

The background of the slide is a photograph of a river basin. In the foreground, there is a body of water, possibly a reservoir or a wide river, with some reeds and grass along the banks. In the middle ground, a dam or a bridge structure is visible, surrounded by trees. The background is a dense forest of tall, thin trees, likely evergreens, under a hazy sky. The overall color palette is muted, with greens, browns, and greys.

Chehalis River Basin Long-Term Strategy Assessment

Chehalis Basin Board Meeting
February 6, 2020

Chehalis Basin Strategy must...

“Include a detailed set of actions...” to aggressively pursue flood damage reduction and aquatic species habitat restoration

“...be amended by the Chehalis Board as necessary to include new scientific information and needed changes to the actions to achieve the overall purpose of the strategy.”

“...include an implementation schedule and quantified measures for evaluating the success of implementation.”

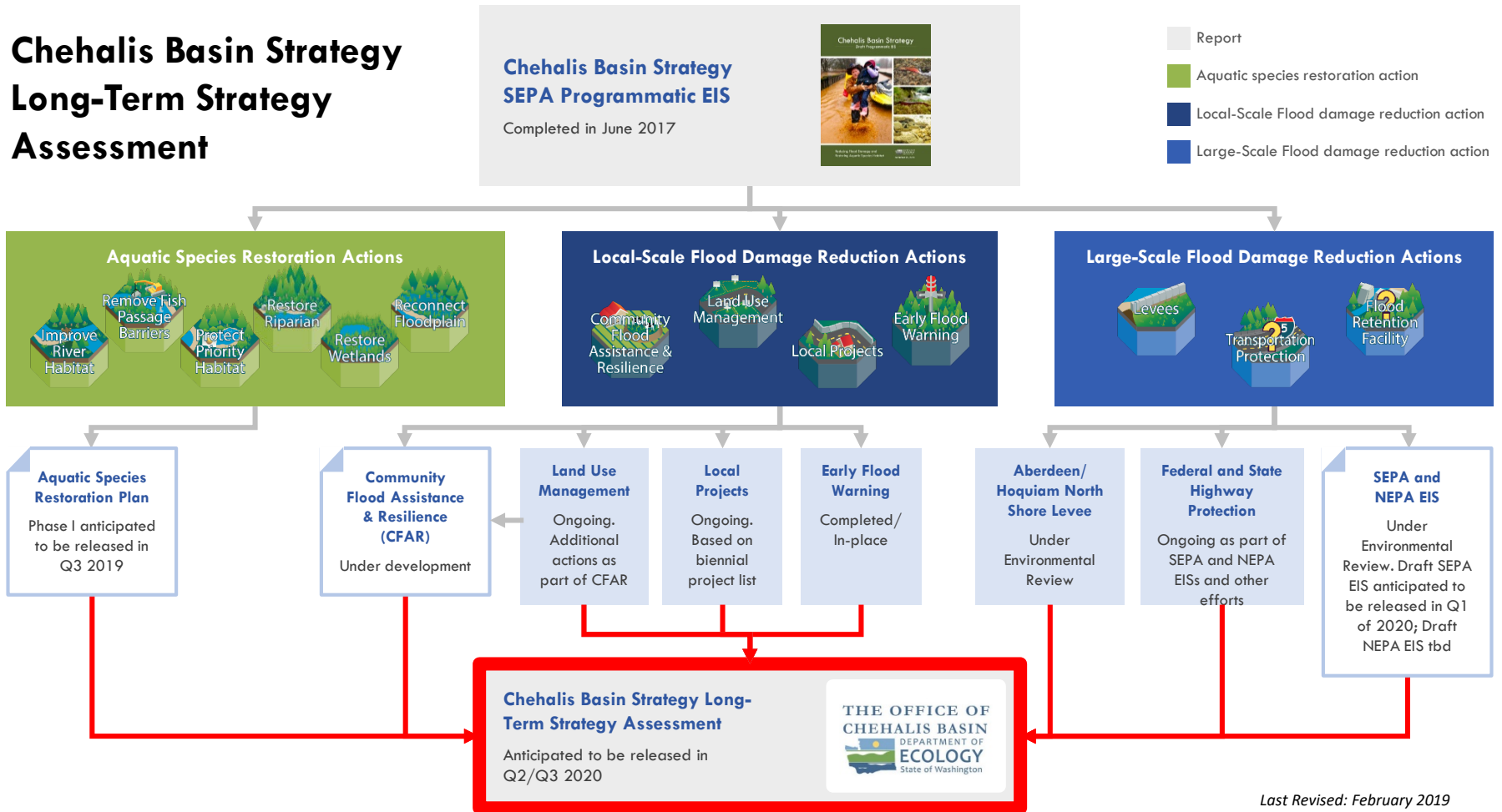
RCW 43.21A.732

Long-Term Strategy Assessment

Is intended to:

- Provide basis for Board's long-term strategy and budget recommendations in fall 2020
- Build off Programmatic EIS and additional work completed during 2017-19 and 2019-21 biennia
- Include more detailed set of actions and a phased implementation schedule
- Help Board evaluate social, environmental, economic, and other public interest considerations

Chehalis Basin Strategy Long-Term Strategy Assessment



Last Revised: February 2019

Overview of Assessment

- Action Elements
- Combinations & Scenarios
- Analytical Approaches
- Key Assumptions
- Implementation and Governance
- Schedule
- Outreach

Initial Feedback Questions for Today

- What combinations of actions, or what scenarios, are you most interested in?
- What questions or suggestions do you have about the Key Assumptions and Schedule?
- What additional information or clarification do you need before March Board meeting to approve recommended approach for Assessment?

