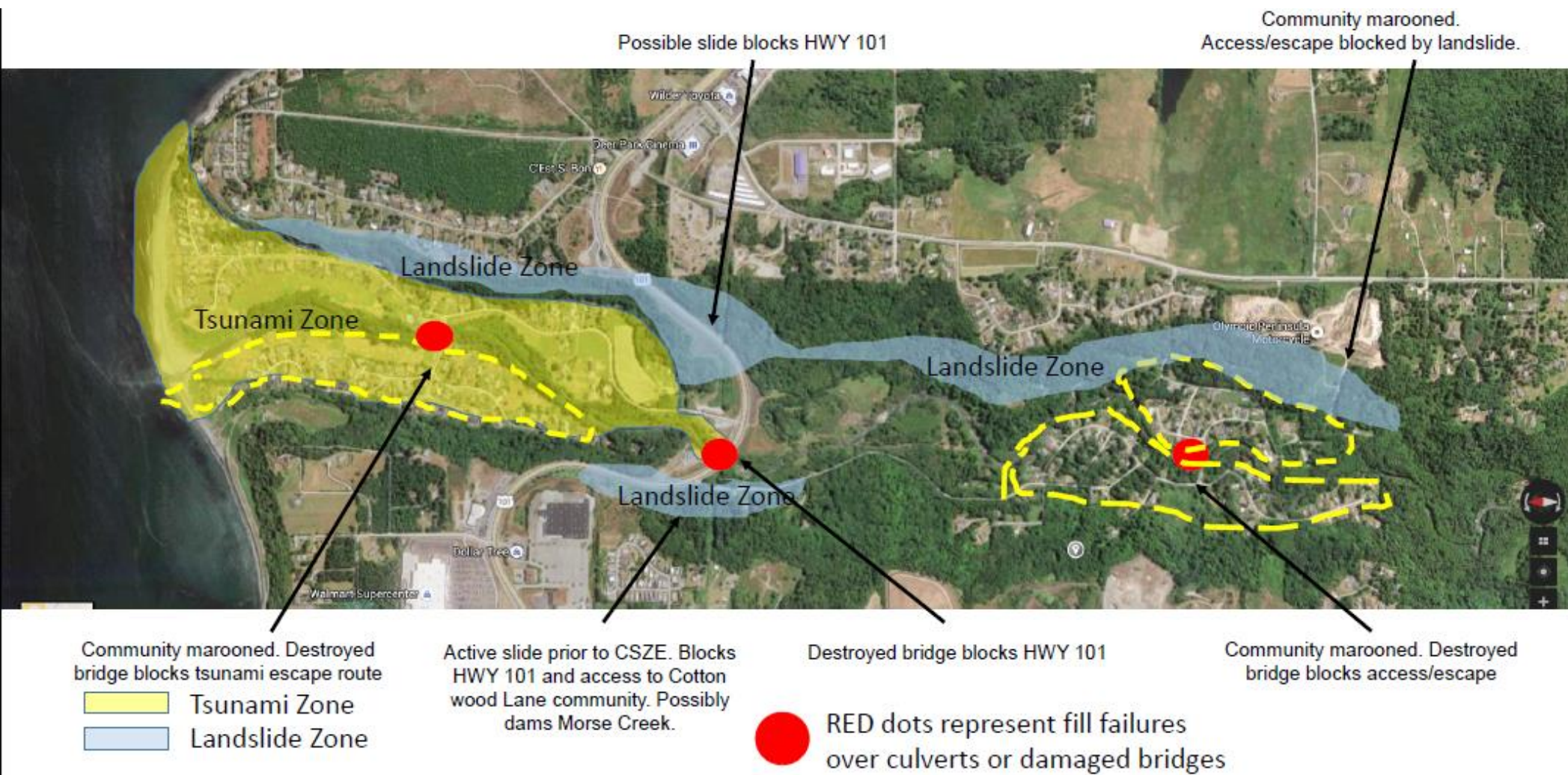


Detail View of Morse Creek Boundary between Port Angeles East and Deer Park Micro-islands



The **Port Angeles East Micro-island** is designated Division O for FEMA purposes. The area between Morse Creek and Lee's Creek is designated Sub-division 1, the Mount Pleasant Sub-division.

The only access to the Mount Pleasant Community Sub-division is via the Hwy 101 Morse Creek Bridge to the east and over the Hwy 101 Lee's Creek Culvert to the west. The bridge is expected to be destroyed. The fill over the Lee's Creek culvert is expected to suffer compaction failure making the highway unusable until heavy equipment can repair the road. Draper Road may provide an emergency alternate route to the west. There is no alternate access to the east.


The active landslide at the corner of Hwy 101 and Cottonwood Lane is expected to block the highway, Cottonwood Lane and possibly dam Morse Creek, flooding the Cottonwood Community. Additional landslides may block escape routes from the Cottonwood Community on both sides of the creek.

