Appendix C:
Maps for Baker Bay

Maps presented in this Appendix were created for Workshop 2. The maps include a ‘present-day’ sea level and flooding scenario, and an ‘anticipated future’ flooding scenario, for each of the five focus areas where issues identified by participants during Workshop 1 are clustered. Additional map features included infrastructure (buildings and roads), flow barriers (culverts and tidegates), and the Workshop 1 identified issues.

‘Present-day’ sea level is represented by the NOAA mean high high water (MHHW) extent, and ‘Present-day’ flooding is represented by the FEMA 100-year (1% annual exceedance probability) flood extent. We chose a sea level rise value of 6’ above current MHHW as our future flooding extent. This represents a scenario that combines a predicted 20-year extreme flood event (~5’ above current MHHW) plus projected relative SLR (~1’ above current MHHW) that are likely to occur at the end of the century (~2100), based on current climate model estimates (Miller et al. 2018). These values are consistent with what is published in the Pacific County 2023 Sea Level Rise Risk Assessment (DCG/Watershed, 2023). Table 1 in that document indicates a 50% likelihood of 1’ 2” of SLR and 4’ 7” of additional extreme flood inundation on top of SLR, for a combined increase of 5’ 9” for the year 2100.

Appendix C References

DCG/Watershed Inc. 2023. *Sea Level Rise Risk Assessment. Prepared for Pacific County Department of Community Development.*

Miller, I.M., Morgan, H., Mauger, G., Newton, T., Weldon, R., Schmidt, D., Welch, M., Grossman, E. 2018. *Projected Sea Level Rise for Washington State – A 2018 Assessment. A collaboration of Washington Sea Grant, University of Washington Climate Impacts Group, University of Oregon, University of Washington, and US Geological Survey. Prepared for the Washington Coastal Resilience Project.* updated 07/2019

A) Focus Area 1: City of Ilwaco

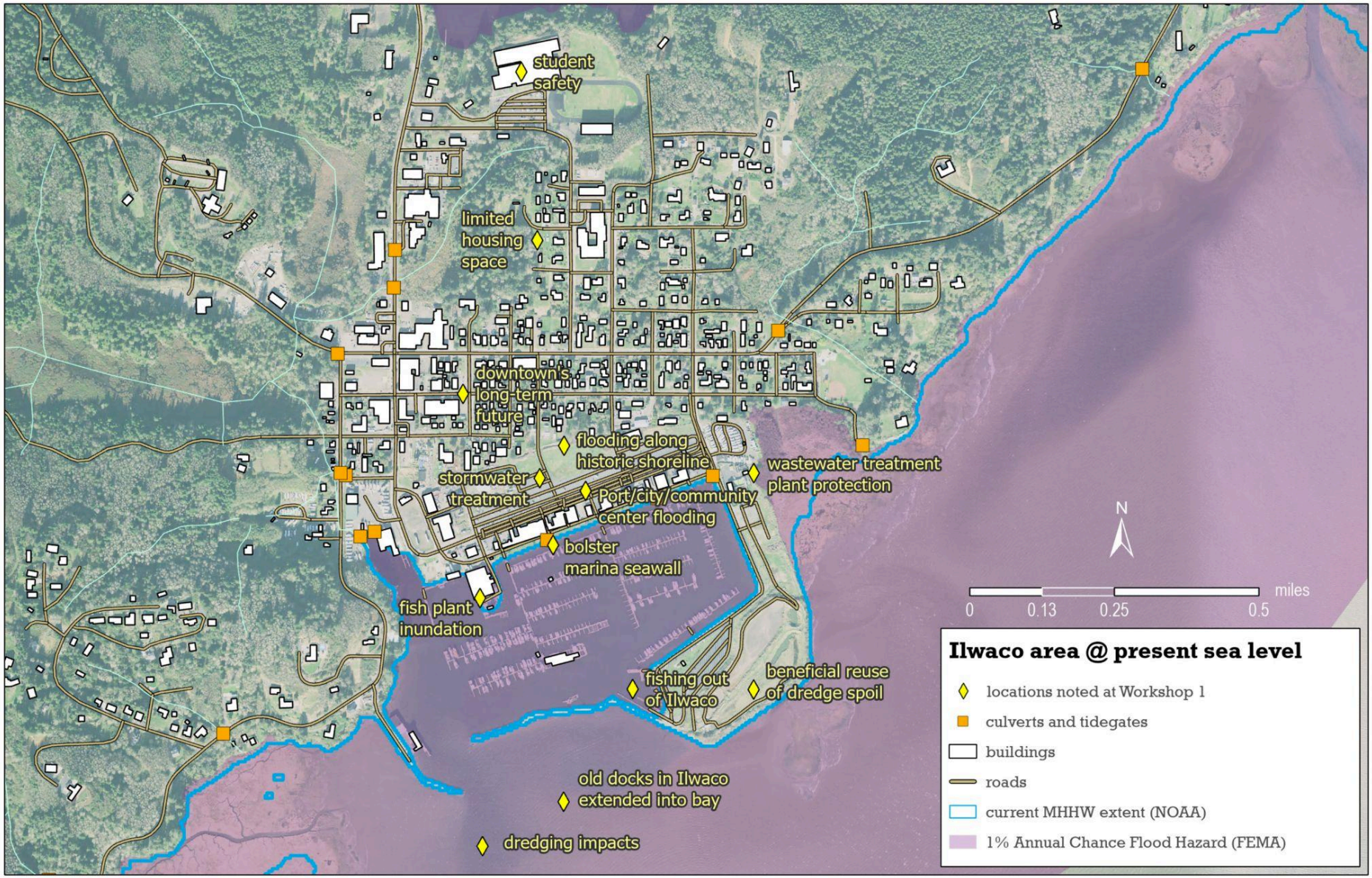

Figure C.1a. City of Ilwaco - present-day flood extent.

