

Western Washington University

Western CEDAR

Salish Sea Ecosystem Conference

2022 Salish Sea Ecosystem Conference (Online)

Apr 26th, 1:30 PM - 3:00 PM

Hood Canal Shellfish Initiative: A collaborative multi-benefit approach to shellfish aquaculture, ecosystem protection, and cultural opportunities

Haley Harguth

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https://cedar.wwu.edu/ssec/2022ssec/allsessions/221

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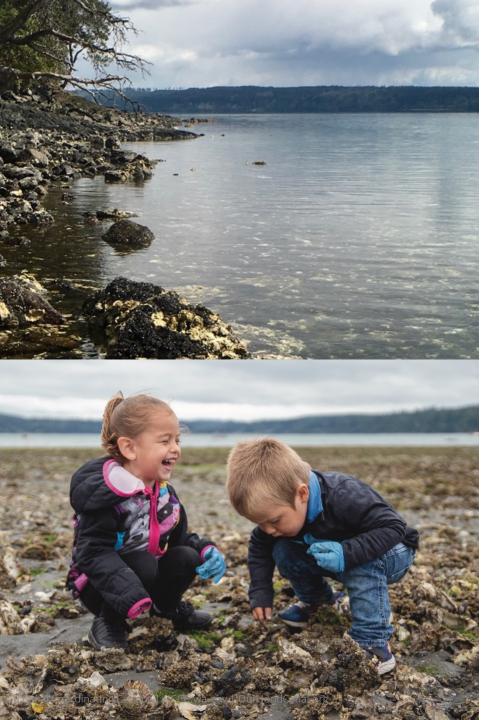




Our Opportunity

Hood Canal is characterized by its iconic shellfish, which are ecologically, culturally, and economically critical to local communities.

The opportunity to promote resilience of Hood Canal shellfish to environmental and human pressures is uniquely served by a collaborative, diverse network of stakeholders invested in Hood Canal's long-term vitality and identity.



Shellfish Growers

NOAA

Skokomish Tribe

Kitsap County WA Sea Grant

WA Dept. of Health

WDFW

Jefferson
Salmon Restoration

MRC

Groups

Land Trusts

NWIFC

HCCC

Pacific Shellfish Institute

Pacific Coast Shellfish Growers Assoc.

Port Gamble S'Klallam Tribe

Mason County WA State Parks

> OR State Univ. Human Dimensions Lab

Hood Canal Environmental Council

Puget Sound Restoration Fund

WA Dept. of Agriculture

Jefferson County

Action Plan Development

HCSI Workgroup

- 15-20 participants
- 10 meetings
- Structured decision-making

Draft HCSI Action Plan

- Oct 2020
- Board review

HC Shellfish Summit

- Oct 2020
- 72 attendees
- Reviewed draft Action Plan

Public Review Period

400 comments received

HCSI Action Plan finalized

- Board approved Dec 2020

Call for Projects

- Small amount of immediate funds for implementation
- 3 project proposals evaluated by Workgroup, finalized by Board
- Initial projects implemented ('21-'22)
 - Leveraging HCSI & partnerships for further opportunities

HCSI Implementation

Support and expand Hood Canal's THRIVING SHELLFISH RESOURCES,

honor tribal TREATY RIGHTS,

build **RESILIENCE**,

pursue

ECOSYSTEM PROTECTION AND RESTORATION,

and support

CAREFUL STEWARDSHIP

of commercial and recreational shellfish harvest

now and into the future.

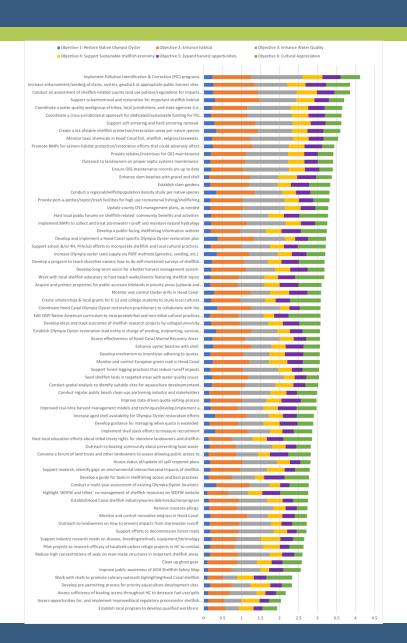




Objectives

1	Protect and improve Hood Canal's water quality
2	Protect and improve Hood Canal shellfish habitat
3	Promote cultural appreciation of Hood Canal shellfish
4	Support a sustainable Hood Canal commercial shellfish industry
5	Expand harvest opportunities for Hood Canal treaty Tribes, local communities, and visitors
6	Restore native Olympia oyster populations in Hood Canal