Four Seasons Ranch can expect tsunami inundation below 40' elevation with possibly higher runup. Residents west of the Bridge Lane bridge may have to evacuate to safe elevations near the Koenigs car dealership by foot.

RESIDENTS LIVING IN THE TSUNAMI, FLOOD AND SLIDE ZONES MUST PLAN TO SURVIVE IN ALTERNATE SHELTER LOCATIONS FOR A MINIMUM OF 30 DAYS. All residents should plan to survive with minimal assistance from outside the community until the Hwy 101 is opened to Port of Port Angeles or the airport. Residents must plan on sheltering in place for a minimum of 30 days.

Port Angeles East Micro-island - Division O, Sub-division 2 Monroe Road Community – Lee’s Creek to Ennis Creek



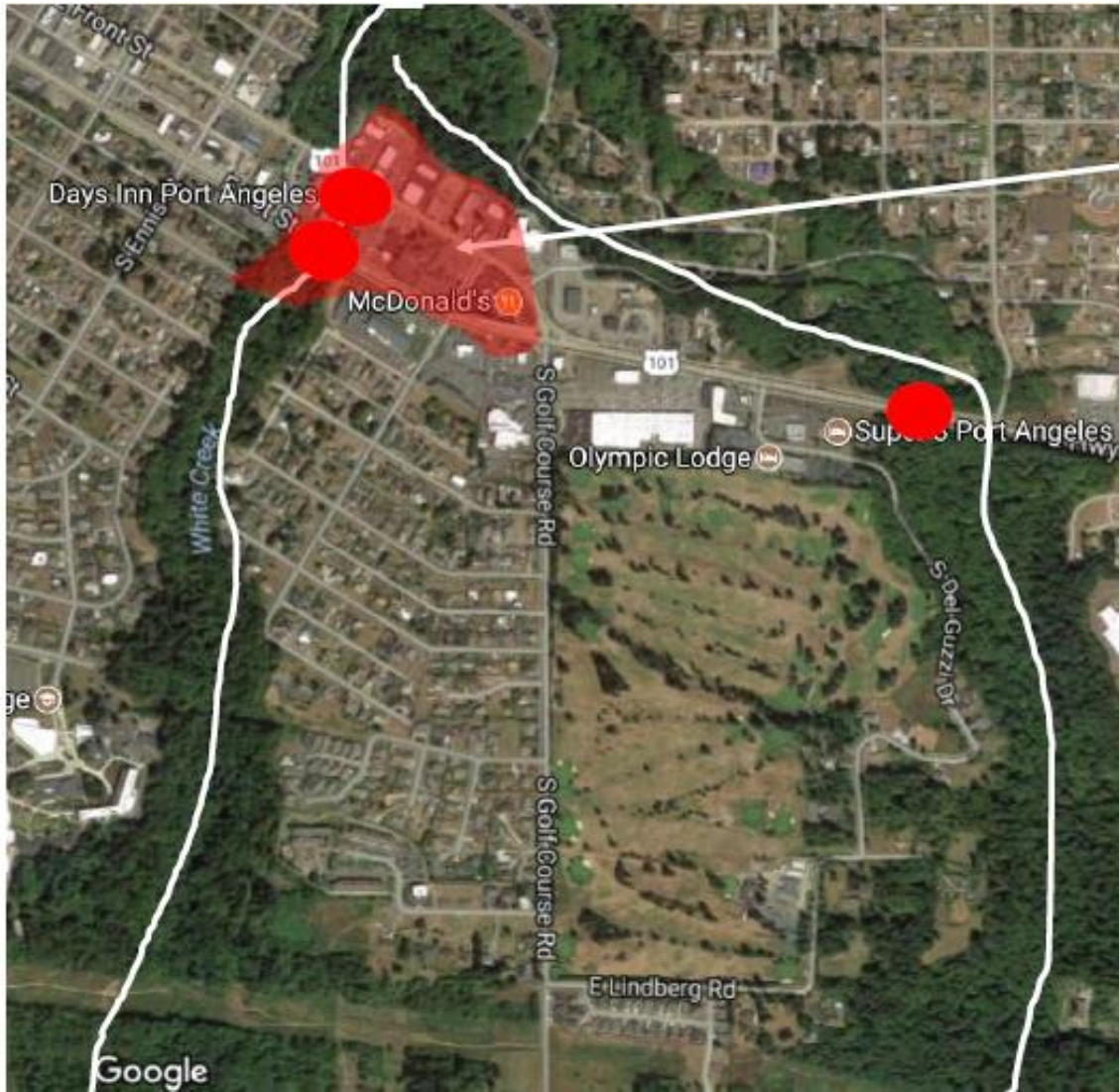
 RED dots represent fill failures over culverts or damaged bridges

The **Port Angeles East Micro-island** is designated Division O for FEMA purposes. The area between Lee’s Creek and Ennis Creek is designated Sub-division 2, the Monroe Road Sub-division.

