



Point No Point Estuary Restoration King Tide Events

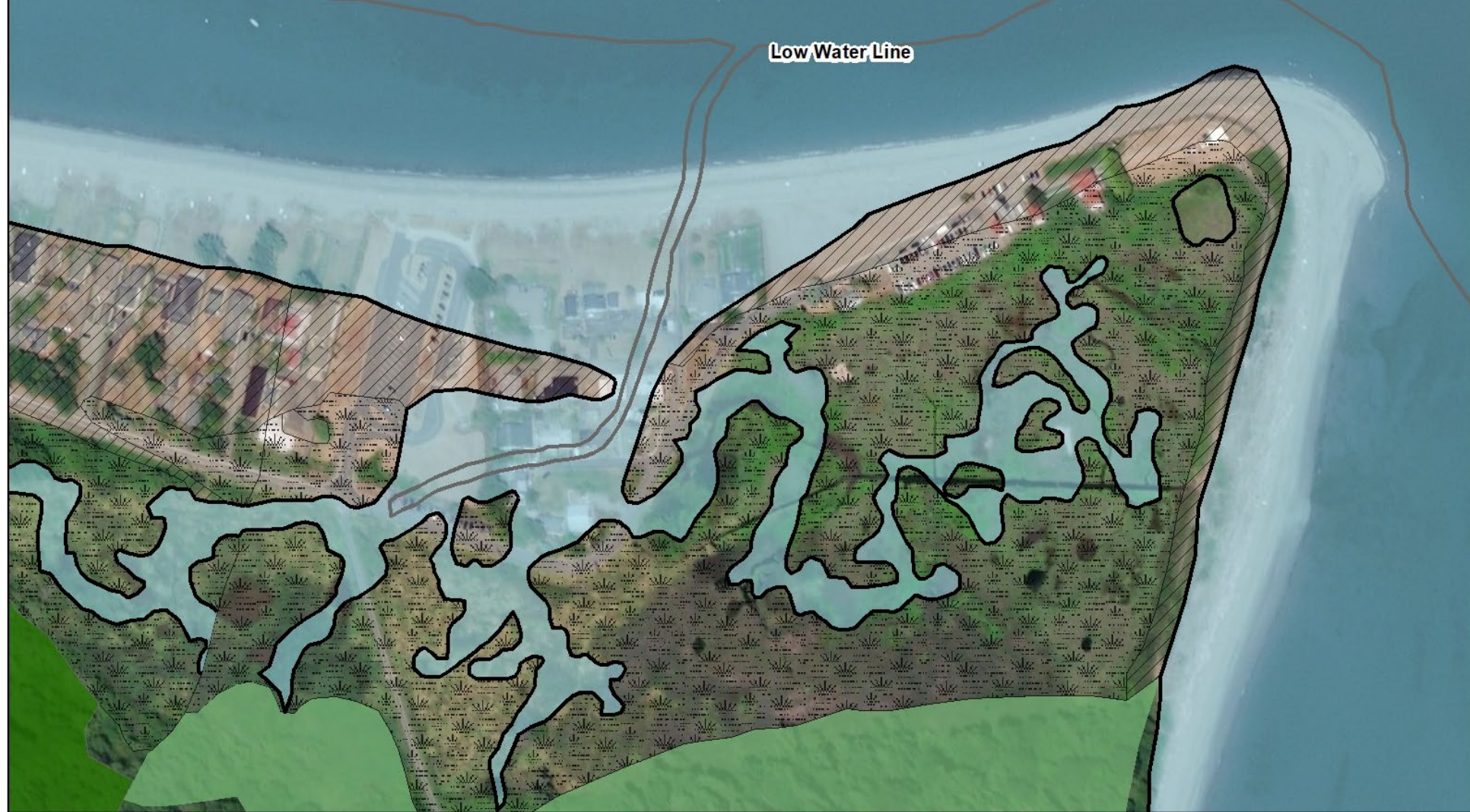
February 9, 2023

Overview

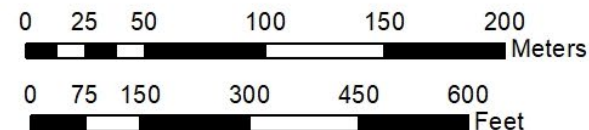
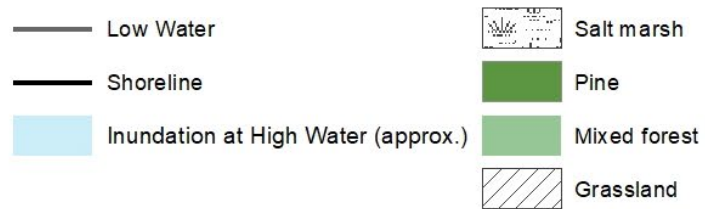
- Historic Condition (T-sheet)
- Beach Dynamics
- Beach changes on November 5
- December 27 events
- December 27 events if project had already been implemented



