



**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 9.0 from the Cascadia Subduction Zone. Please refer to the project report for additional information on tsunami source.
4. Initial water level for tsunami simulations 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. Spatially varying land subsidence and uplift associated to the Cascadia Subduction Zone earthquake has been applied by adjusting the underlying digital elevation model as per Natural Resources Canada information.
6. 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.
7. 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.
8. 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.
9. 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.
10. These maps do not reflect all risks associated with a tsunami. Strong currents and debris mobilized from shorelines can be significant hazards.
11. 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.
12. 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**

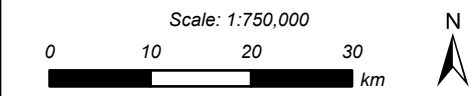
1. Topographic basemaps from Esri Canada, Natural Resources Canada, and Esri Canadian Community Maps contributors.
2. Imagery basemaps from Esri and Maxar.
3. First Nation administrative boundaries based on GeoBC data with adjustments by NHC and should be considered as approximate only.
4. Road locations 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

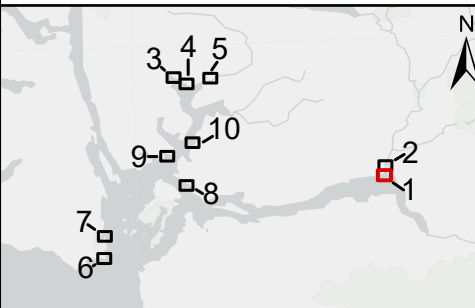
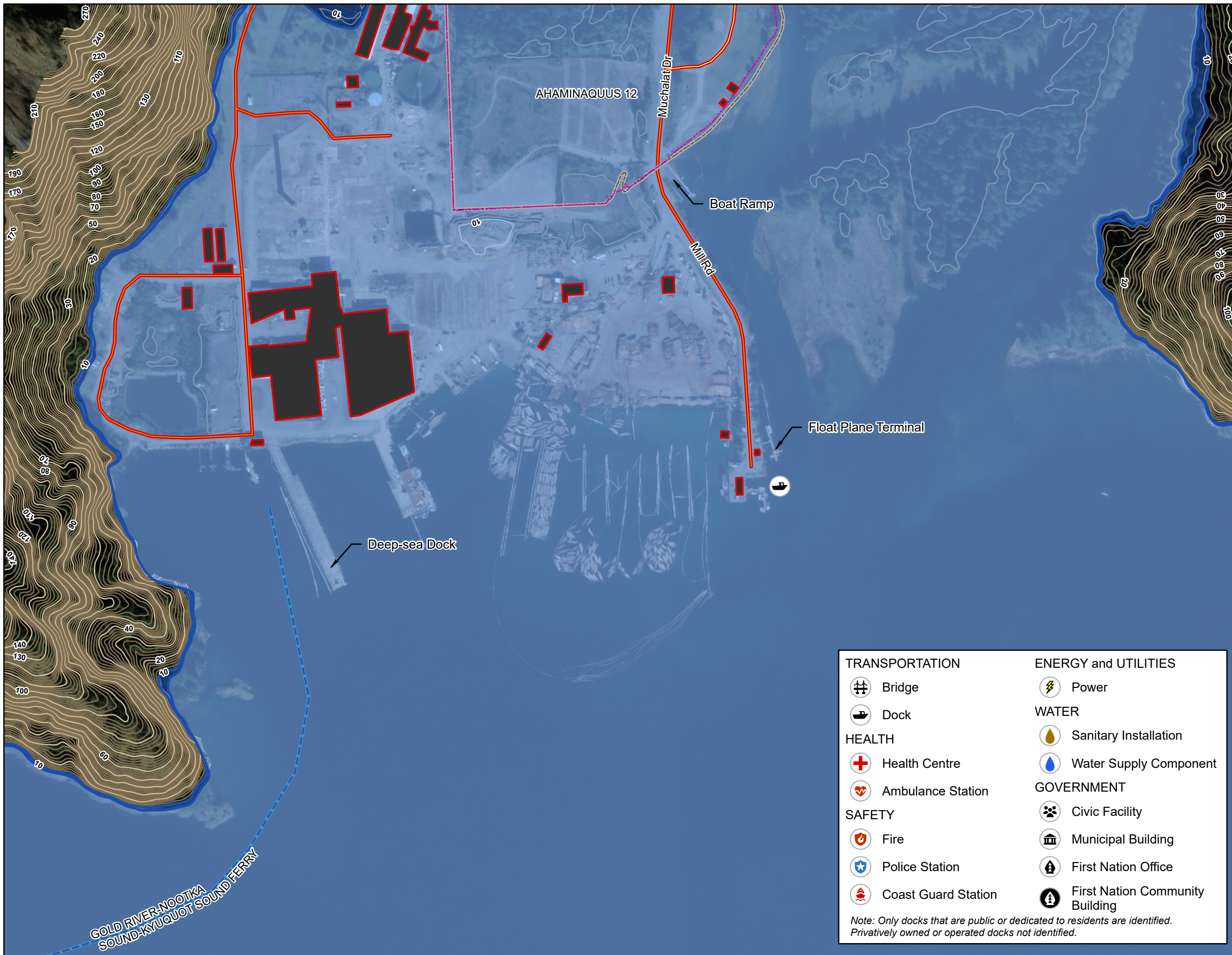


Coordinate System: NAD 1983 CSRS UTM ZONE 9N  
Units: METRES

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

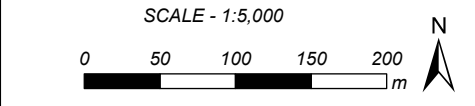
**NORTHWEST VANCOUVER ISLAND  
TSUNAMI RISK ASSESSMENT PROJECT**

**INUNDATION LEVEL FOR  
EMERGENCY PLANNING  
CASCADIA 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 |
|----------|-----|-----|-----|----------|-----|

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|------------|---------|------|-------------|
| Job Number | 3006332 | Date | 07-JUL-2023 |
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**NORTHWEST VANCOUVER ISLAND  
 TSUNAMI RISK ASSESSMENT PROJECT**

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

- |                       |                                 |
|-----------------------|---------------------------------|
| <b>TRANSPORTATION</b> | <b>ENERGY and UTILITIES</b>     |
| Bridge                | Power                           |
| Dock                  | <b>WATER</b>                    |
| <b>HEALTH</b>         | Sanitary Installation           |
| Health Centre         | Water Supply Component          |
| Ambulance Station     | <b>GOVERNMENT</b>               |
| <b>SAFETY</b>         | 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**

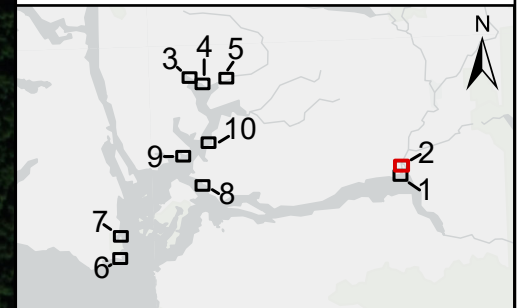
- Sanitary Installation
- Water Supply Component

**GOVERNMENT**

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

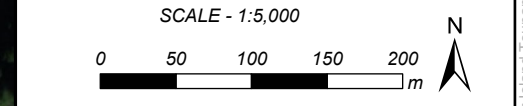
*Note: Only docks that are public or dedicated to residents are identified. Privately owned or operated docks not identified.*

Tsunami inundation hazard may exist beyond limit of inundation mapping.



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- INUNDATED UNPAVED ROAD
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- INUNDATED BUILDING
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- MAJOR CONTOUR AT 10 m INTERVAL  
*labelled with elevation in metres*
- MINOR CONTOUR AT 2 m INTERVAL

REFER TO INDEX MAP FOR COMPLETE NOTES.  
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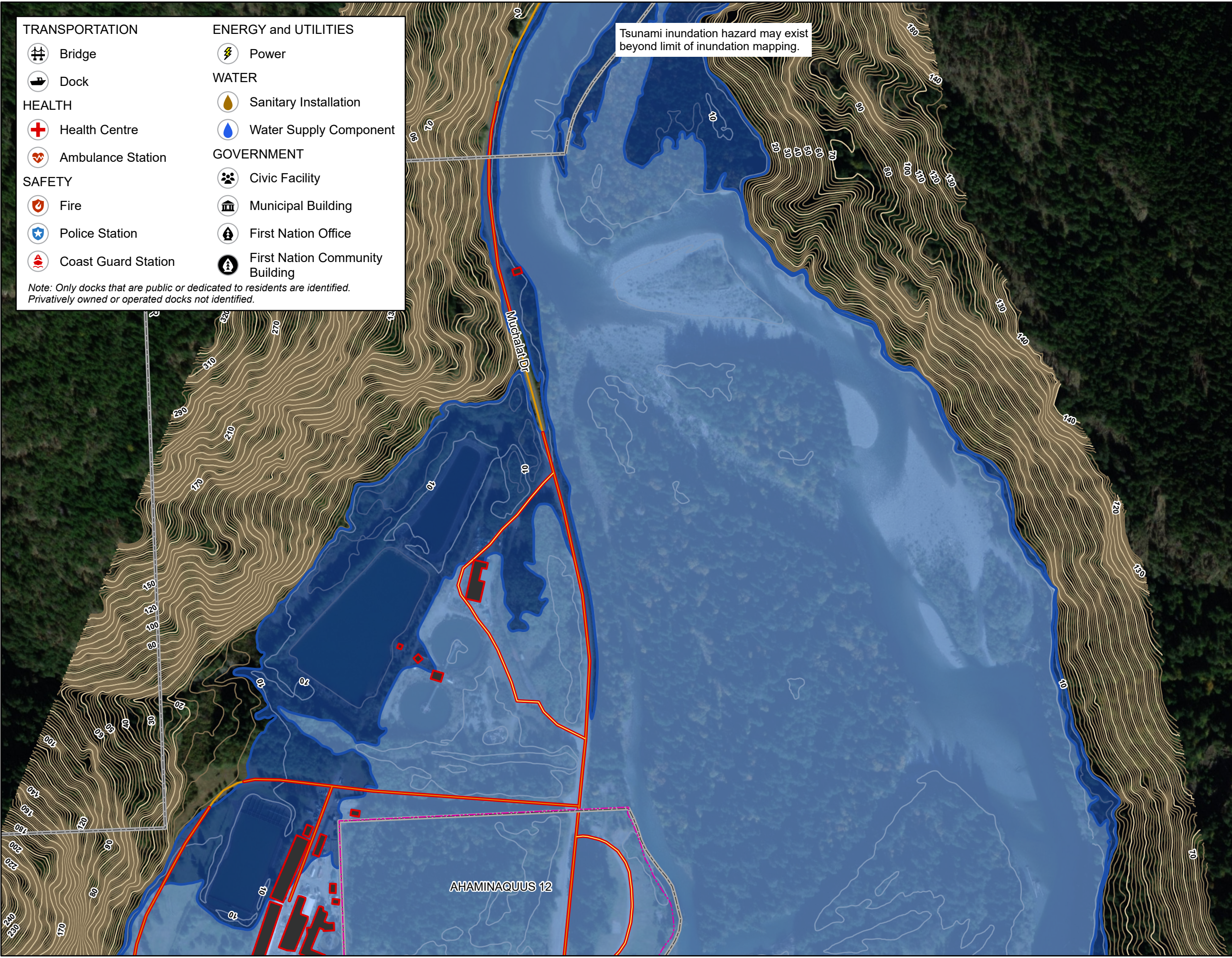


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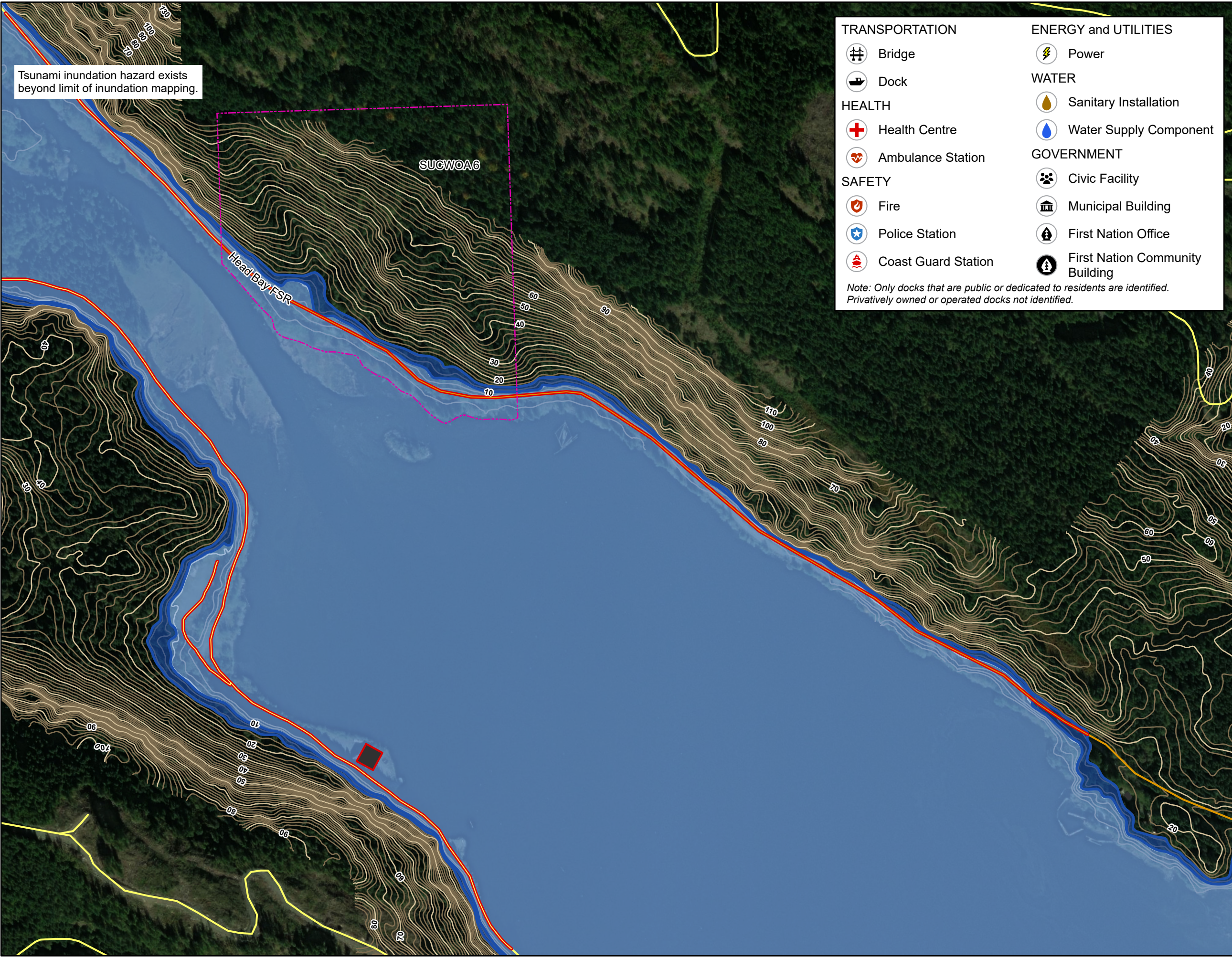
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|------------|---------|-----|------|-------------|-----|
| Engineer   | PSG     | GIS | SWM  | Reviewer    | GFL |
| Job Number | 3006332 |     | Date | 07-JUL-2023 |     |

**NORTHWEST VANCOUVER ISLAND  
 TSUNAMI RISK ASSESSMENT PROJECT**

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



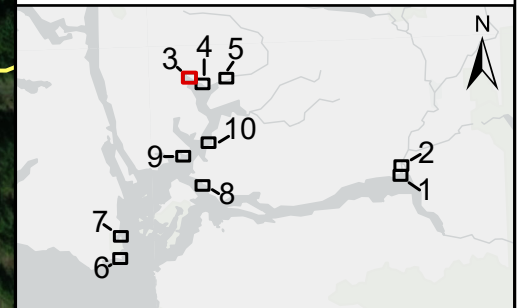
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Tsunami inundation hazard exists beyond limit of inundation mapping.