Perceived impact of ALL ACTIONS for ALL OBJECTIVES



Priority Actions

Rank	Action
1	1.A.1: Implement Pollution Identification and Correction programs
2	5.B.4: Coordinate and increase enhancement and seeding of clams, oysters, and
	geoduck at appropriate public harvest sites
3	2.E.2: Conduct an assessment of shellfish-related county land use
	policies/regulations for impacts to shellfish habitat
4	2.D.4: Support culvert removal and restoration for important shellfish habitat
5	1.A.2: Coordinate a water quality workgroup of tribes, local jurisdictions, and state
	agencies (e.g. HC Reg. PIC Program)
6	1.A.3: Coordinate a cross-jurisdictional approach for dedicated and sustainable
	funding for PIC and OSS management programs
7	2.D.5: Support soft armoring and hard armoring removal
8	2.A.1: Create a list of viable shellfish protection/restoration areas per native species
9	1.A.7: Monitor toxic chemicals in Hood Canal fish, shellfish, eelgrass/seaweeds
10	2.E.1: Promote best management practices for salmon habitat
	protection/restoration efforts that could adversely affect shellfish habitat

Hood Canal Shellfish Initiative: Implementation

- Initial implementation projects
- Leveraging other funding sources
- Partner commitments
- Public-private partnerships

Hood Canal Shellfish Initiative Projects

Mason County 2021 PIC Support – PIC equipment purchases

Mason County Public Health

>>> See presentation on Hood Canal Regional PIC Program in Green Infrastructure session

Advancing a Custom-fit Strategy for Restoration of Olympia Oysters in Hood Canal | Puget Sound Restoration Fund

Hood Canal Marine Spatial Planning — Phase 1: Pre-Planning Hood Canal Coordinating Council

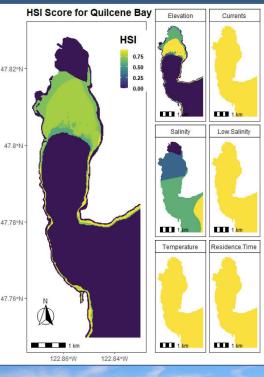
Advancing a Custom-fit Strategy for Olympia Oyster Restoration in Hood Canal



Project lead: Hilary Hayford, PSRF Habitat Research Director

>>> Learn more from PSRF about this broader work and its application in Hood Canal at their presentation on Thursday, the 28th, 10:30am in the "Bivalves, Biodiversity, & Wastewater" session.

Advancing a Custom-fit Strategy for Olympia Oyster Restoration in Hood Canal



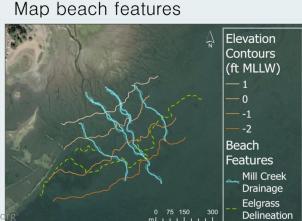
Habitat Suitability Index (HSI) – Quilcene Bay

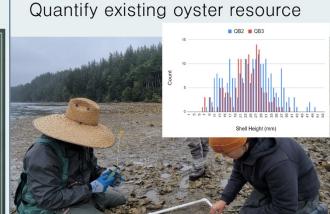
Charlotte Dorhn











Advancing a Custom-fit Strategy for Olympia Oyster Restoration in Hood Canal

Outreach – middle school program



Puget Sound Shoreline Module

Olympia Oysters

Great Peninsula Conservancy

which serves as a site designated for priority Olympia oyster (Ostrea lurida) restoration. Comparing these two sites is high valuable to assess how Puget Sound's shoreline can return to former Olympia oyster habitat. Since Olympia oysters a

