

# Appendix F:

## Maps for Grays 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. ‘Present-day’ flooding data represented by the FEMA 100-year (1% annual exceedance probability) flood extent is not available for Wahkiakum County, and thus is not shown.. 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.

For focus areas 4 and 5, a map of predicted future flooding is not included because the predicted flood extent did not extend this far upstream. Focus area 5 is upstream of present-day tidal influence, thus MHHW extent is not shown on this map.

### Appendix F 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*

1) Focus Area 1: Middle Deep River

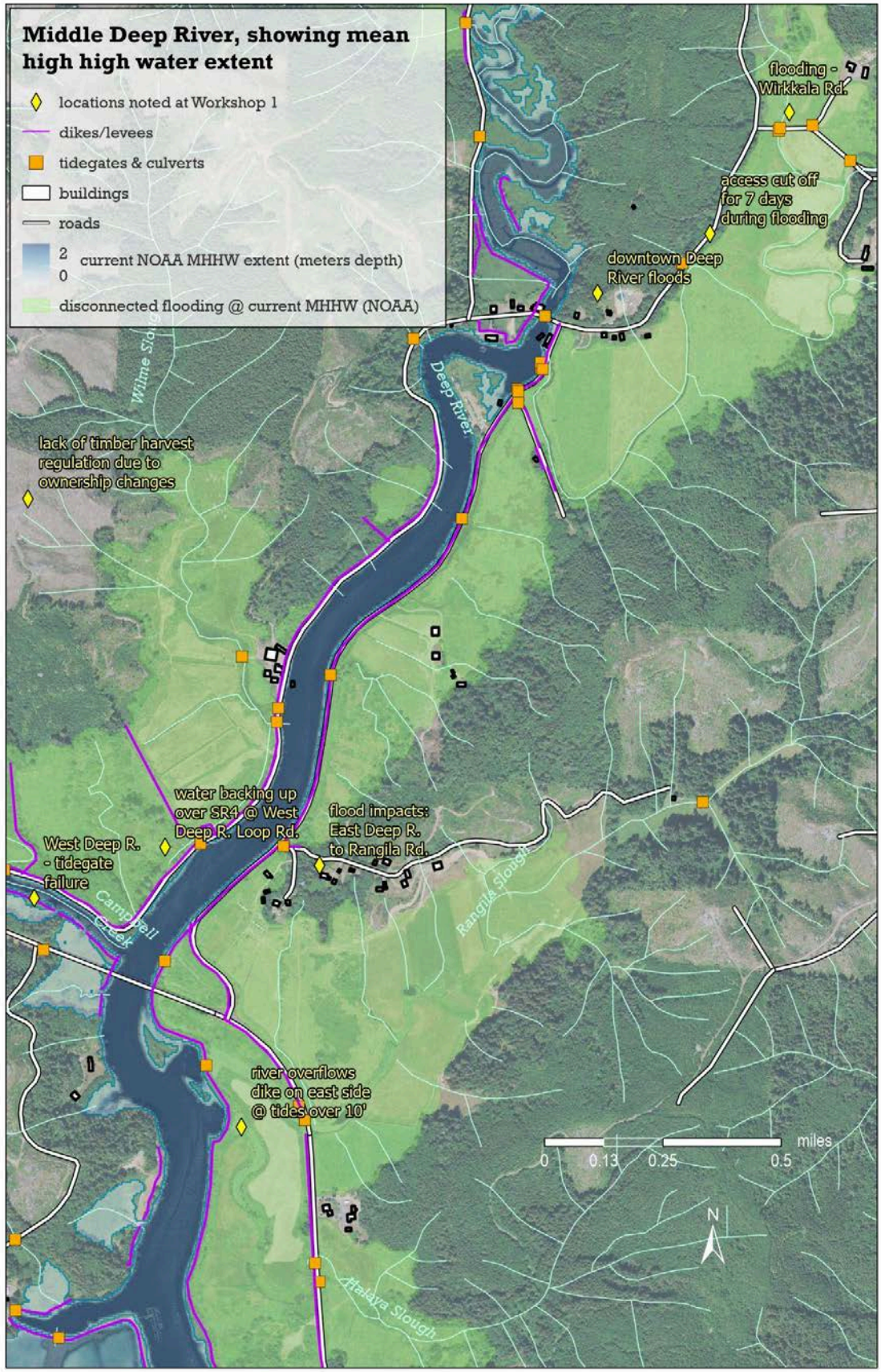


Figure F.1a. Middle Deep River - present-day flood extent.