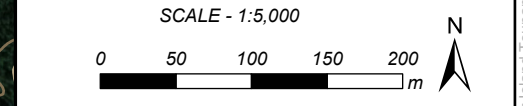
|                       |                                 |
|-----------------------|---------------------------------|
| <b>TRANSPORTATION</b> | <b>ENERGY and UTILITIES</b>     |
| Bridge                | Power                           |
| Dock                  | <b>WATER</b>                    |
| <b>HEALTH</b>         | Sanitary Installation           |
| Health Centre         | Water Supply Component          |
| Ambulance Station     | <b>GOVERNMENT</b>               |
| <b>SAFETY</b>         | 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                                                                 |
| 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<br><i>labelled with elevation in metres</i> |
| 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.  
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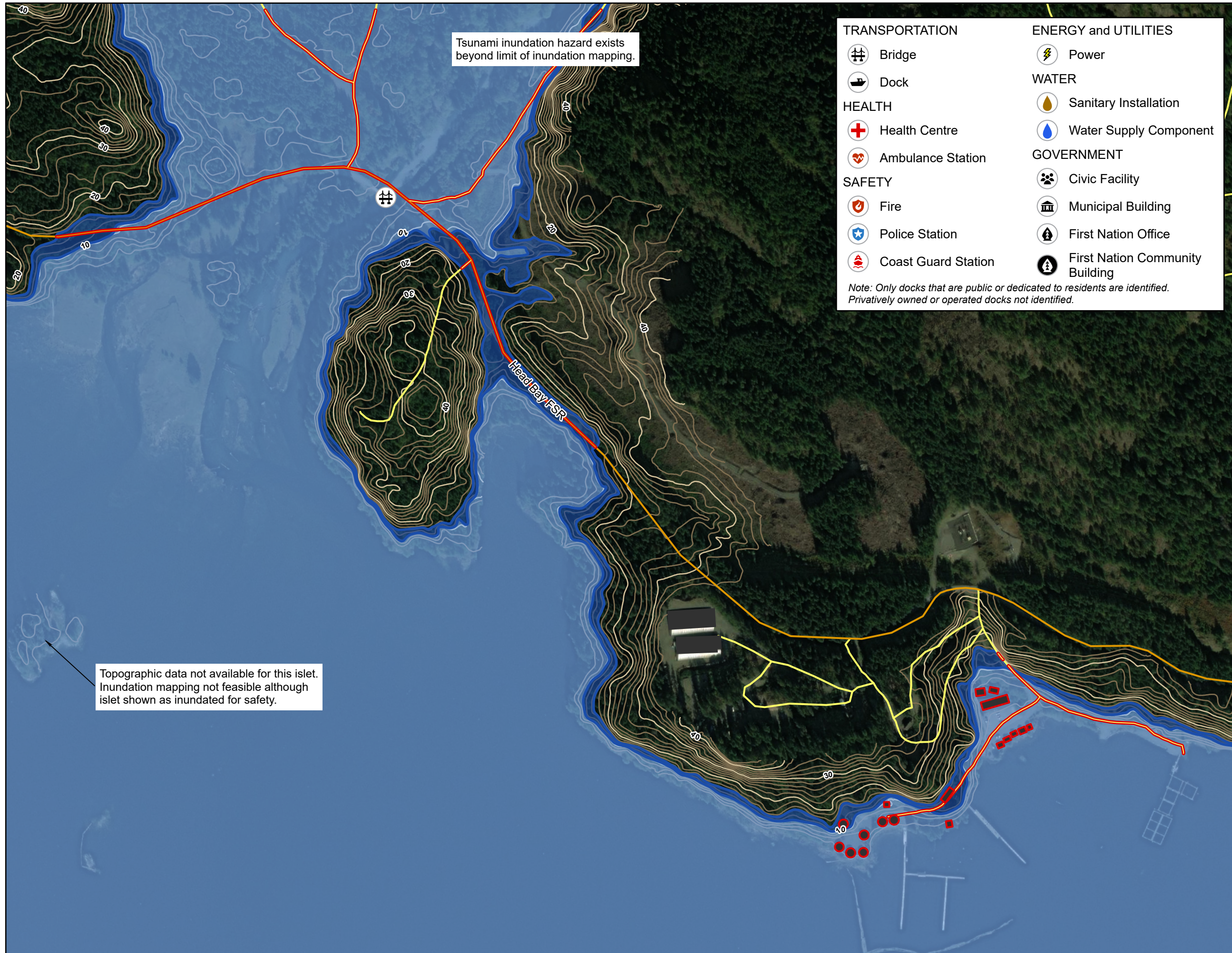


Coordinate System: NAD 1983 CSRS UTM ZONE 9N  
 Units: METRES; Vertical Datum: CGVD2013

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

**NORTHWEST VANCOUVER ISLAND  
 TSUNAMI RISK ASSESSMENT PROJECT**  
**HEAD BAY  
 INUNDATION LEVEL FOR  
 EMERGENCY PLANNING  
 CASCADIA TSUNAMI**

SWM: \\mainfile-van\Projects\Active\3006332 NW Vancouver Island Tsunami Risk Assessment - Phase 2\95 GIS\3006332\_map\_5K\_Asset\RiskMapping.aprx

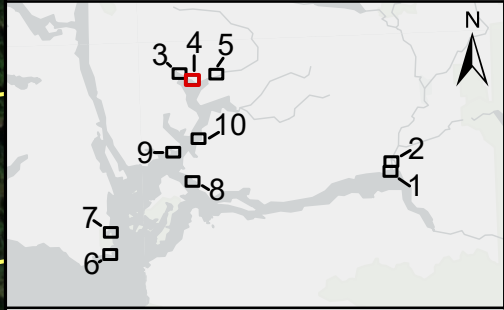


Tsunami inundation hazard exists beyond limit of inundation mapping.

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

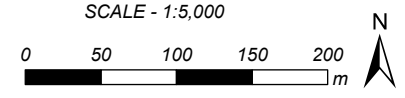
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| <b>TRANSPORTATION</b> | <b>ENERGY and UTILITIES</b>       |
| 🚶 Bridge              | ⚡ Power                           |
| 🚢 Dock                | <b>WATER</b>                      |
| <b>HEALTH</b>         | 💧 Sanitary Installation           |
| 🏠 Health Centre       | 💧 Water Supply Component          |
| 🚑 Ambulance Station   | <b>GOVERNMENT</b>                 |
| <b>SAFETY</b>         | 👤 Civic Facility                  |
| 🔥 Fire                | 🏛 Municipal Building              |
| 👮 Police Station      | 🏠 First Nation Office             |
| 🚢 Coast Guard Station | 🏠 First Nation Community 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.



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

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| Engineer   | PSG     | GIS | SWM  | Reviewer    | GFL |
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**NORTHWEST VANCOUVER ISLAND  
TSUNAMI RISK ASSESSMENT PROJECT**

**CANTON CREEK  
INUNDATION LEVEL FOR  
EMERGENCY PLANNING  
CASCADIA 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

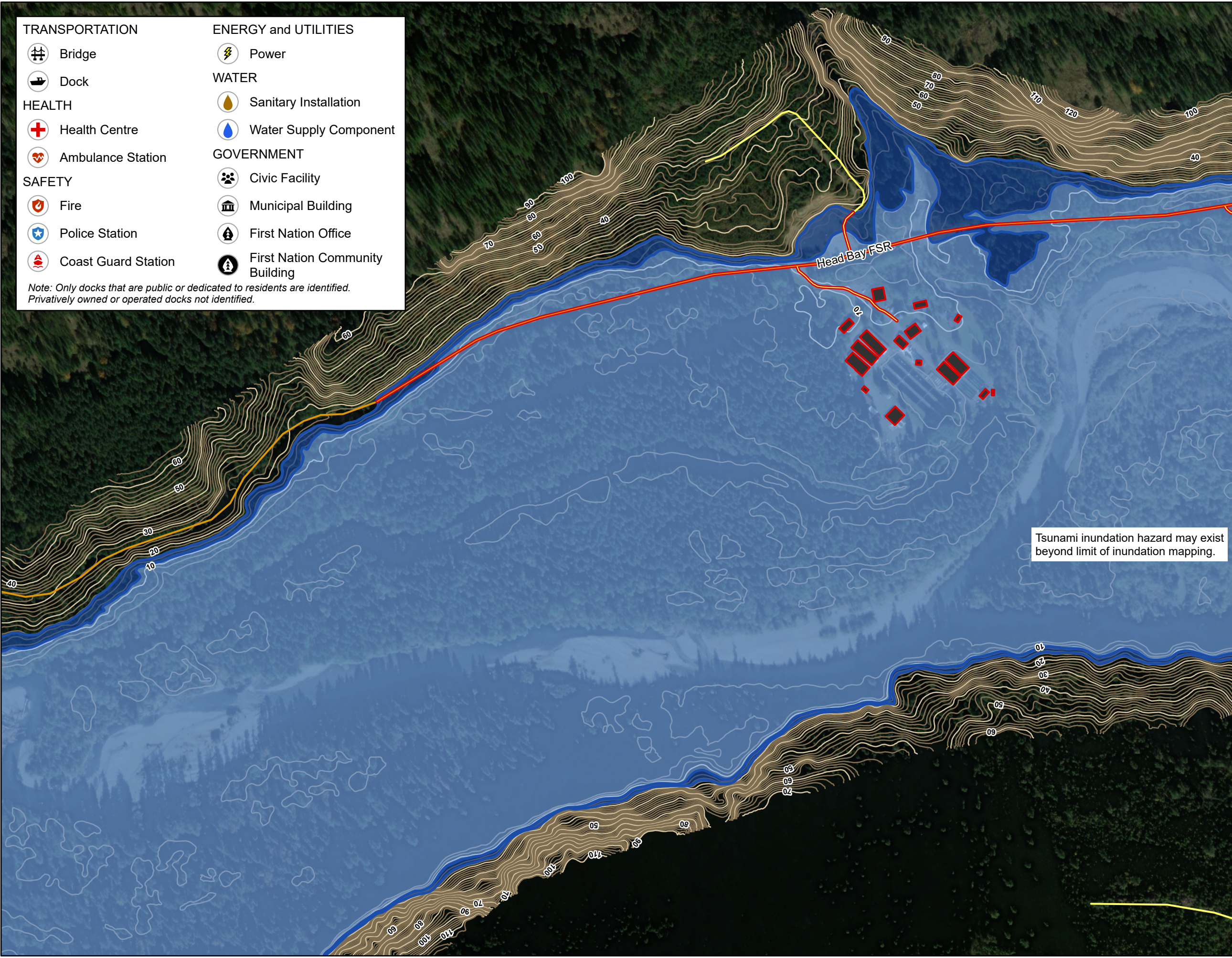
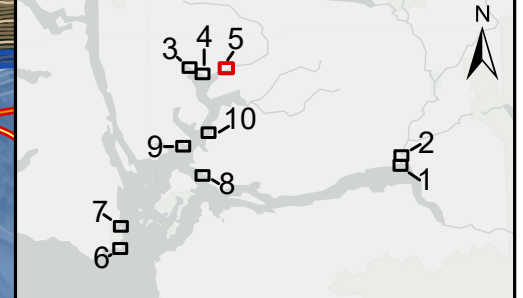
**WATER**

- Sanitary Installation
- Water Supply Component

**GOVERNMENT**

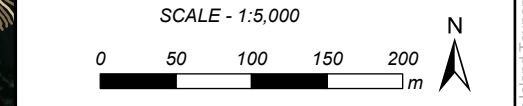
- Civic Facility
- Municipal Building
- First Nation Office
- First Nation Community Building

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



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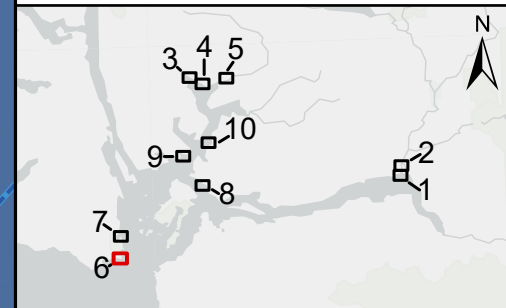
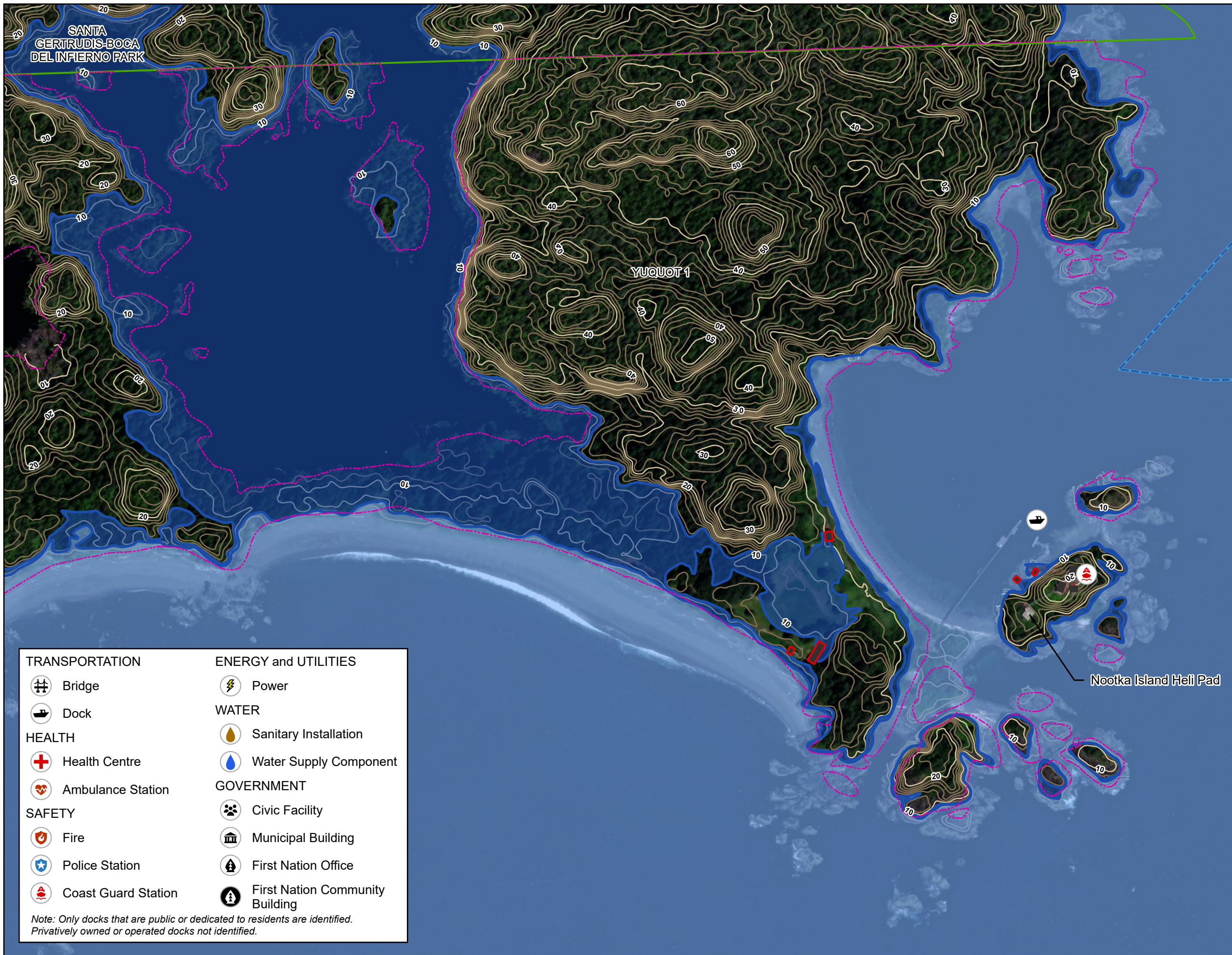
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| Engineer | PSG | GIS | SWM | Reviewer | GFL |
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**NORTHWEST VANCOUVER ISLAND  
TSUNAMI RISK ASSESSMENT PROJECT**

