



Search

Results Resources ▾ Home



Sign In



Measure 2.1: Supplemental - Shellfish Acreage



MEASURE 2.1 SHELLFISH ACREAGE

Department of Health

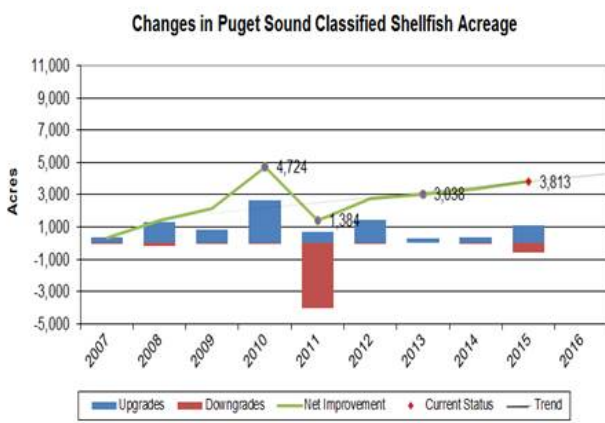
Jerrod Davis, P.E.
**Director, Office of Environmental
Health & Safety**



July 11, 2016

1

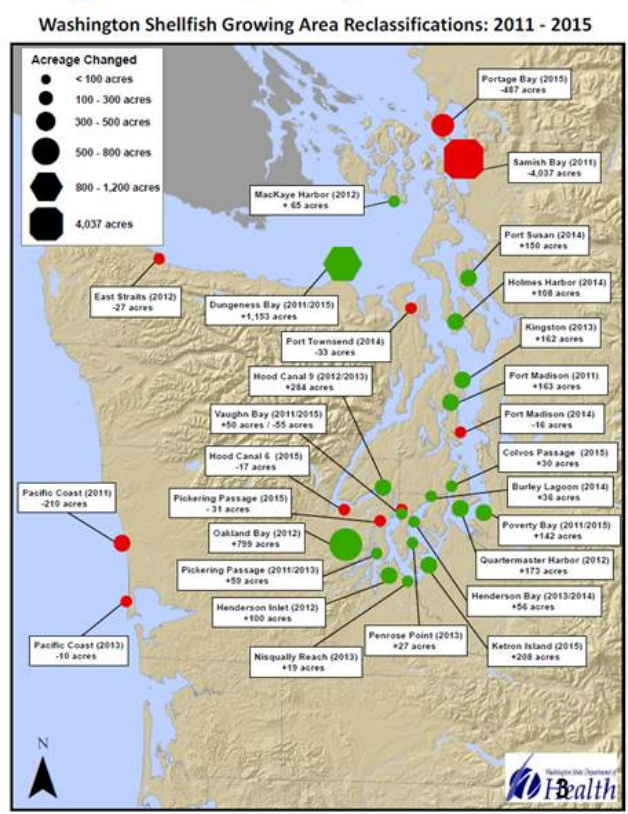
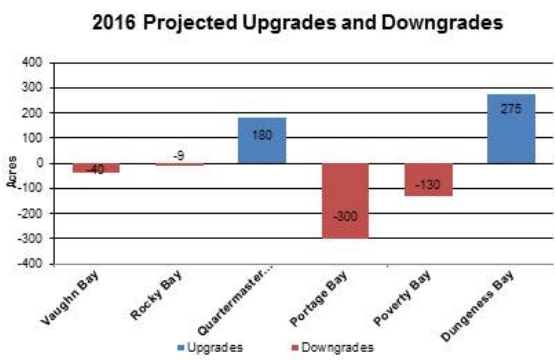
Background: Water quality trends improving, but many barriers need to be addressed



- Long term trends show improved water quality
- Large downgrades in Samish Bay and Portage Bay impact reaching the target

