Challenges of Nearshore Habitat Creation in Two Superfund Sites

Duwamish River People's Park and Shoreline Habitat (Former Terminal 117) and Terminal 25 South Marsh Restoration

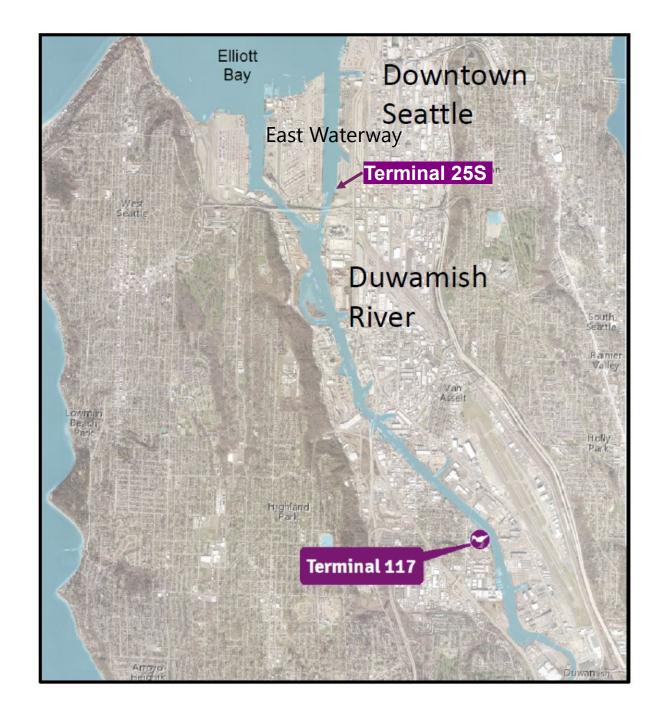
Presented by Julia Fitts, LG October 28, 2022





Presentation Outline

- DRPP (former Terminal 117)
 - Background
 - Habitat Restoration Concept
 - Construction Challenges
- T-25S
 - Background
 - Concept
 - Regulatory Challenges



The Terminal 117 Story

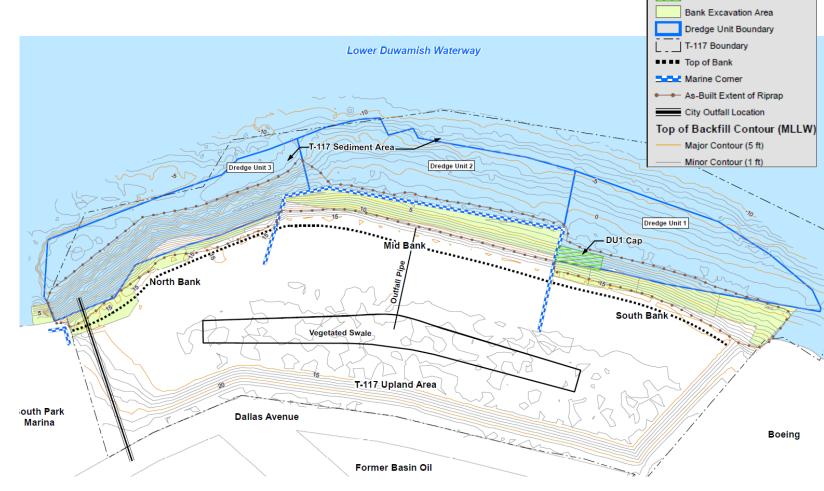


- 1930s to 1993: Duwamish Manufacturing Co & Malarkey Asphalt Plant
- 1999: Port acquires property
- 2003: EPA identifies site as EAA
- 2007: Duwamish Valley community advocates for public park and habitat reserve
- 2013: Phase 1 Removal Action
- 2020: Habitat construction begins