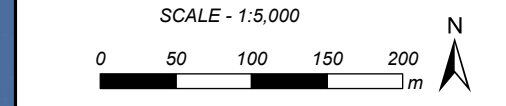
**CONUMA RIVER  
INUNDATION LEVEL FOR  
EMERGENCY PLANNING  
CASCADIA TSUNAMI**

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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NORTHWEST VANCOUVER ISLAND  
TSUNAMI RISK ASSESSMENT PROJECT

YUQUOT  
INUNDATION LEVEL FOR  
EMERGENCY PLANNING  
CASCADIA TSUNAMI

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

- Fire
- Police Station
- Coast Guard Station

**ENERGY and UTILITIES**

- Power

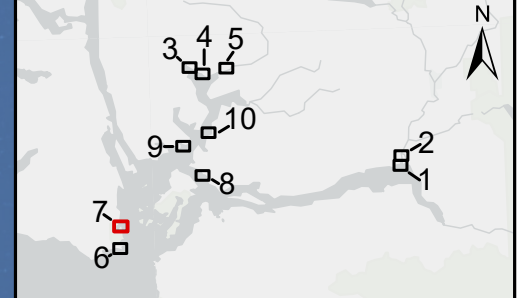
**WATER**

- Sanitary Installation
- Water Supply Component

**GOVERNMENT**

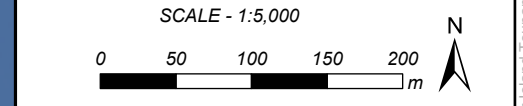
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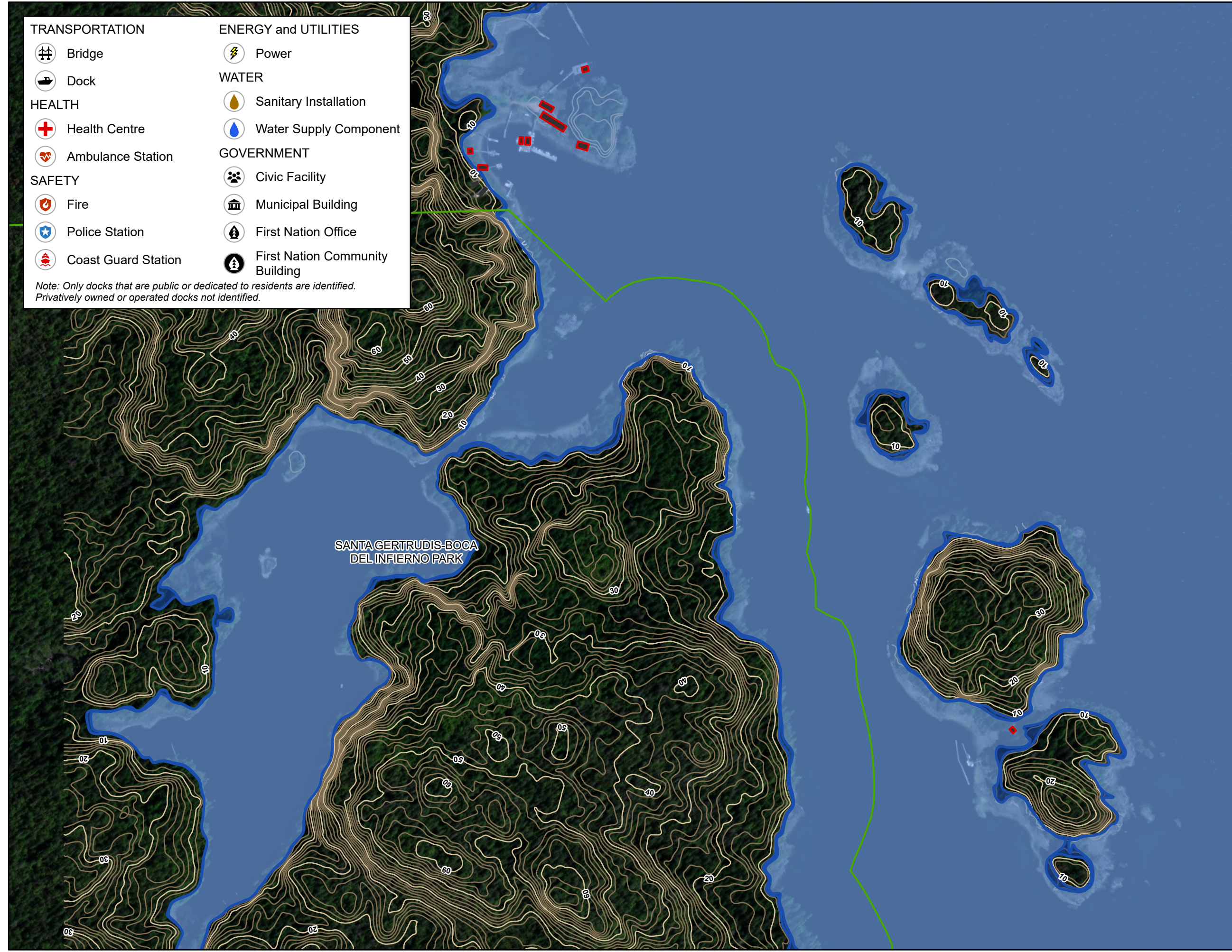
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|----------|-----|-----|-----|----------|-----|
| Engineer | PSG | GIS | SWM | Reviewer | GFL |
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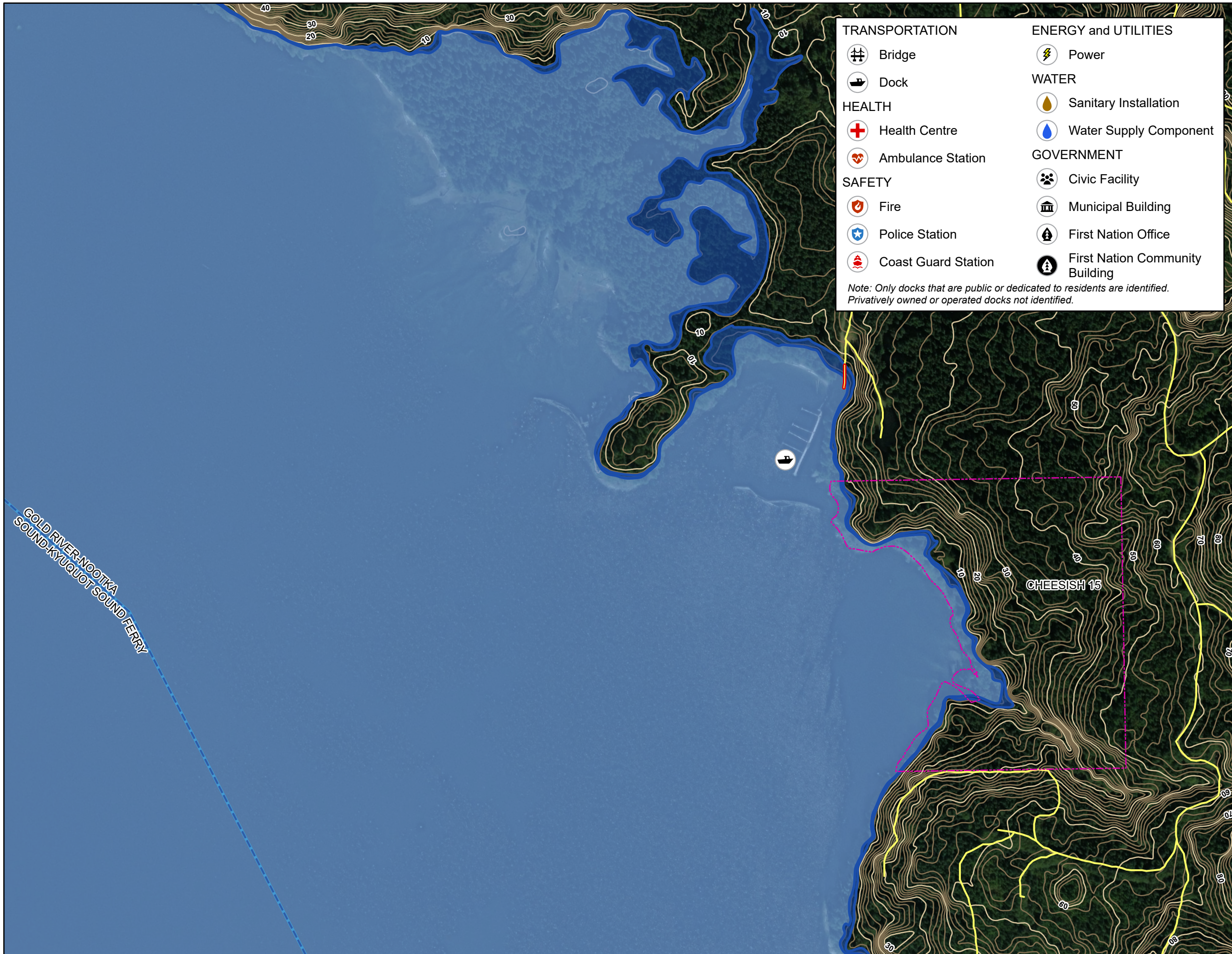
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| Job Number | 3006332 | Date | 07-JUL-2023 |
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**NORTHWEST VANCOUVER ISLAND  
TSUNAMI RISK ASSESSMENT PROJECT**

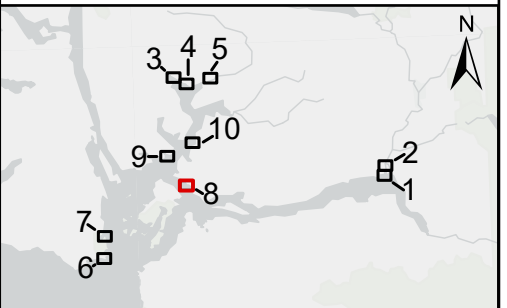
**MCKAY PASSAGE  
INUNDATION LEVEL FOR  
EMERGENCY PLANNING  
CASCADIA TSUNAMI**



SWM: \mainfile-van\Projects\Active\3006332 NW Vancouver Island Tsunami Risk Assessment - Phase 2\95 GIS\3006332\_map\_5K\_Asset\RiskMapping.aprx

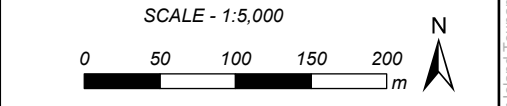


- |                       |                                 |
|-----------------------|---------------------------------|
| <b>TRANSPORTATION</b> | <b>ENERGY and UTILITIES</b>     |
| Bridge                | Power                           |
| Dock                  | <b>WATER</b>                    |
| <b>HEALTH</b>         | Sanitary Installation           |
| Health Centre         | Water Supply Component          |
| Ambulance Station     | <b>GOVERNMENT</b>               |
| <b>SAFETY</b>         | 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
- 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.



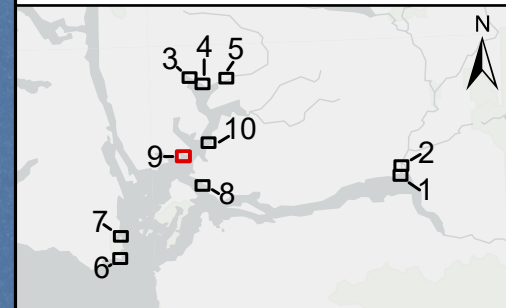
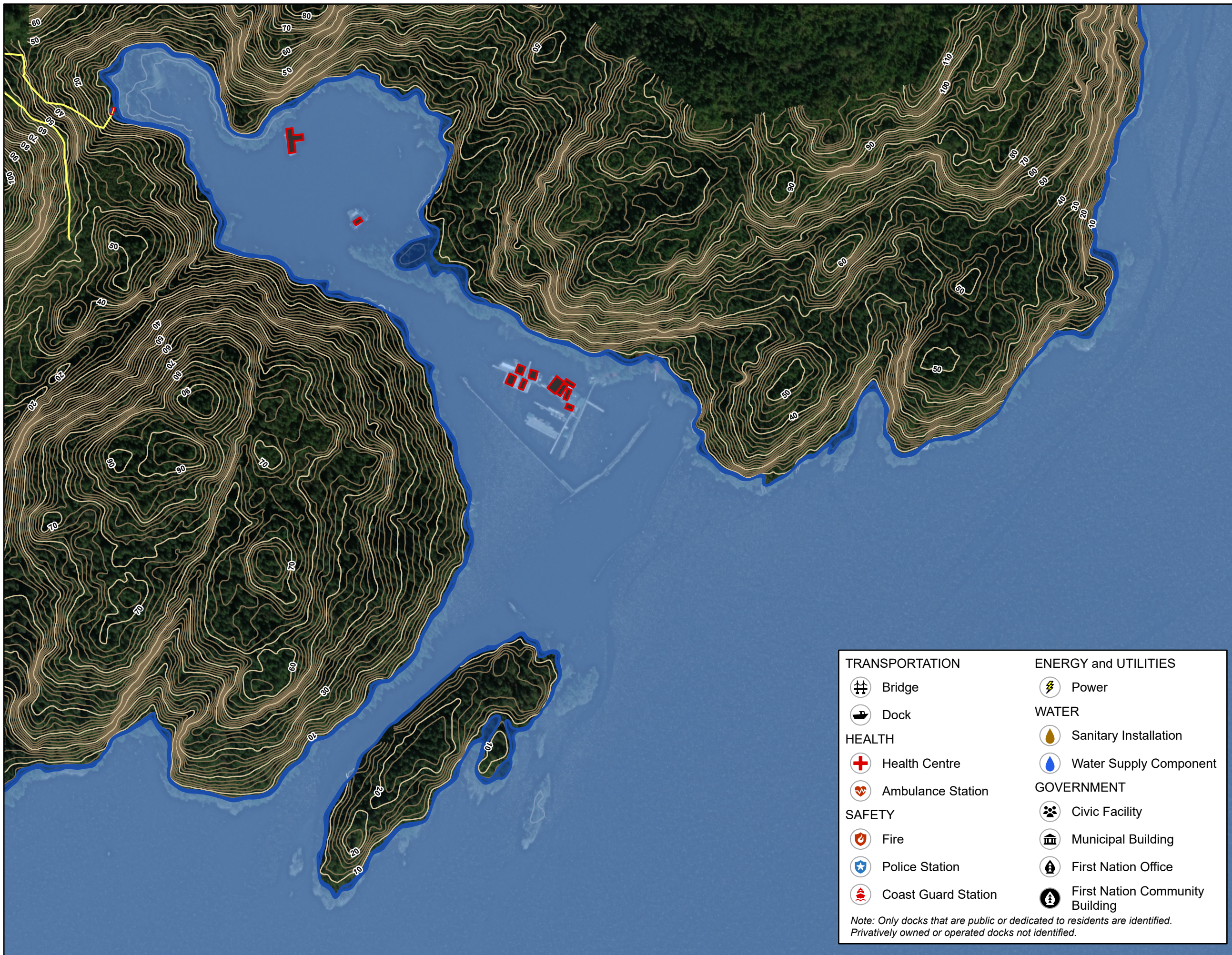
Coordinate System: NAD 1983 CSRS UTM ZONE 9N  
 Units: METRES; Vertical Datum: CGVD2013













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

**NORTHWEST VANCOUVER ISLAND  
 TSUNAMI RISK ASSESSMENT PROJECT**

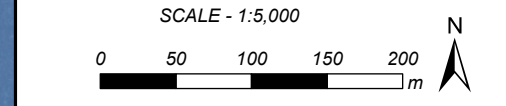
**CHEESISH  
 INUNDATION LEVEL FOR  
 EMERGENCY PLANNING  
 CASCADIA TSUNAMI**

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 |
|----------|-----|-----|-----|----------|-----|

|            |         |      |             |
|------------|---------|------|-------------|
| 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  
CASCADIA TSUNAMI




- |                                                                                                           |                                                                                                                       |
|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| <b>TRANSPORTATION</b>                                                                                     | <b>ENERGY and UTILITIES</b>                                                                                           |
|  Bridge              |  Power                           |
|  Dock                | <b>WATER</b>                                                                                                          |
| <b>HEALTH</b>                                                                                             |  Sanitary Installation           |
|  Health Centre       |  Water Supply Component          |
|  Ambulance Station   | <b>GOVERNMENT</b>                                                                                                     |
| <b>SAFETY</b>                                                                                             |  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

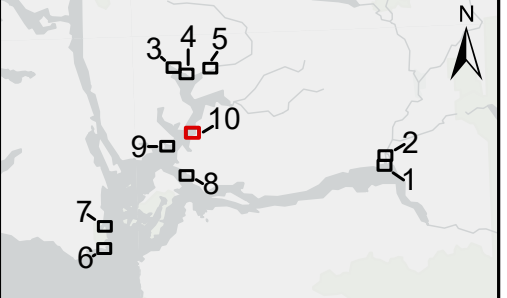
**ENERGY and UTILITIES**















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

**GOVERNMENT**

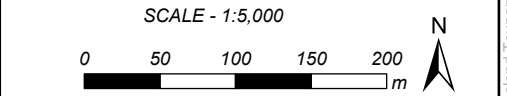
-  Civic Facility
-  Municipal Building
-  First Nation Office
-  First Nation Community Building

*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
-  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.