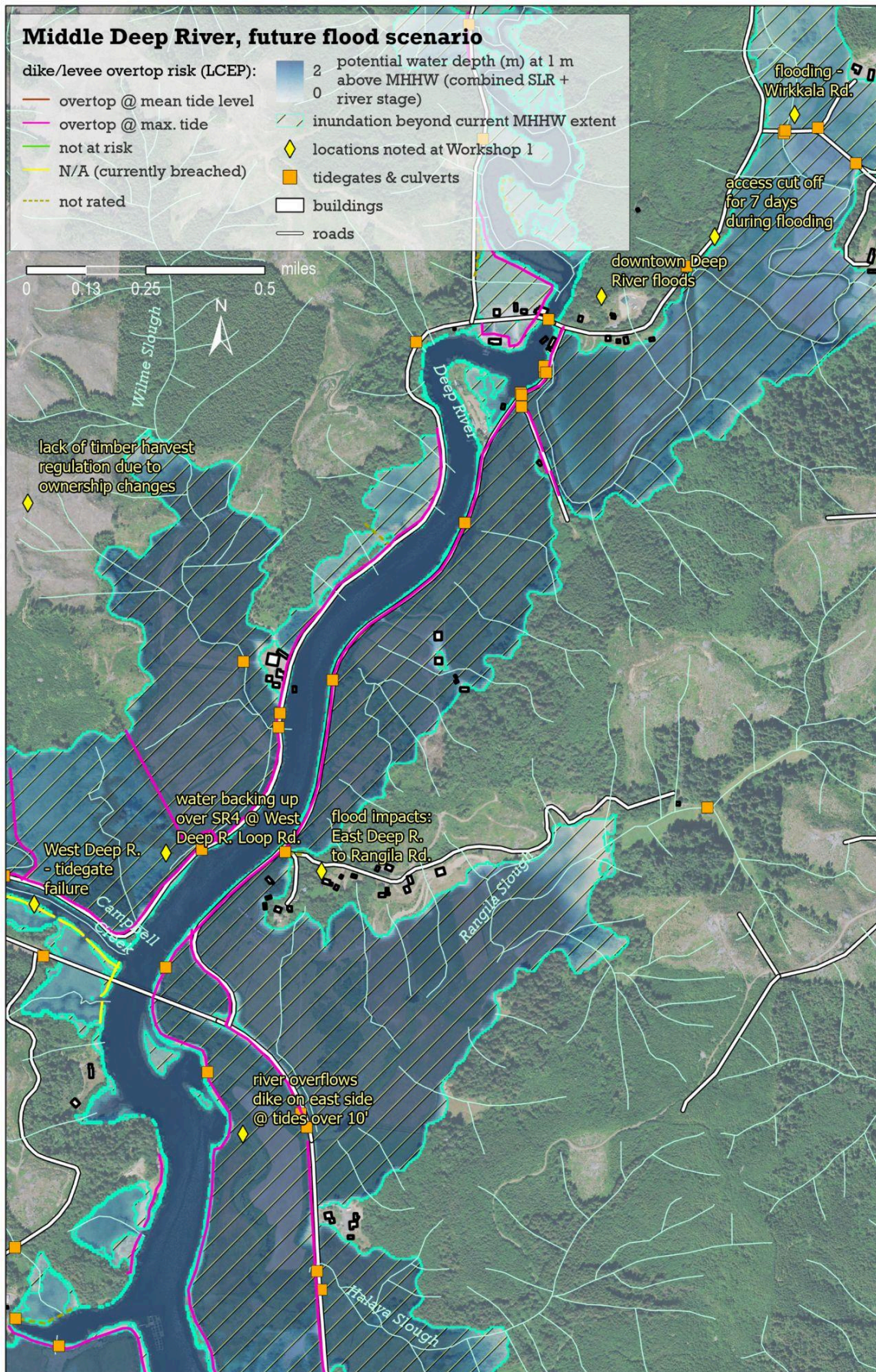


Figure F.1b. Middle Deep River - estimated future flooding scenario.