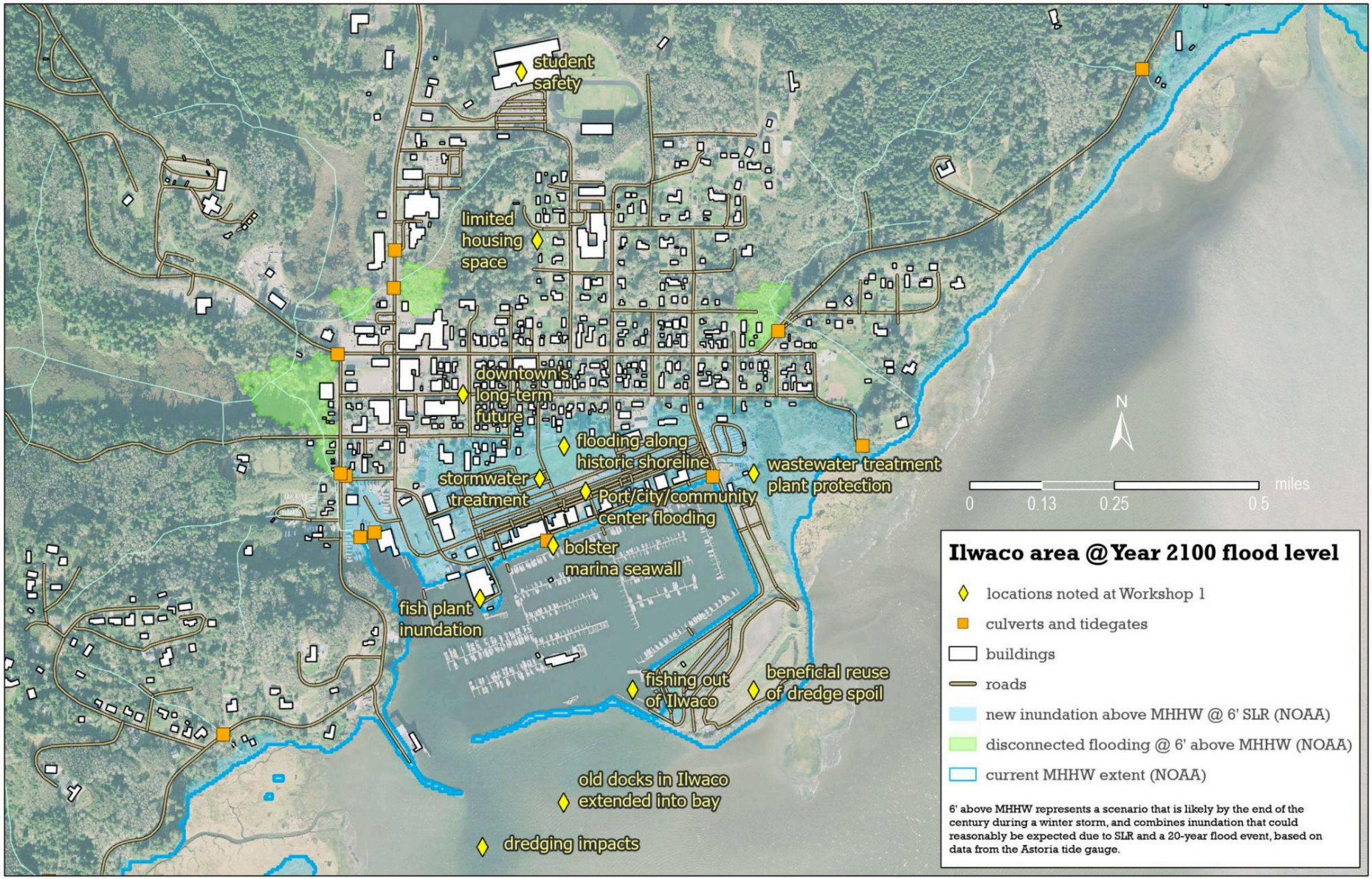

Figure C.1b. City of Ilwaco - estimated future flooding scenario.