Historic Condition



Imagery from 2018
T-Sheet Overlay 1857 and 1872

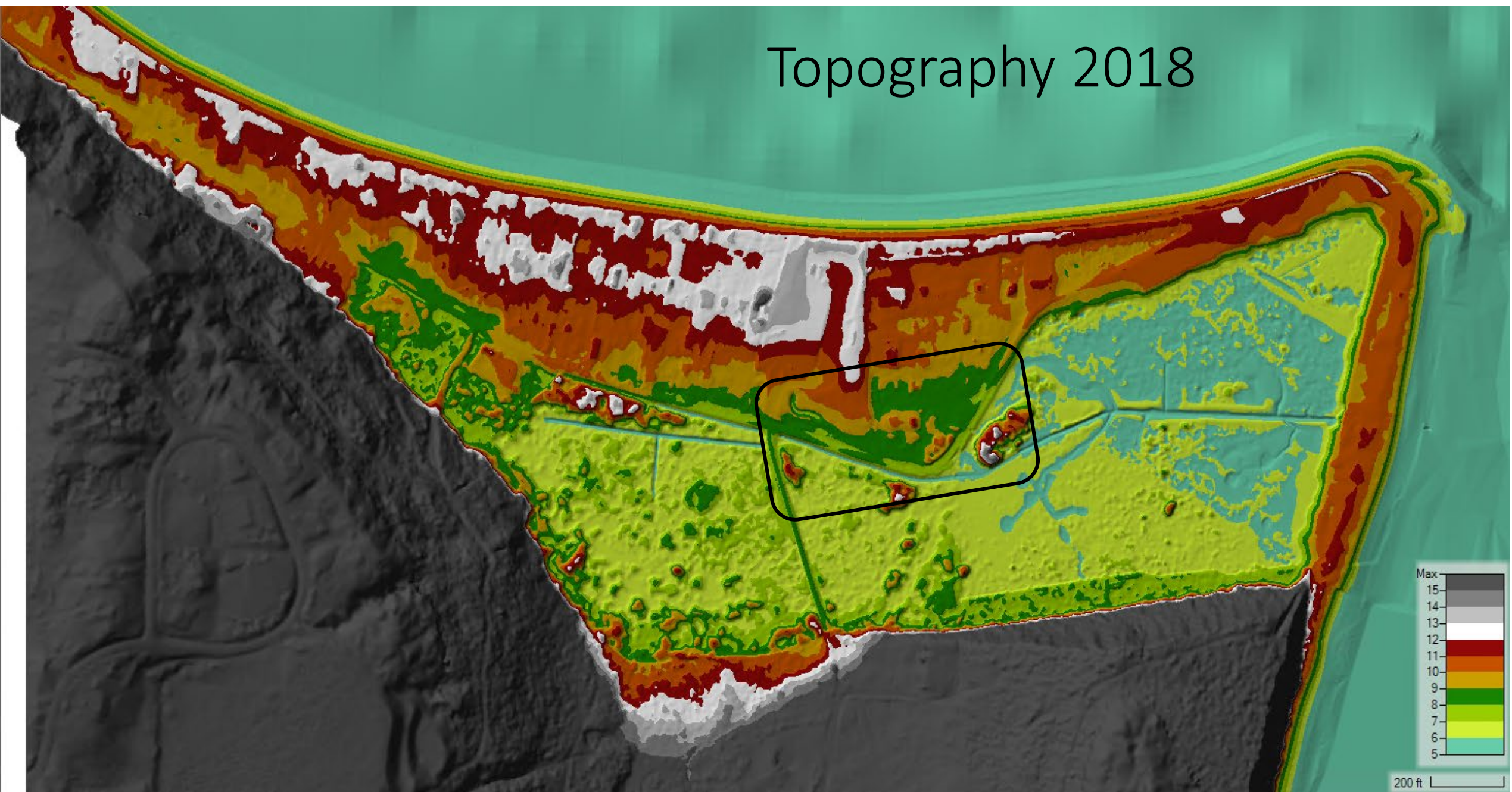




Pre-November 2022 Conditions

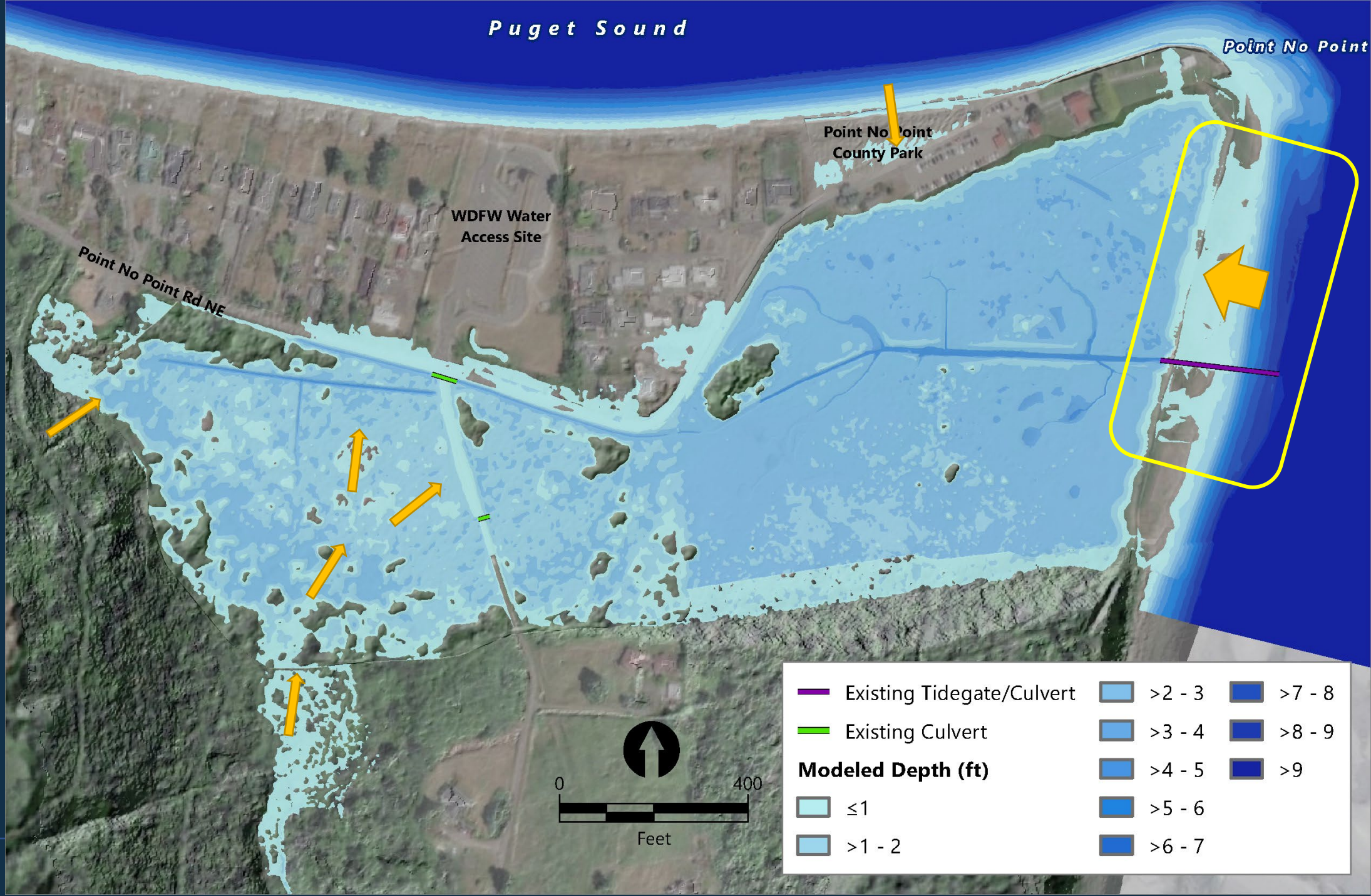


Topography 2018



January 6,
2022 King
Tide Event
Resulted in
minimal
flooding of
road

Yellow arrow
show water
flowing into
the site





November 2022 Erosion

November 5, 2022

Erosion

Wind speed: 26 knots (30 mph)