Outreach - KPTZ radio show



https://kptz.org/2021/10/27/hood-canal-oyster-initiative/

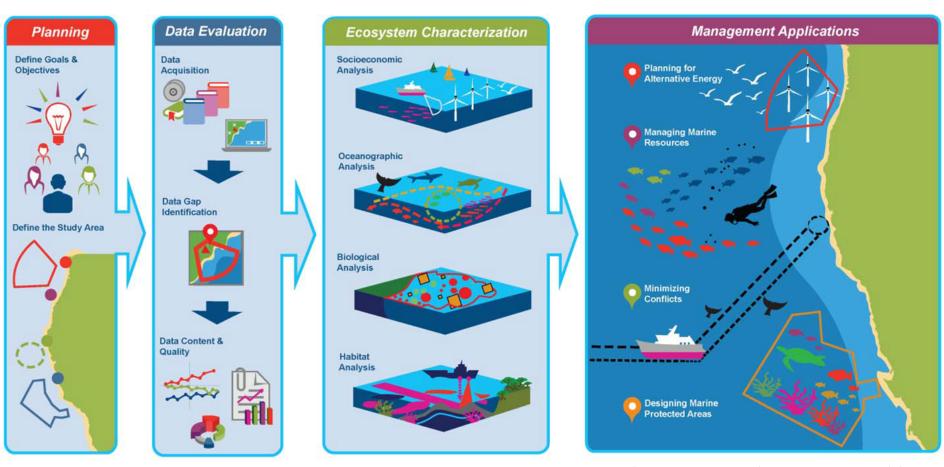
Outreach - Walk & Talk



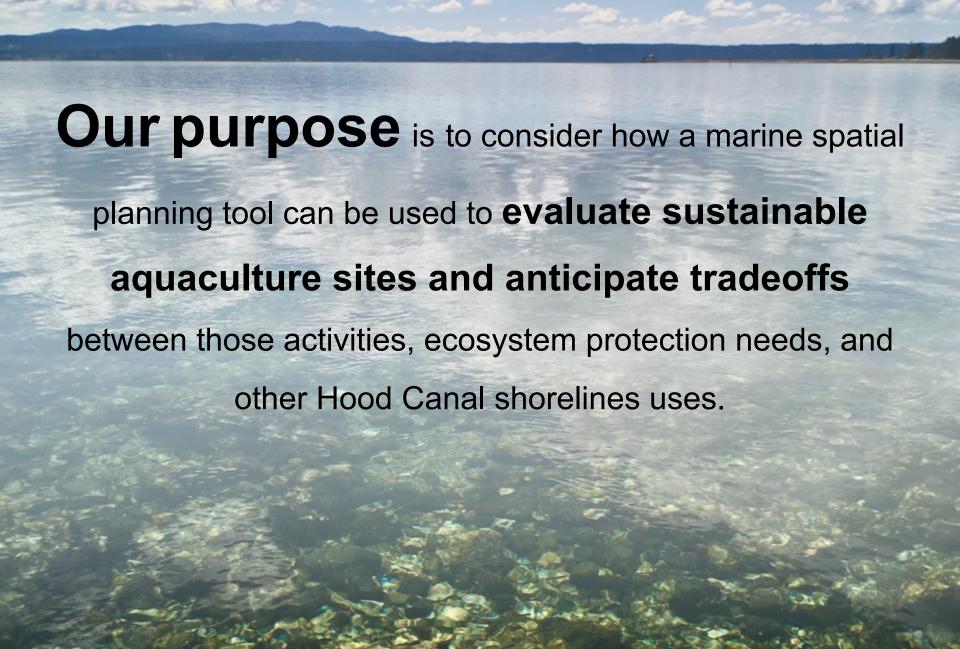




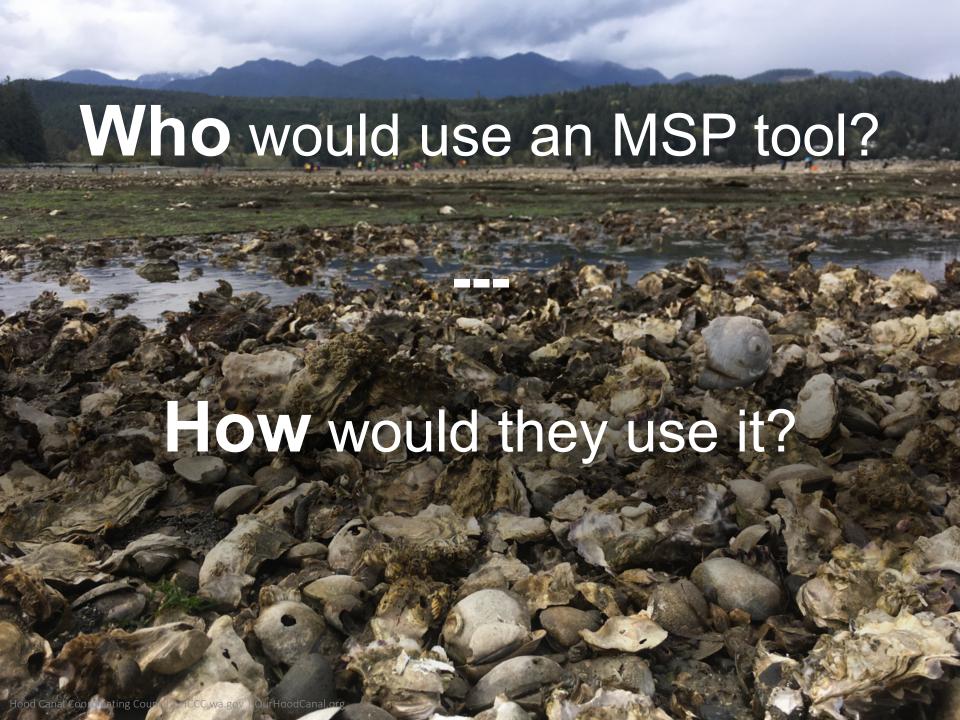
What is Marine Spatial Planning?



