

Hood Canal Coordinating Council

JEFFERSON, KITSAP & MASON COUNTIES
PORT GAMBLE S'KLALLAM & SKOKOMISH TRIBES
STATE & FEDERAL AGENCIES

HCCC Integrated Watershed Plan Steering Committee:

IWP Update/LIO Ecosystem Recovery Plan

April 20, 2016, 1:00 pm – 3:30 pm
Via WebEx teleconference,
and at HCCC office, 17791 Fjord Drive, NE, Suite 124, Poulsbo, WA

Meeting Summary

HCCC Integrated Watershed Plan Steering Committee Members/Attendance:

- Dave Herrera (HCCC Board Member): Present
- Phil Johnson (HCCC Board Member): Not present
- Paul McCollum (HCCC Board Member): Present
- Terri Jeffreys (HCCC Board Member): Present
- Teri King: Not present
- Stacy Vynne: Present

Others Present:

- Haley Harguth (HCCC Watershed Planning & Policy Coordinator)
- Robert Warren (Bonneville Environmental Foundation)

Call to Order and Approval of Agenda and Past Meeting Summaries

Skokomish Tribal Council representative Dave Herrera called the meeting to order. The agenda was approved.

This is a work session of the HCCC IWP Steering Committee to review the IWP Update/LIO Ecosystem Recovery Planning process and new progress on plan elements.

Meeting Notes:

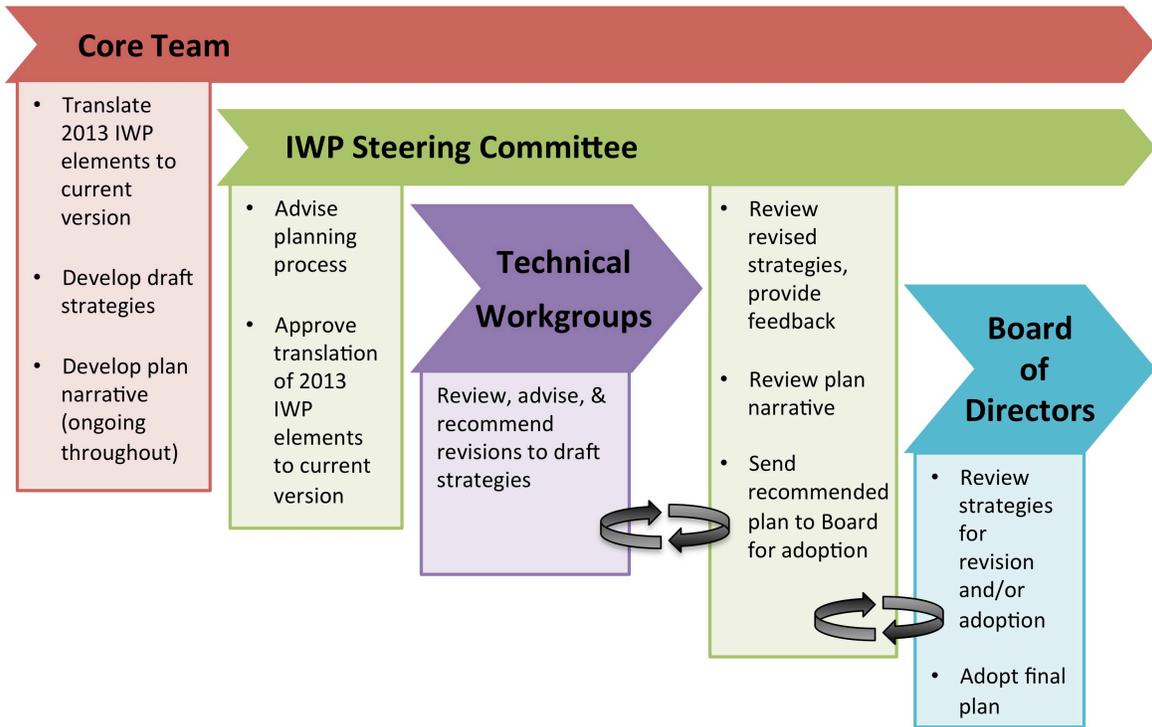
IWP Update/LIO Ecosystem Recovery Plan Overview