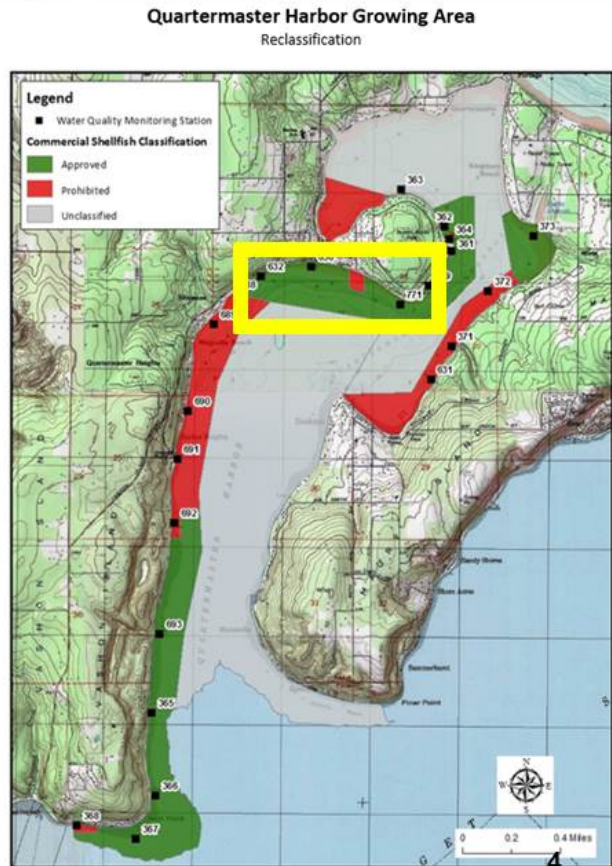
Current State: Success in improving water quality

- Partnerships lead to improved water quality
- Many successes over the years



Success: Quartermaster Harbor (King County)

- 180 acre upgrade
- Efforts by Public Health Seattle & King County and the Puyallup Tribe lead to success

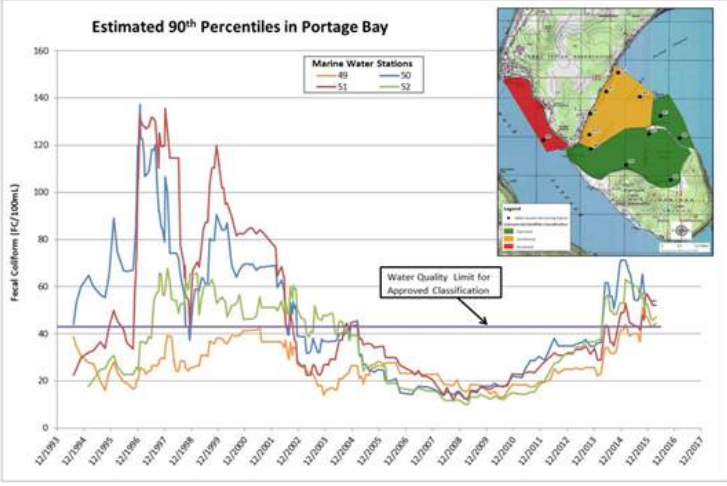


Problem/Opportunity: Samish Bay (Skagit County)

- 2016 – Significant drop in number of confirmed pollution closures
- Recent restoration activities appear successful. These activities must be sustainable
- Number of river rise closures reduced due to environmental conditions over the last two years

