

ANNEX A. TSESHAHT FIRST NATION EVACUATION ZONES

Overview

The following tear away sheets will provide the following information to support evacuation planning:

- Zone Map;
- Primary Use;
- Primary and Secondary Arterial Roads;
- Muster Points, Infrastructure, and Reception Centers;
- Estimated Evacuation Zone Details; and
- Planning Notes.

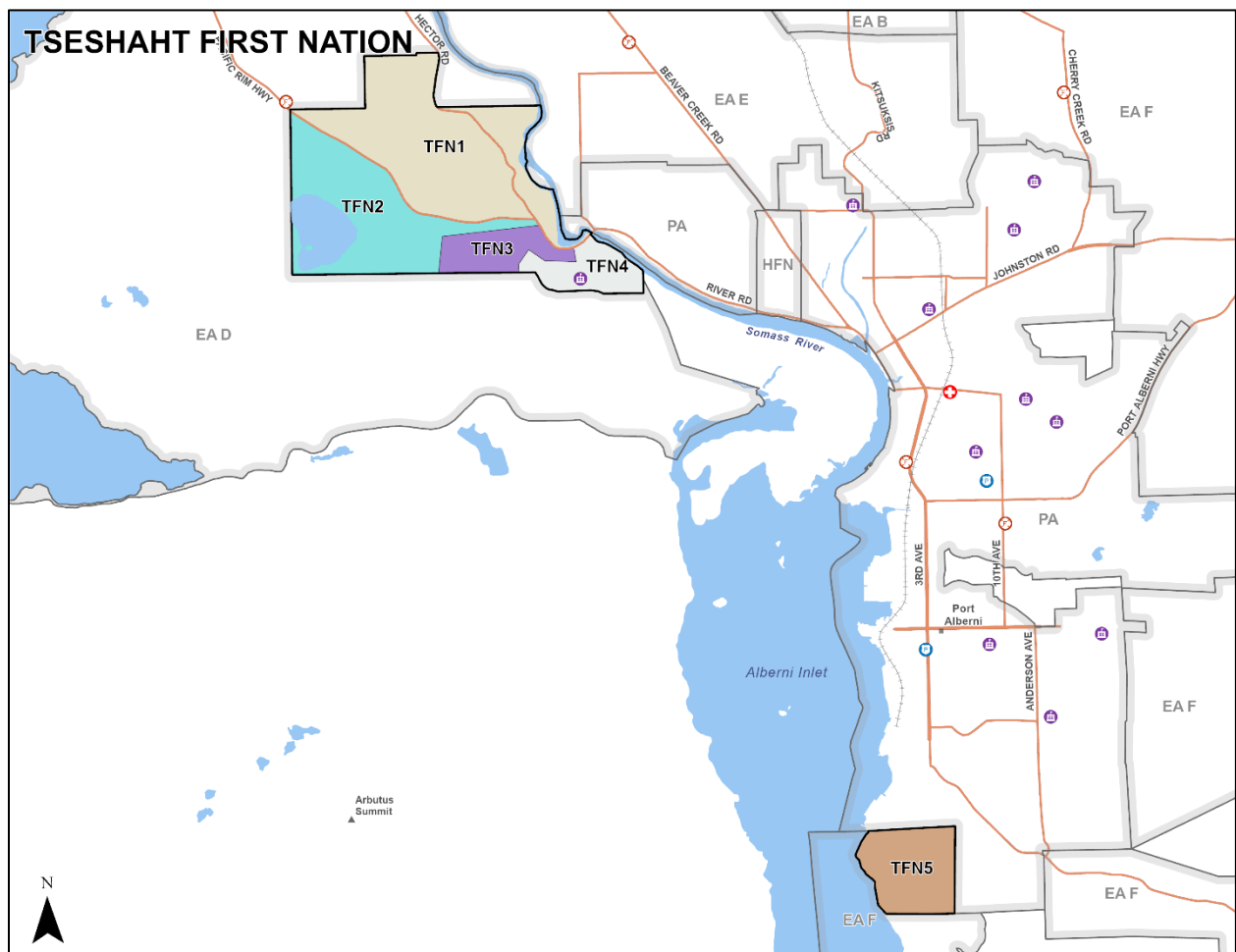


Figure 1: Tseshaht First Nation Evacuation Zones Overview

The following notes apply to all the evacuation zones. This is important to interpret the data provided in the tear-away sheets correctly.

Estimated Single Vehicle Travel Time Through Zone

The travel time through the zone is calculated based on a reduced speed of 30km/hour.