T-117 Phase 1 Non-Time Critical Removal Action

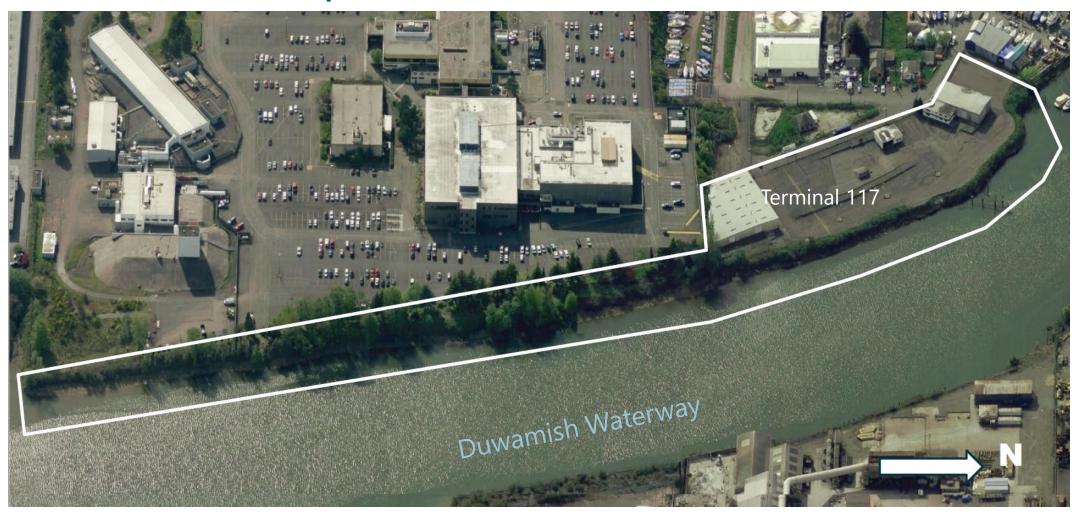
- Conducted between 2013 and 2015
- 76,000 tons of upland soil excavated
- 22,000 tons of sediment/debris removed
- Confirmation sampling met Removal Action cleanup objectives





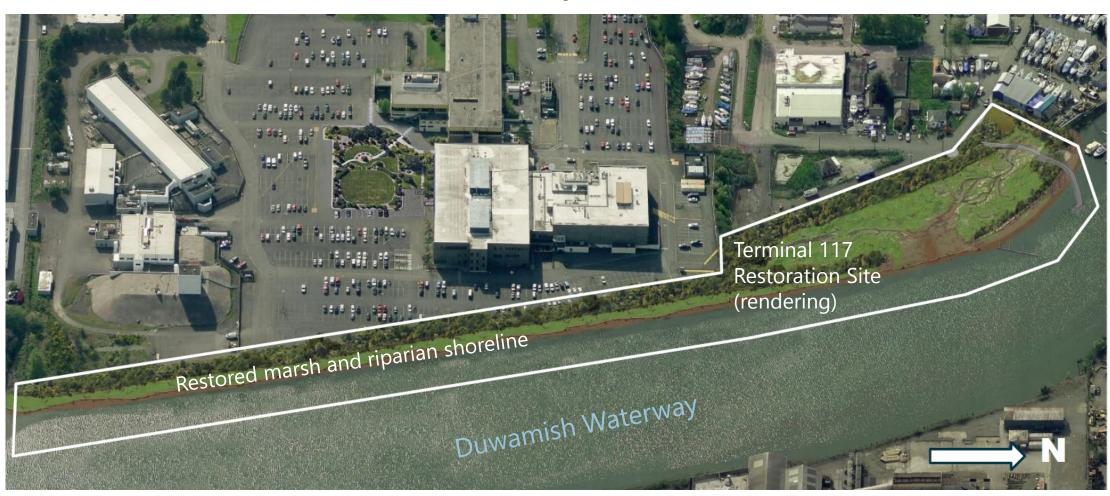
Extent of DU1 Cap

Prior to Cleanup (2013)