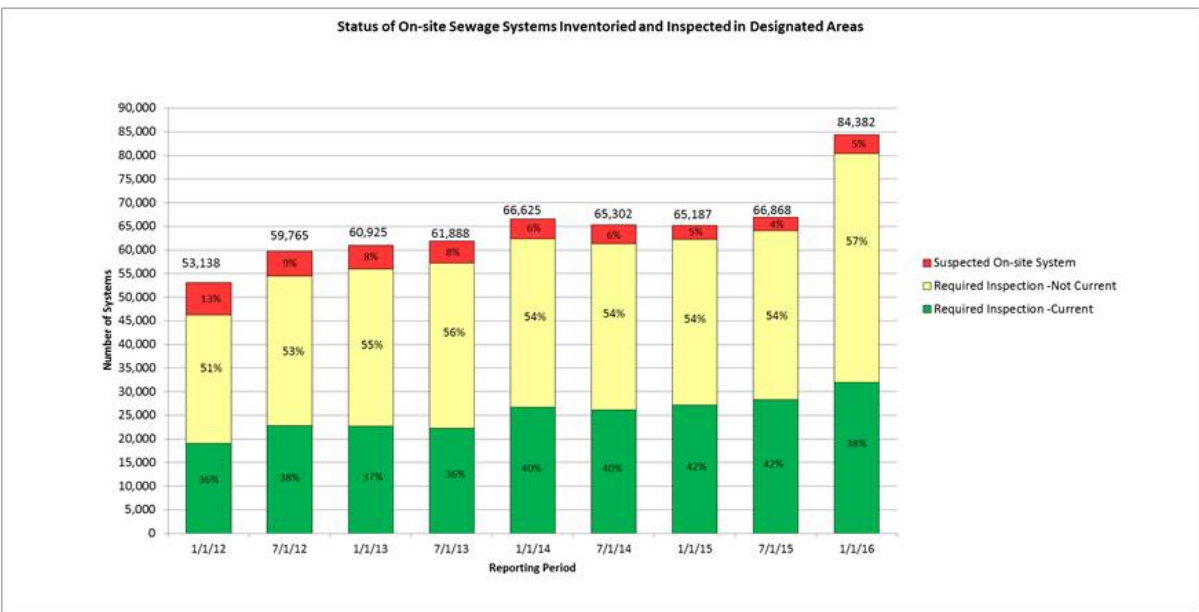
Samish Bay River Rise Closure Analysis (March - June)			
Year	Days Closed to Shellfish Harvest	Number of River Rises Above Flow Trigger	Number of Confirmed Pollution Closures (load >4.7x10 ¹² FC/day)
2012	37	16	10 (63% confirmed)
2013	31	14	8 (57% confirmed)
2014	27	15	9 (60% confirmed)
2015	13	4	3 (75% confirmed)
2016	7	5	1 (20% confirmed)

Problem/Opportunity: Portage Bay (Whatcom County)



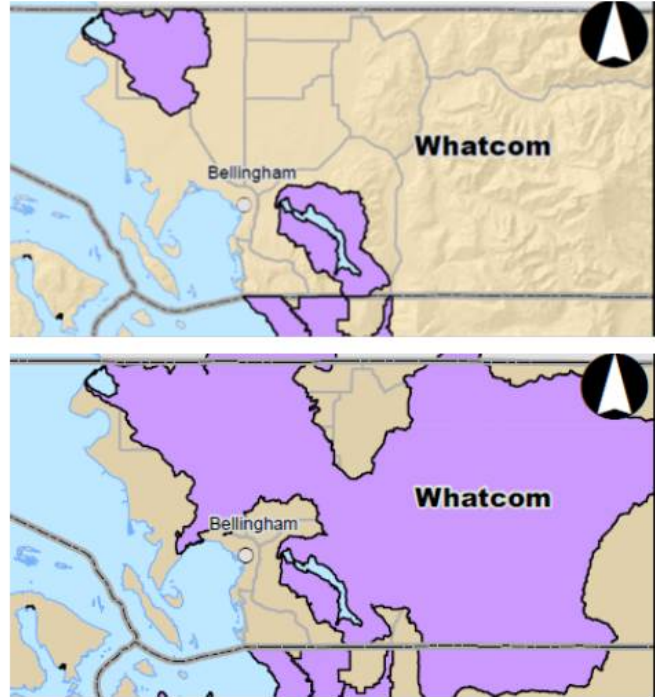
- Downgrading 300 additional acres
- Progress is slow
- Current successes
 - Establish expanded MRA
 - Better field coordination
 - Investments

Current State: More systems are being inspected, and problems are getting fixed



Problem/Opportunity: *Sustainable funding for septic management programs*

- Proposed HB 1715 in the 2015 and 2016 legislative sessions
- Working with local boards of health to adopt septic fees
 - King County
 - Thurston County
 - Jefferson County



8



2.1.B / AG BMP

Ron Shultz, Policy Director
Washington State
Conservation Commission (SCC)