2) Focus Area 2: Seal Creek at State Route 4

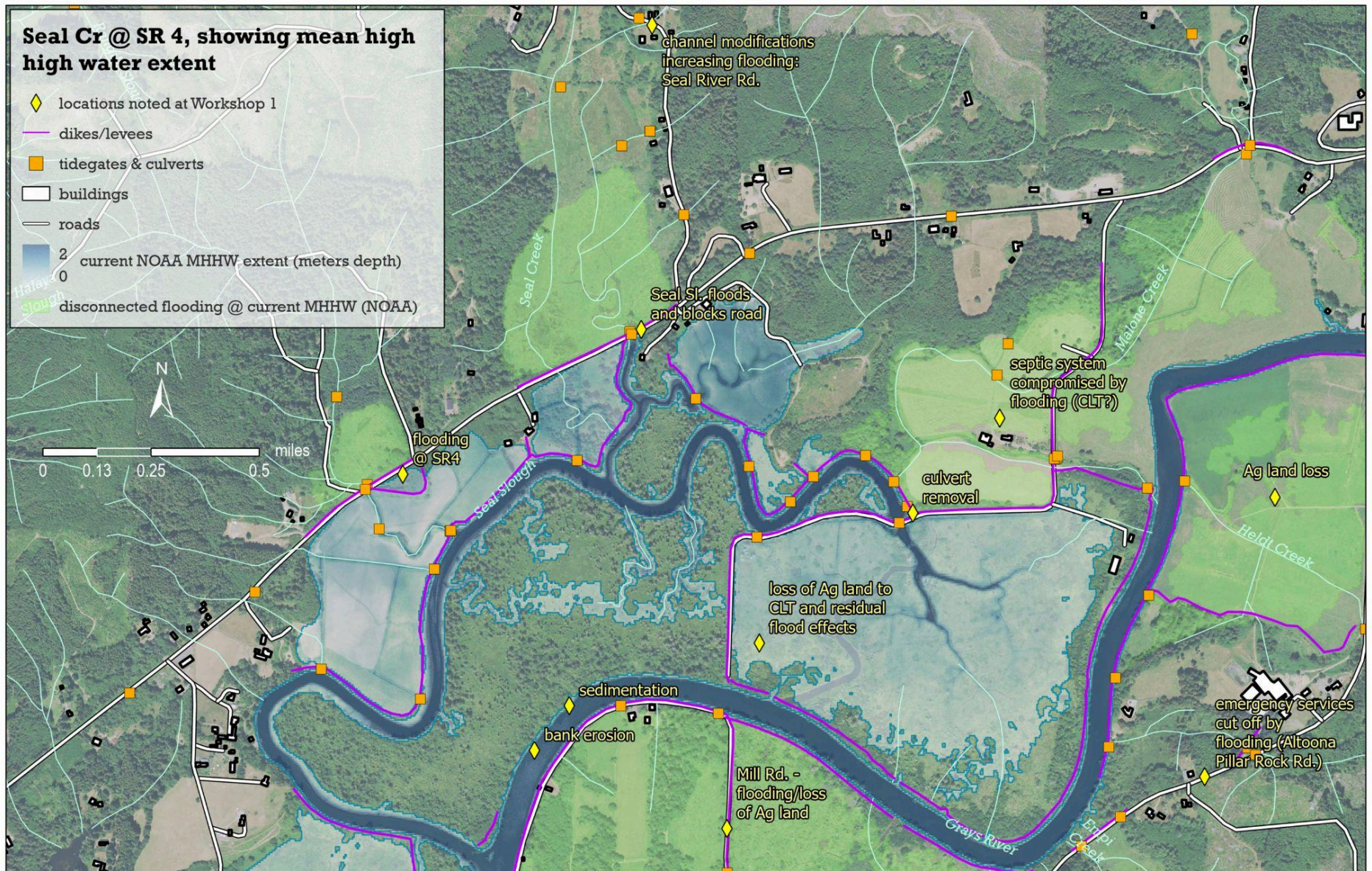


Figure F.2a. Seal Creek at State Route 4 - present-day flood extent.