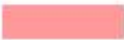
Hwy 101 is the sub-division’s only east-west connection. The fills over the culverts on Lee’s and Ennis creeks are expected to suffer compaction failure making the highway unusable until heavy equipment can repair the road. Draper Road may provide an emergency alternate route to the east.


All residents should plan to survive with minimal assistance from outside the community until Hwy 101 is opened to Port of Port Angeles or the airport. Residents must plan on sheltering in place for a minimum of 30 days.

Port Angeles East Micro-island – Division O, Sub-division 3 Golf Course Community – Ennis Creek to White Creek



Expect severe liquefaction and compaction failure in fill over White Creek Valley.

 Liquefaction zone

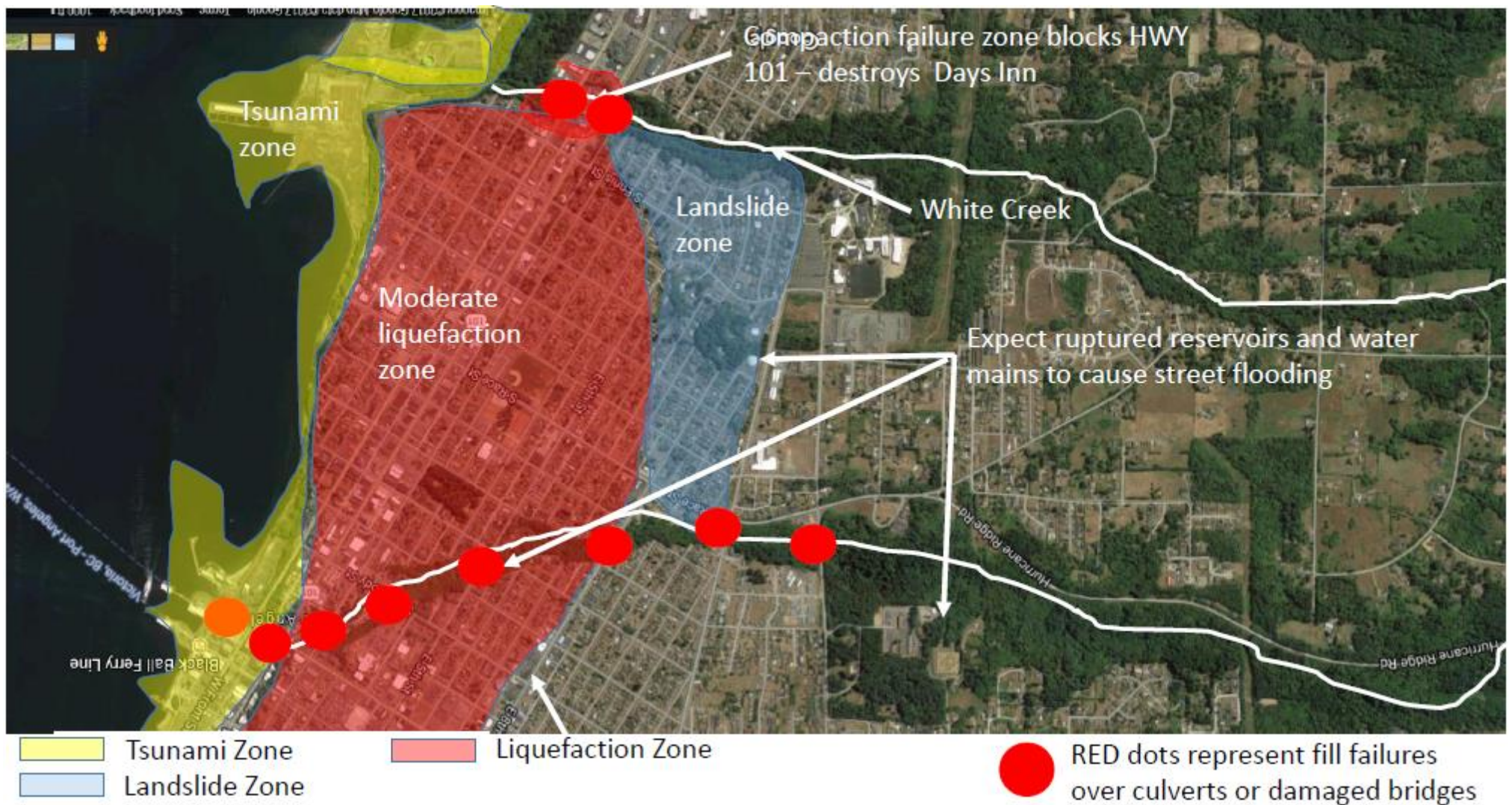
 RED dots represent fill failures over culverts or damaged bridges

The **Port Angeles East Micro-island** is designated Division O for FEMA purposes. The area between Ennis Creek and White Creek is designated Sub-division 3, the Golf Course Sub-division.