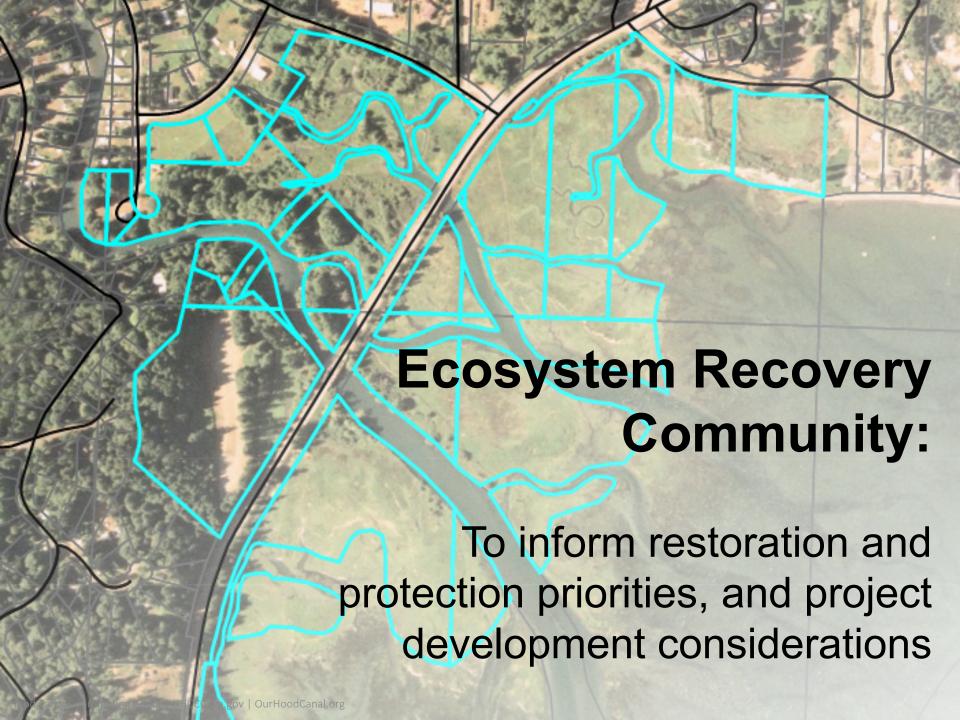
NOAA NCCOS Biographic Assessment Framework: to support marine spatial planning https://coastalscience.noaa.gov/news/innovative-management-approach-aids-marine-spatial-planning/ PC: mark.monaco@noaa.gov