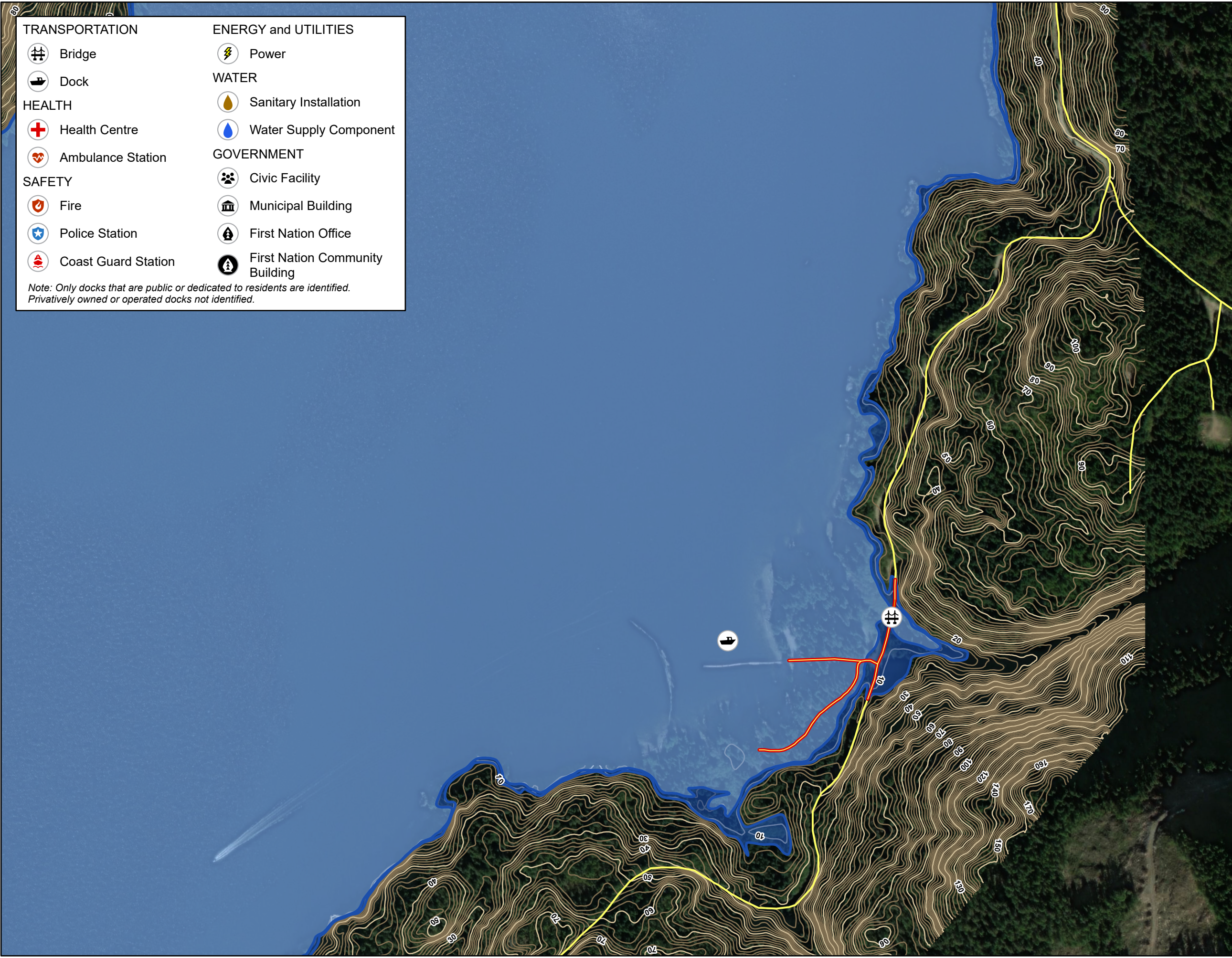


Coordinate System: NAD 1983 CSRS UTM ZONE 9N  
Units: METRES; Vertical Datum: CGVD2013

|          |     |     |     |          |     |
|----------|-----|-----|-----|----------|-----|
| Engineer | PSG | GIS | SWM | Reviewer | GFL |
|----------|-----|-----|-----|----------|-----|

|            |         |      |             |
|------------|---------|------|-------------|
| Job Number | 3006332 | Date | 07-JUL-2023 |
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**NORTHWEST VANCOUVER ISLAND  
TSUNAMI RISK ASSESSMENT PROJECT**  
**COUGAR CREEK  
INUNDATION LEVEL FOR  
EMERGENCY PLANNING  
CASCADIA 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

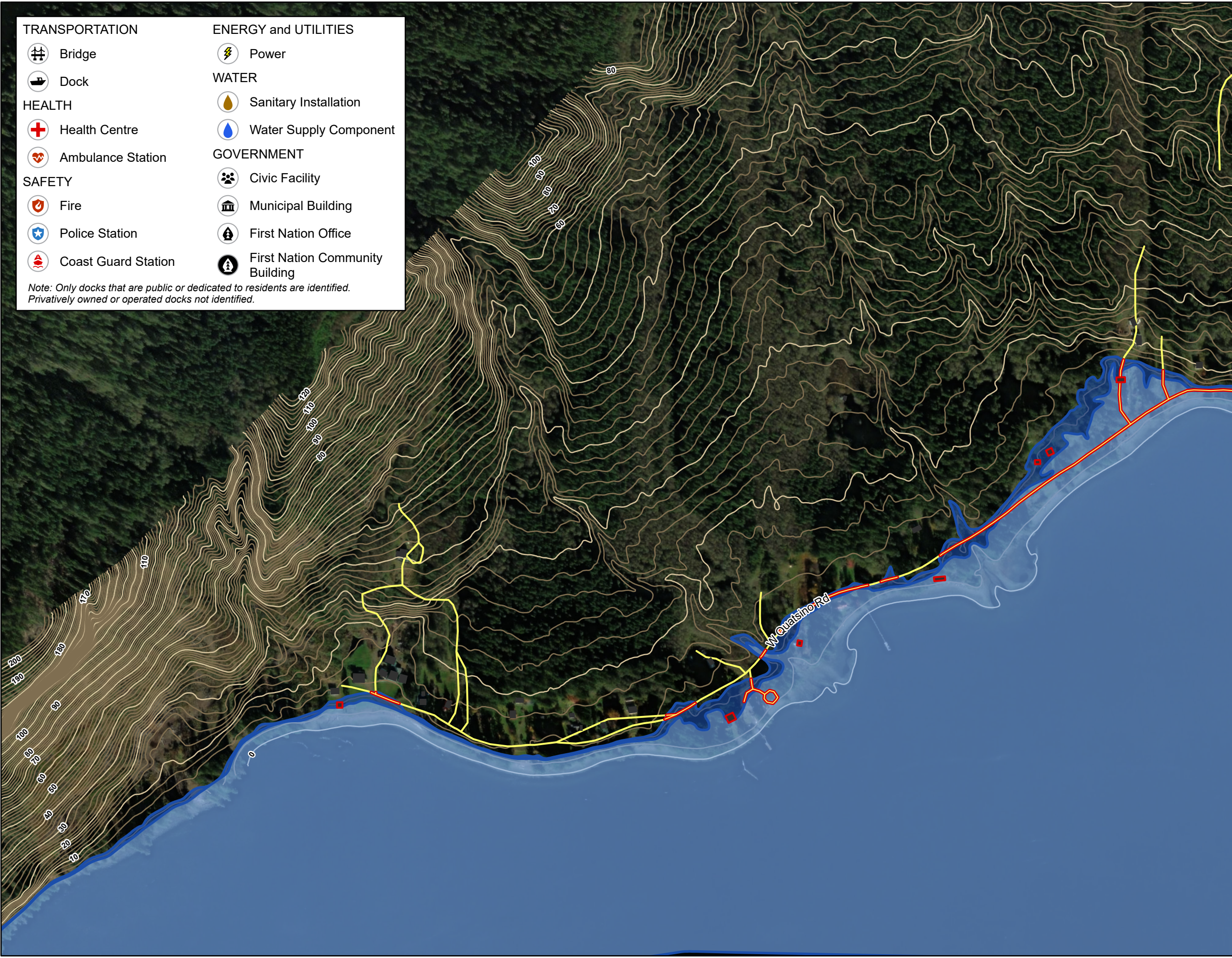
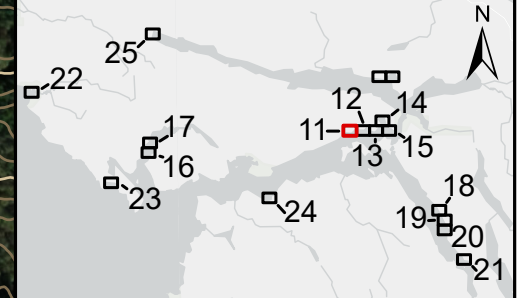
**WATER**

- Sanitary Installation
- Water Supply Component

**GOVERNMENT**

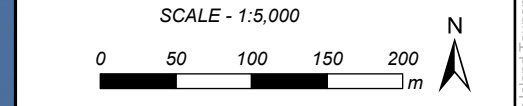
- Civic Facility
- Municipal Building
- First Nation Office
- First Nation Community Building

*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

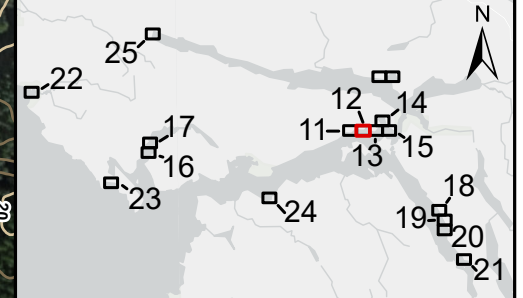
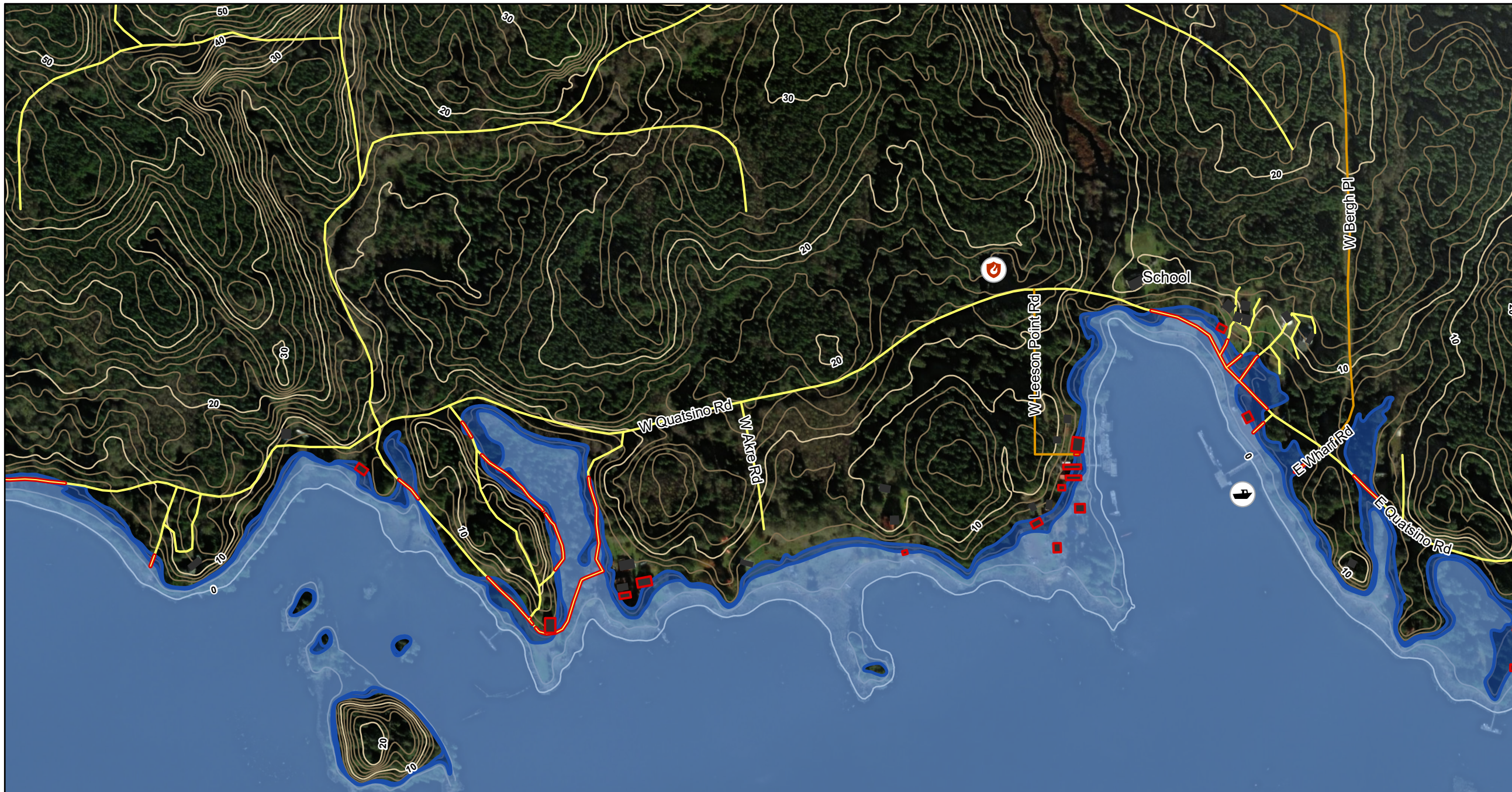
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| Engineer | PSG | GIS | SWM | Reviewer | GFL |
|----------|-----|-----|-----|----------|-----|

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| Job Number | 3006332 | Date | 07-JUL-2023 |
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**NORTHWEST VANCOUVER ISLAND  
 TSUNAMI RISK ASSESSMENT PROJECT**

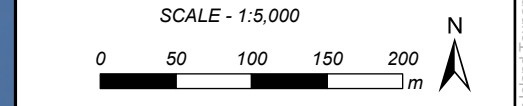
**QUATSINO WEST  
 INUNDATION LEVEL FOR  
 EMERGENCY PLANNING  
 CASCADIA TSUNAMI**

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- FERRY ROUTE
- PAVED ROAD
- UNPAVED ROAD
- INUNDATED PAVED ROAD
- INUNDATED UNPAVED ROAD
- BUILDING
- INUNDATED BUILDING
- INUNDATION EXTENTS WITH SAFETY FACTOR
- INUNDATION EXTENTS WITHOUT SAFETY FACTOR
- FIRST NATION ADMINISTRATIVE BOUNDARY
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*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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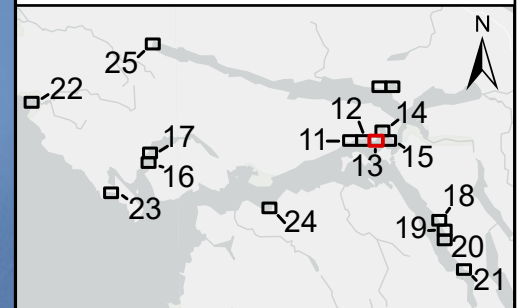
NORTHWEST VANCOUVER ISLAND  
TSUNAMI RISK ASSESSMENT PROJECT















QUATSINO CENTRE  
INUNDATION LEVEL FOR  
EMERGENCY PLANNING  
CASCADIA TSUNAMI

- |                       |                                 |
|-----------------------|---------------------------------|
| <b>TRANSPORTATION</b> | <b>ENERGY and UTILITIES</b>     |
| Bridge                | Power                           |
| Dock                  | <b>WATER</b>                    |
| <b>HEALTH</b>         | Sanitary Installation           |
| Health Centre         | Water Supply Component          |
| Ambulance Station     | <b>GOVERNMENT</b>               |
| <b>SAFETY</b>         | 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.