B) Focus Area 2: Wallacut River

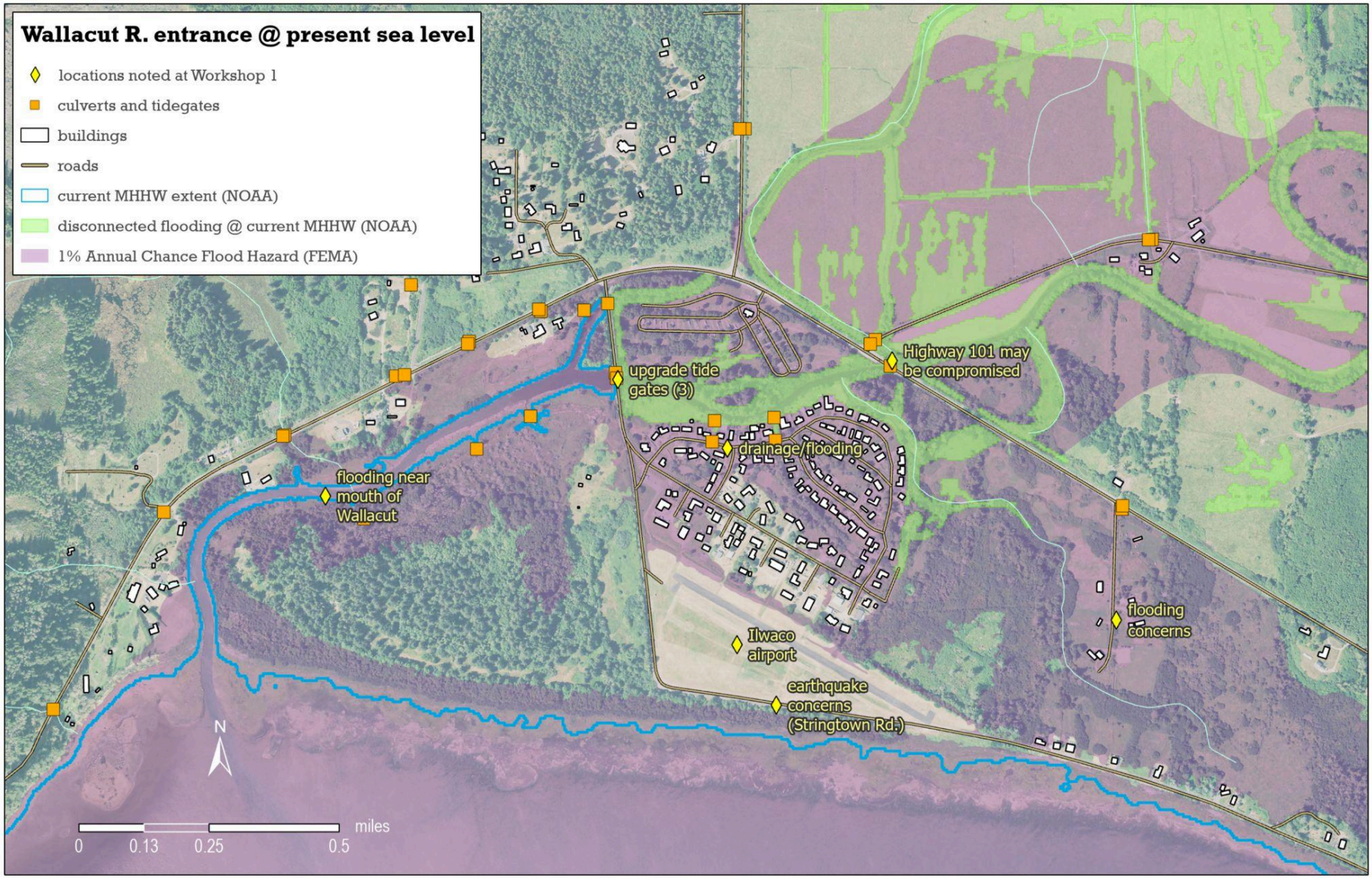

Figure C.2a. Wallacut River - present-day flood extent.