Hwy 101 is the sub-divisions only east-west connection. The fills over the culverts on Ennis and White Creeks are expected to suffer compaction failure making the highway unusable until heavy equipment can level the road. There is critical compaction problem in the filled White Creek canyon between Café Garden and Wendy's east bound and between Thurman's and the Rayonier Access Road west bound. Expect significant building and road damage in this filled canyon.

RESIDENTS LIVING ON THIS FILLED CANYON MUST PLAN TO SURVIVE IN ALTERNATE SHELTER LOCATIONS FOR A MINIMUM OF 30 DAYS. All residents should plan to survive with minimal assistance from outside the community until Hwy 101 is opened to the Port of Port Angeles or the airport. Residents must plan on sheltering in place for a minimum of 30 days.

Port Angeles East Micro-island - Division O, Sub-division 4 Olympic Medical Center Community – White Creek to Peabody Creek



The **Port Angeles East Micro-island** is designated Division O for FEMA purposes. The area between White Creek and Peabody Creek is designated Sub-division 4, the Olympic Medical Center Sub-division.

Hwy 101 is the only connection to the east. The numerous bridges and fills over Peabody Creek are the only connections to the west. All are expected to fail making the crossings unusable until heavy equipment can make repairs. This is especially serious at White Creek where land settlement in the filled canyon is expected to be severe.

The area between the creeks north of 8th Street to the harbor is random unconsolidated fill built during the early 20th century. It is subject to moderate liquefaction. Any liquefaction in this urban neighborhood will have an impact on foundations and underground utilities. It will certainly result in some housing collapse and sewage contamination of surface water. All of this flows downhill to OMC.

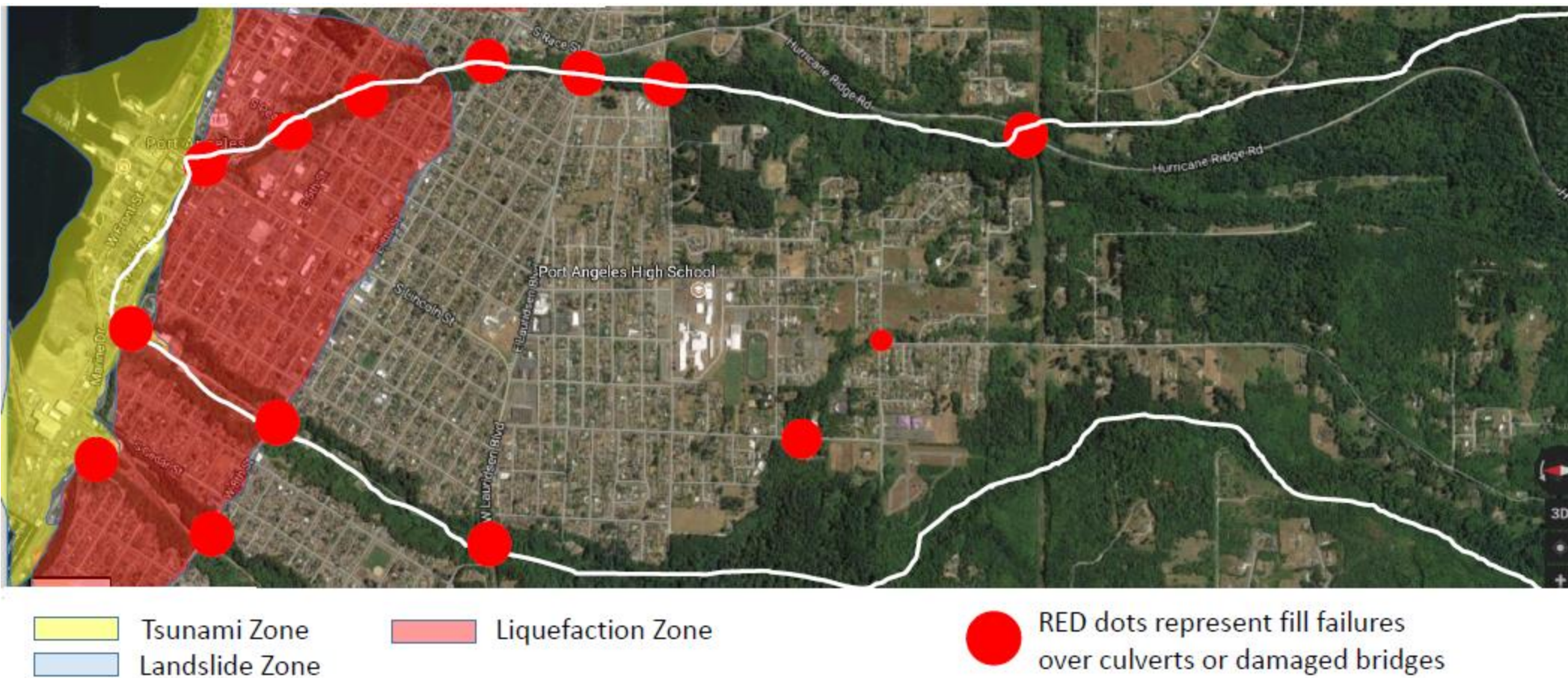
DNR landslide hazard maps show a slide hazard on the hillsides east of south Chambers Street and north of Lauridsen Blvd to the base of the hill above 5th Street.

