

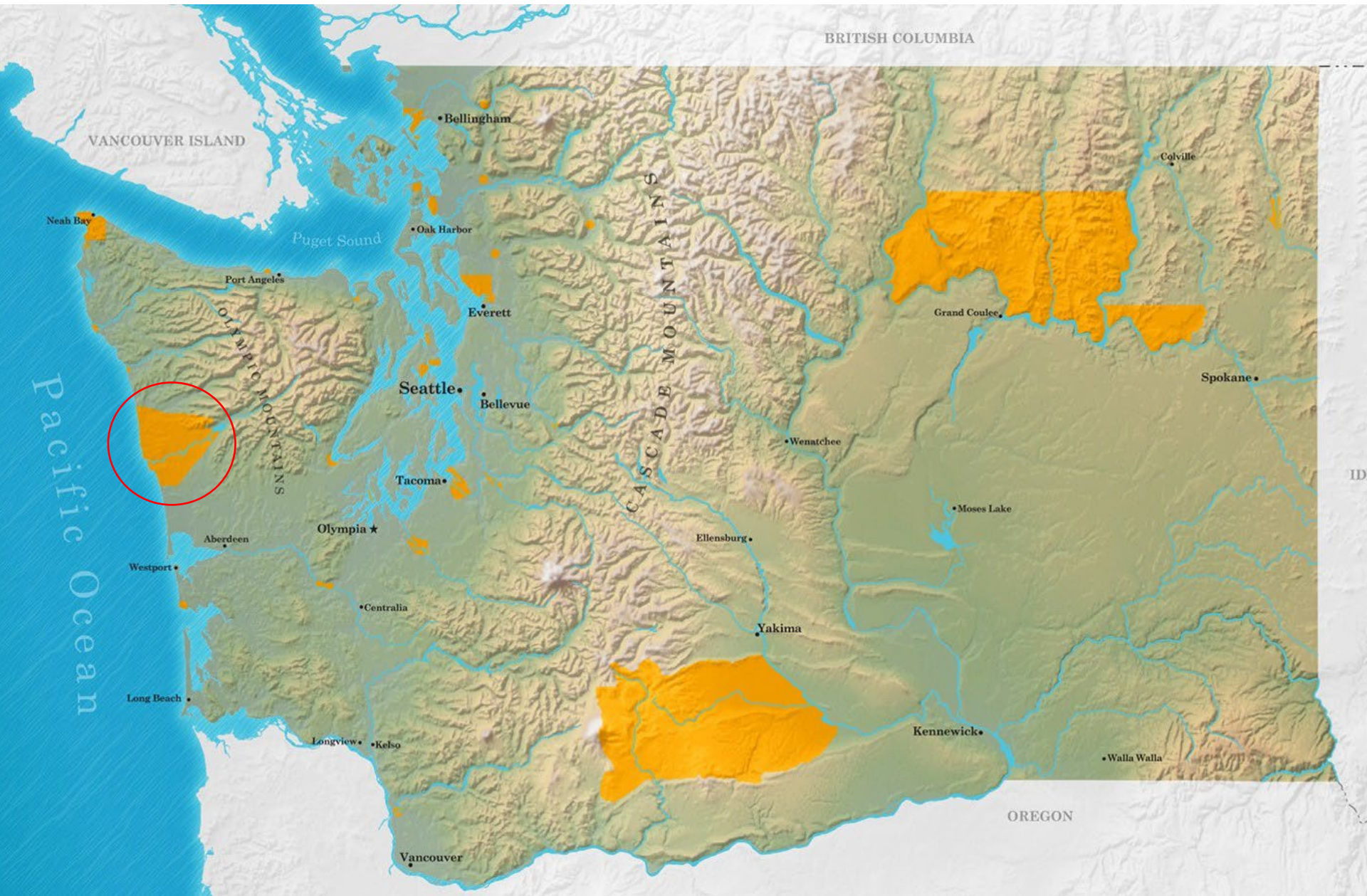


Taholah Relocation Integrated Energy System

Emily Wheaton, AICP

Senior Planner

Quinault Indian Nation



BRITISH COLUMBIA

VANCOUVER ISLAND

Puget Sound

Pacific Ocean

OLYMPIC MOUNTAINS

CASCADE MOUNTAINS

OREGON

ID



Quinault Indian Nation

- The Quinault Indian Nation (QIN) consists of the Quinault and Queets tribes and descendants of five other coastal tribes: Quileute, Hoh, Chehalis, Chinook, and Cowlitz.
- Approximately 4,000 members. Village of Taholah has a population of approximately 800
- Signatories of the Quinault River Treaty, 1855



Taholah

JSCG Loran Station
Point Grenville...