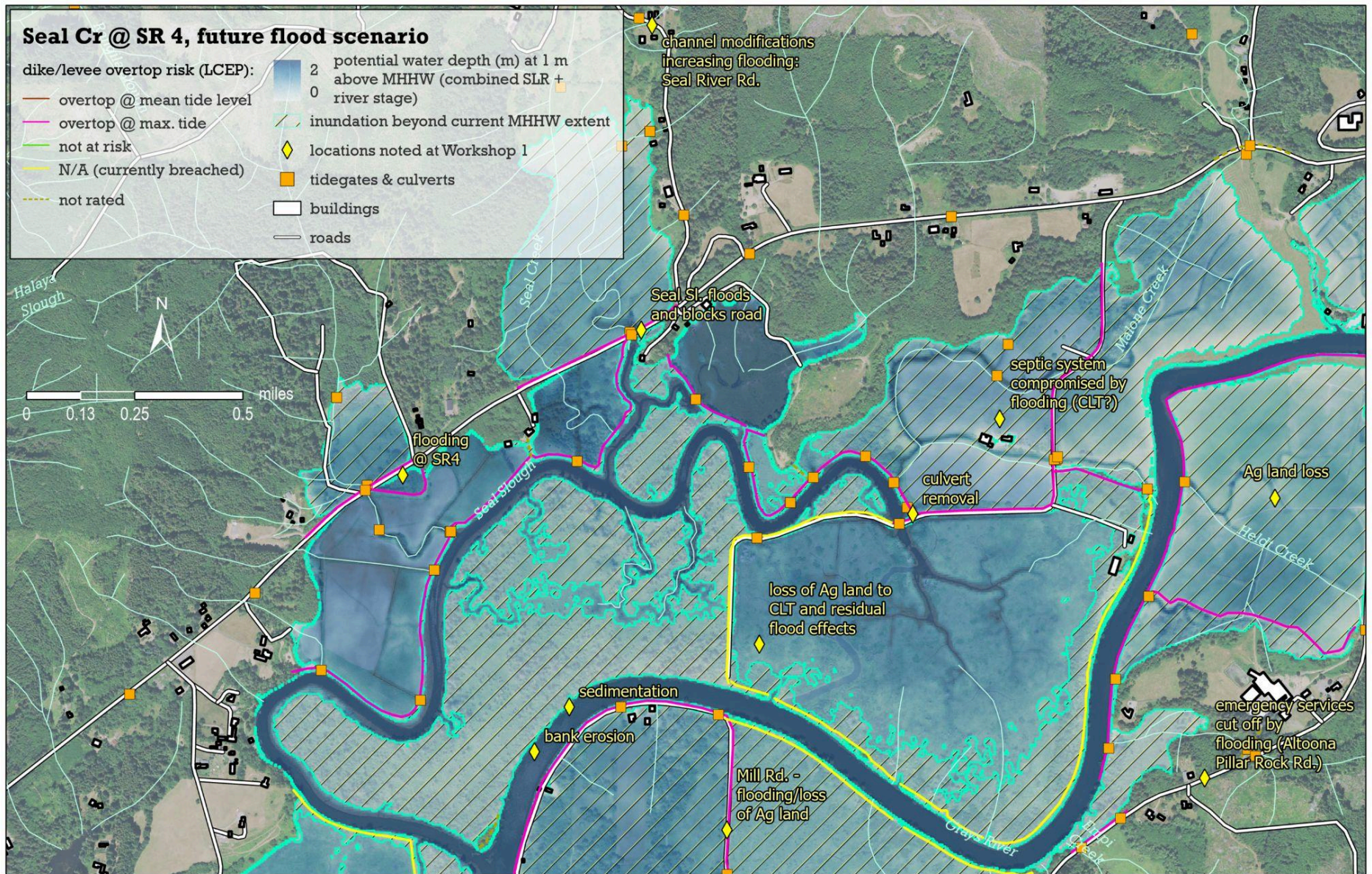


Figure F.2b. Seal Creek at State Route 4 - estimated future flooding scenario.