OMC may survive the quake if the unsecured propane tank 20 feet from the bluff doesn't explode and burn the place down (OMC has been warned about this). It will need hours of extensive cleanup before it can serve as anything more than an aid station.

The tsunami zone shown here is also a SEVERE LIQUEFACTION ZONE. Extensive foundation failures are expected in all buildings during the earthquake. The tsunami is expected to destroy all buildings in the city lower than the corner of First and Lincoln Streets. Tsunami evacuation via foot may be possible up Francis, Front Street, First Street and the Rayonier Access Road. Evacuation up Lincoln Street may not be possible.

RESIDENTS LIVING IN THESE ZONES MUST PLAN ON SURVIVING AT ALTERNATE LOCATIONS FOR A MINIMUM OF 30 DAYS. All residents should plan to survive with minimal assistance from outside the community until Hwy 101 is opened to the Port of Port Angeles or the airport. Residents must plan on sheltering in place for a minimum of 30 days.

Port Angeles West Micro-island – Division N, Sub-division 1 PAHS Community - Peabody Creek to Valley Creek



The Port Angeles West Micro-island is designated Division N for FEMA purposes. The area between Peabody Creek and Valley Creek is designated Sub-division 1, the PAHS Sub-division.

City streets provide numerous connections to the east over Peabody Creek. All connections are expected to fail making vehicular traffic impossible until heavy equipment can make repairs. This is especially serious on Lincoln Street near the Court House and City Hall. Photo records show unconsolidated fill from 8th Street north to the harbor. Land settlement here is expected to be severe. Roads may be limited to foot traffic.

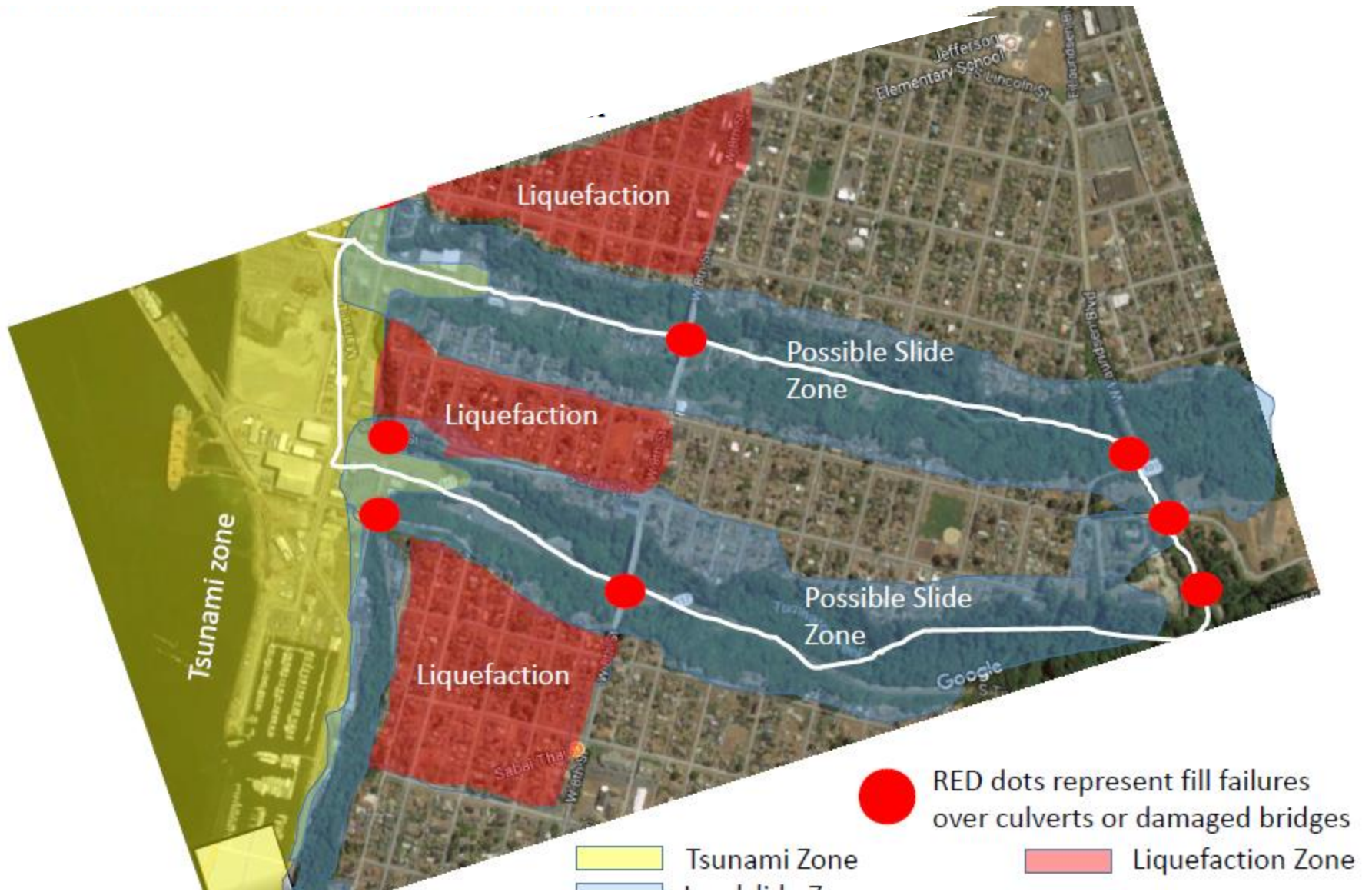
The area between Peabody/Valley Creeks north of 8th Street to the harbor is believed to be random unconsolidated fill built during the early 20th century. It is subject to moderate liquefaction. Any liquefaction in this urban neighborhood will have an impact on foundations and underground utilities. It will certainly result in sewage contamination of surface water.