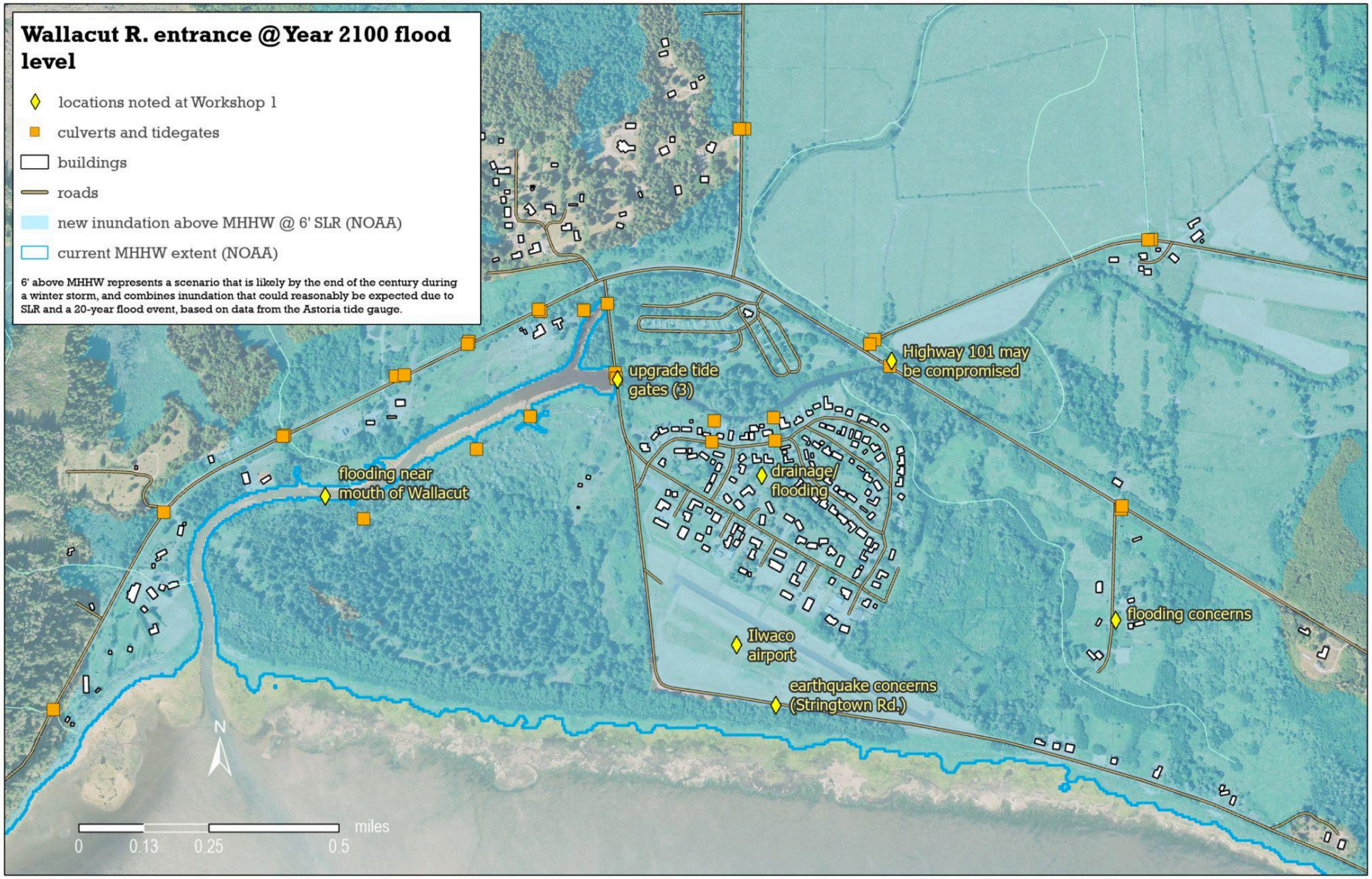

Figure C.2b. Wallacut River estimated - future flooding scenario.

C) Focus Area 3: Chinook River mouth (Lower Chinook River)