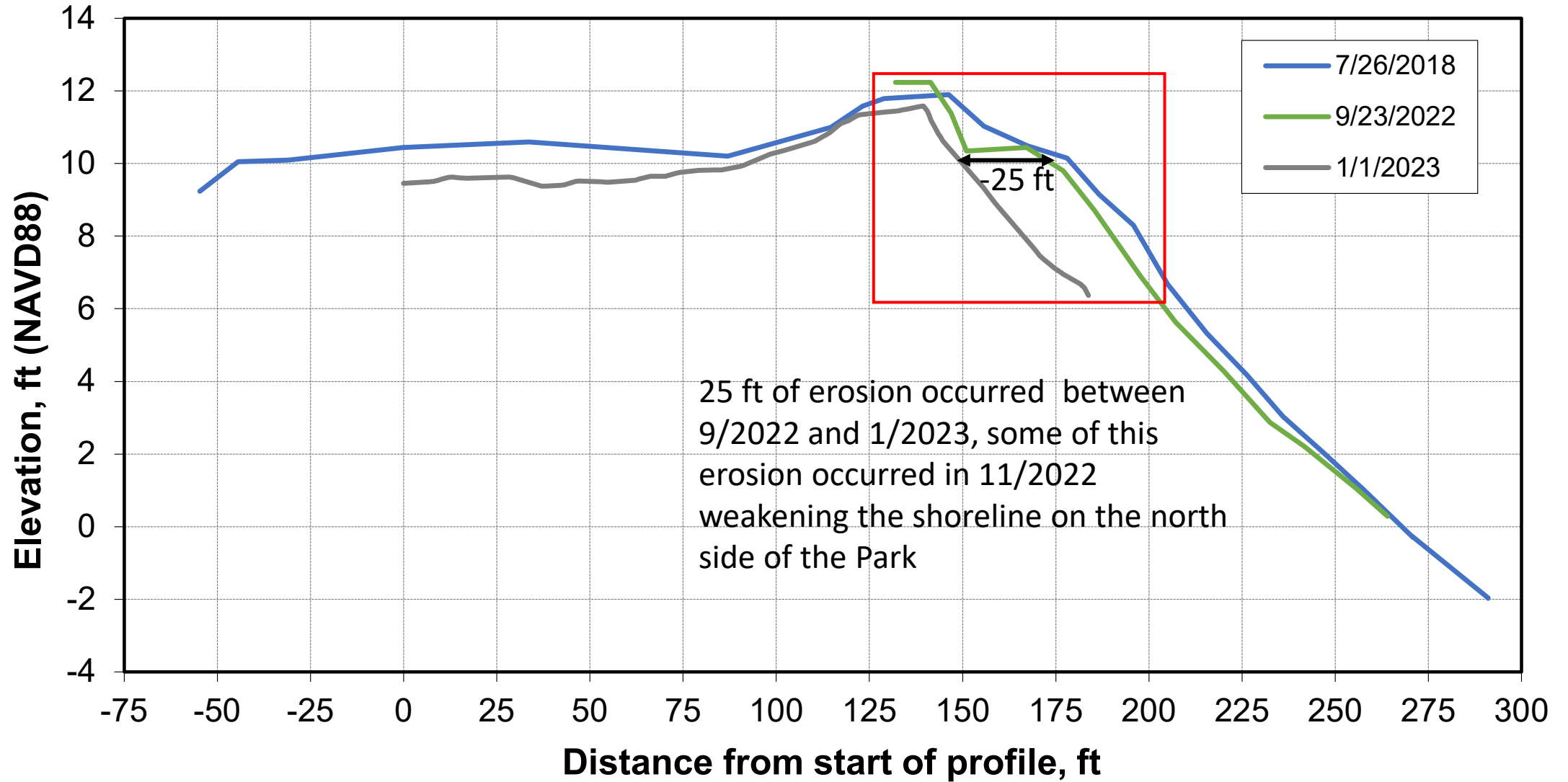
Wind Direction: Northwest @ Point
No Point