The tsunami zone shown here is also a SEVERE LIQUEFACTION ZONE. Extensive foundation failures are expected during the earthquake. The tsunami is expected to destroy all buildings in the city lower than the corner of First and Lincoln Streets. Tsunami evacuation via foot may be possible up South Valley Street, the Tumwater Truck Route, 5th Street and Cherry Street.

RESIDENTS LIVING IN THE TSUNAMI AND LIQUEFACTION ZONES MUST PLAN ON SURVIVING AT ALTERNATE LOCATIONS OUTSIDE OF THE ZONES FOR A MINIMUM OF 30 DAYS WITHOUT SUPPORT.

Residents living outside of the tsunami and liquefaction zones should plan to survive with minimal assistance from outside the community until Hwy 101 is opened. Residents must plan on sheltering in place for a minimum of 30 days.

**Port Angeles West Micro-island – Division N, Sub-division 2) Cedar Street Community (The Island)
- Valley Creek to Tumwater Creek**



The Port Angeles West Micro-island is designated Division N for FEMA purposes. The area between Peabody Creek and Valley Creek is designated Sub-division 2, the Cedar Street Sub-division.

The earthquake is expected to destroy the 8th Street bridges AND the roads leading to the community at Cedar Street and Hwy 101. Access will be limited to foot traffic until heavy equipment can reopen the roads.