Habitat Restoration Concept

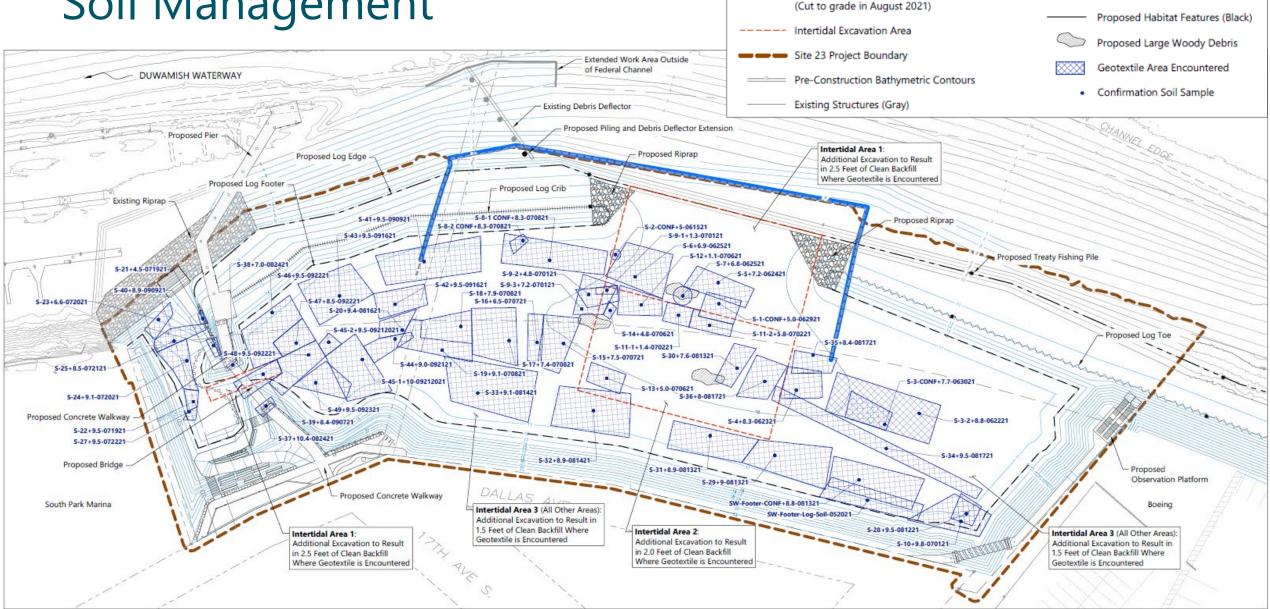




Habitat Restoration Project Design Requirements



Soil Management



LEGEND:

Sheet Pile Wall

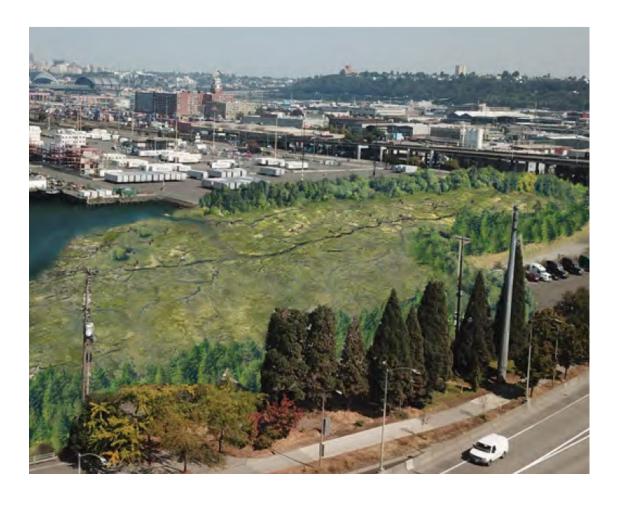
Proposed Habitat Contours

Duwamish River People's Park and Shoreline Habitat

- 3,210 feet of shoreline restored
- 14 acres of high-priority habitat (Site 23)
- Important site for salmon recovery
- 40% increase in critical salmon habitat
- Shoreline access in EJ community
- Already approved for NRD credits
- CWA and ESA credits in process



Terminal 25 South



- The Port plans to construct a habitat restoration project at the Terminal 25 South Site
- Restoration will include:
 - Removal of > 5 acres of upland area
 - Removal of 5 acres of contaminated sediments
 - Restoration of marsh, intertidal, and subtidal habitat
 - Creation of off-channel emergent marsh and riparian habitat