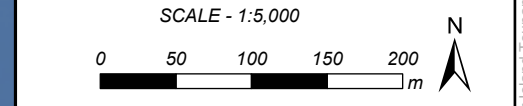
Topographic data not available for this islet. Inundation mapping not feasible although islet shown as inundated for safety.

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-  FERRY ROUTE
-  PAVED ROAD
-  UNPAVED ROAD
-  INUNDATED PAVED ROAD
-  INUNDATED UNPAVED ROAD
-  BUILDING
-  INUNDATED BUILDING
-  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.



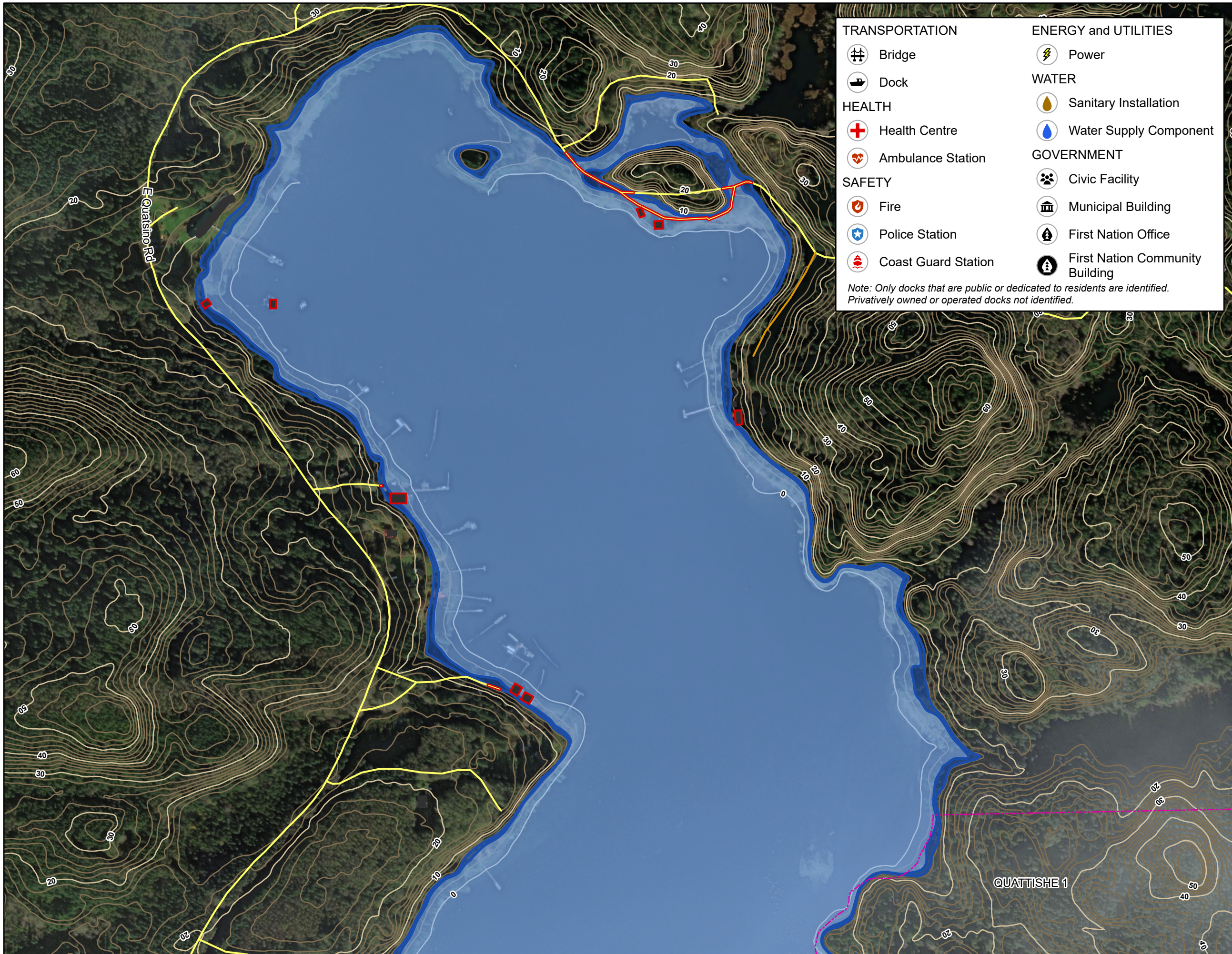
Coordinate System: NAD 1983 CSRS UTM ZONE 9N  
 Units: METRES; Vertical Datum: CGVD2013

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

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

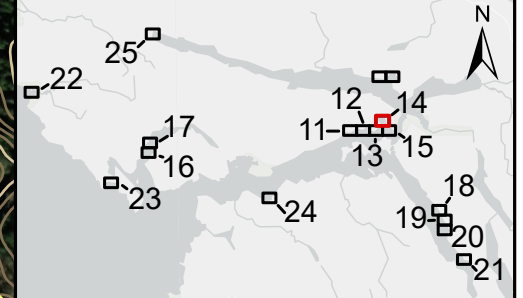
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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>TRANSPORTATION</b><br> Bridge<br> Dock<br><b>HEALTH</b><br> Health Centre<br> Ambulance Station<br><b>SAFETY</b><br> Fire<br> Police Station<br> Coast Guard Station | <b>ENERGY and UTILITIES</b><br> Power<br><b>WATER</b><br> Sanitary Installation<br> Water Supply Component<br><b>GOVERNMENT</b><br> Civic Facility<br> Municipal Building<br> First Nation Office<br> First Nation Community Building |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
- 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\_AssetA\RiskMapping.aprx



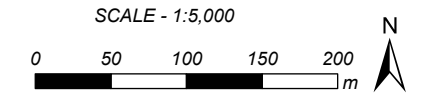
- TRANSPORTATION**
- Bridge
  - Dock
- HEALTH**
- Health Centre
  - Ambulance Station
- SAFETY**
- Fire
  - Police Station
  - Coast Guard Station
- ENERGY and UTILITIES**
- Power
- WATER**
- Sanitary Installation
  - Water Supply Component
- GOVERNMENT**
- Civic Facility
  - Municipal Building
  - First 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
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- INUNDATION EXTENTS WITHOUT SAFETY FACTOR
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- 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

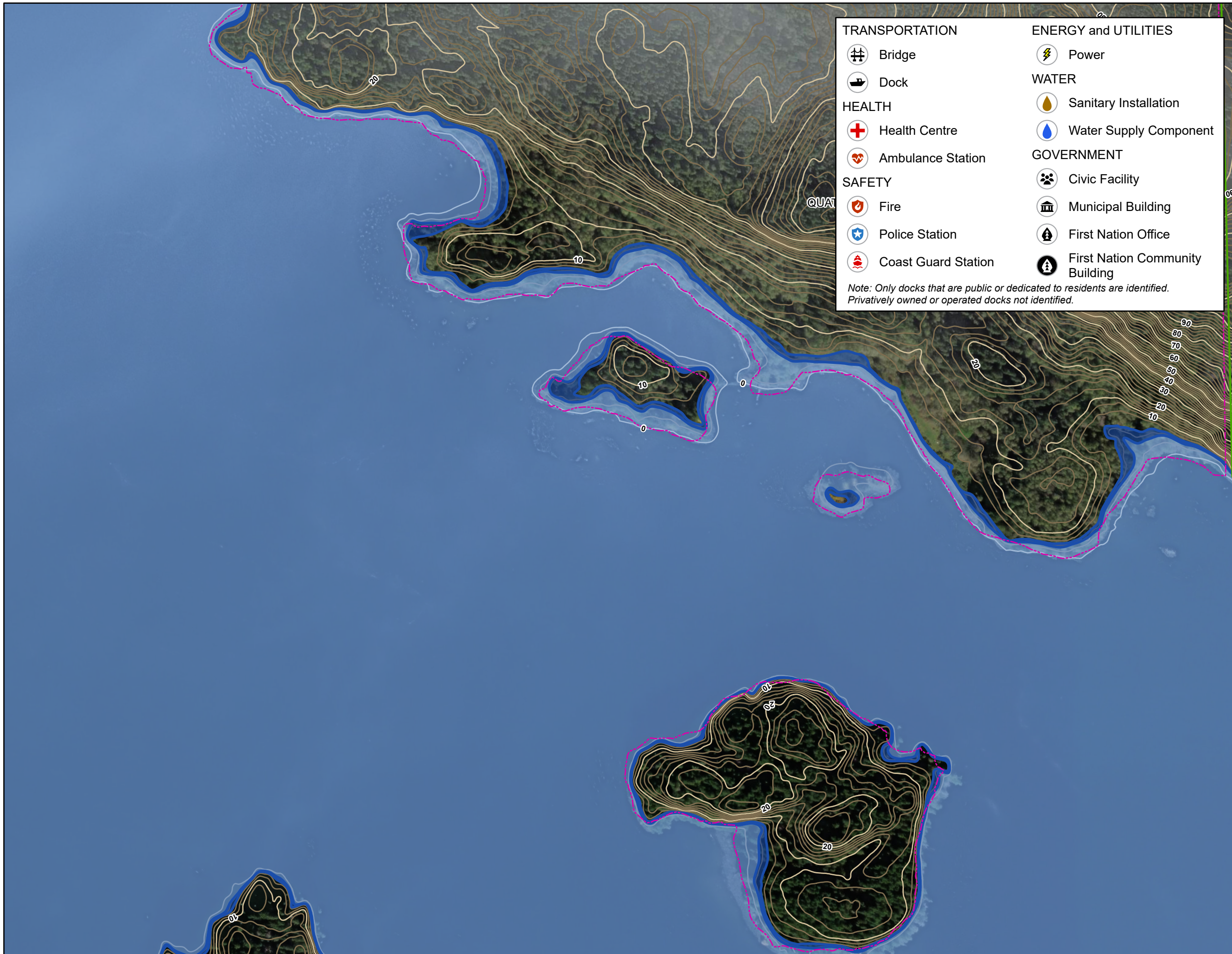
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|----------|-----|-----|-----|----------|-----|
| Engineer | PSG | GIS | SWM | Reviewer | GFL |
|----------|-----|-----|-----|----------|-----|

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|------------|---------|------|-------------|
| Job Number | 3006332 | Date | 07-JUL-2023 |
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**NORTHWEST VANCOUVER ISLAND  
TSUNAMI RISK ASSESSMENT PROJECT**

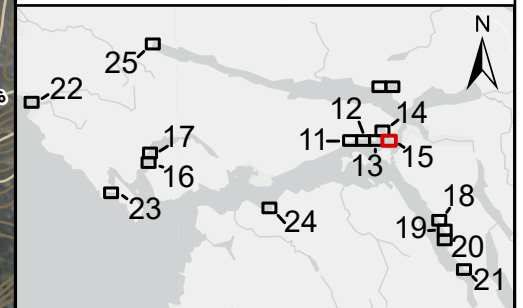
**HECATE COVE  
INUNDATION LEVEL FOR  
EMERGENCY PLANNING  
CASCADIA TSUNAMI**

SWM: \mainfile-van\Projects\Active\3006332 NW Vancouver Island Tsunami Risk Assessment - Phase 2\95 GIS\3006332\_map\_5K\_Asset\RiskMapping.aprx



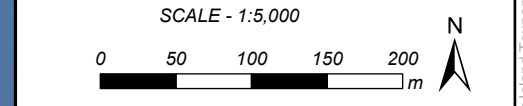
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|-----------------------|---------------------------------|
| <b>TRANSPORTATION</b> | <b>ENERGY and UTILITIES</b>     |
| Bridge                | Power                           |
| Dock                  | <b>WATER</b>                    |
| <b>HEALTH</b>         | Sanitary Installation           |
| Health Centre         | Water Supply Component          |
| Ambulance Station     | <b>GOVERNMENT</b>               |
| <b>SAFETY</b>         | Civic Facility                  |
| Fire                  | Municipal Building              |
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| 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                                                                 |
| 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<br><i>labelled with elevation in metres</i> |
| 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.