- Purpose of IWP update
 - PSP and EPA are driving this effort requiring LIOs to develop Ecosystem Recovery Plans for their Action Areas
 - Plans will demonstrate to management conference that LIOs have comprehensive, technically-sound, and prioritized action plans to guide NTA development
 - Recovery Plans will be rolled up into Action Agenda
 - PSP will synthesize results chains from LIO plans to inform implementation strategies

- PSP will look to LIO Recovery Plans to inform selection of new Vital Signs and targets
 - Plans will be used by the Strategic Initiative Action Teams to direct funding of NTAs
 - PSP will use the LIO Recovery Plans to inform the State of the Sound
 - HCCC plans to utilize this plan to leverage support and funding from sources beyond PSP and the EPA NEP Program
- Expectation & outcomes of the IWP Update/LIO Recovery Planning process
 - HCCC is using this LIO Recovery Plan effort as an opportunity to update the IWP
 - The IWP and the LIO Recovery Plan will be the same document
 - Although the IWP was a “5-year plan” this is a good opportunity to build on it, using the tools and support provided by PSP, and incorporate much of the human wellbeing and other work we have conducted in the interim
- Roles & responsibilities:
 - **Core Team** (Scott Brewer, Haley Harguth, Robert Warren, Stacy Vynne) translating 2013 IWP contents to current version, developing narrative
 - **Technical topic-focused workgroups** will be formed to participate in work sessions to develop strategies & objectives
 - **IWP Steering Committee** reviews strategies & provides feedback to inform plan
 - **HCCC Board of Directors** reviews & approves draft plan



- **Proposed Technical Workgroup participants:** Discussed potential participants. Steering Committee members will provide recommendations via email following this meeting.
- **Proposed planning process**



1. Core team will present draft IWP elements, conceptual models and strategies to IWP Steering Committee for review
2. Draft conceptual model and strategies will be brought to technical workgroups for review & revisions
3. Conceptual model and strategy revisions will be reviewed by the IWP Steering Committee
4. Repeat Steps 3 & 4 (if needed)
5. IWP Steering Committee reviews plan narrative and completed strategies
6. IWP Steering Committee sends draft plan to Board of Directors with recommendation to adopt/revise
7. Board of Directors reviews draft plan prior to adoption

IWP Plan Elements – Draft Updates

Focal Components

Priority values – or aspects of ecological and social systems – that are the focus of the Integrated Watershed Plan.

- We have re-organized the original 15 focal components selected in 2013 to better represent the Hood Canal social-ecological system, and the progress we

have made integrating human wellbeing components. This arrangement better aligns with the planning tools we are using with PSP and the other LIOs (Miradi).

- The table below lists the focal components and their high priority attributes included in the original IWP (2013), and the human wellbeing indicators selected in 2014, that we propose to include in the updated IWP.
- Many attributes exist for each focal component, including biological, biophysical and other factors that describe the system. The only attributes shown in the table include those that were originally called focal components but have been re-organized as attributes.
- Any of the focal components or attributes could be selected to be prioritized and monitored as an indicator (i.e. the indicators we currently have on OurHoodCanal.org)

Ecological - Natural Habitats and Species	
<i>Focal Components</i>	<i>Attributes</i>
Forests^{^*}	
Beaches [^] and Nearshore	Salmon^{^*} Shellfish^{^*}
Deltas and Estuaries [^]	Shellfish^{^*} Salmon^{^*}
Rivers [^] and Floodplains	Riparian Areas [^] Salmon^{^*}
Marine Deepwater	Bottomfish [^] Salmon^{^*}
Social - Human wellbeing	
<i>Focal Components</i>	<i>Attributes</i>
Physical Health	Availability of local wild food Water for human health and prosperity [^]
Psychological Wellbeing	Positive emotions
Cultural Wellbeing	Traditional resources practices Recreation Cultural heritage [^]
Governance	Communications
Social Wellbeing	Strong communities
Economic Wellbeing	Natural Resource Industries <ul style="list-style-type: none"> - Forestry^{^*} - Commercial shellfishing^{^*} - Commercial fishing[^] - Agriculture[^] - Recreation/Tourism[^]

[^]2013 IWP Focal Component (15)

^{*}2014 IWP Focal Component (5)

Hood Canal Ecosystem Pressures

Pressures are included based on the stressors we have identified for the Hood Canal area, and their relationship or impact on our Hood Canal ecosystem focal components. The ratings are determined using a framework of expert opinion of three aspects of the relationship:

- Scope: the spatial proportion of the ecosystem focal component that is affected by the pressure
 - Severity: Within the scope, the level of damage to the focal component from the pressure given the current circumstances and trends
 - Irreversibility: the degree to which the effects of a pressure can be reversed and the impact restored
- The core team has re-visited the ecosystem pressure ratings to reflect current ecosystem conditions and emerging concerns with the new focal component organization. The updated ratings will be discussed within the technical workgroups.
 - The pressure ratings alone do not determine which problems will get addressed or where funding will be allocated. The IWP Steering Committee will determine which of the highest rated pressures will be addressed after the feasibility of strategies and actions is determined.
 - The 2016 and 2014 ratings tables are shown below, for comparison

2016 IWP Pressure Ratings

Priority Pressures	Ecological Focal Components					Summary Pressure Rating
	Marine Deepwater	Deltas and Estuaries	Forests	Rivers and Floodplains	Beaches and Nearshore	
Climate Change	Very High	Very High	Very High	Very High	Very High	Very High
Transportation & Service Corridors	High	High	Medium	High	Very High	Very High
Ground Water Withdrawal	Low	High		High		High
OSS - Domestic and Commercial Wastewater to Onsite Sewage Systems	High	High		High	High	High
Livestock Farming & Ranching		Low		High		Medium
Surface Water Withdrawal	Low	Medium		Medium		Medium
Freshwater shoreline infrastructure		Medium		Medium		Medium
Marine shoreline infrastructure		High			Medium	Medium
Residential & Commercial Development		Medium	Medium	Medium	Medium	Medium
Runoff from residential and commercial lands	Medium	Medium		Medium	Medium	Medium
Other Identified Pressures	Marine Deepwater	Deltas and Estuaries	Forests	Rivers and Floodplains	Beaches and	Summary Pressure

					Nearshore	Rating
Marine & Freshwater Finfish Aquaculture		Low		Medium	Medium	Medium
Dams	Low	Medium		Medium		Medium
Logging & Wood Harvesting (Timber Production)			High	Medium		Medium
Oil Spills	Medium	Medium			Medium	Medium
Marine shellfish aquaculture		Medium			Medium	Medium
War, Civil Unrest & Military Exercises	Low					Low
Gathering Terrestrial Plants			Low			Low
Hunting & Collecting Terrestrial Animals			Low			Low
Tourism & Recreation Areas			Low	Low		Low
Sewer - Domestic & Municipal Wastewater to Sewer	Low	Low		Low	Low	Low
Fishing & Harvesting Aquatic Resources	Low	Low		Low	Low	Low
Annual & Perennial Non-Timber Crops				Medium		Low
Mining & Quarrying			Low			Low
Summary Pressure Rating	High	Very High	High	Very High	Very High	Very High

