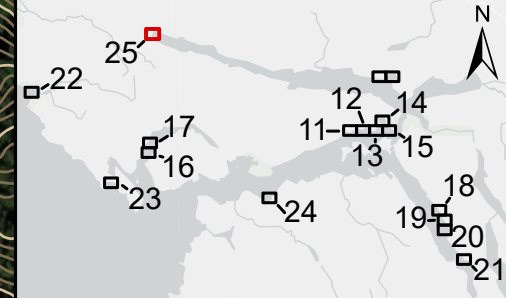
TRANSPORTATION	ENERGY and UTILITIES
Bridge	Power
Dock	WATER
HEALTH	Sanitary Installation
Health Centre	Water Supply Component
Ambulance Station	GOVERNMENT
SAFETY	Civic Facility
Fire	Municipal Building
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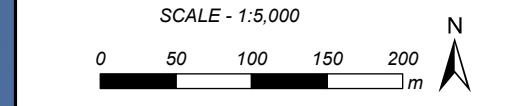


Tsunami inundation hazard may exist beyond limit of inundation mapping.



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Coordinate System: NAD 1983 CSRS UTM ZONE 9N
Units: METRES; Vertical Datum: CGVD2013

Engineer	PSG	GIS	SWM	Reviewer	GFL
Job Number	3006332		Date	07-JUL-2023	

**NORTHWEST VANCOUVER ISLAND
TSUNAMI RISK ASSESSMENT PROJECT**

**HOLBERG
INUNDATION LEVEL FOR
EMERGENCY PLANNING
ALASKA TSUNAMI**

- | | |
|-----------------------|---------------------------------|
| TRANSPORTATION | ENERGY and UTILITIES |
| Bridge | Power |
| Dock | WATER |
| HEALTH | Sanitary Installation |
| Health Centre | Water Supply Component |
| Ambulance Station | GOVERNMENT |
| SAFETY | Civic Facility |
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