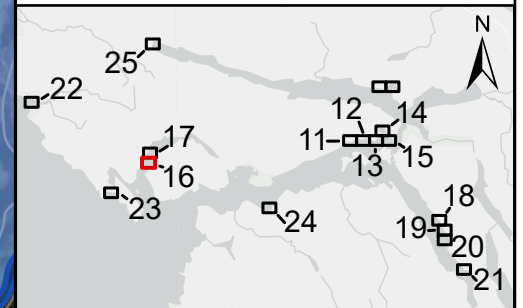
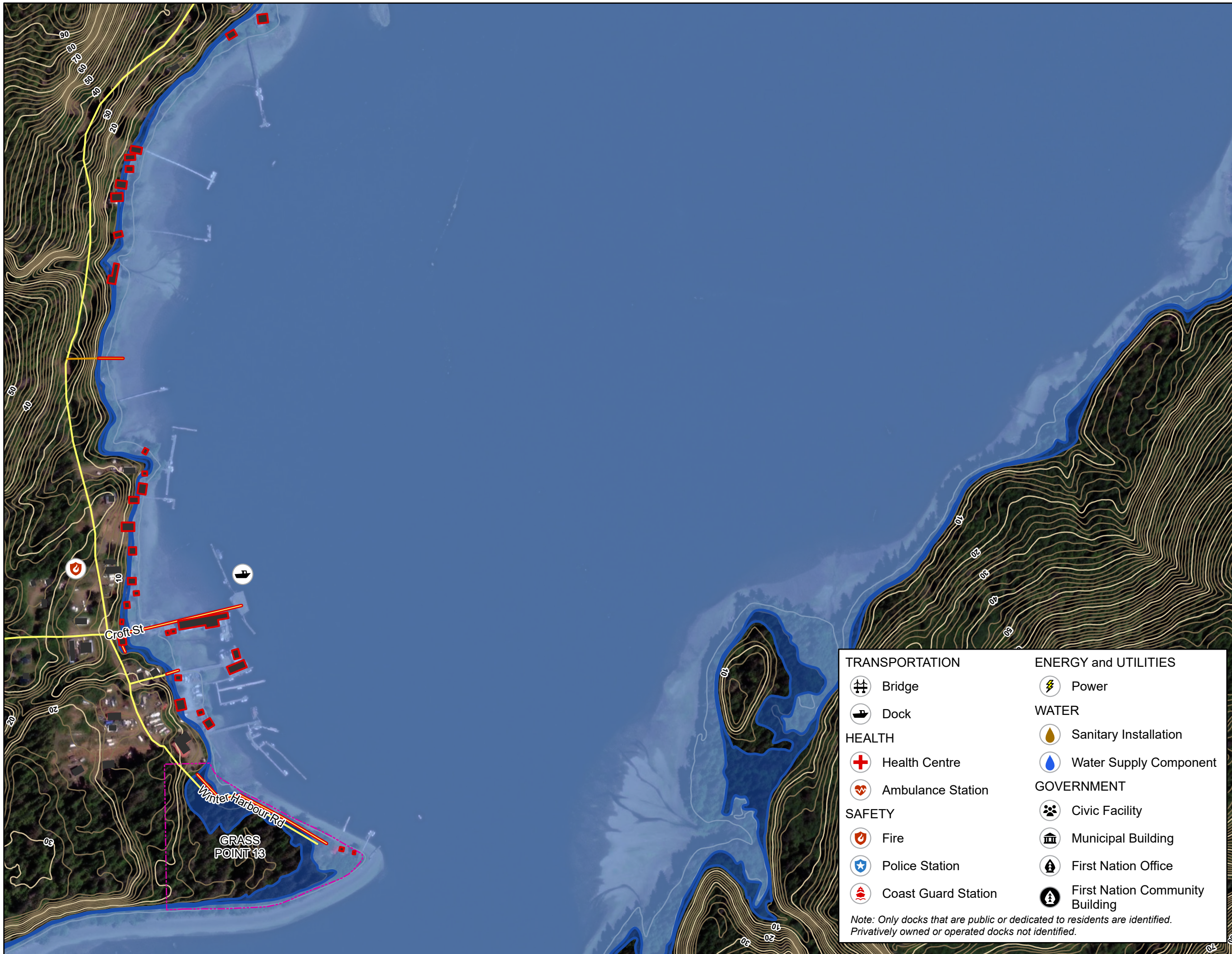
Coordinate System: NAD 1983 CSRS UTM ZONE 9N  
 Units: METRES; Vertical Datum: CGVD2013

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

**NORTHWEST VANCOUVER ISLAND  
 TSUNAMI RISK ASSESSMENT PROJECT**

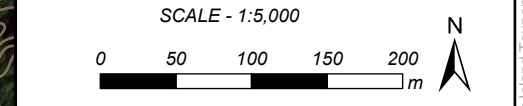
**QUATTISHE  
 INUNDATION LEVEL FOR  
 EMERGENCY PLANNING  
 CASCADIA TSUNAMI**

SWM, \mainfile-van\Projects\Active\3006332 NW Vancouver Island Tsunami Risk Assessment - Phase 2\95 GIS\3006332\_map\_5K\_Asse\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

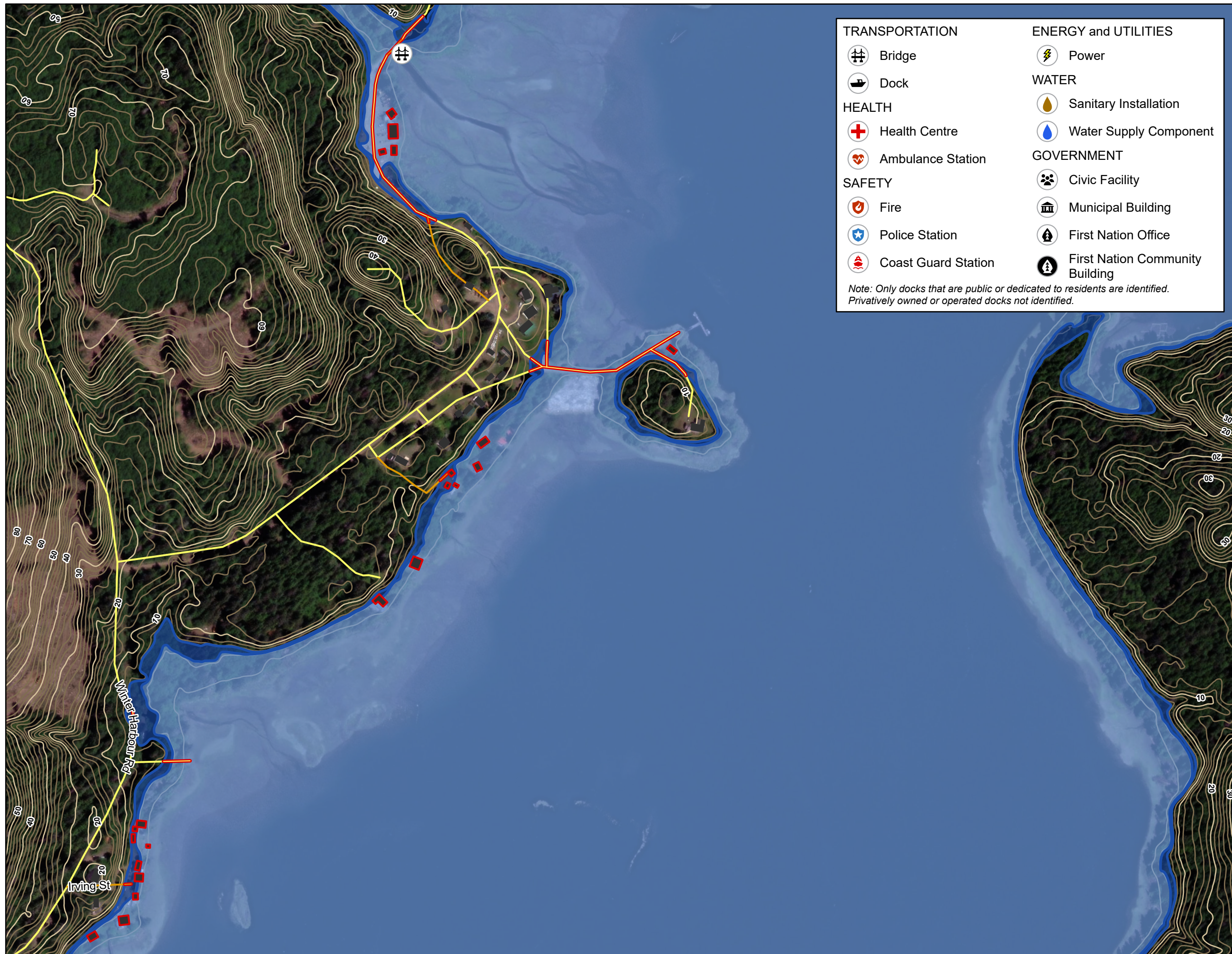
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| Engineer   | PSG     | GIS | SWM  | Reviewer    | GFL |
| Job Number | 3006332 |     | Date | 07-JUL-2023 |     |

**NORTHWEST VANCOUVER ISLAND  
TSUNAMI RISK ASSESSMENT PROJECT**

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

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

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**TRANSPORTATION**

- Bridge
- Dock

**HEALTH**

- Health Centre
- Ambulance Station

**SAFETY**

- Fire
- Police Station
- Coast Guard Station

**ENERGY and UTILITIES**

- Power

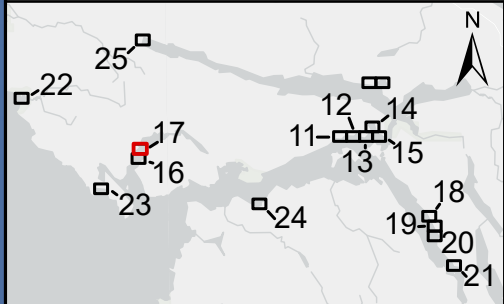
**WATER**

- Sanitary Installation
- Water Supply Component

**GOVERNMENT**

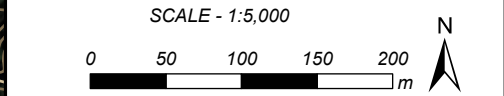
- Civic Facility
- Municipal Building
- First Nation Office
- First Nation Community Building

*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
- MUNICIPAL BOUNDARY
- PROVINCIAL PARK
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*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

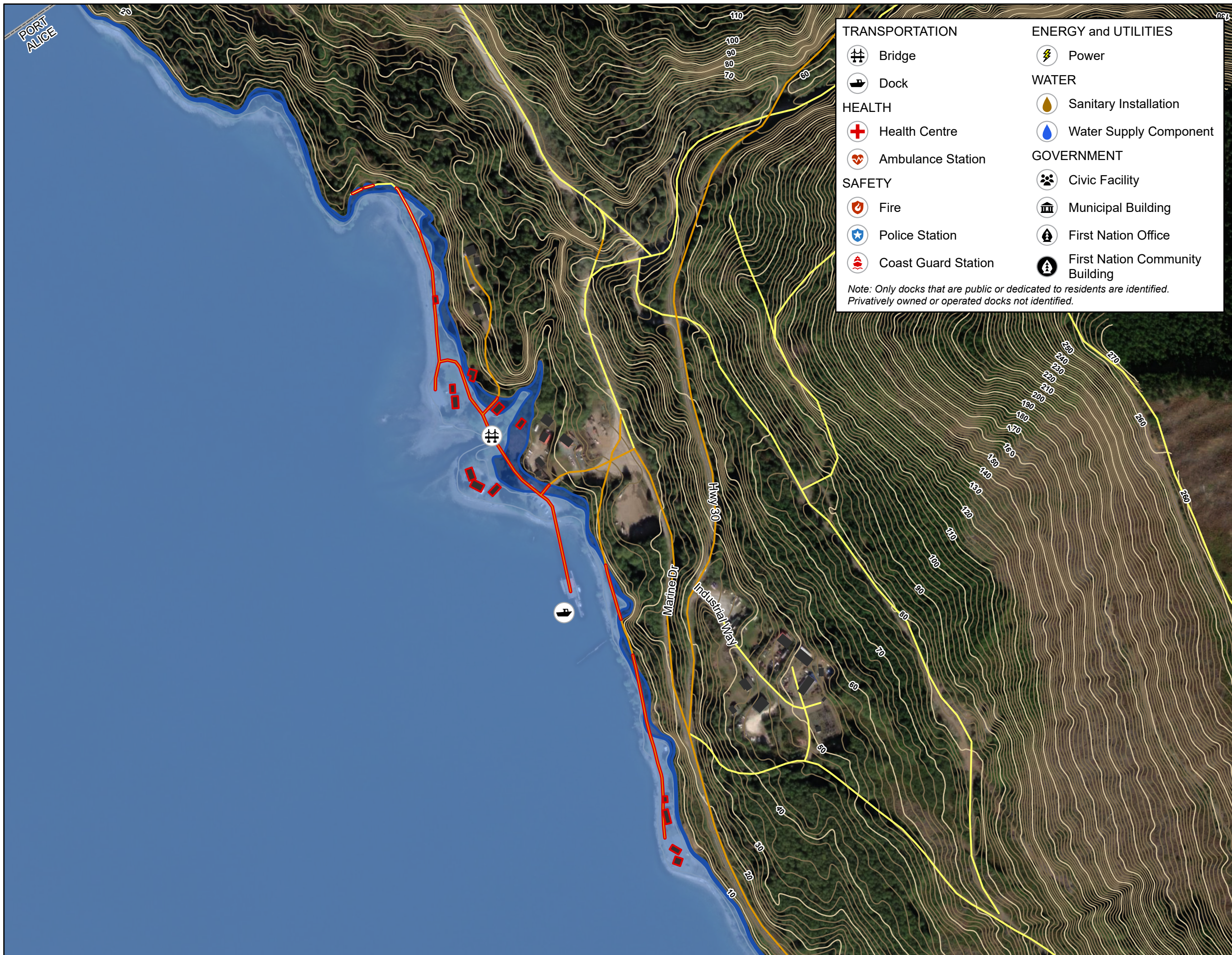
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|----------|-----|-----|-----|----------|-----|
| Engineer | PSG | GIS | SWM | Reviewer | GFL |
|----------|-----|-----|-----|----------|-----|

|            |         |      |             |
|------------|---------|------|-------------|
| Job Number | 3006332 | Date | 07-JUL-2023 |
|------------|---------|------|-------------|

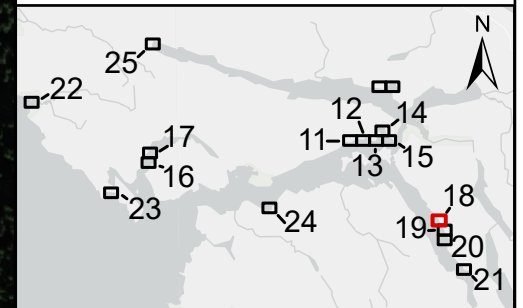
**NORTHWEST VANCOUVER ISLAND  
TSUNAMI RISK ASSESSMENT PROJECT**

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

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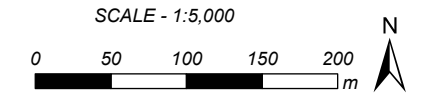


- TRANSPORTATION**
- Bridge
  - Dock
- HEALTH**
- Health Centre
  - Ambulance Station
- SAFETY**
- Fire
  - Police Station
  - Coast Guard Station
- ENERGY and UTILITIES**
- Power
- WATER**
- Sanitary Installation
  - Water Supply Component
- GOVERNMENT**
- Civic Facility
  - Municipal Building
  - First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



- 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.  
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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.



