

The background image shows a rural landscape with a large body of water, likely a flooded field or pond. In the middle ground, there is a barn with a red roof and a white silo. The trees are mostly bare, suggesting a late autumn or winter setting. The sky is overcast. The image is framed by a green header bar at the top and a blue footer bar at the bottom.

Aquatic Species Restoration Plan Update

Sequencing Recommendations

November 5, 2020

Sequencing Recommendations

- Scope of ASRP is large and sequencing is needed to effectively approach implementation
 - These hard decisions allow the ASRP to focus work while being transparent about approach taken
 - Sequencing follows the vision of the ASRP and ensures smart investments are made toward program goals
- Sequencing guides the implementation over time to ensure alignment with our scientific priorities

Implementation Periods

30-year program implementation timeframe



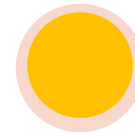
2021-2031

Near
Term



2031-2041

Mid-
Term

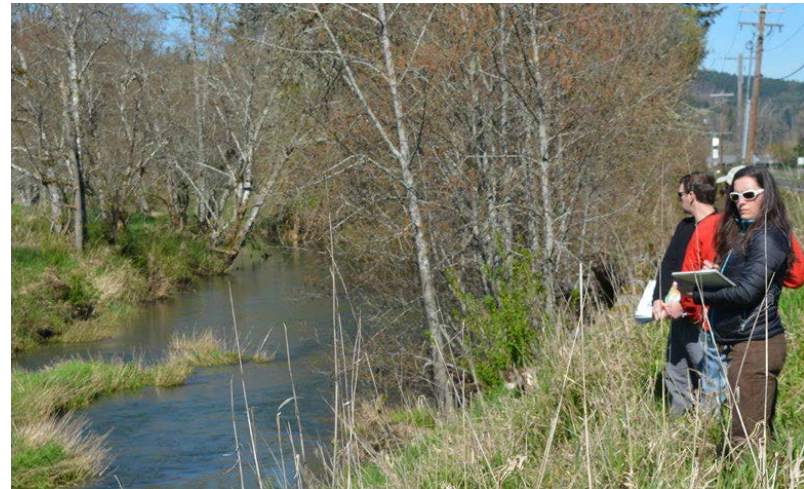


2041-2051

Long
Term

Sequencing: Pace Needed

- Phase 1 ASRP identified the need for an aggressive pace of implementation in order to achieve the results we seek for native aquatic species and their habitats.
 - Modeling future conditions based on restoration in place now
 - Declining baselines of species due to climate change



Guiding Principles

Guiding principles developed to approach sequencing of the 30-year plan:

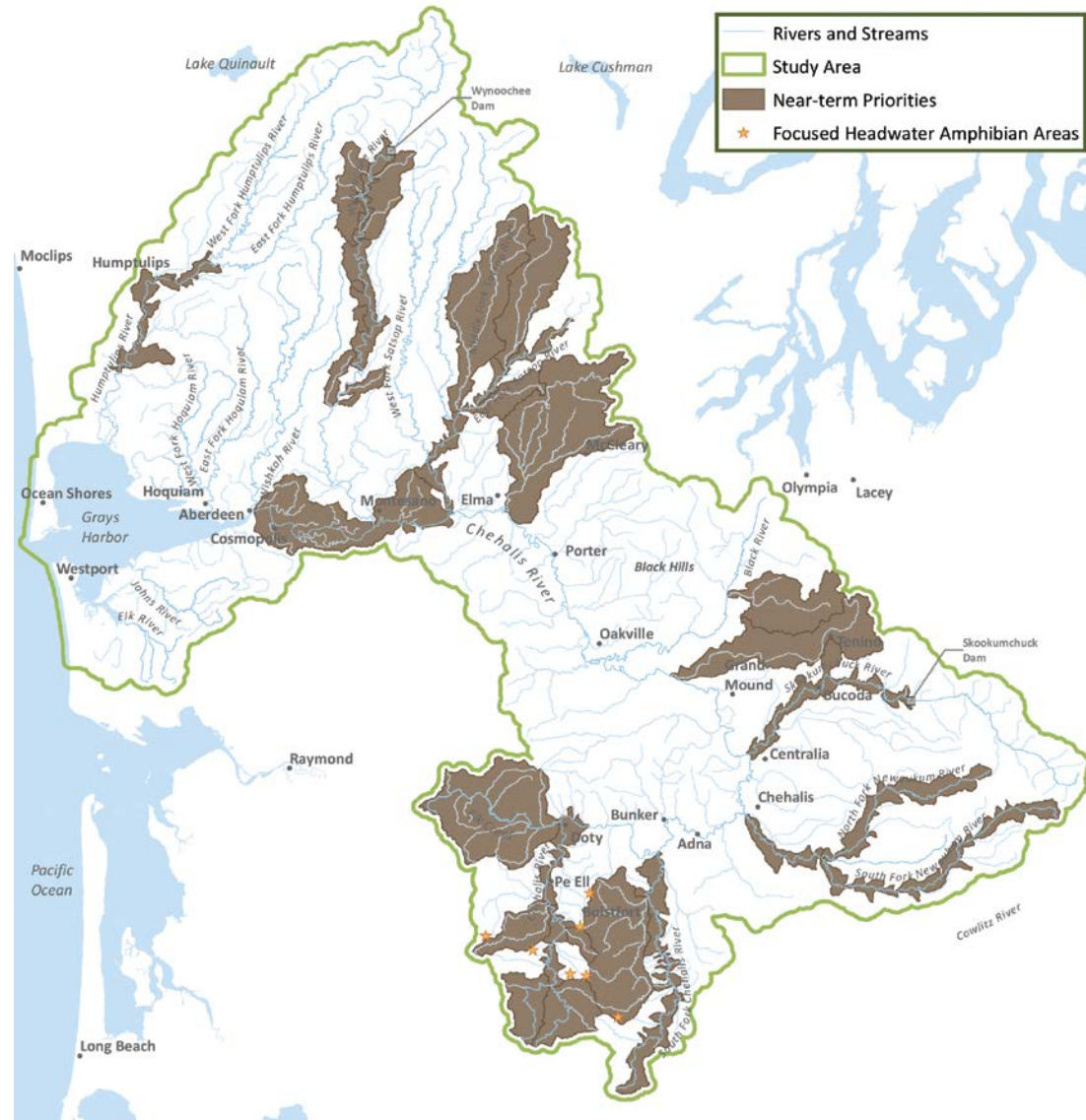
- 1. Maintain and restore physical and biological processes** across the Chehalis Basin that increase the resilience of species and habitats to climate change and human population increases
- 2. Prioritize actions for most at-risk species** (e.g. spring Chinook salmon, Oregon spotted frog, Coastal tailed frog)
 - Restore and protect physical processes
 - Ensure connectivity of habitats
 - Address biological processes (e.g., exotics, hybridization)
- 3. Protect unique and at-risk core habitats**
- 4. Use targeted learning projects to improve effectiveness** of restoration actions and adaptively manage ASRP implementation

Guiding Principles

5. Concentrate restoration to **produce demonstrable change** in habitat in the face of degrading external conditions
 - Climate change
 - Human population increase
6. Address issues to **optimize connectivity** across the life history of targeted species
7. **Take advantage of opportunities for synergisms** between habitats for co-occurring at-risk species
8. **In the near-term period, initiate actions with long ramp-up periods** so that their biological benefits can be realized on the shortest timeline possible

Years 1-10 Plan

- Scientific goal to implement 235 miles of restoration & protection
- Approximately 6,500 acres of riparian and floodplain restoration and reconnection