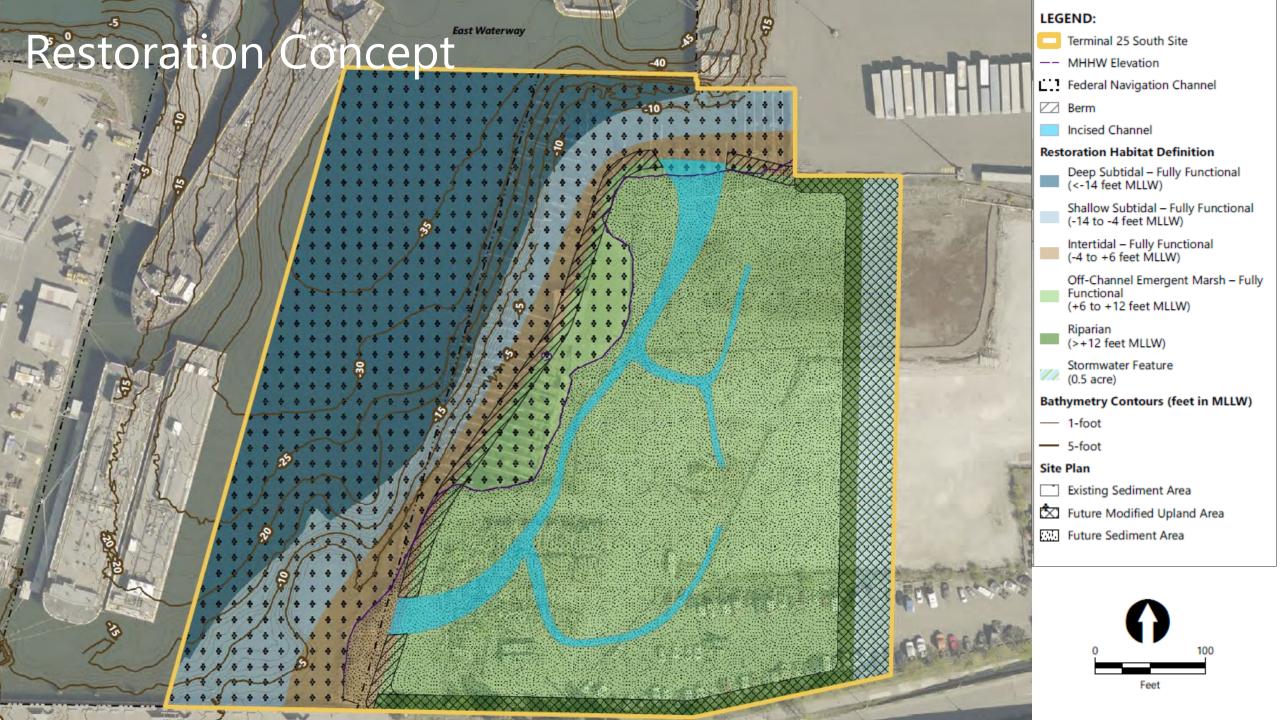


Regulatory Context

- The Site is part of the EW OU of the Harbor Island Superfund Site
 - Proposed Plan expected next year
- The Port recently entered into an ASAOC with EPA to complete an EE/CA at T25S
- The NTCRA at T25S will complete the EW sediment remedy selected by EPA
 - Removal
 - Removal & backfill

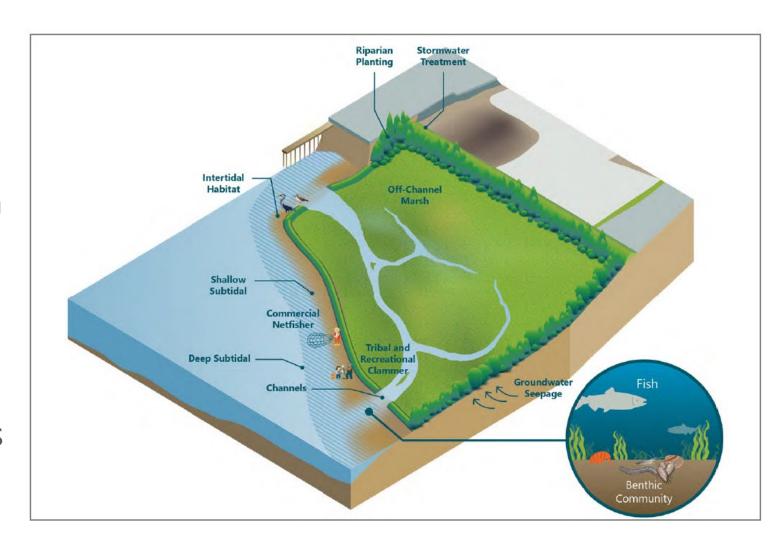






Challenges

- Lengthy EE/CA process
- EPA requirements under CERCLA don't always align with NRD Trustee requirements
- East Waterway cleanup process/timing
- Recontamination concerns







Questions/ Discussion