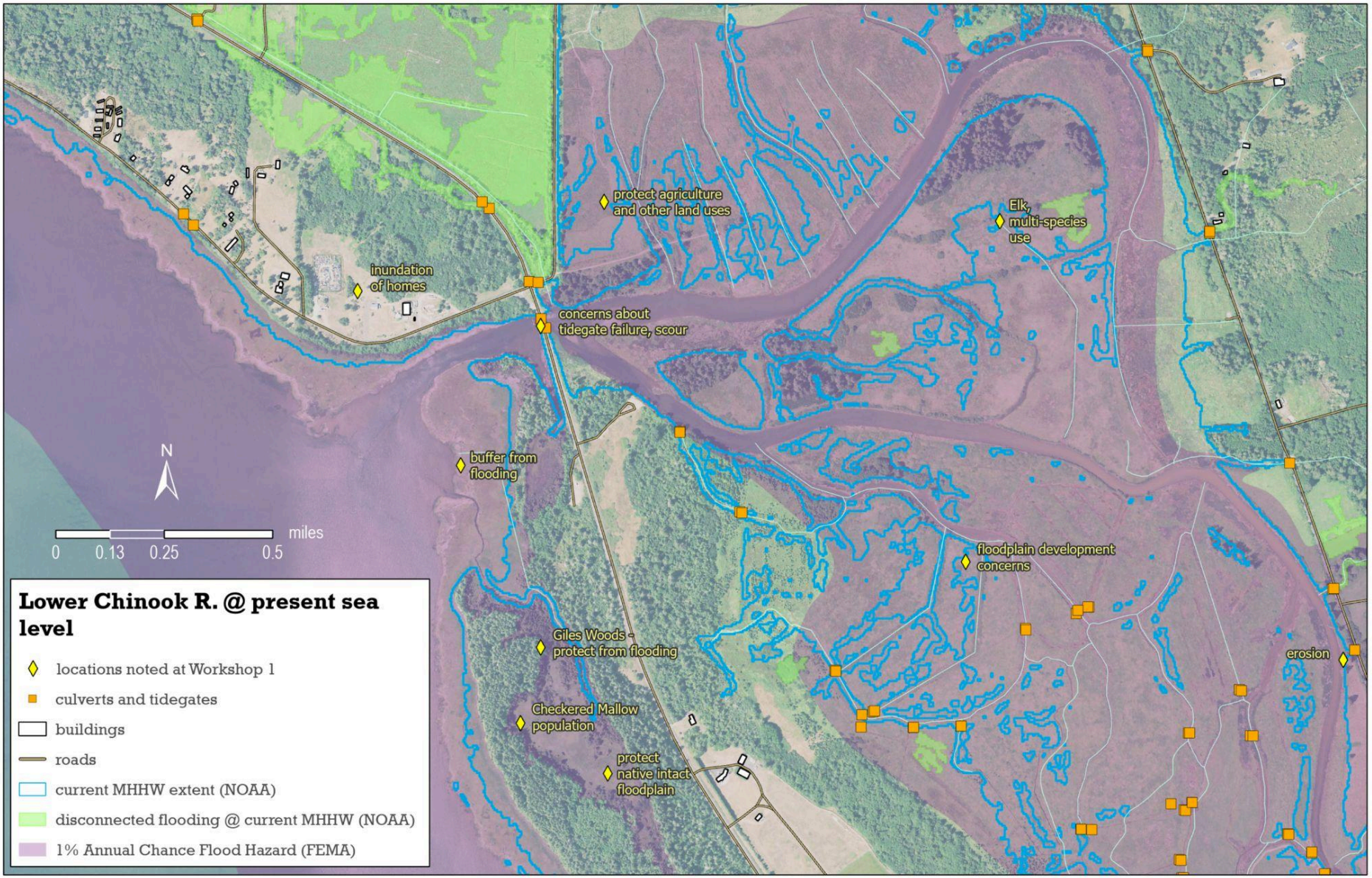

Figure C.3a. Chinook River mouth - present-day flood extent.

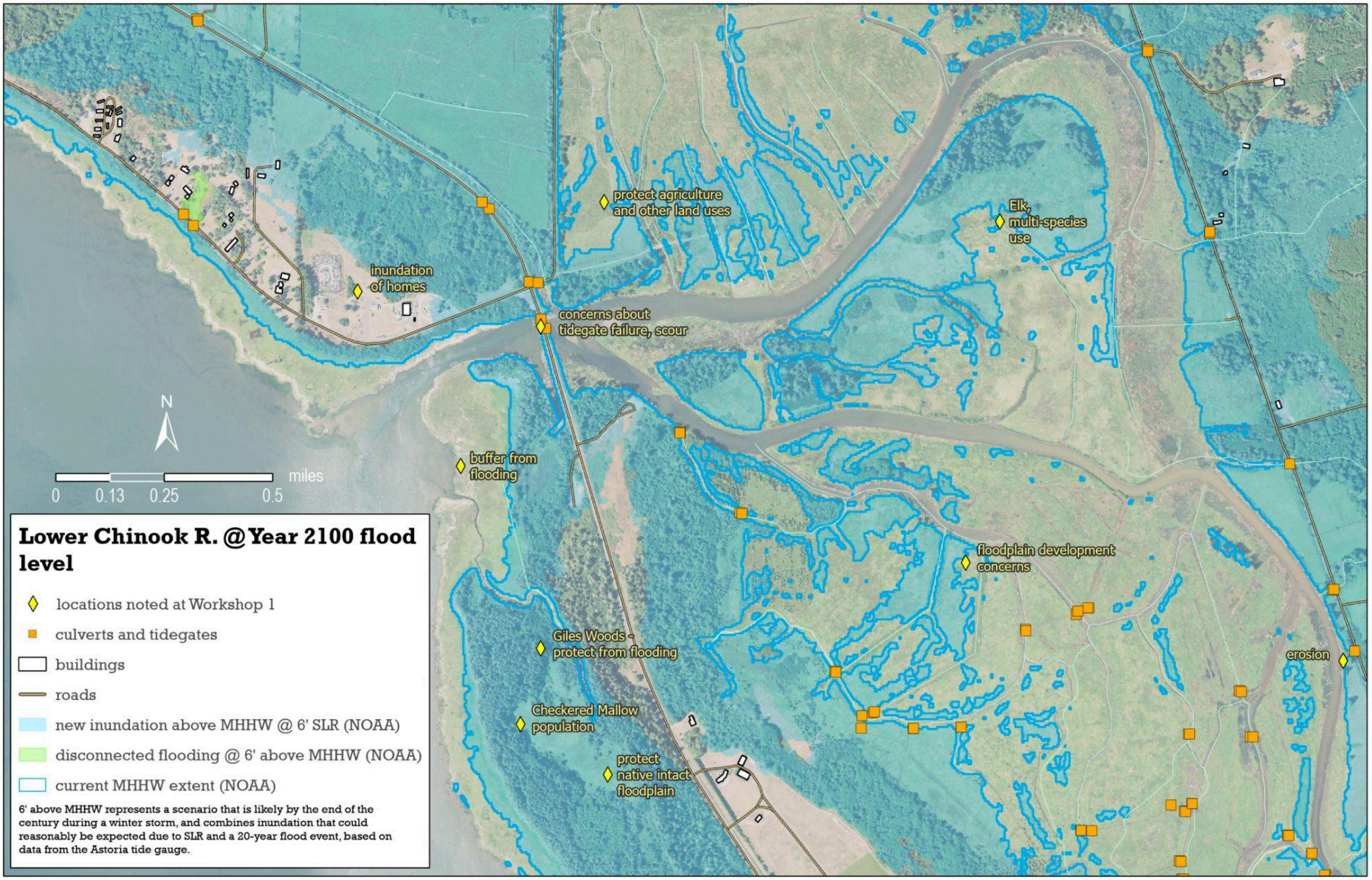

Figure C.3b. Chinook River mouth estimated - future flooding scenario.