Estimated Wave Height = 3 feet

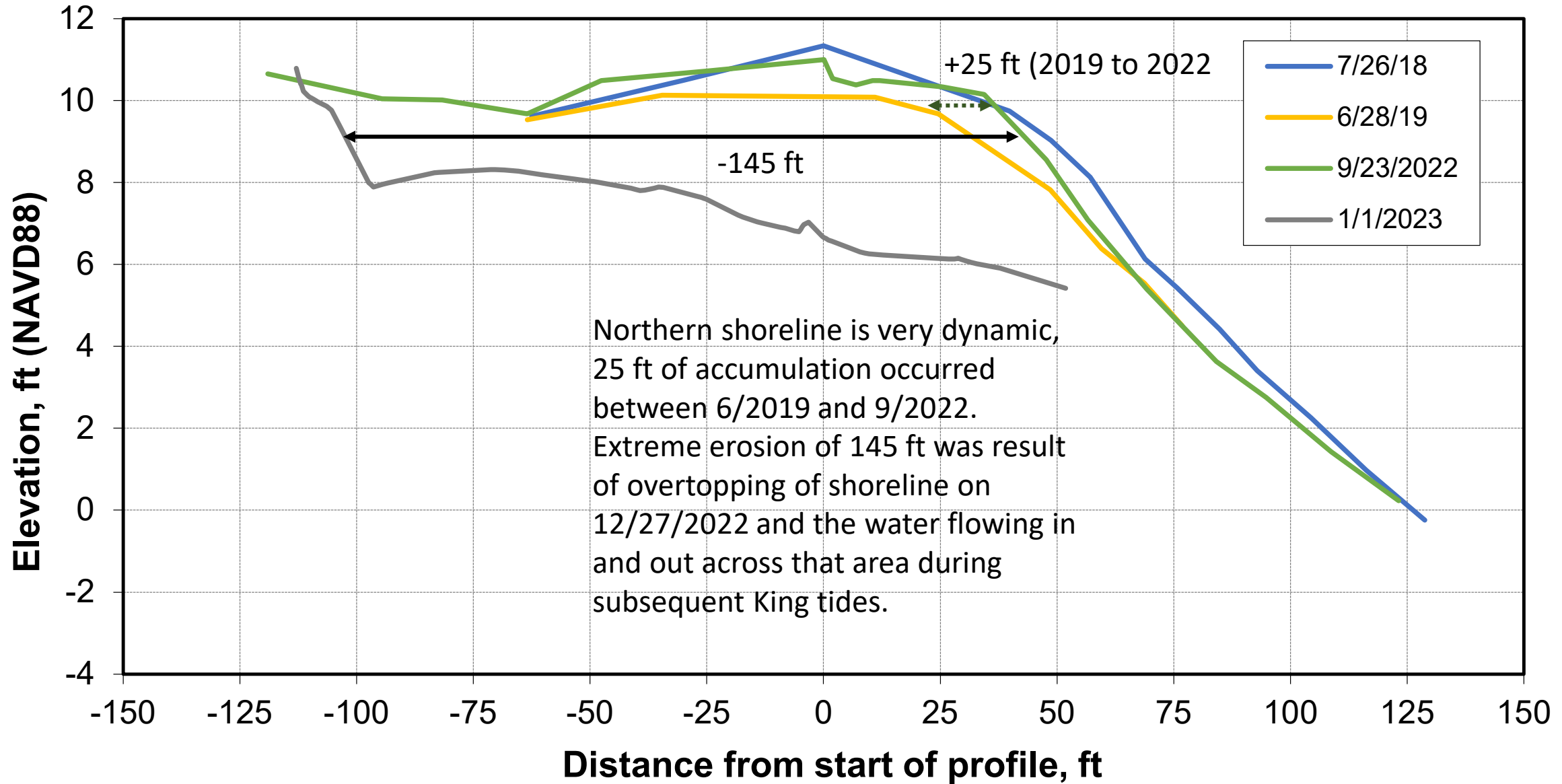
Wave Period = 4.1 seconds




Cross Shore Beach Profile Change Analysis TX 1 Western Boundary of the Park