109

Santiago

109

109

Mocrocks Beach

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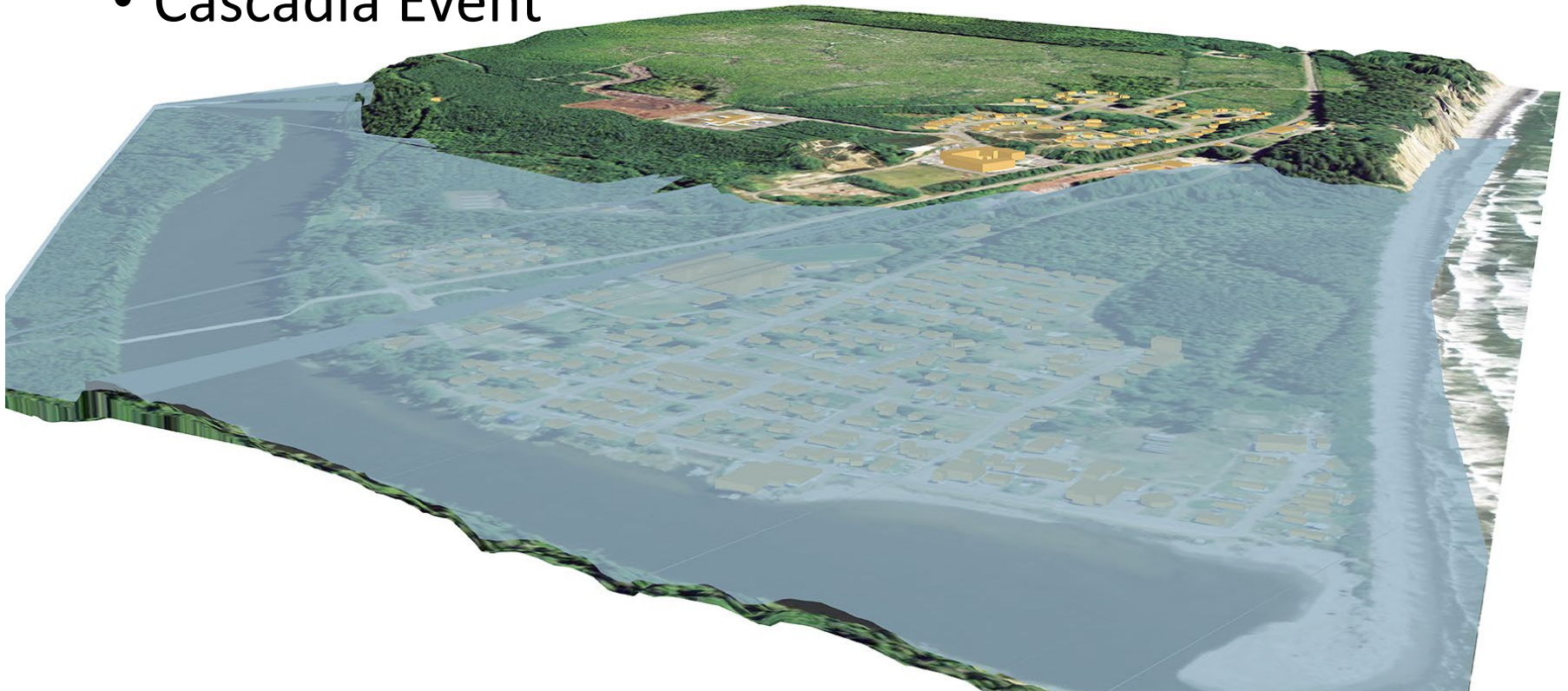
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Threats