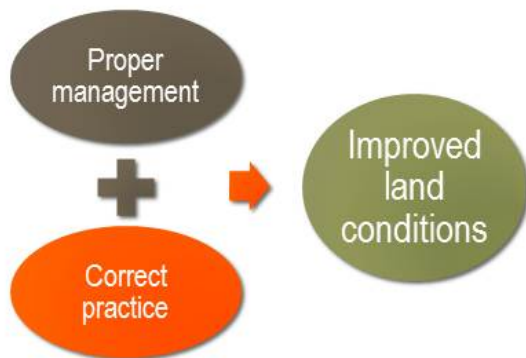
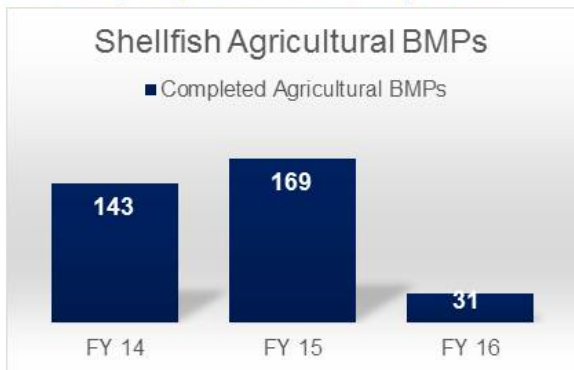
July 11, 2016

Washington State



**Conservation
Commission**

Background: Implementing best practices to protect shellfish by reducing agricultural inputs.



Agricultural activities can impact shellfish resources:

- Unmanaged runoff into streams inputs nutrients.
- Animal access to stream bank can lead to vegetation loss and erosion.
- Improper manure application to fields can lead to runoff.



Current State: CDs are assisting landowners to implement BMPs.

Funding to implement BMPs:

- 2013-15: \$4.5 million
- 2015-17: \$4 million

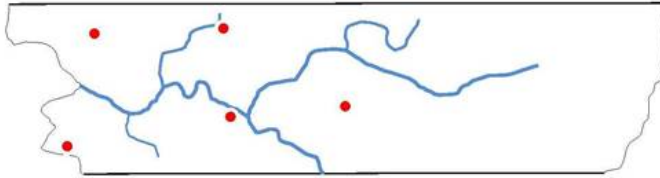
To date, 343 BMPs have been implemented in the 14 shellfish counties.



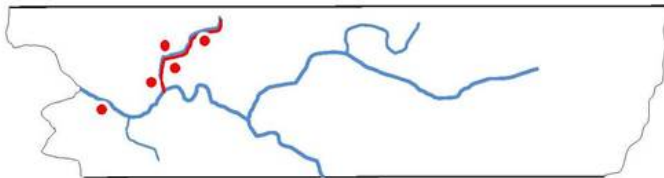
- Funding originally provided in response to Blue Ribbon Panel on Ocean Acidification (OA) recommendations.
- After legislative process, funding balanced between OA and shellfish closure.
- SCC staff recognized at the beginning the need to implement in a targeted approach.
- Since inception, funding requests had to meet OA or shellfish harvest criteria, be identified on maps, and linked to local coordinated activities.

Problem/Opportunity: More targeted BMP implementation could lead to measurable resource improvements.

Current State



Targeted Approach



Problem:

- Number of BMPs implemented tells us the amount of work done, but not whether done in the right place.

Solution:

- Target BMP implementation to the areas with known resource concerns.

Strategies: Focus on resource concerns with targeted outreach and assistance.

Targeted Outreach Approach:

- Identify resource concern;
- Identify key parcels;
- Provide assistance;
- Assist funding practice.



Identify Resource Concern:

- Partner with resource agencies, local gov't, tribes, NGOs.
- Data on water quality.

Identify Key Parcels:

- CDs conduct landowner outreach.
- Use assessment tools.

Provide Assistance:

- CD staff help landowners with options.
- Landowner develops plan.

Assist Funding Practice:

- Existing programs coordinated to focus fiscal resources.