Cross Shore Beach Profile Change Analysis TX 3 Middle of Northern Beach

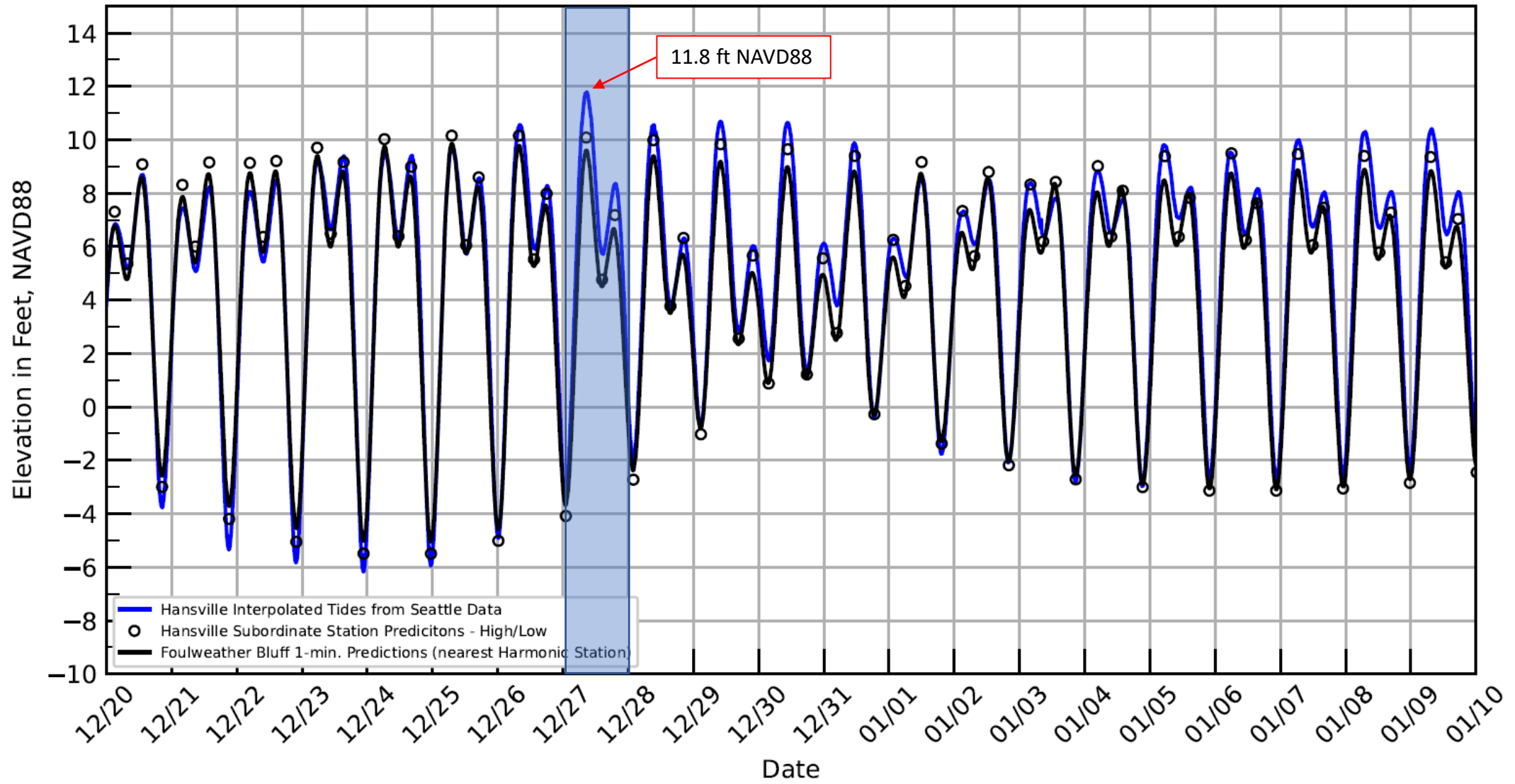




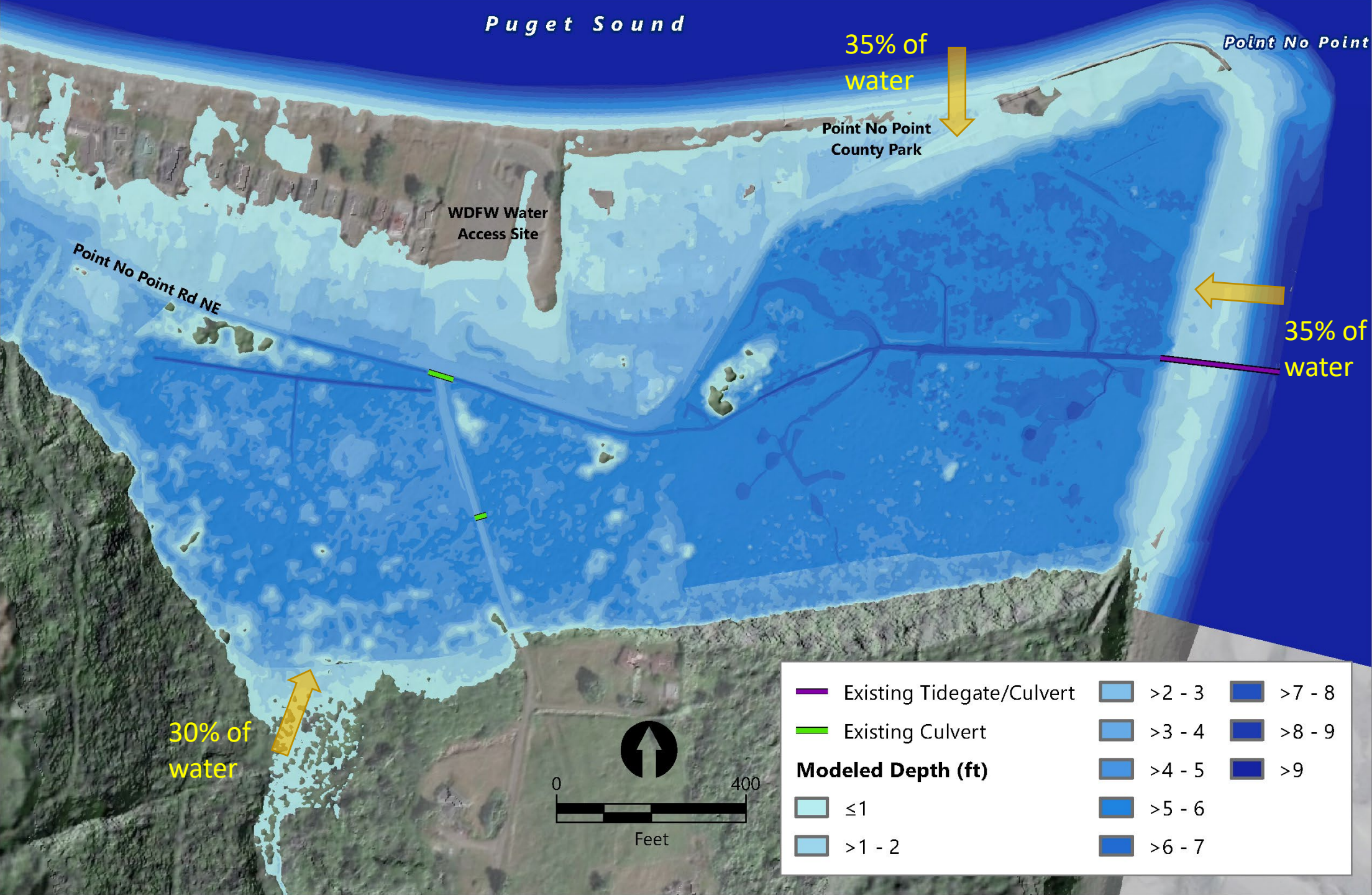
December 2022 King Tides

December 27, 2022 King Tides