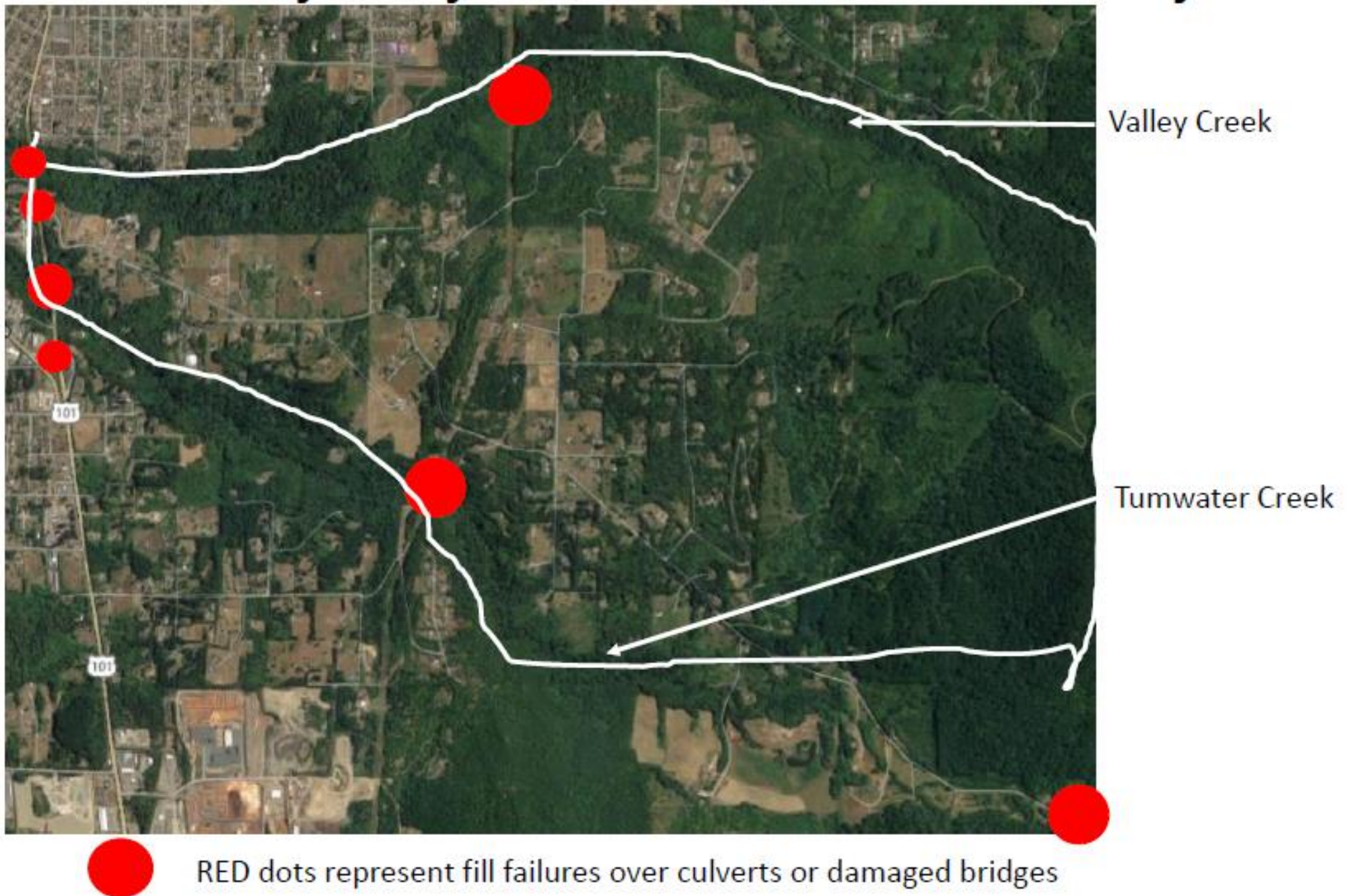
The area between the bridges north of 8th Street to the harbor is believed to be random unconsolidated fill built during the early 20th century. It is subject to moderate liquefaction. Any liquefaction in this urban neighborhood will have an impact on foundations and underground utilities. It will certainly result in sewage contamination of surface water.

The tsunami zone shown here is also a SEVERE LIQUEFACTION ZONE. Extensive foundation failures are expected during the earthquake. Escape via foot may be possible. The tsunami is expected to destroy all buildings in the city lower than the corner of First and Lincoln Streets.

RESIDENTS LIVING IN THE TSUNAMI AND LIQUEFACTION ZONES MUST PLAN ON SURVIVING AT ALTERNATE LOCATIONS OUTSIDE OF THE ZONES FOR A MINIMUM OF 30 DAYS WITHOUT SUPPORT.

Residents living outside of the tsunami and liquefaction zones should plan to survive with minimal assistance from outside the community until Hwy 101 is opened. Residents must plan on sheltering in place for a minimum of 30 days.

**Port Angeles West Micro-island, Division N, Sub-division 3
Black Diamond Community – Valley Creek to Tumwater Creek
south of Hwy 101**