Estimated Zone Evacuation Time

The zone evacuation time calculates how long it will take to evacuate the zone based on estimated population, average vehicle capacity, longest expected drive through the zone, road density (average vehicle length plus average vehicle gap), and the time it will take for that road density to pass through the zone at the expected speed of 30 km/hr.

Destinations / Reception Centres

The evacuation plan is focused on evacuations within the Alberni Valley. Potential evacuation destinations and reception centres may be identified for awareness of each evacuation zone. However, these need to be verified and determined on a case-by-case basis based on the type of emergency and emergency social service needs.

Muster Points

Limited muster points were identified for the evacuation zones. These should be identified based on the type of emergency, the direction of evacuations, and available staffing and resources in the area to implement as required.



A.1 ZONE #TFN1

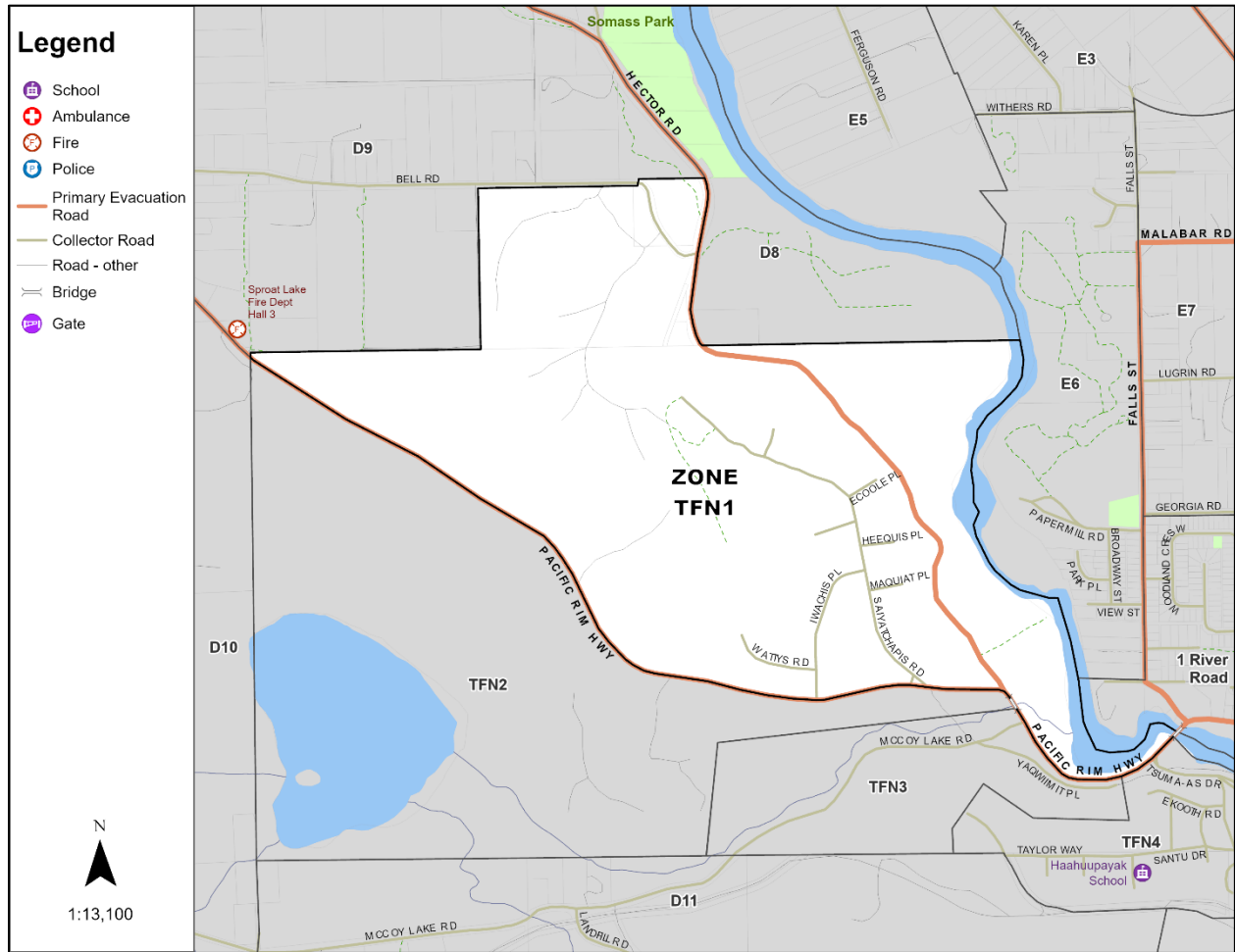


Figure 2: Zone #TFN1 Map

PRIMARY USE

This zone is primarily forested with residential homes along the primary and secondary roads. The zone includes the Tseshaht Market.