- Tsunamis/Earthquakes
- Sea Level Rise
- Cascadia Event





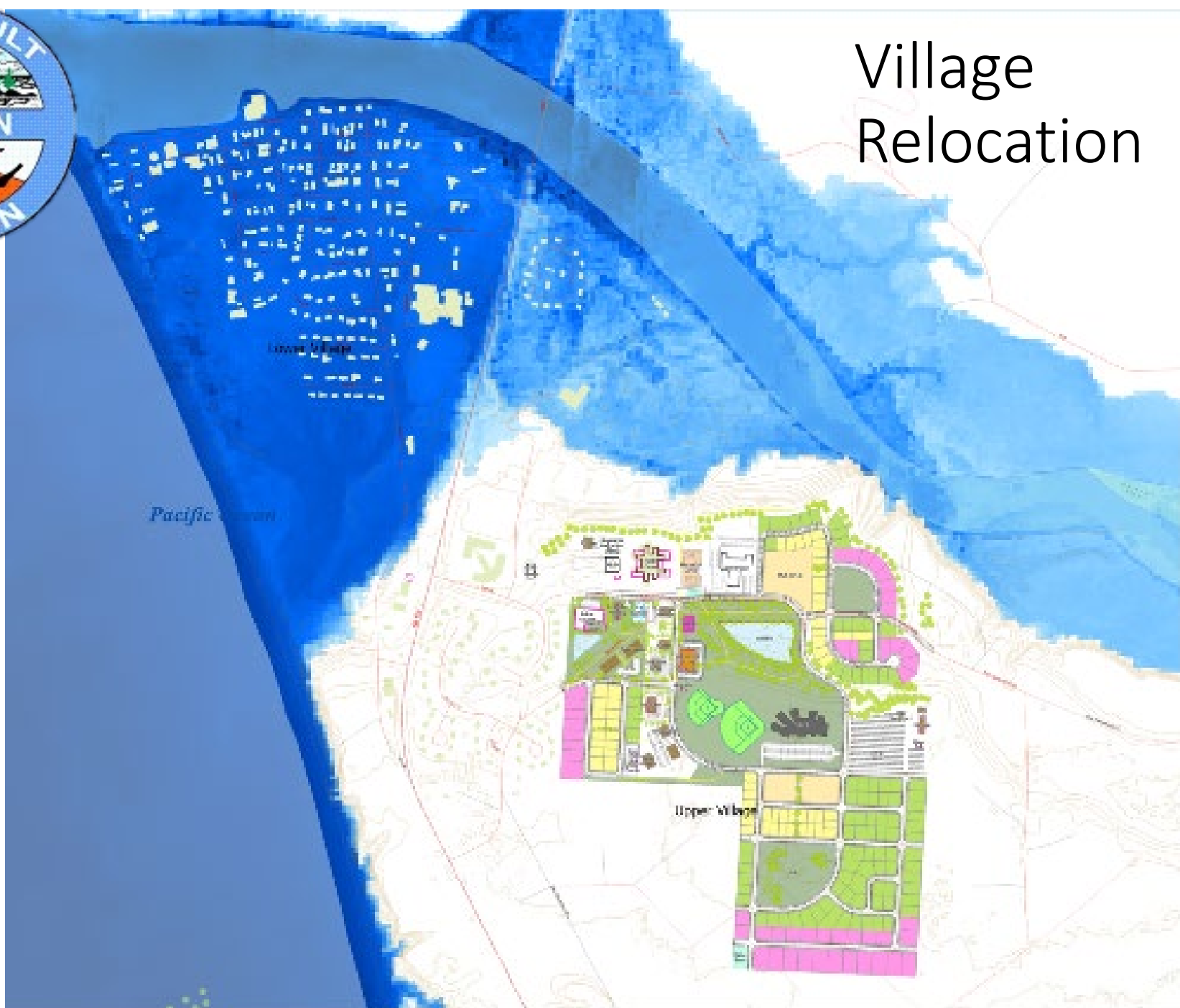
The Taholah Village Relocation Master Plan