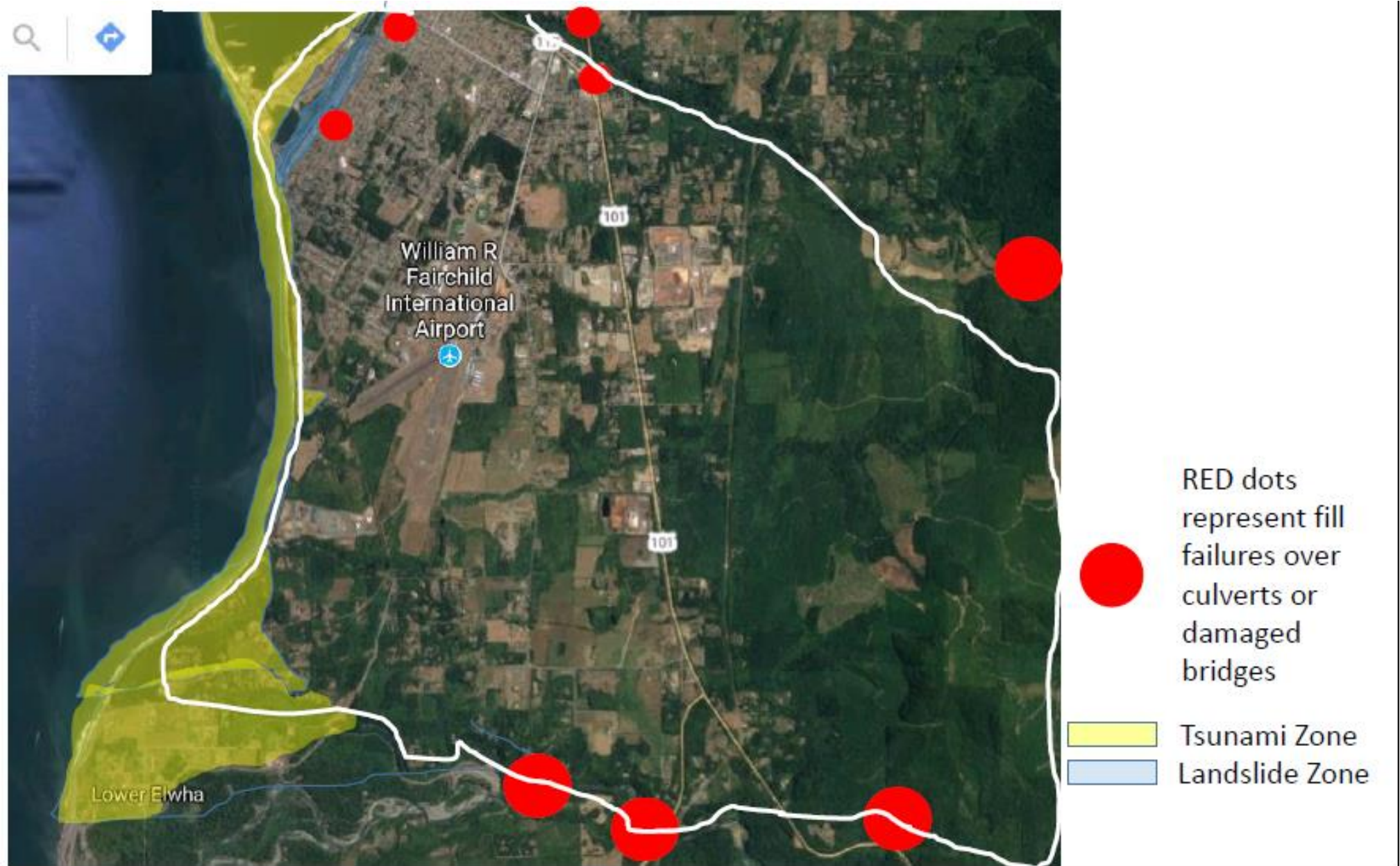
The Port Angeles West Micro-island is designated Division N for FEMA purposes. The area between Valley Creek and Tumwater Creek and south of Hwy 101 is designated Sub-division 3, the Black Diamond Sub-division.

The earthquake is expected to destroy the Black Diamond Bridge and block the Little River Road to the Elwha. The fallen Black Diamond and Truck Route bridges will block Hwy 101. The Hwy 101 Valley Creek and Tumwater Creek fills will suffer compaction failure and will have to be regraded.

The neighborhood will only be accessible to foot traffic until heavy equipment can address the problem.

Residents living in this Sub-division should plan to survive with minimal assistance from outside the community until Hwy 101 is opened. Residents must plan on sheltering in place for a minimum of 30 days.

Port Angeles West Micro-island - Division N, Sub-division 4 Airport Community -Tumwater Creek to Elwha River



The Port Angeles West Micro-island is designated Division N for FEMA purposes. The area between Tumwater Creek and the Elwha River is designated Sub-division 4, the Airport Sub-division.

Most of the Airport Community is on soils that will not magnify shaking or liquefact. However, the Tumwater Creek crossings as well as the Elwha River Bridges are expected to collapse.

Slides will block the Hill and 5th Street escape routes from the tsunami zone. Escape via foot may be possible. Some houses on the north side of 4th Street and Milwaukie Drive may be in danger of landslides.

The tsunami will inundate everything below 40' including the Elwha Reservation and Ediz Hook. The tsunami zone shown here is also a SEVERE LIQUEFACTION ZONE.

RESIDENTS LIVING IN THE TSUNAMI ZONE MUST PLAN ON SURVIVING AT ALTERNATE LOCATIONS OUTSIDE OF THE ZONE FOR A MINIMUM OF 30 DAYS WITHOUT SUPPORT. Residents living outside of the tsunami and landslide zones should plan to survive with minimal assistance from outside the community until Hwy 101 is opened. Residents must plan on sheltering in place for a minimum of 30 days.