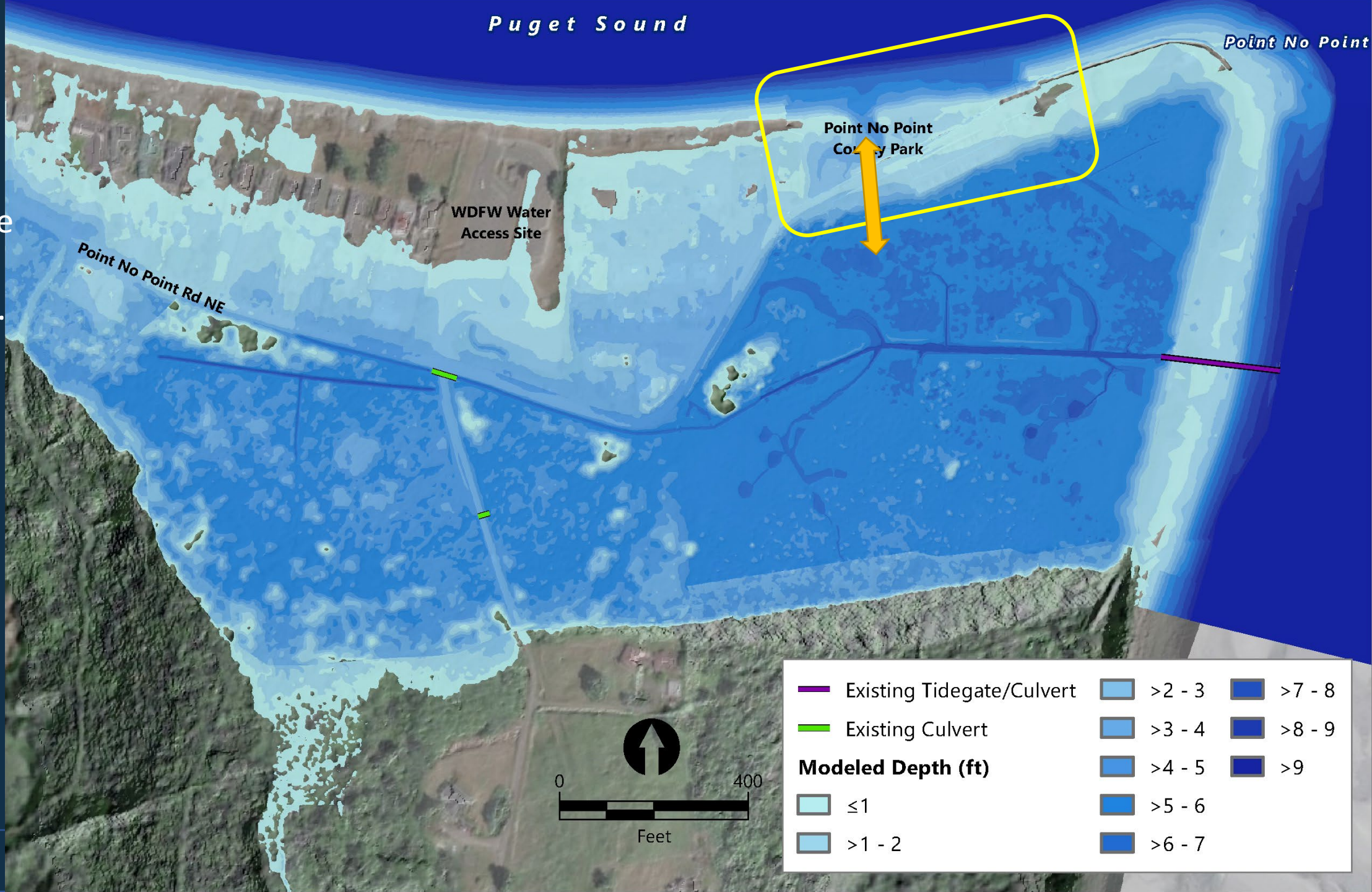
Hansville NOAA Station - Interpolated Tidal Signal From Seattle Data



December 27 maximum water depths in the area during overtopping event from king tide.