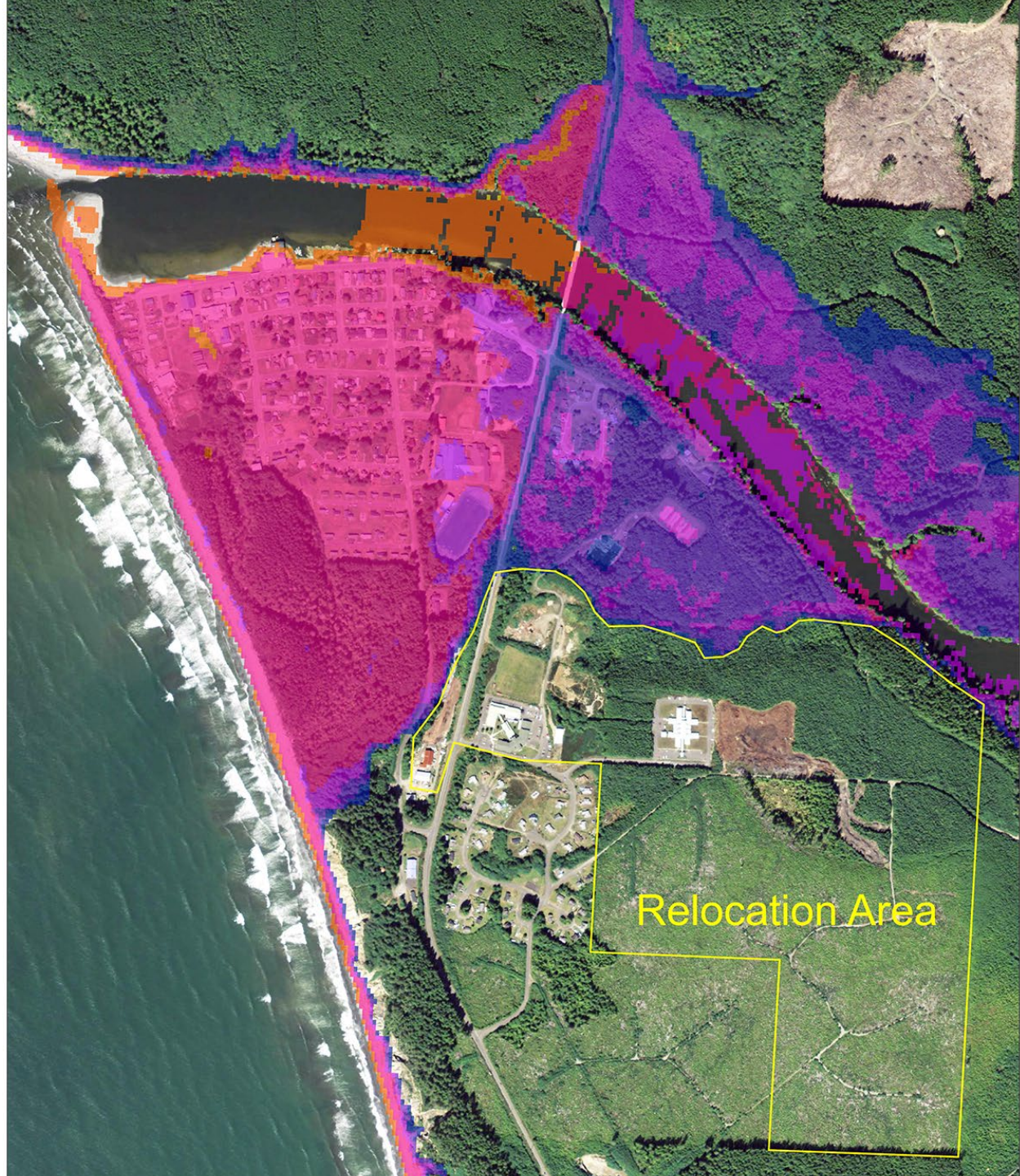
- Adopted in 2018
- 134 pages
- Outlines relocating the lower Taholah Village out of the flood zone