3) Focus Area 3: Grays River at Altoona-Pillar Rock Road

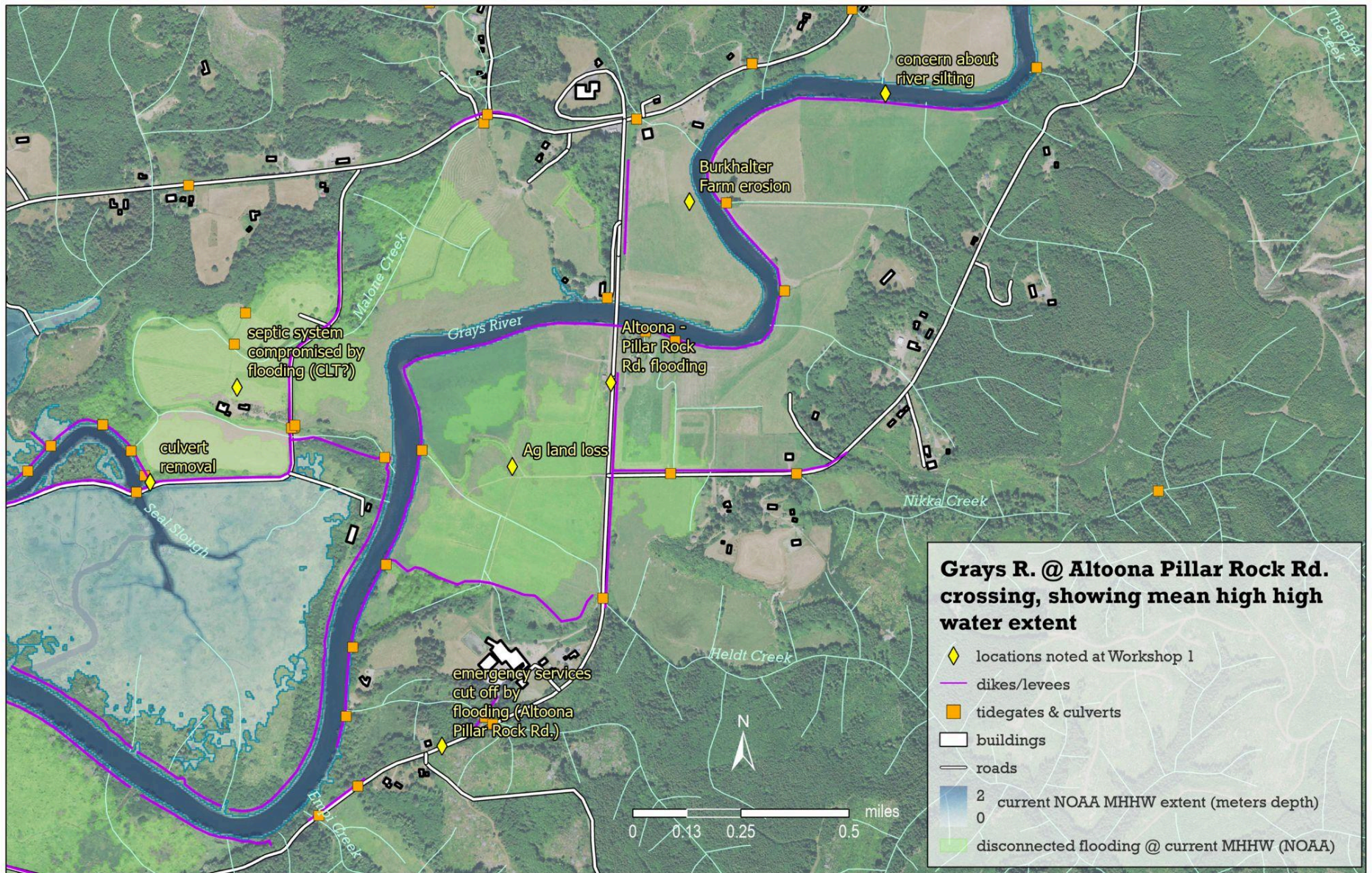


Figure F.3a. Grays River at Altoona-Pillar Rock Road - present-day flood extent.