D) Focus Area 4: Chinook River Houchen Rd./hatchery (Upper Chinook River)

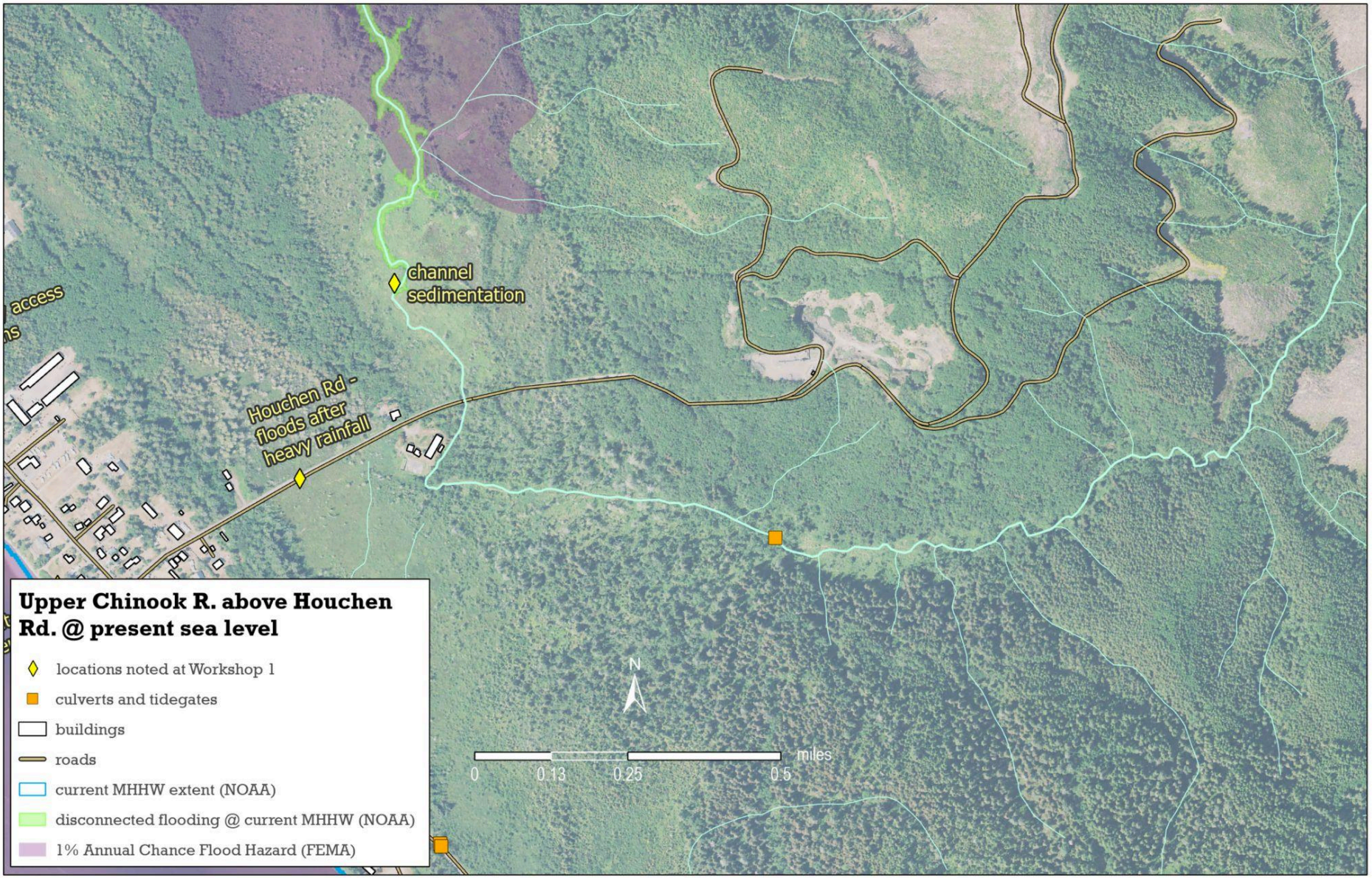

Figure C.4a. Chinook River Houchen Rd/hatchery - present-day flood extent.