2014 IWP Pressure Ratings

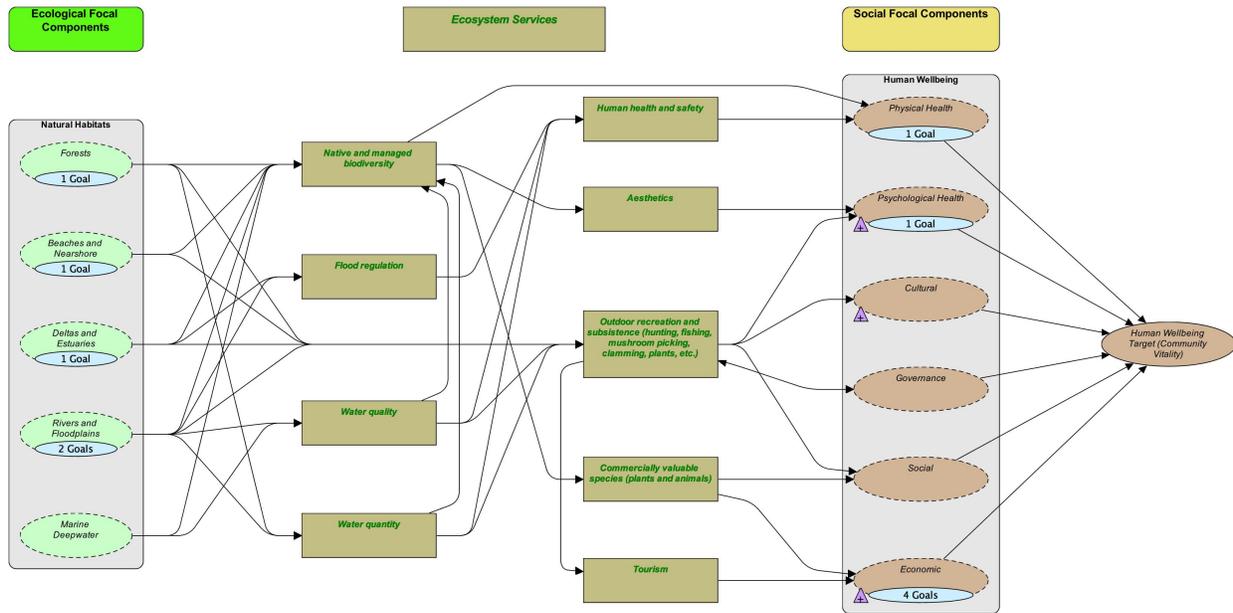
Priority Pressures	Ecological End Points or Focal Components (Targets)								
	Beaches	Estuaries	Forests	Riparian	Rivers/Streams	Salmon	Shellfish	Bottom fish	Summary Pressure Rating
Climate change and severe weather	Very High	Very High	Very High	High	Very High	Very High	Very High	Very High	Very High
Transportation and Service Corridors	Very High	Very High	High	Very High	Very High	Very High	Medium	Medium	Very High
Residential and Commercial Development	High	High	High	High	High	High	Medium	High	Very High
Marine Shoreline Infrastructure	High	High		High		High	Very High	Medium	Very High
Timber Production	Low	Medium	High	Medium	Medium	Medium	Medium	Medium	High
Freshwater Levees & Floodgates		High		High	High	High		Medium	High
Freshwater Shoreline Infrastructure		High		High	High	High		Medium	High
Runoff from Built Environment	Medium	Medium		Low	Medium	High	Medium	Medium	High
Industrial, Domestic, Municipal	Low	High			Medium	Medium	Medium	High	High

Wastewater									
Oil & Hazardous Material Spills	High	High			Medium	Medium	High	Medium	High
Invasive Species (Aquatic and Terrestrial)	Medium	Medium	Medium	High	High	High	Low	Low	High
Water Withdrawals and Diversions		High			High	High	Low	Low	High
Other Identified Pressures	Beaches	Estuaries	Forests	Riparian	Rivers/Streams	Salmon	Shellfish	Bottom fish	Summary Pressure Rating
Shellfish Aquaculture	Medium	Medium				Medium	Low		Medium
Dams		Medium			Medium	Medium	Low	Low	Medium
Culverts					Medium	High			Medium
Marine Water Levees & Tidegates	Low	Medium		Medium	Medium	High	Low	Medium	Medium
Animal Harvesting (aquatic)	Medium	Medium		Low	Medium	High	Medium	Low	Medium
Recreational Activities	Low	Low	Low	Medium	Medium	Medium			Medium
Derelict Fishing Gear						Medium		Medium	Medium
Dredging and Dredged Material	Low	Medium			Medium	Medium	Low		Medium
Agriculture, Livestock Grazing		Low	Medium	Medium	High	Medium	Low	Low	Medium
Fin Fish Aquaculture						Low			Low
Energy Production and Energy Emissions			Low						Low
Mineral & Gravel Mining			Low		Low	Low			Low
Military Exercises							Low		Low
Toxics and Legacy Contaminants	Low	Low					Low		Low
Animal Harvesting (terrestrial)									Not Specified

Ecosystem Conceptual Model

- The focal components and pressure ratings above help us to develop our conceptual model for the Hood Canal social-ecological system.
- Below is a simplified version showing the relationships between our ecological and human wellbeing focal components.

- This conceptual model will form the foundation on which we develop our IWP strategies



Timeline & proposed meetings

- The Core Team will distribute draft products to the IWP Steering Committee in June before they go to the Technical Workgroups
- Steering committee meetings will be scheduled for July and August to review products from the Technical Workgroups and prepare plan for presentation to the Board of Directors
- HCCC staff will present the updated plan to the Board of Directors at the August 9 meeting, to enable time for review and adoption at the following meeting on September 13.

Recommendation to the Board of Directors: No recommendation was put forth at this time

Documents distributed: Meeting materials document available [here](#).