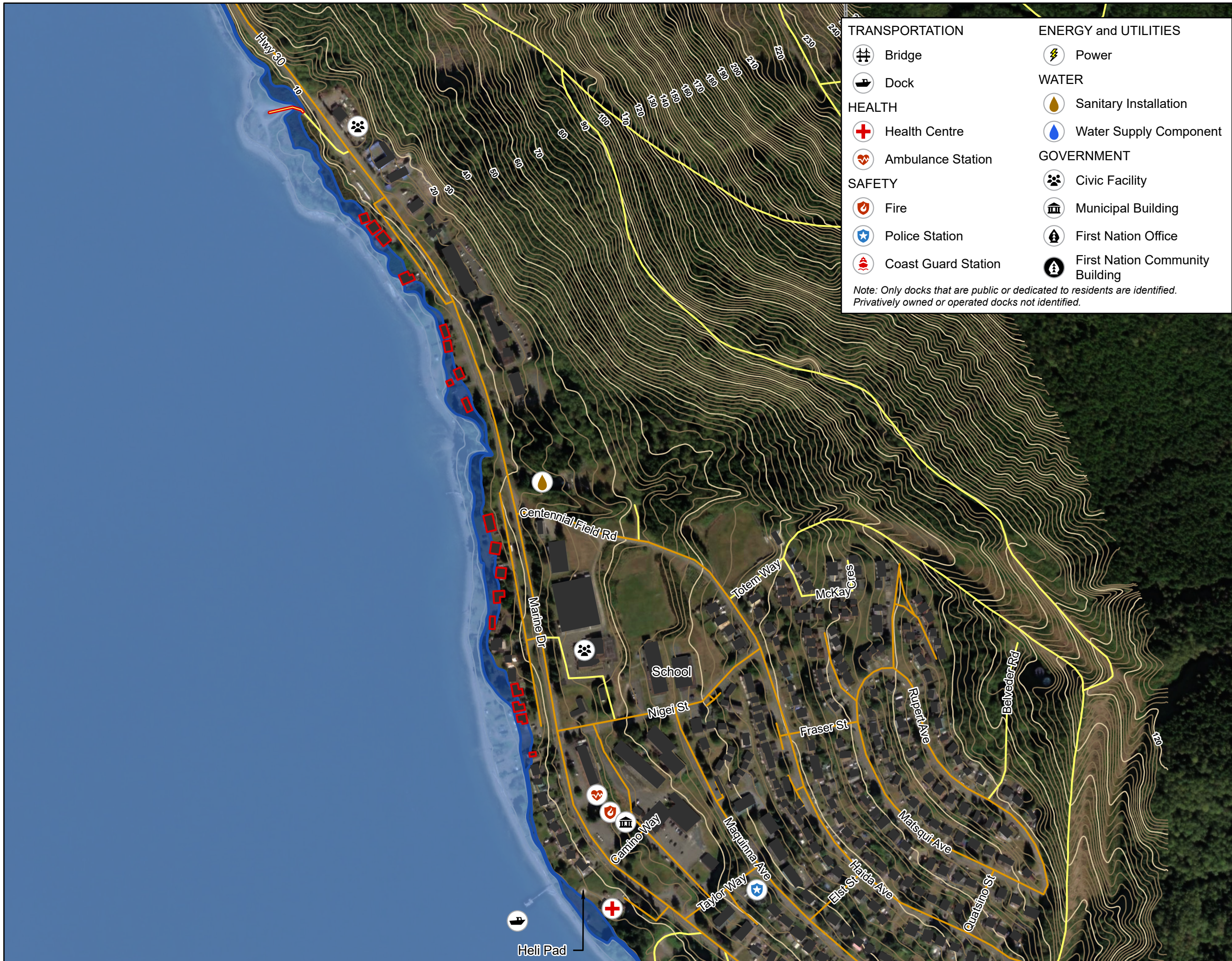
Coordinate System: NAD 1983 CSRS UTM ZONE 9N  
 Units: METRES; Vertical Datum: CGVD2013

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

**NORTHWEST VANCOUVER ISLAND  
 TSUNAMI RISK ASSESSMENT PROJECT**

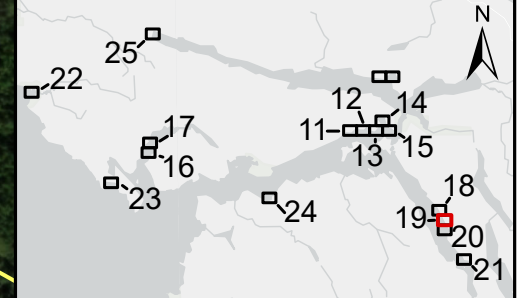
**JEUNE LANDING  
 INUNDATION LEVEL FOR  
 EMERGENCY PLANNING  
 CASCADIA TSUNAMI**

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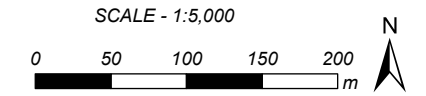
- TRANSPORTATION**
- Bridge
  - Dock
- HEALTH**
- Health Centre
  - Ambulance Station
- SAFETY**
- Fire
  - Police Station
  - Coast Guard Station
- ENERGY and UTILITIES**
- Power
- WATER**
- Sanitary Installation
  - Water Supply Component
- GOVERNMENT**
- Civic Facility
  - Municipal Building
  - First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



- 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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- 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**




**PORT ALICE  
INUNDATION LEVEL FOR  
EMERGENCY PLANNING  
CASCADIA 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

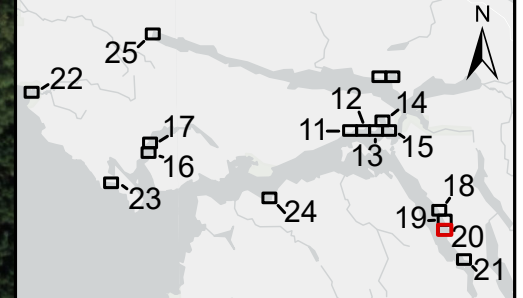
**GOVERNMENT**















-  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.*

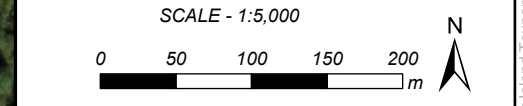
Heli Pad

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



-  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
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-  PROVINCIAL PARK
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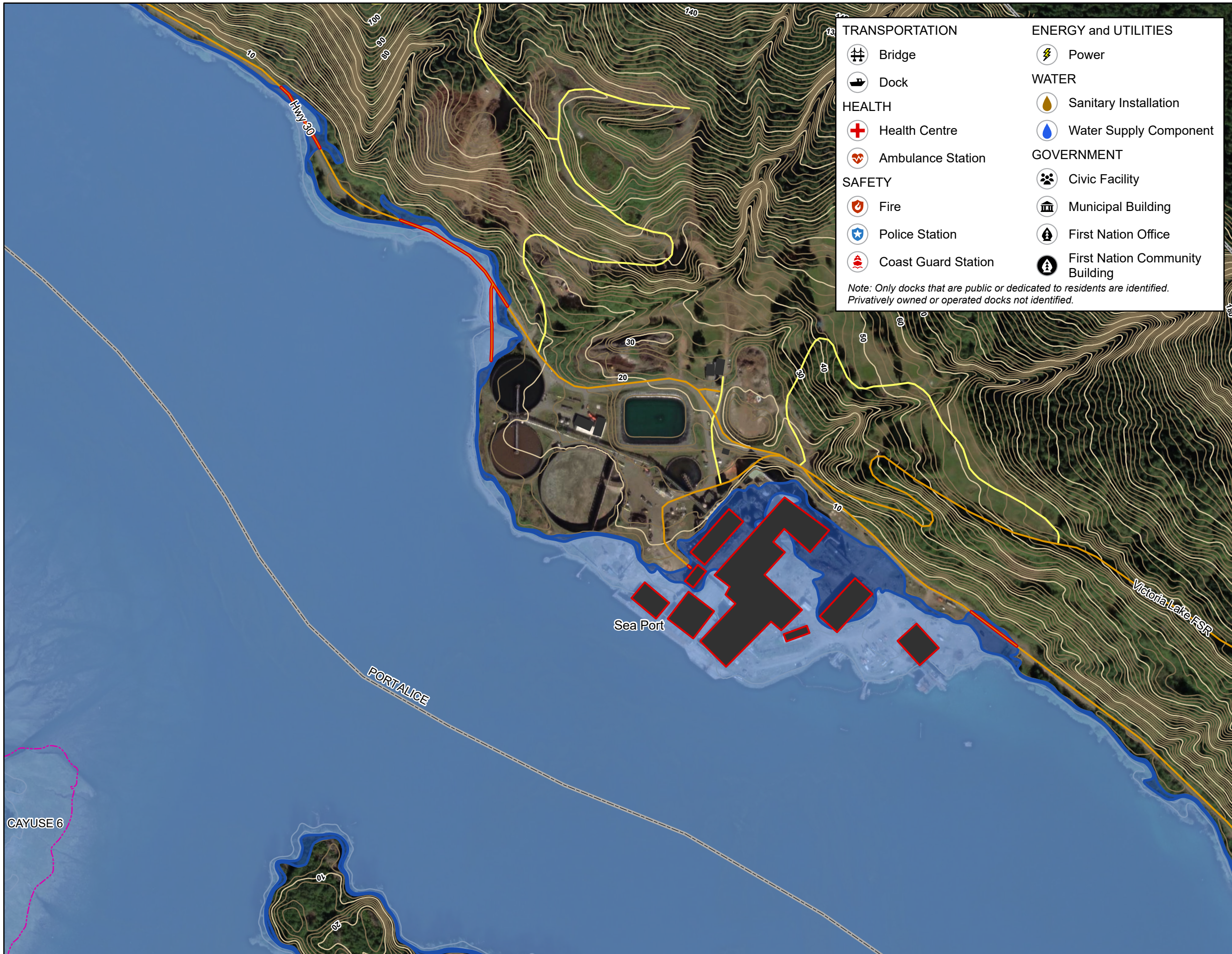
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| Engineer | PSG | GIS | SWM | Reviewer | GFL |
|----------|-----|-----|-----|----------|-----|

|            |         |      |             |
|------------|---------|------|-------------|
| Job Number | 3006332 | Date | 07-JUL-2023 |
|------------|---------|------|-------------|

**NORTHWEST VANCOUVER ISLAND  
TSUNAMI RISK ASSESSMENT PROJECT**

**RUMBLE BEACH  
INUNDATION LEVEL FOR  
EMERGENCY PLANNING  
CASCADIA 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

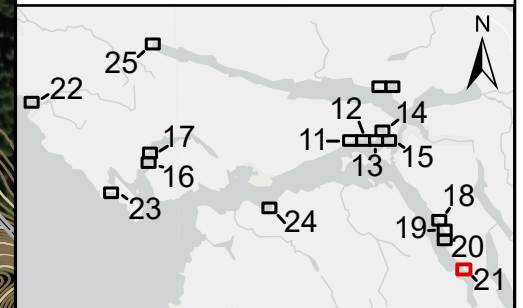
**WATER**

- Sanitary Installation
- Water Supply Component

**GOVERNMENT**

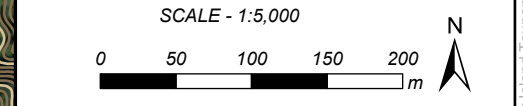
- Civic Facility
- Municipal Building
- First Nation Office
- First Nation Community Building

*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
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- INUNDATION EXTENTS WITHOUT SAFETY FACTOR
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- 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.



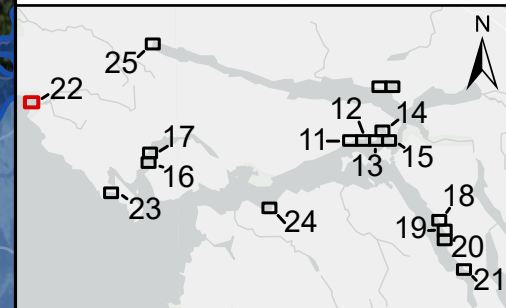
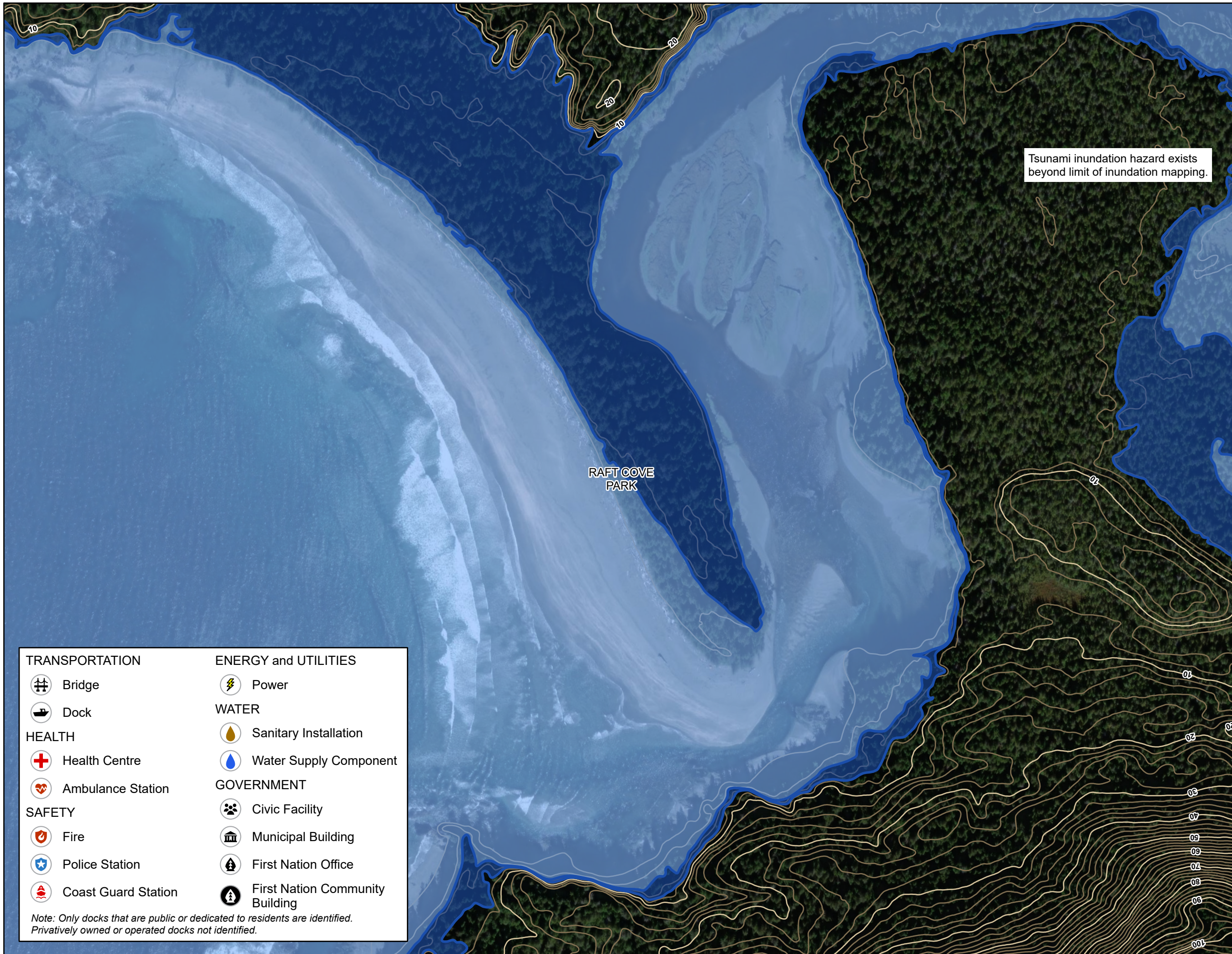
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 Units: METRES; Vertical Datum: CGVD2013

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

**NORTHWEST VANCOUVER ISLAND  
 TSUNAMI RISK ASSESSMENT PROJECT**

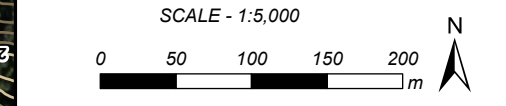
**PORT ALICE TERMINAL  
 INUNDATION LEVEL FOR  
 EMERGENCY PLANNING  
 CASCADIA TSUNAMI**

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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- INUNDATION EXTENTS WITHOUT SAFETY FACTOR
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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 |
|----------|-----|-----|-----|----------|-----|