PRIMARY & SECONDARY ARTERIAL ROADS

Primary Road: Highway 4 (Pacific Rim Hwy)

Secondary Roads:

- Saiyatchapis Rd
- Maquiat Pi
- Heequis Pl
- Omoah Pl
- Ecoole Pl
- Tseshaht Pl
- Bell Rd
- Iwachis Pl
- Wattys Rd
- Hector Rd



MUSTER POINTS, INFRASTRUCTURE & EVACUATION DIRECTIONS

Item	Description
Muster Points	<ul style="list-style-type: none"> • Haahuupayak Elementary School • Tseshaht Market
Critical Infrastructure	<ul style="list-style-type: none"> • Tseshaht Market • Highway 4 • Hector Rd • Saiyatchapis Rd
Evacuation Direction	<ul style="list-style-type: none"> • West-East: Residents already on the highway can evacuate west or east along Highway 4. • North: Residents can head north via Hector Rd to connect to Highway 4 • South: Residents can head south via Saiyatchapis Rd and Hector Rd to connect to Highway 4. From there, they can evacuate west or east along the valley depending on the final destination
Potential Reception Centre	<ul style="list-style-type: none"> • Haahuupayak Elementary School

ESTIMATED TIME TO EVACUATE THIS ZONE IN HOURS:

Item	Description
Estimated Population	228
Estimated Single Vehicle Travel Time Through Zone	7 min
Estimated Zone Evacuation Time	25 min

All times are approximate and for planning purposes only. They do not include the advance time required to develop and distribute information to the public. Evacuations are dynamic, and times are influenced by factors that may not be apparent during planning activities. The EOC should rely on the subject matter experts available during an evacuation for guidance.

KEY CONSIDERATIONS

Highway 4: This zone borders Highway 4, a primary evacuation route. This route will also be the primary route for different zone evacuees in the Alberni Valley. This may lead to higher traffic in the area, causing congestion or a potential hazard. Traffic control on Highway 4 should be considered.

Tsunami/Somass Watershed: Tsunami and Somass Watershed modelling show that the zone is susceptible to impacts from rising water levels. Modelling indicates that the east part of the zone along Hector Rd and the part of Highway 4 closest to the water are within the Tsunami Inundation Zone and the Flood Extents excluding freeboard.

Dam Breach: Elsie Lake dam breach modelling shows this zone is susceptible to impacts. Evacuation planning due to a dam breach should refer to Elsie Lake dam breach modelling for impact area.



Hector Rd: This road may be used by other Alberni Valley evacuees to reach Highway 4. This should be utilized in consultation with the local authority to limit community impact and disruption.