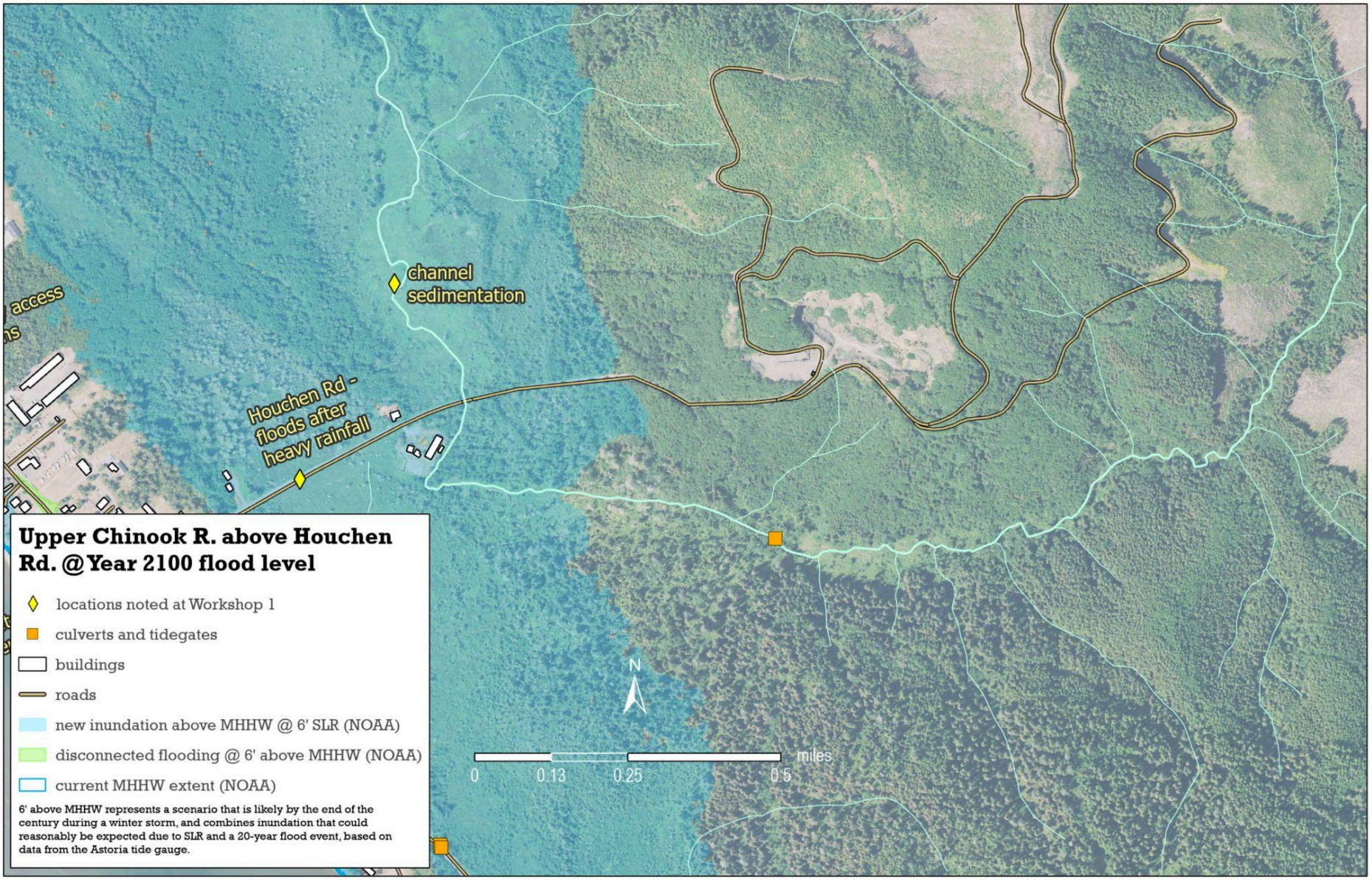

Figure C.4b. Chinook River Houchen Rd/hatchery - estimated future flooding scenario.