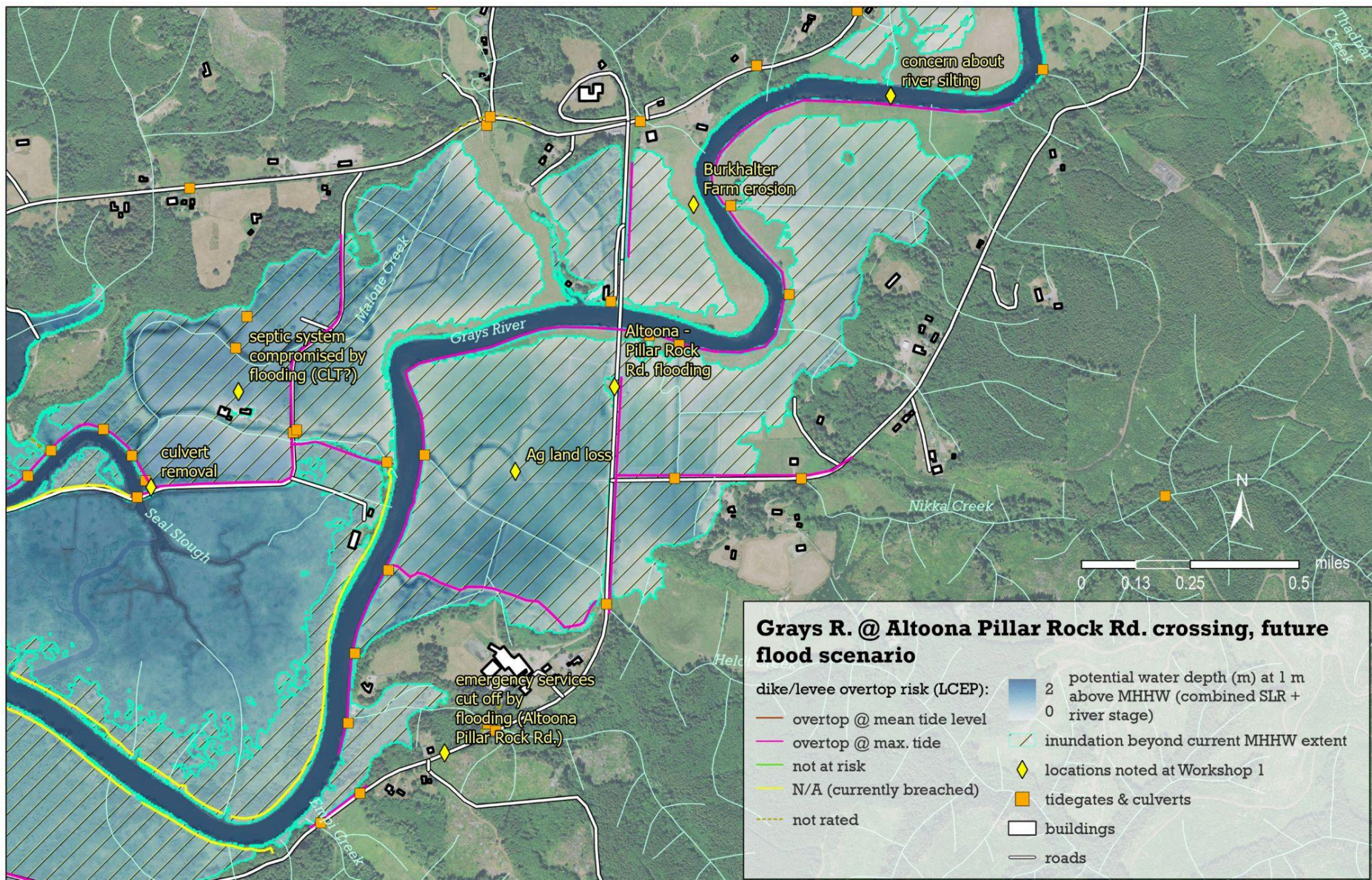


Figure F.3b. Grays River at Altoona-Pillar Rock Road - estimated future flooding scenario.