A.2 ZONE #TFN2

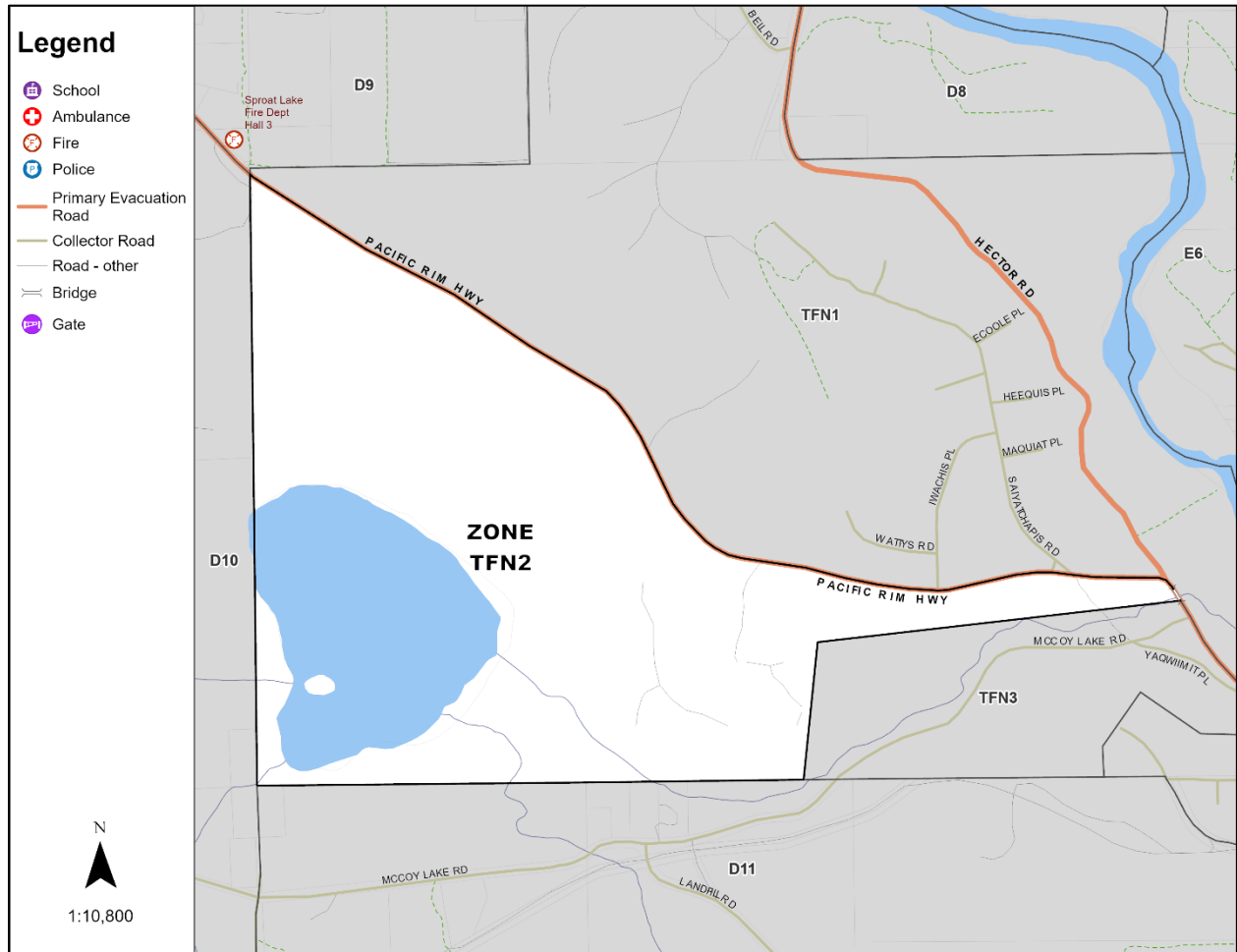


Figure 3: Zone #TFN2 Map

PRIMARY USE

This zone is primarily forested with a few residential homes along the primary roadway. The zone includes McCoy Lake.

PRIMARY & SECONDARY ARTERIAL ROADS

The primary road in this zone is Highway 4, with all residential homes having direct access to this artery.

MUSTER POINTS, INFRASTRUCTURE & EVACUATION DIRECTIONS

Item	Description
Muster Points	<ul style="list-style-type: none">Tseshah First Nation Building
Critical Infrastructure	<ul style="list-style-type: none">Highway 4
Evacuation Direction	<ul style="list-style-type: none">The zone can evacuate west or east along Highway 4.
Potential Reception Centre	<ul style="list-style-type: none">Haahuupayak Elementary School

ESTIMATED TIME TO EVACUATE THIS ZONE IN HOURS:

Item	Description
Estimated Population	45
Estimated Single Vehicle Travel Time Through Zone	5.4 min
Estimated Zone Evacuation Time	16.4 min

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KEY CONSIDERATIONS

Highway 4: This zone borders Highway 4, a primary evacuation route. This route will also be the primary route for different zone evacuees in the Alberni Valley. This may lead to higher traffic in the area, causing congestion or a potential hazard. Traffic control on Highway 4 should be considered.

Tsunami/Somass Watershed: Tsunami and Somass Watershed modelling show that a small part of the zone is susceptible to impacts from rising water levels. Modelling indicates that the east part of the zone near the intersection of Highway 4 and Hector Rd is within the Tsunami Inundation Zone and the Flood Extents excluding freeboard.