Detailed Action Plan:

Task	Task Lead	Partners	Expected Outcome	Status	Due Date
Identify Resource Concerns – Identify pilot areas (2-3)	SCC	Shellfish Coordination Group (SCG); counties, CDs, tribes	Two or three geographic areas identified as pilot areas for implementation.		Dec 2016
Identify Resource Concerns – Data compiled to I.D. key resource concerns area.	SCC	SCG; counties, CDs, tribes	Key areas identified based on data reflecting resource parameters.		Dec 2016
Identify Key Parcels – Engage with CDs to develop parcel identification and outreach approach.	SCC	CDs, SCG	Standardized approach for parcel-based outreach is developed.		May 2017
Identify Key Parcels – Engage with CDs in pilot areas to implement parcel identification approach.	SCC	CDs, SCG, counties	CDs in pilot areas are engaged and are implementing the parcel-based outreach approach.		Sept 2017

Detailed Action Plan:

Task	Task Lead	Partners	Expected Outcome	Status	Due Date
Provide Assistance – CD staff in pilot areas are providing assistance to landowners.	SCC	CDs, SCG, counties	CDs have identified a list of key parcels and are engaging with landowners and tracking progress.		Sept 2017 – ongoing
Provide Assistance – Pilot program is expanded to other counties.	SCC	CDs, SCG, counties	Parcel outreach approach is expanded to at least 8 other counties.		July 2018 - ongoing
Assist Funding Practice – Funding for BMPs is coordinated in pilot counties.	SCC	SCG, federal agencies, counties, CDs, tribes	Coordination approach is developed and implemented in pilot counties.		Sept 2017 - ongoing
Assist Funding Practice – Funding for BMPs is coordinated in other counties.	SCC	SCG, federal agencies, counties, CDs, tribes	Coordination approach is implemented in at least 8 other counties.		July 2018 - ongoing

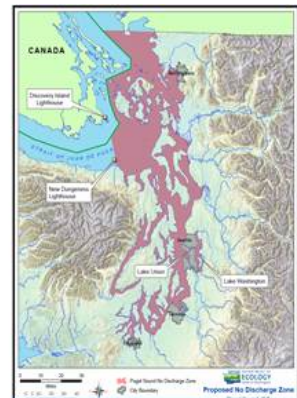
Assistance Needed:

- Continued engagement of the Shellfish Coordination Group.
- Support from resource agencies to provide needed data for area identification.
- Additional funding for implementation. Re-purpose existing funds?
- Legislation to provide policy authority for the approach.



No Discharge Zone

- Taking the risk away from vessel sewage discharges to sensitive resources
- Preventable pollution source, pathogens – protect water quality and public health; estimate at least 500 acres of shellfish beds to be opened
- Follows other large investments in Puget Sound (sewage, stormwater, ag runoff, etc)
- More than 90 NDZs in 26 states, none in EPA Region 10
- 4.5 years of research, stakeholder outreach, modeling, 10 evaluation reports, draft petition – great support
- Delayed implementation for certain commercial vessels to spread retrofit costs; pumpout grants for commercial vessels
- Anticipate Final Petition Submission to EPA Region 10, summer 2016



NDZ = Designated area where both treated and untreated sewage from vessels cannot be discharged



Draft CAFO Permit

- **Two Permits: Combined and State Only - Conditional authorization to discharge**
- **Increases environmental protection**
 - Expands facilities covered by a permit
 - Requires adaptive management and soil sampling tying manure application to crop needs
 - Winter manure application restrictions
- **Builds on existing frameworks and programs (RCW 90.64)**
 - Dairy Nutrient Management Program
- **Increases cross agency coordination for implementation**
 - Ecology CWA authority: Agriculture statute and expertise industry
 - Works to streamline state government for implementation
- **Adaptive Management key attribute in approach**
 - No groundwater monitoring or lining of lagoons proposed in this permit
 - Lagoon assessment required in first two years to inform level of risk and therefore subsequent steps



Opportunities Moving Forward

- Advance Best Management Practices (BMPs) implementation to help manage animal waste
- Create sustainable local nonpoint pollution programs
- Regulate of boaters' waste
- Sustain on-site sewage system management and repair programs
- Plan and manage wastewater treatment plant outfalls to Puget Sound

Memorandum of Agreement

2016 Threatened Shellfish Growing Areas



- State partners respond together to threatened and failing marine water quality
- Assist local governments in organizing and implementing coordinated projects

Questions?



[Contact Us](#)

[Comment Policy](#)

[Give Us Your Feedback](#)

[Legislative Reports](#)

[Apply Lean](#)

[Foster Performance Audits](#)

[Measure Results](#)

[Gov. Inslee's New Strategic Framework](#)

[Video Message from the Governor](#)

[Printable Trifold about Results Washington](#)



Powered By  Seqrata