4) Focus Area 4: Grays River at Loop Road/Hull Creek

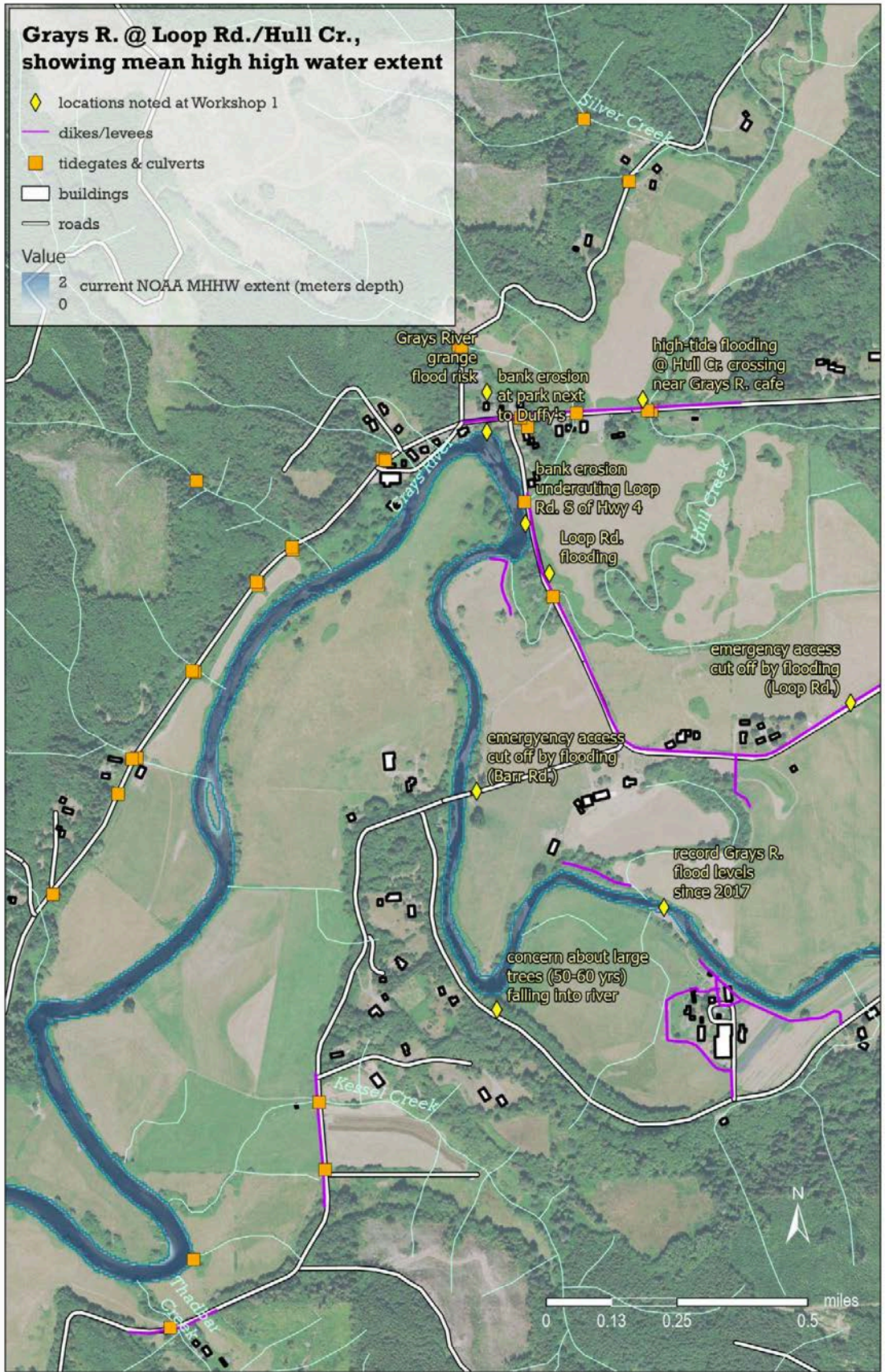


Figure F.4. Grays River at Loop Road/Hull Creek - present-day flood extent.