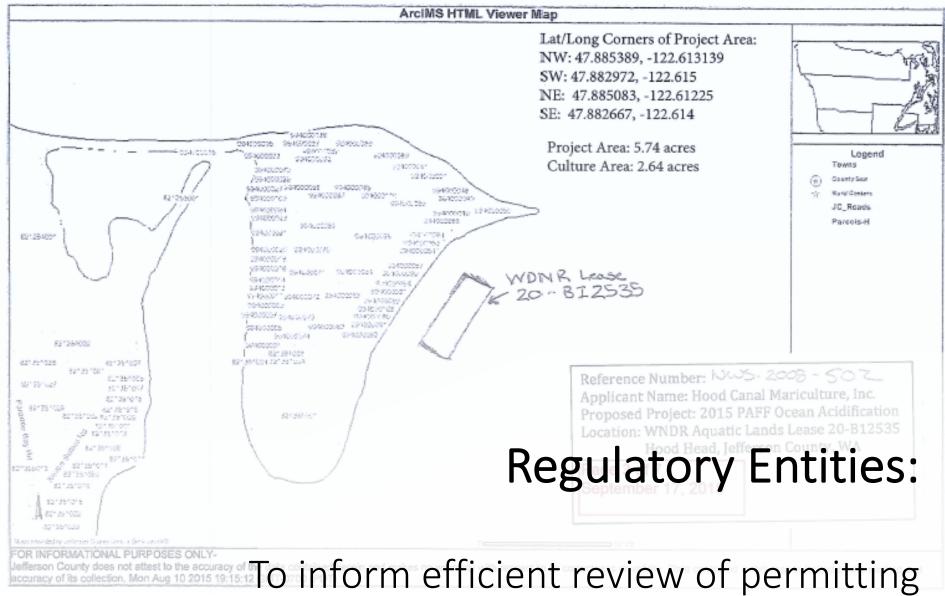


Coordinating Council | HCCC.wa.gov | QurHoodCanal

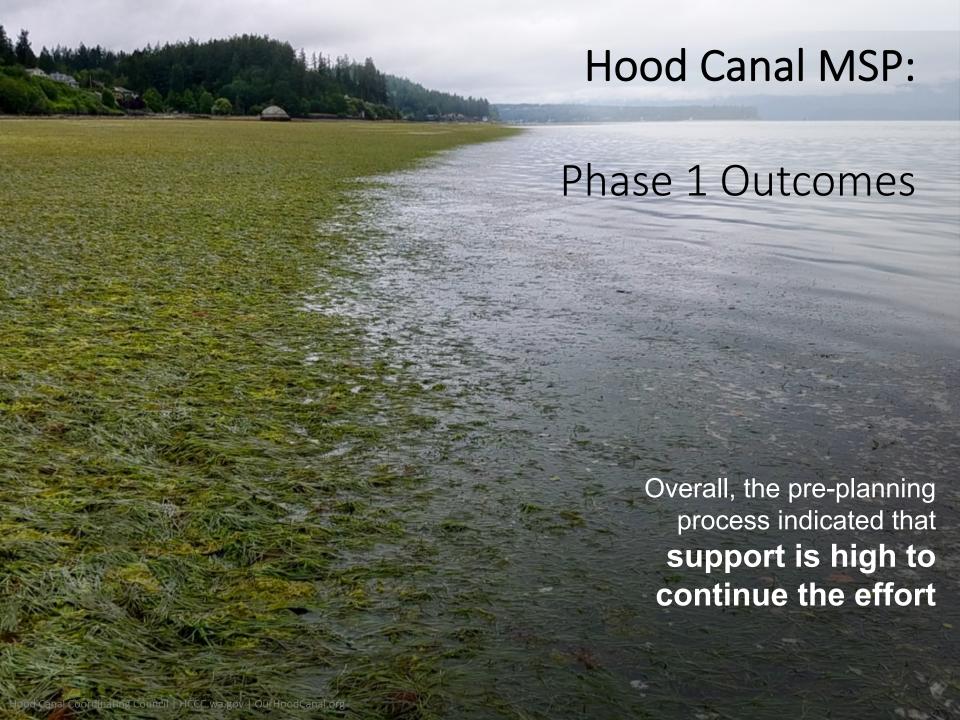








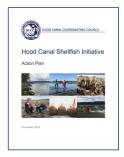
applications





- Adaptive management
- Hood Canal Shellfish Summit
- Partner commitments
- Public-private partnerships
- Leveraging HCSI for future project funding

Links to Resources



Hood Canal Shellfish Initiative Action Plan



Advancing a Custom-fit Strategy for Restoration of Olympia Oysters in Hood Canal



Hood Canal Marine Spatial Planning Phase 1-Pre-Planning Report

Thank you!

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Funding Acknowledgements

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