A.3 ZONE #TFN3

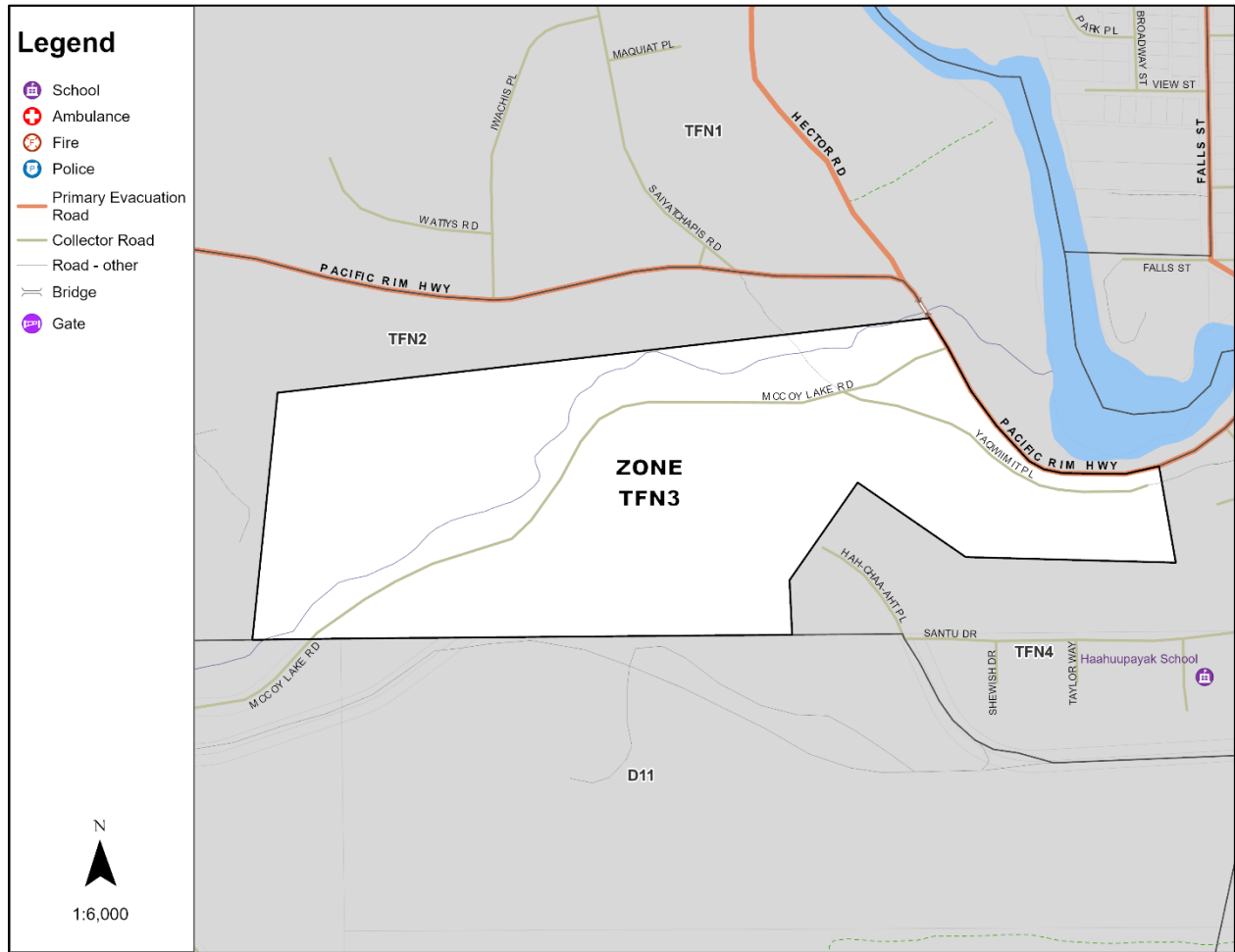


Figure 4: Zone #TFN3 Map

PRIMARY USE

This zone is primarily a residential area surrounded by a forested area.

PRIMARY & SECONDARY ARTERIAL ROADS

Primary Road: Highway 4 (Pacific Rim Hwy)

Secondary Roads: McCoy Lake Rd and Yaqwiimit Pl

MUSTER POINTS, INFRASTRUCTURE & EVACUATION DIRECTIONS

Item	Description
Muster Points	<ul style="list-style-type: none">• Tseshaht First Nation Building
Critical Infrastructure	<ul style="list-style-type: none">• Highway 4• McCoy Lake Rd
Evacuation Direction	<ul style="list-style-type: none">• East: Residents can head east along McCoy Lake Rd to connect to Highway 4. From there, they can evacuate west or east along the valley depending on the final destination.• West: Residents can head west via McCoy Lay Rd to connect to Highway 4 further west outside the Tseshaht First Nation boundaries.
Potential Reception Centre	<ul style="list-style-type: none">• Haahuupayak Elementary School

ESTIMATED TIME TO EVACUATE THIS ZONE IN HOURS:

Item	Description
Estimated Population	31
Estimated Single Vehicle Travel Time Through Zone	2 min
Estimated Zone Evacuation Time	15 min

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KEY CONSIDERATIONS

Highway 4: This zone borders Highway 4, part of its primary evacuation route. This route will also be the primary route for different zone evacuees in the Alberni Valley. This may lead to higher traffic in the area, causing congestion or a potential hazard. Traffic control on Highway 4 should be considered.