E) Focus Area 5. Chinook Shoreline

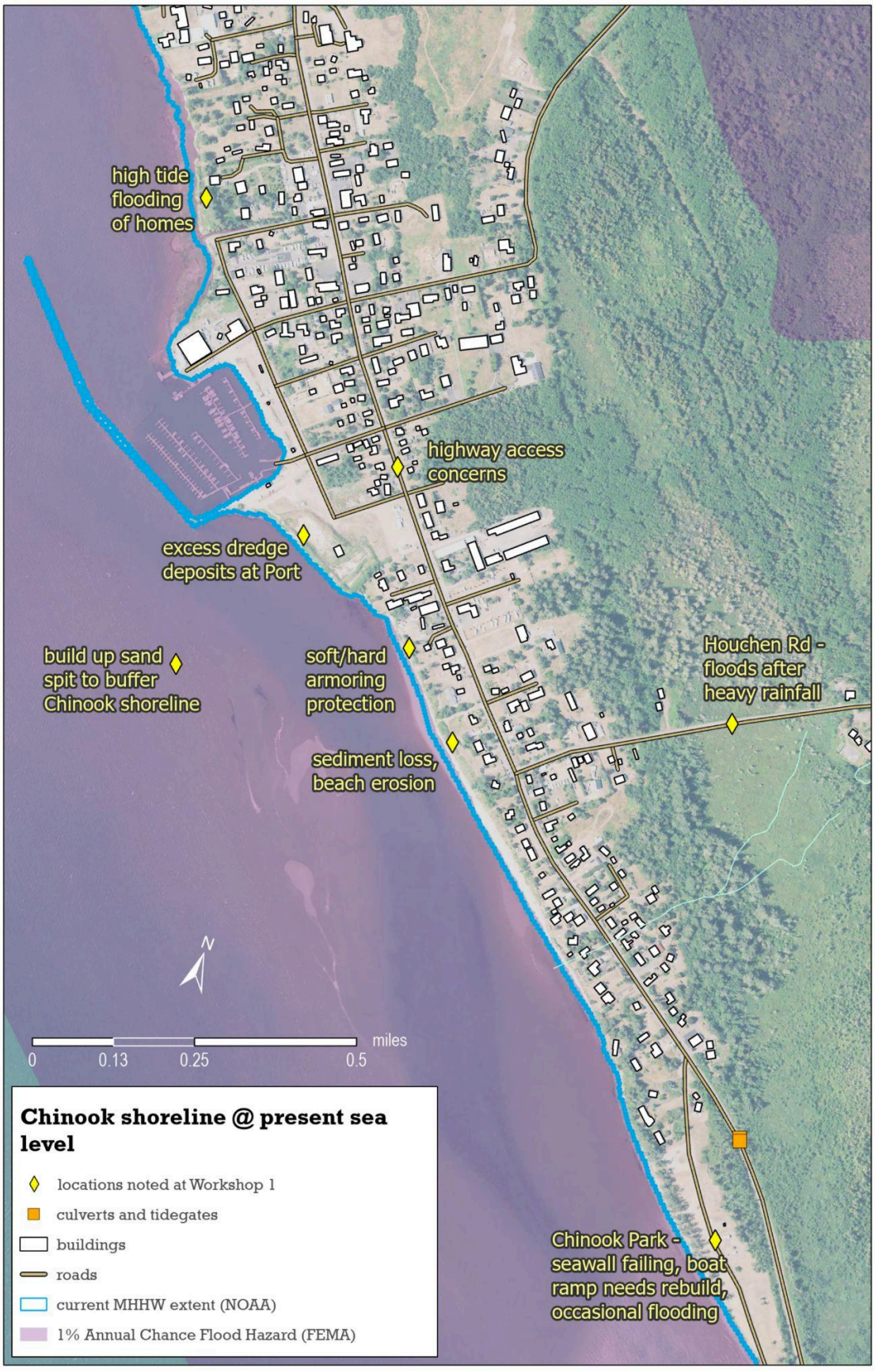

Figure C.5a. Chinook shoreline - present-day flood extent.

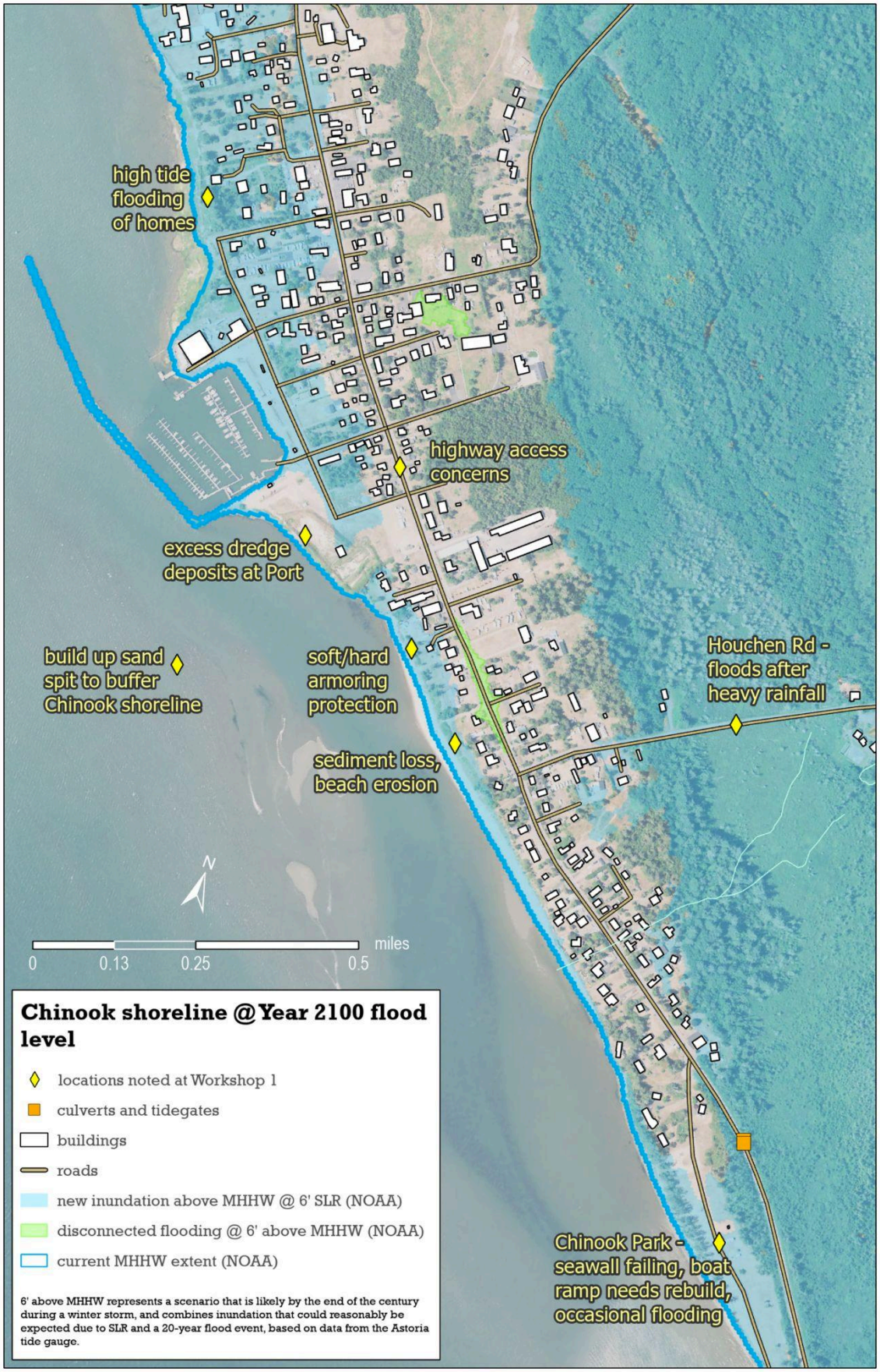

Figure C.5b. Chinook shoreline - estimated future flooding scenario.