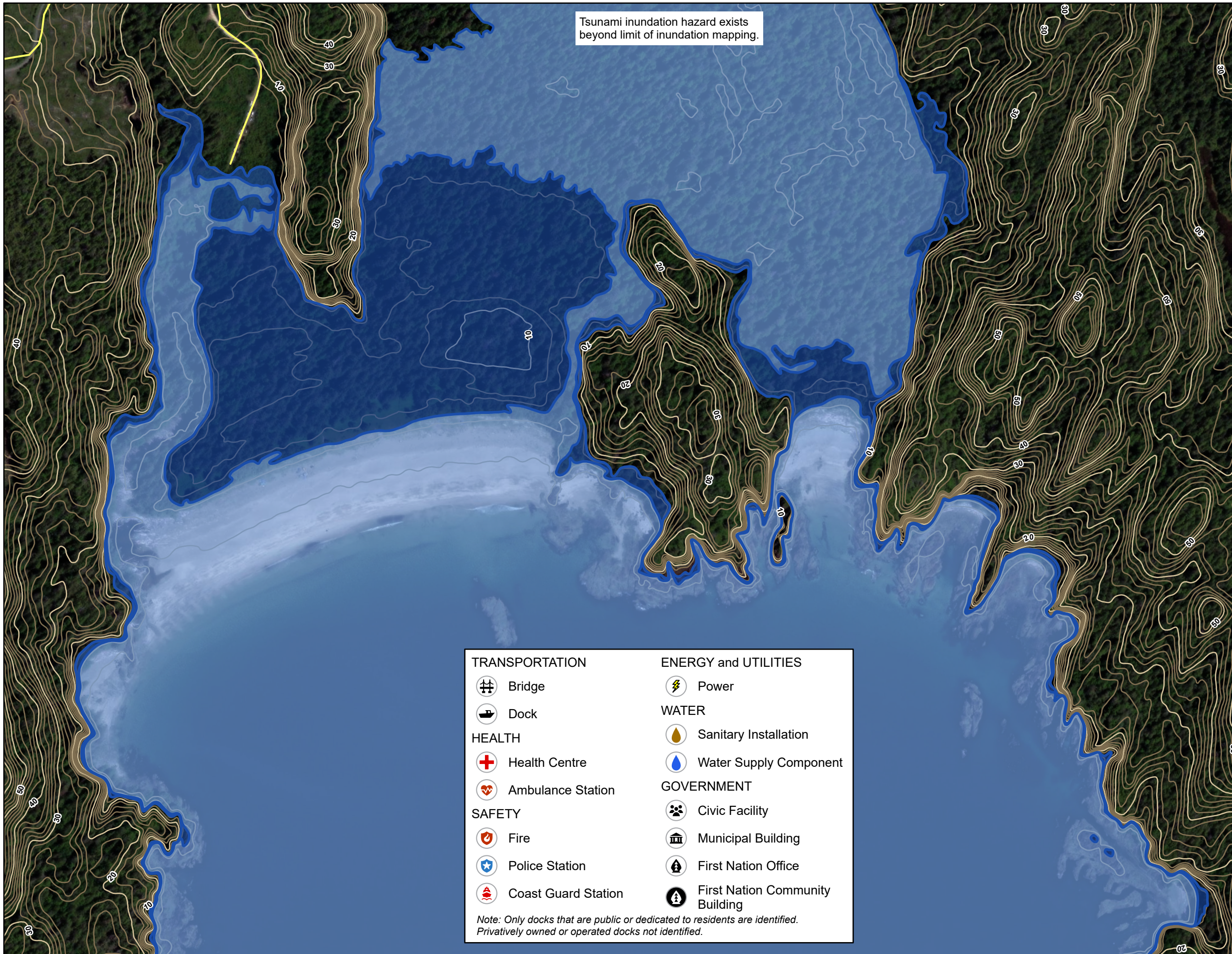
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| Job Number | 3006332 | Date | 07-JUL-2023 |
|------------|---------|------|-------------|

NORTHWEST VANCOUVER ISLAND  
TSUNAMI RISK ASSESSMENT PROJECT

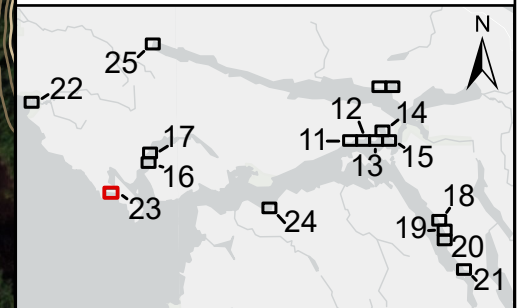
RAFT COVE  
INUNDATION LEVEL FOR  
EMERGENCY PLANNING  
CASCADIA TSUNAMI

- |                       |                                 |
|-----------------------|---------------------------------|
| <b>TRANSPORTATION</b> | <b>ENERGY and UTILITIES</b>     |
| Bridge                | Power                           |
| Dock                  | <b>WATER</b>                    |
| <b>HEALTH</b>         | Sanitary Installation           |
| Health Centre         | Water Supply Component          |
| Ambulance Station     | <b>GOVERNMENT</b>               |
| <b>SAFETY</b>         | 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.

SWM: \mainfile-van\Projects\Active\3006332 NW Vancouver Island Tsunami Risk Assessment - Phase 2\95 GIS\3006332\_map\_5K\_AssetA\RiskMapping.aprx

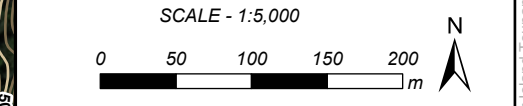


Tsunami inundation hazard exists beyond limit of inundation mapping.



- FERRY ROUTE
- PAVED ROAD
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- INUNDATED PAVED ROAD
- INUNDATED UNPAVED ROAD
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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.



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 |

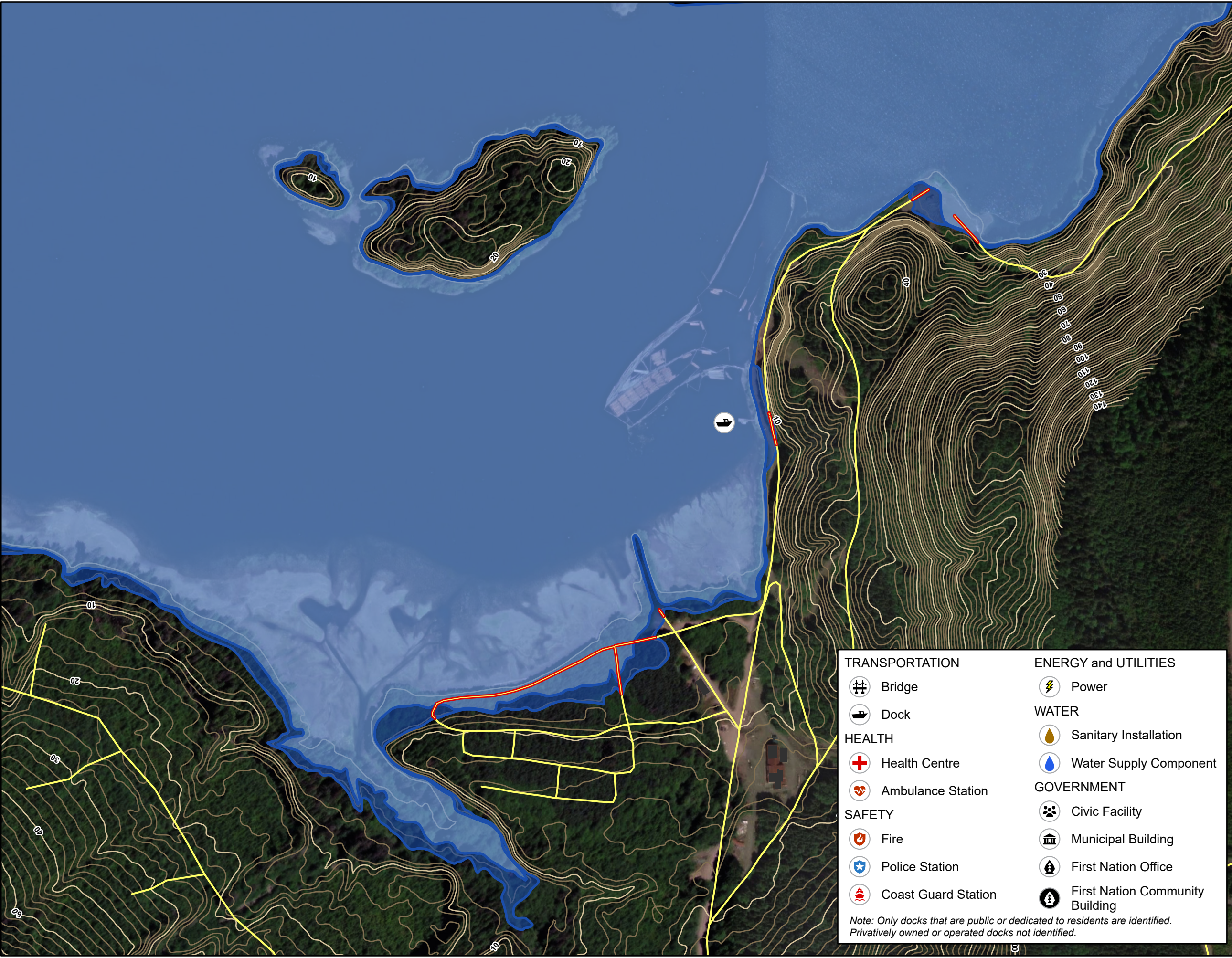
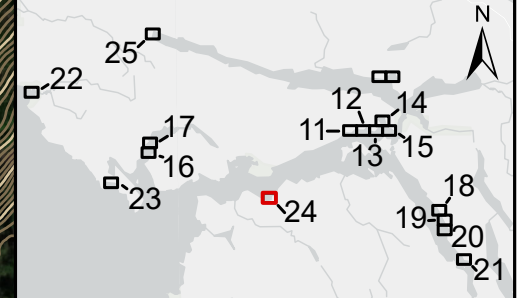
**NORTHWEST VANCOUVER ISLAND  
TSUNAMI RISK ASSESSMENT PROJECT**

**GRANT BAY  
INUNDATION LEVEL FOR  
EMERGENCY PLANNING  
CASCADIA TSUNAMI**

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

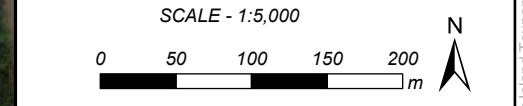
*Note: Only docks that are public or dedicated to residents are identified. Privately owned or operated docks not identified.*

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- FERRY ROUTE
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- UNPAVED ROAD
- INUNDATED PAVED ROAD
- INUNDATED UNPAVED ROAD
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*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

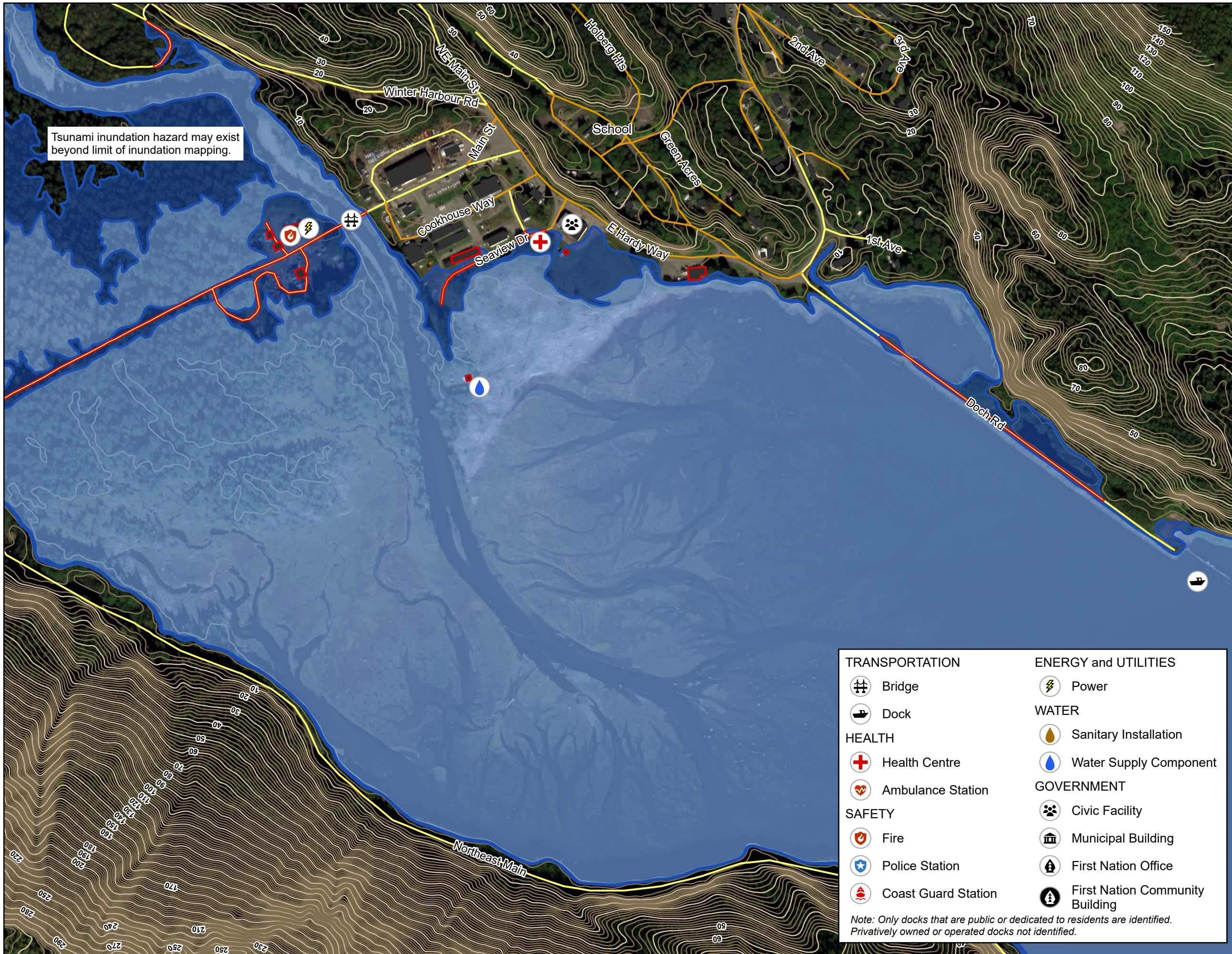
|            |         |     |      |             |     |
|------------|---------|-----|------|-------------|-----|
| Engineer   | PSG     | GIS | SWM  | Reviewer    | GFL |
| Job Number | 3006332 |     | Date | 07-JUL-2023 |     |

**NORTHWEST VANCOUVER ISLAND  
TSUNAMI RISK ASSESSMENT PROJECT**

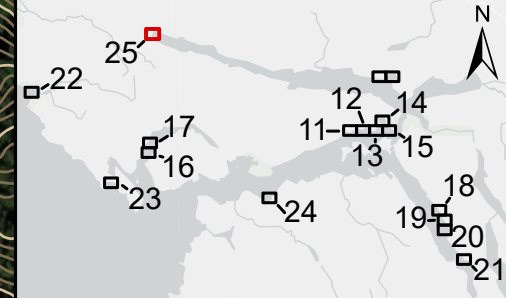
**MAHATTA RIVER  
INUNDATION LEVEL FOR  
EMERGENCY PLANNING  
CASCADIA TSUNAMI**

- |                       |                                 |
|-----------------------|---------------------------------|
| <b>TRANSPORTATION</b> | <b>ENERGY and UTILITIES</b>     |
| Bridge                | Power                           |
| Dock                  | <b>WATER</b>                    |
| <b>HEALTH</b>         | Sanitary Installation           |
| Health Centre         | Water Supply Component          |
| Ambulance Station     | <b>GOVERNMENT</b>               |
| <b>SAFETY</b>         | 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.*

SWM: \\mainfile-van\Projects\Active\3006332 NW Vancouver Island Tsunami Risk Assessment - Phase 2\95 GIS\3006332\_map\_5K\_AssetA\RiskMapping.aprx

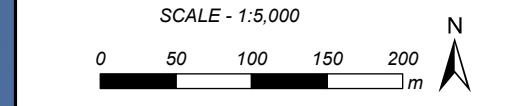


Tsunami inundation hazard may exist beyond limit of inundation mapping.



- 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**

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

- |                       |                                 |
|-----------------------|---------------------------------|
| <b>TRANSPORTATION</b> | <b>ENERGY and UTILITIES</b>     |
| Bridge                | Power                           |
| Dock                  | <b>WATER</b>                    |
| <b>HEALTH</b>         | Sanitary Installation           |
| Health Centre         | Water Supply Component          |
| Ambulance Station     | <b>GOVERNMENT</b>               |
| <b>SAFETY</b>         | Civic Facility                  |
| Fire                  | Municipal 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\_AssetA\RiskMapping.aprx