Tsunami/Somass Watershed: Tsunami and Somass Watershed modelling show that part of the zone is susceptible to rising water levels. Modelling shows that the part of McCoy Lake Rd, Yaqwiimit PI, and Highway 4 are within the Tsunami Inundation Zone. Highway 4 is within the Flood Extents excluding freeboard.

Dam Breach: Elsie Lake dam breach modelling shows this zone is susceptible to impacts. Evacuation planning due to a dam breach should refer to Elsie Lake dam breach modelling for impact area.

McCoy Lake Rd: This road may be used by other Alberni Valley evacuees to reach Highway 4. This should be utilized in consultation with the local authority to limit community impact and disruption.



A.4 ZONE #TFN4

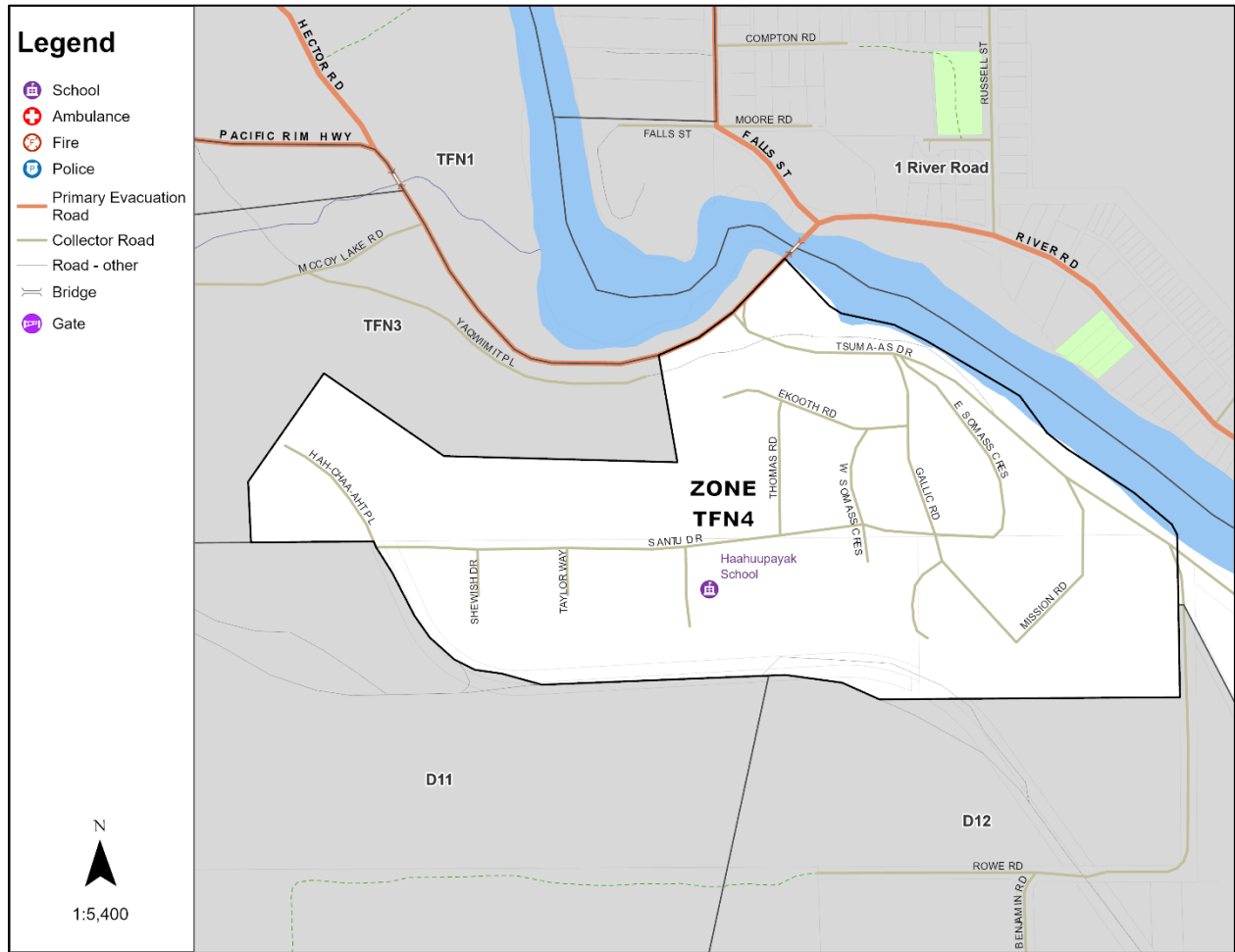


Figure 5: Zone #4 Map

PRIMARY USE

This zone is primarily a residential area surrounded by a forested area. The zone is home to Haahuupayak Elementary School, Nuuchah-Nulth Tribal Council building, and Tseshaht First Nation Administration Building.

