

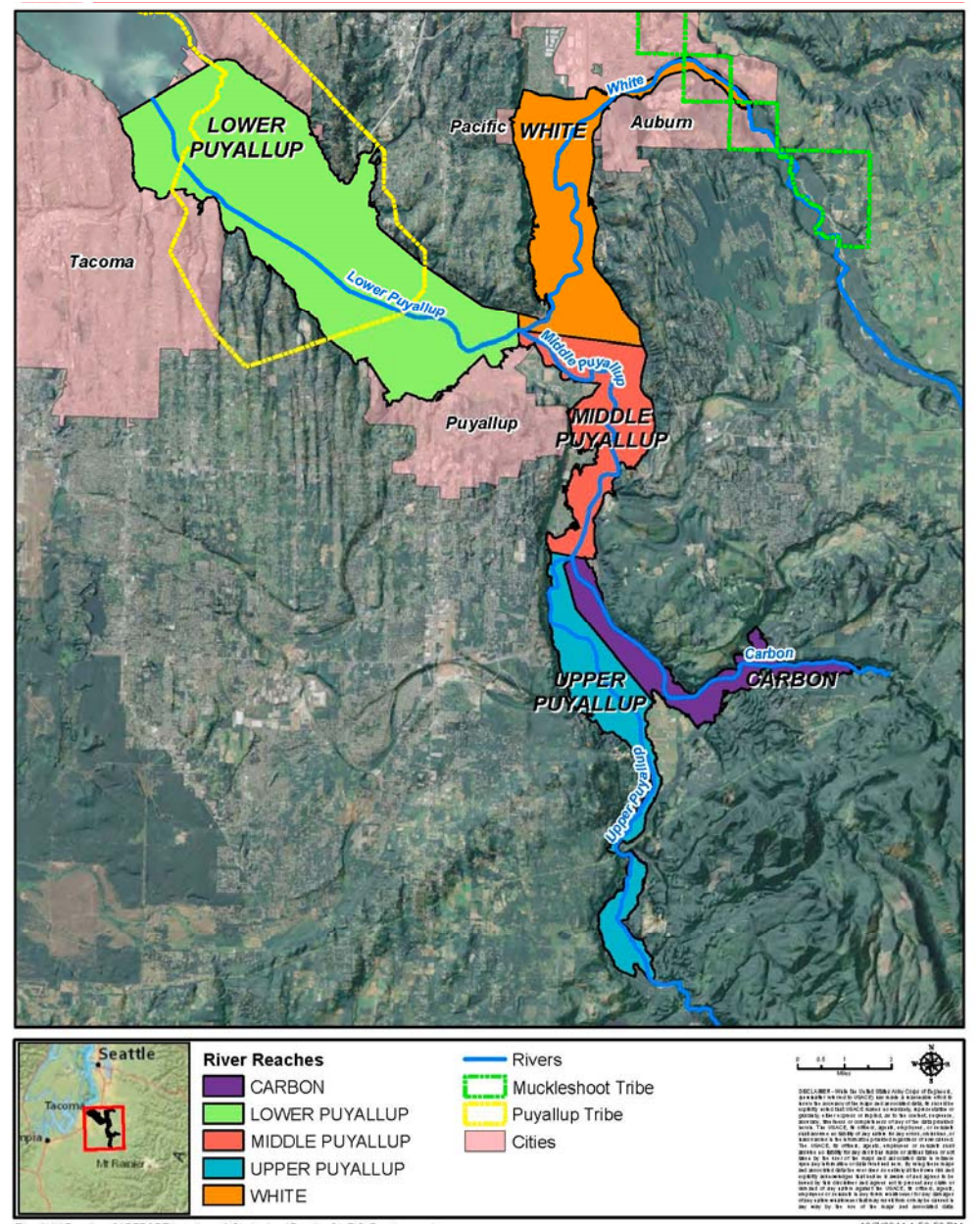
- Single-purpose flood risk management study
- Sponsor—Pierce County, Washington

Study drivers:

- Flood Events: Major flood events since construction of Mud Mountain Dam have occurred in the basin in 1990, 1996, 2006, and 2009.
- Sedimentation: Most of the study area is generally experiencing long term channel aggradation resulting in reduction of capacity.