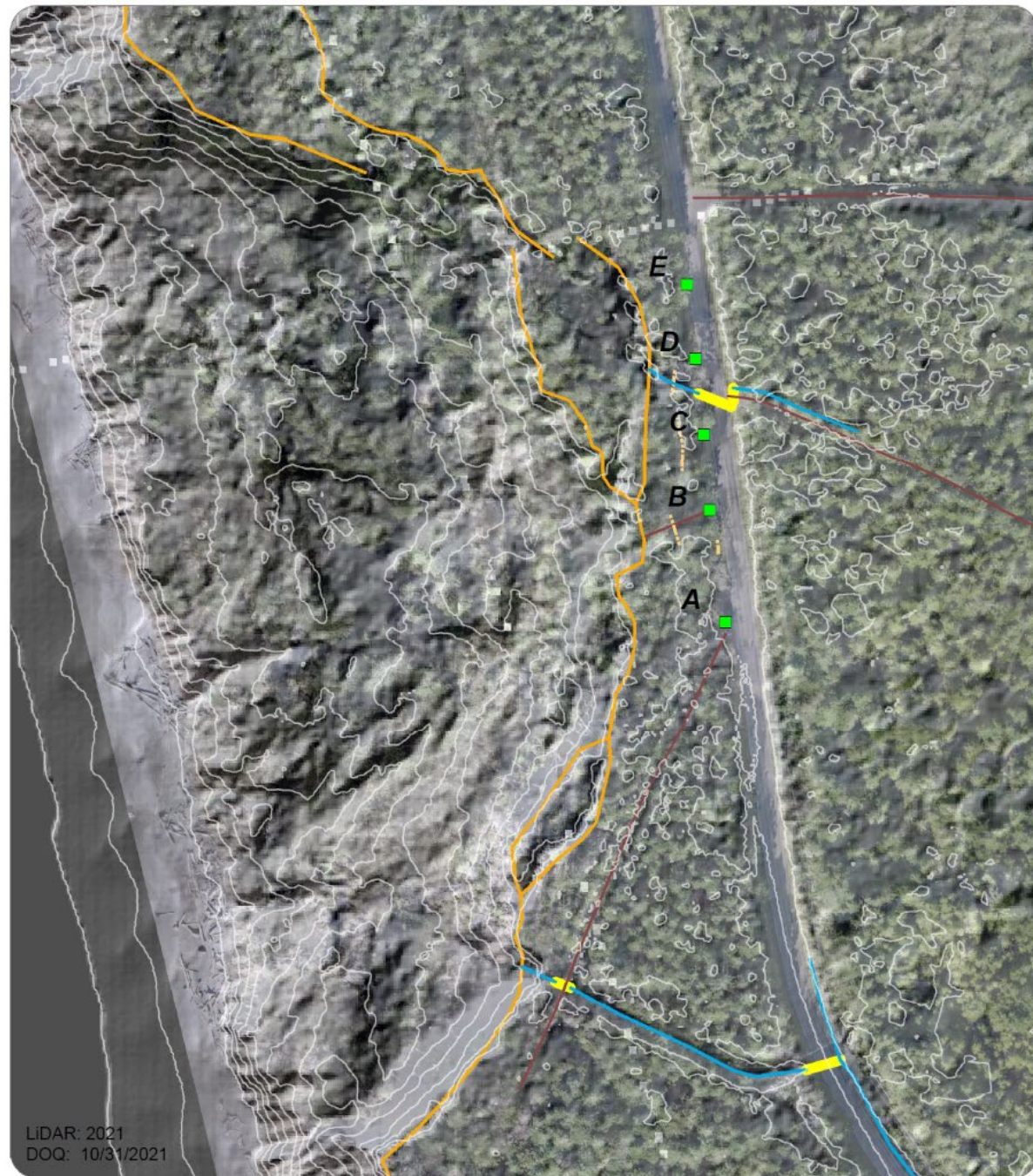
Village Relocation





Relocation Area

But Why Do
We Need
Energy
Sovereignty?



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■ Observational Monitoring Points



FIGURE 1
Observational Monitoring Points



Objectives

- Support identified critical electrical loads of Taholah Generations Building
- Produce an estimated 119,100 kWh/year
- Provide an estimated \$243,393 in energy savings over 25 years
- Deliver workforce development training workshop promoting tribal member opportunities to join the renewable energy workforce
- Implement an energy monitoring dashboard
- Minimize carbon emissions from the use of diesel generators



Taholah Generations Building

- Daycare
- Head Start
- Seniors Center
- Emergency Shelter





99kW system w/ battery backup





- Elemental Energy has been selected as a contractor for the project
 - Complications with procurement requirements delayed executing the contract, but as of meeting it has signatures.
 - Upon contract execution first deliverables are available
 - Elemental will design and install a 99 kw solar system on the generations building
 - They will also evaluate options for battery back-up

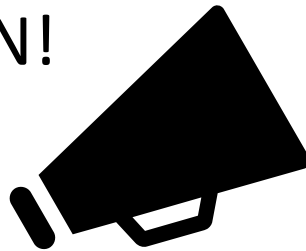


- Red Cloud has been selected for the educational and work-force component
 - Will have an online class to discuss design methodology
 - Will be a 3 day onsite training
- Bonneville Environmental has supplied funding for the educational/work-force development component



Lessons Learn... so far...

- Staff turn over
- Ground vs roof mount
- Staff opinions on diesel vs solar
- **COMMUNICATION!**





Siokwil (Thank You)

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