PRIMARY & SECONDARY ARTERIAL ROADS

Primary Road: Highway 4

Secondary Roads:

- Hah-chaa-aht PI
- Santu Dr
- Park Dr
- Thomas Rd
- Ekooth Rd
- W Somass Cres
- Mission Rd
- Gallic Rd
- E Somass Cres
- Tsuma-As Dr
- Old Airport Rd

MUSTER POINTS, INFRASTRUCTURE & EVACUATION DIRECTIONS

Item	Description
Muster Points	<ul style="list-style-type: none"> • Tseshaht First Nation Building
Critical Infrastructure	<ul style="list-style-type: none"> • Haahuupayak Elementary School • Nuu-Chah-Nulth Tribal Council building • Tseshaht First Nation Administration Building • Maht Mahs Gym • Orange Bridge • Highway 4 • Tsuma-As Dr • Santu Dr
Evacuation Direction	<ul style="list-style-type: none"> • East: Residents can head east via Santu Dr and connect to Highway 4 via E Somass Cres and Tsuma-as Dr. From Highway 4, they can evacuate west or east along the valley depending on the final destination. • South: Residents can connect to Tsuma-As Dr and follow it south and turn left at Shoemaker Bay Rd, right at Stirling Arm Rd, and Right at Ash Main to reconnect with Highway 4. From Highway 4, they can evacuate west or east along the valley depending on the final destination.
Potential Reception Centre	<ul style="list-style-type: none"> • Haahuupayak Elementary School

ESTIMATED TIME TO EVACUATE THIS ZONE IN HOURS:

Item	Description
Estimated Population	244
Estimated Single Vehicle Travel Time Through Zone	1.9 min
Estimated Zone Evacuation Time	17.1 min

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KEY CONSIDERATIONS

Tsunami/Somass Watershed: Tsunami and Somass Watershed modelling show the part of the zone is susceptible to impacts from rising water levels. The modelling indicates that Tsuma-As Dr is within the Tsunami Inundation Zone. The border of the zone is within the Flood Extents excluding freeboard.

Dam Breach: Elsie Lake dam breach modelling shows this zone is susceptible to impacts. Evacuation planning due to a dam breach should refer to Elsie Lake dam breach modelling for impact area.

Haahuupayak Elementary School: During the school week, the population that needs to evacuate from this zone is higher due to the school. This will require additional coordination, which may include busing



transport. The school may also be used as a muster point or as a reception centre for the community. Traffic flow should be considered as Santu Dr is a dead-end street.

Santu Dr: The road is a dead-end which forces all evacuations to head east. A gated tertiary road is near the west end of Santu Dr that connects at another gate near Landfill Rd.

Nuu-Chah-Nulth Tribal Council and Tseshaht First Nation: The buildings may be used as a muster point or even a reception centre for the community. As such, traffic flow needs to be considered and how the type of emergency could impact the zone. (i.e., this would not be a good location in a tsunami event due to road impacts from the water levels).

Tsuma-As Dr: This road may be used by other Alberni Valley evacuees to reach Highway 4.

Local Authorities: Half of the zone along Santu Dr is within the Tseshaht First Nation Boundaries. The second half is within Electoral Area D. Appropriate coordination between local authorities should be conducted for evacuation planning.