Study area divided into 5 reaches for analyses

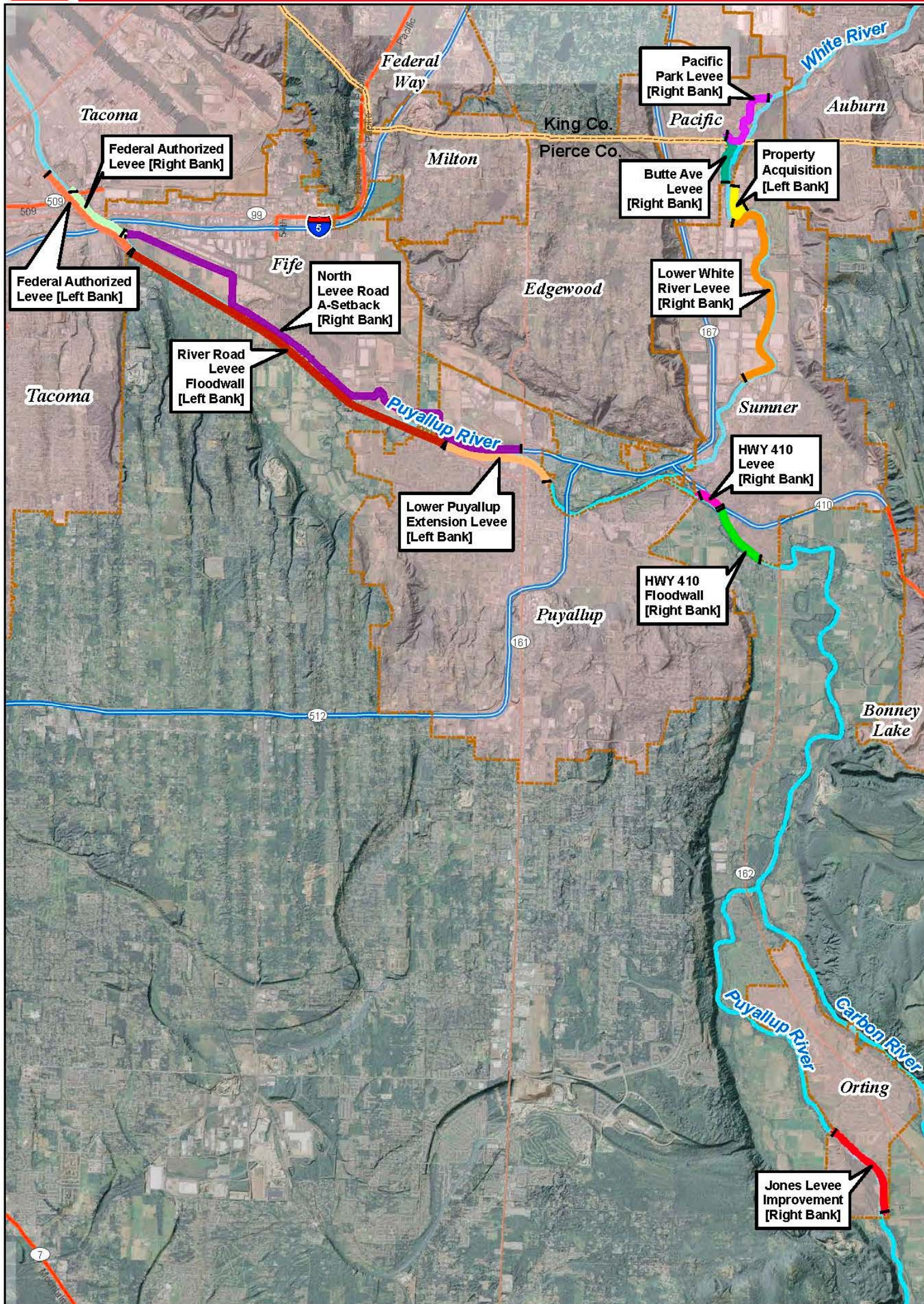
- Complex system hydraulically
- Highly urbanized downstream
- Heavily developed industrial areas
- Mud Mountain Dam (Federal flood control project) on White River
- Large existing levee system (Federal and non-Federal)
- Complex real estate due to development (multiple ownerships, private, State, tribal, railroad, etc)
- Critical Infrastructure: I-5; Port of Tacoma; major State Highways/Commuter Routes to both Seattle and Joint Base Lewis McChord



L to R: Looking east toward Puyallup River along 128th Street, SE near RM 16.7 (Nov 2008), looking northeast across Puyallup River Deer Creek Tributary near RM 9.6, in the city of Puyallup, left bank of Puyallup River (Nov 2006)

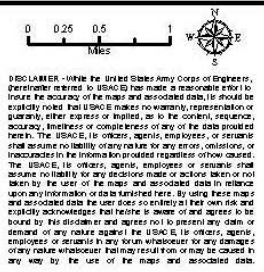


Puyallup River Basin Flood Risk Management - Tentatively Selected Plan



TSP Features

- █ Butte Ave Levee
- █ Federal Authorized Levee - Left Bank
- █ Federal Authorized Levee - Right Bank
- █ HWY 410 Floodwall
- █ HWY 410 Levee
- █ Jones Levee Improvement
- █ Lower Puyallup Extension Levee
- █ Lower White River Levee
- █ North Levee Road A-Setback
- █ Pacific Park Levee
- █ Property Acquisition
- █ River Road Levee Floodwall



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Tentatively Selected Plan is the Levee Modification Alternative

- Approximately 11.2 total miles of new levee and/or floodwall construction
- Approximately 8.7 total miles of modification to existing features, including setbacks

- \$341.1M estimated first cost (Oct 2015 price level)
- Estimated Annual Net Benefits: \$23.6 M
- Estimated Annual FRM Benefits: \$39 M
- 2.5 benefit-cost ratio