Action Elements

- ASRP Actions
- Local Scale Flood Damage Reduction Actions
- Large-Scale Flood Damage Reduction Actions
- Land Use Actions

Aquatic Species Habitat Restoration Actions

- Protecting and restoring riparian forested and headwaters areas
- Protecting and restoring floodplain and off-channel habitats and wetlands
- Restoring in-channel large wood
- Correcting selected fish passage barriers



Large-scale Flood Damage Reduction Actions

- Proposed Flood Retention Facility and Airport Levee Improvements
 - Mitigation Approach
- Aberdeen-Hoquiam North Shore Levee
- Transportation Improvements



Local-scale Flood Damage Reduction Actions

- Community Flood Assistance and Resilience
- Local Projects
- Early Flood Warning System



Land Use Actions

- Support both habitat & flood damage reduction goals
- Analysis and assumptions will be based on info from:
 - Programmatic EIS
 - ASRP
 - CFAR
 - Climate Change Analysis
 - Flood Authority local projects
- Scope and scale of actions will be developed in partnership with basin local governments.



Combinations of Actions

Will include:

- Different combinations of flood damage reduction actions & range of potential mitigation
- A range of aquatic species habitat restoration scenarios

Will be evaluated for their potential:

- Outcomes for meeting goals of reducing flood damage and restoring aquatic species habitat
- Impacts re: social, environmental, economic and other public interest considerations

No Action

Will:

- Analyze most likely future in absence of any new Chehalis Basin Strategy habitat restoration or flood damage reduction actions
- Serve as a basis to compare future conditions with and without the potential benefits and impacts of the proposed Combinations
- Assume existing programs & trends continue
- Assume climate change projections

Combinations

One

- Proposed Flood Retention Facility and Airport Levee Improvements
 - With and without potential mitigation
- ASRP (*Scenarios 1 and 3*)
- Aberdeen-Hoquiam North Shore Levee
- CFAR
- Local Projects
- Early Flood Warning System
- Land Use Actions

Two

- ASRP (*Scenarios 1 and 3*)
- Aberdeen-Hoquiam North Shore Levee
- CFAR
- Local Projects
- Early Flood Warning System
- Land Use Actions

Three

No Action

Analytical Approaches

Will include:

- Both quantitative and qualitative data
- Economics and Benefit-Cost Analysis
- Socioeconomic / Environmental Justice Analyses
- Modeling results for range of timeframes & scenarios
 - EDT Modeling (multiple species)
 - Hydraulic Modeling
 - HAZUS Flood Modeling

Key Assumptions

The Assessment will:

- Use currently available data, rather than new data collection or research
- Use currently available models (including EDT, Hydraulic Modeling, and HAZUS), rather than creating new models
 - New NOAA Life-Cycle modeling runs will not be included
 - Hydraulic modeling focused on mainstem, with flooding originating in Willapa Hills
 - Evaluating flooding within tributaries will be qualitative

Key Assumptions *continued*

The Assessment will NOT:

- Consider ASRP actions as mitigation for aquatic species habitat impacts from large-scale flood damage reduction actions
 - No projects will be counted toward both mitigation and ASRP
- Will not include a forest practices analysis because the proposed assessment (to be completed by DNR) will not be complete by fall 2020

Long-Term Implementation and Governance

Assessment will also address long-term implementation and governance needs related to:

- Sequencing or phasing priority investments to develop necessary assurances
- Outlining a long-term governance structure
- Creating a long-term financing plan

Schedule

Upcoming Board Meetings:

- **March 5**
 - Board approves approach, key assumptions & schedule for Assessment
- **April 2**
 - OCB staff recommends approach to develop 2021-23 budget
- **May 7**
 - Board approves approach to 2021-23 budget development.
- **June 4**
 - Board receives briefing on Draft SEPA EIS public comments
- **July 9**
 - Board receives briefing on preliminary EDT and economics results
- **August 6**
 - OCB staff presents preliminary info on Draft Assessment findings and conclusions

Schedule *continued*

- **Sept 3**
 - OCB staff present preliminary Draft Assessment and 2021-23 budget recommendation
- **Sept 9-10**
 - Board holds public hearings to receive public comment on preliminary Draft Assessment
- **Sept 17**
 - Board receives briefing on Draft NEPA EIS; and considers public comments on preliminary Draft Assessment
- **Sept 30**
 - Board workshop on Assessment and 2021-23 budget recommendation
- **Oct 1**
 - Board approves recommendations on long-term strategy and 2021-23 budget

Outreach re: Assessment

Informational Webinar

February 11, 11am – 1pm

Inviting Board members, tribal staff & consultants, stakeholders, and any other interested parties to ask questions, provide input, and learn more details about the Assessment approach & assumptions before March 5 Board meeting

Outreach *continued*

Public hearings on Draft Assessment September 9 & 10, evening

Locations in upper & lower basin TBD

Board will invite public comment on preliminary staff recommendations re: Assessment before Board takes action long-term strategy and 2021-2023 budget recommendations to legislature

For Discussion

- What combinations of actions, or what scenarios, are you most interested in?
- What questions or concerns do you have about the Key Assumptions and Schedule?
- What additional information or clarification do you need before March Board meeting to approve recommended approach for Assessment?