A.5 ZONE #TFN5

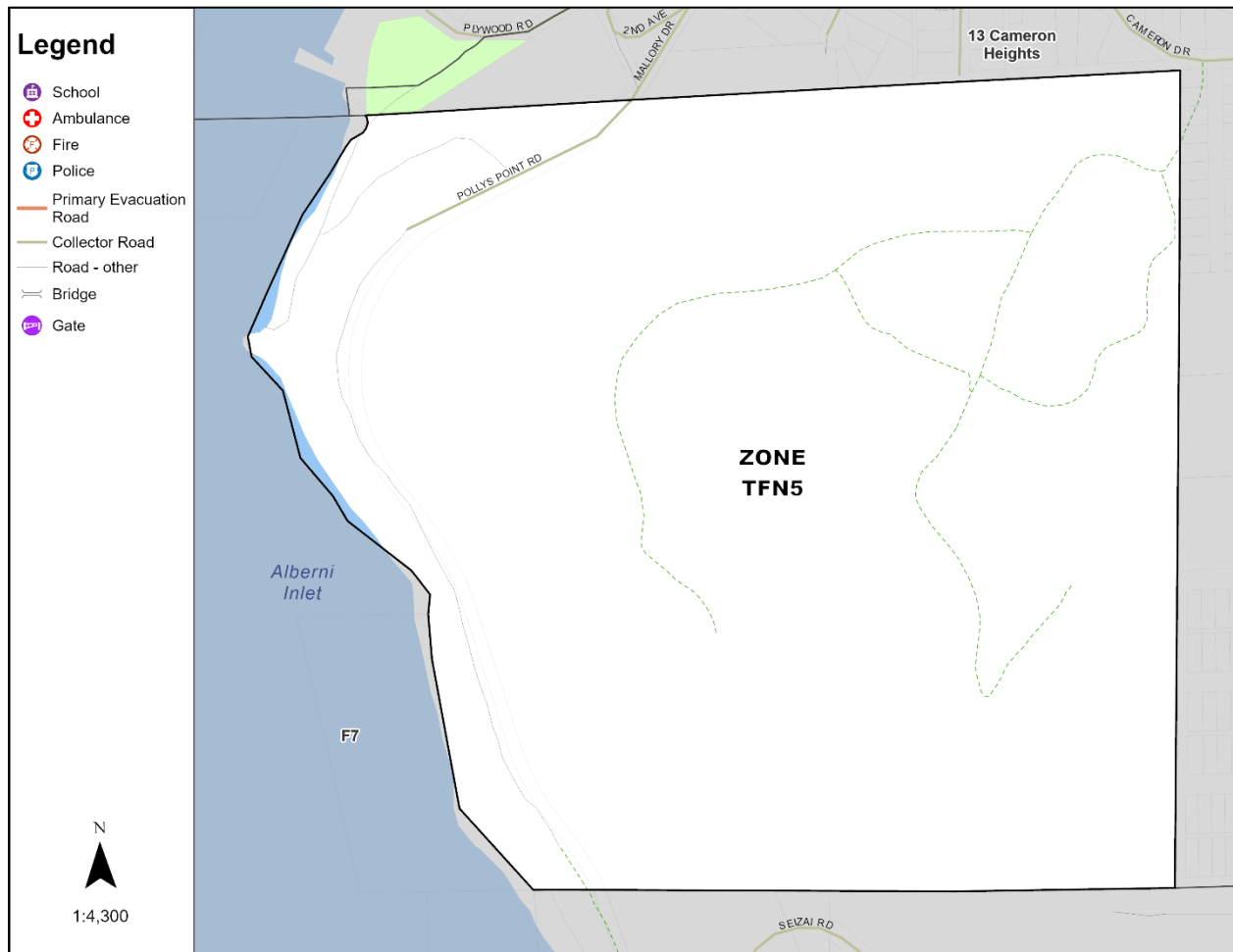


Figure 6: Zone #TFN5 Map

PRIMARY USE

This zone is primarily forested land with a small residential area by Polly's Point.

PRIMARY & SECONDARY ARTERIAL ROADS

Primary Road: Polly's Point Rd

MUSTER POINTS, INFRASTRUCTURE & EVACUATION DIRECTIONS

Item	Description
Muster Points	N/A
Critical Infrastructure	Polly's Point Rd
Evacuation Direction	North: Residents can evacuate north via Pollys Point Rd to Mallory Dr to 3 rd Ave and eventually connect to Highway 4.
Potential Reception Centre	Haahuupayak Elementary School Coordinate with ACRD ESS program to define a reception centre within Port Alberni

ESTIMATED TIME TO EVACUATE THIS ZONE IN HOURS:

Item	Description
Estimated Population	10
Estimated Single Vehicle Travel Time Through Zone	0.5 min
Estimated Zone Evacuation Time	15 min

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KEY CONSIDERATIONS

Tsunami/Somass Watershed: Tsunami and Somass Watershed modelling show the most western edge of this zone is susceptible to impacts from rising water levels. The modelling indicates Pollys Point Road and Mallory Dr are both outside of the Tsunami Inundation Zone.

Location: This zone is separated from the other zones by a waterway. The only land access across is via the Orange Bridge. This separation may impact where evacuees from this zone go vs the other residents of Tseshaht First Nation.

Pollys Point Rd: This is a dead-end road, so evacuations can only be north.