Mid and Long-term Strategies

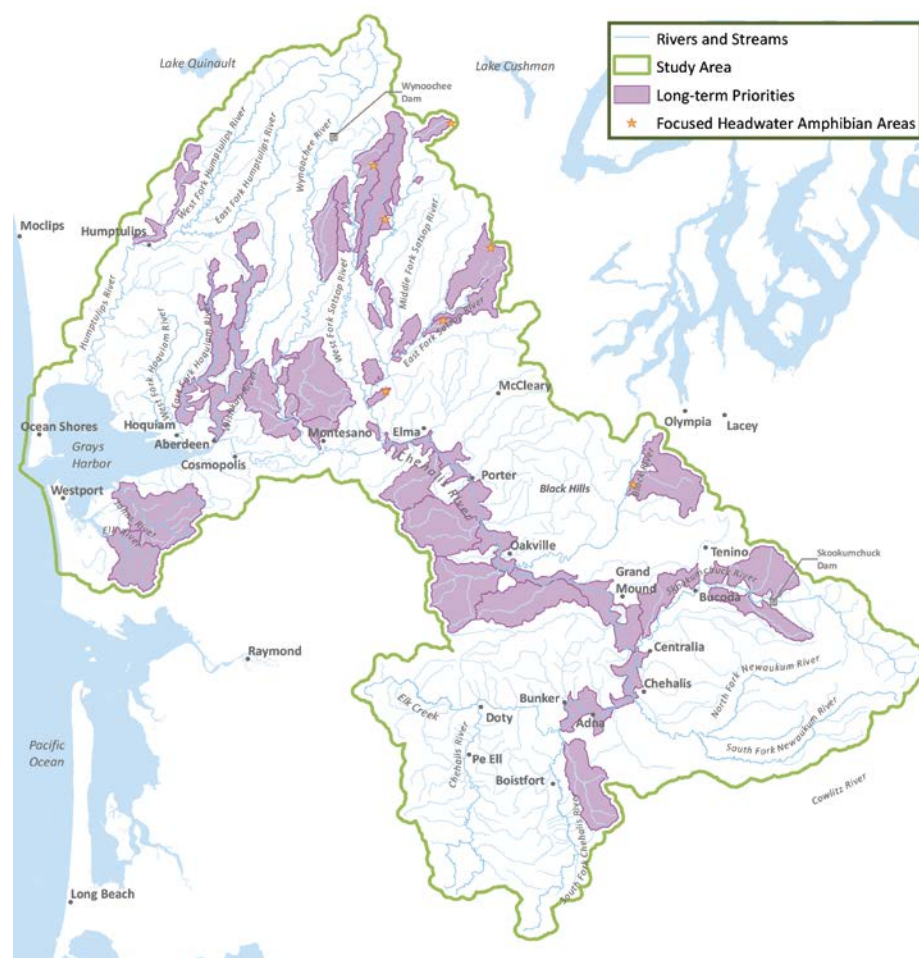
- Mid and long-term strategies are focused on:
 - Extending restoration across basin to benefit other focal aquatic species
 - Maintaining and restoring physical and biological processes
 - Promoting spatial and life history diversities that create a resilient ecosystem

Mid and Long-term Strategies

Mid-Term



Long-Term



Years 1-10 Implementation Costs

- Capital cost estimate for protection and restoration for years 1-10 mileage (235 miles)
 - Range of potential costs from \$330 million to \$630 million
 - Average potential costs approximately \$470 million
 - This averages to a potential cost of \$94 million per biennium, if evenly distributed
 - The Steering Committee acknowledges there will be a ramp up period during the next biennium to fully shift into implementation
 - More in-depth budget discussion at December Board meeting

Summary

- Aggressive pace of implementation needed for ASRP to be successful
- Sequencing recommendations created to focus implementation across three 10-year periods
- Near term focus:
 - Protecting and restoring unique and at-risk habitats that support specific species
 - Focus on actions that will reduce effects of climate change
 - Initiate actions with long ramp-up periods
 - Employ targeted learning
 - Concentrate efforts to produce demonstrable change
- Near term goal is lofty; but a necessary level of action to strive for to realize the benefits

Questions & Steering Committee Discussion

- Dave Bingaman, Quinault Indian Nation to further discuss sequencing work