December 28
after channel
formed and
king tide came
in again on
December 28.



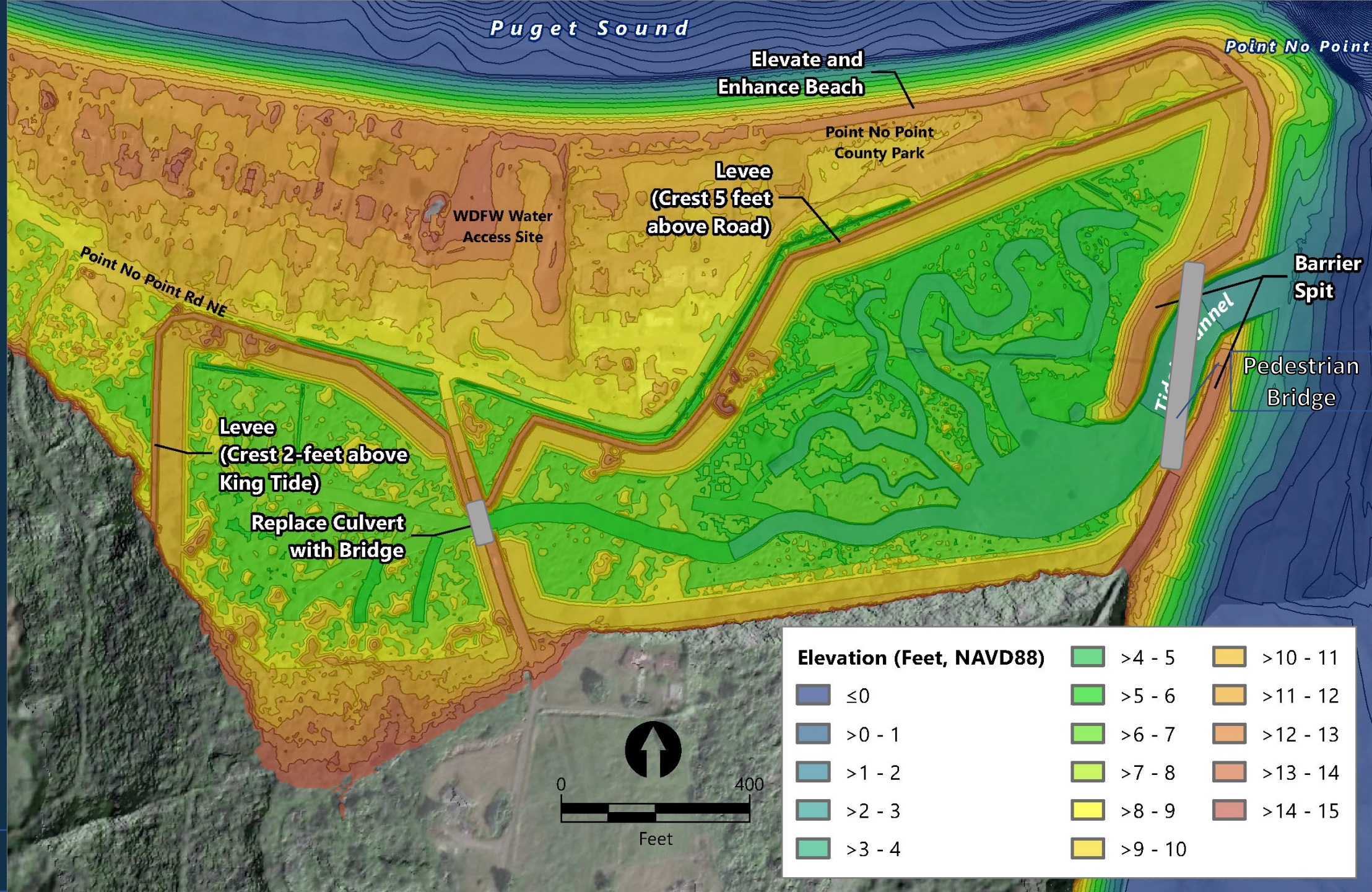
December 28 after
channel formed.





Predicted Project Response to King Tides

Preliminary Proposed Full Restoration Scenario



Water Depths on December 28 King Tide Event If Full Restoration Scenario were implemented