5) Focus Area 5: Grays River Covered Bridge to Fossil Creek

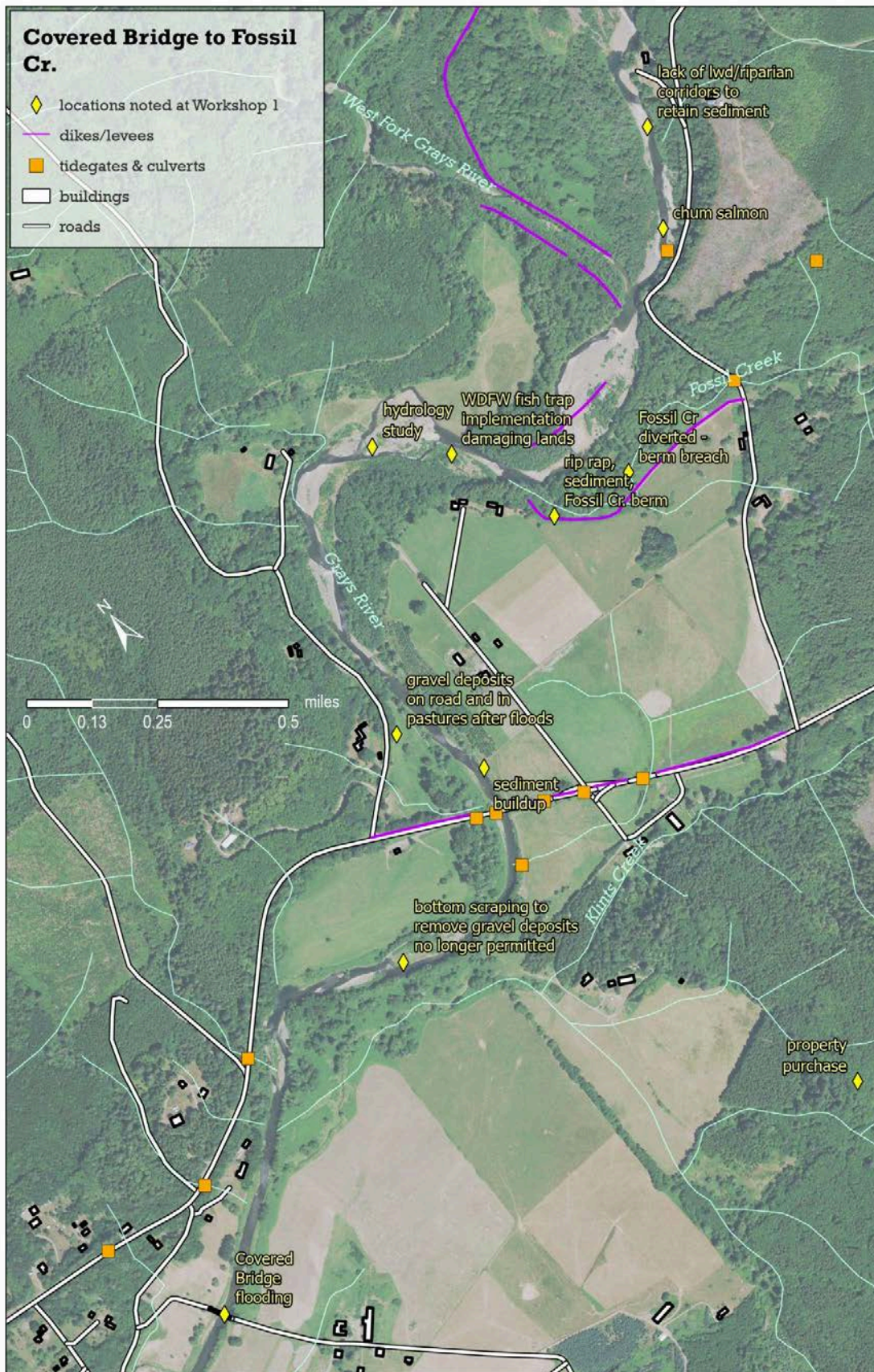


Figure F.5. Grays River Covered Bridge to Fossil Creek. Location is upstream of tidal influence.