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Background / Introduction

This report outlines the Snohomish County Marine Resources Advisory Committee’s (MRC) accomplishments between January and December 2015. It includes a description of current projects and provides recommendations for the Snohomish County Executive and Council.

Established in 1999, the MRC advises Snohomish County on approaches to protect, restore, and conserve the local marine environment. Chapter 2.800 of the Snohomish County Code authorizes the MRC.

MRC members represent a diverse group of environmental, recreational, conservation, economic, local and tribal government interests. The MRC is part of the Northwest Straits Marine Conservation Initiative (NWSI), guided by the Northwest Straits Commission (NWSC) and the Northwest Straits Foundation (NWSF). Together these entities comprise a non-partisan regional effort to protect and restore marine resources in northern Puget Sound and the Strait of Juan de Fuca. Snohomish County Public Works Surface Water Management Division (SWM) provides staff support for the MRC.

Since its inception, the MRC has developed an effective citizen-based process for examining local marine resource issues, engaging and educating the public and initiating efforts to address established priorities. These priorities are guided by the MRC Strategic Plan (2016-2018) and the NWSC Benchmarks.

NWSC Benchmarks
The NWSC performance benchmarks include the following:
- marine habitat
- marine life
- marine water quality
- science
- education and outreach

Throughout this annual report, the NWSC benchmarks achieved through MRC activities are listed in inset boxes.

The MRC continues to develop a variety of partnerships with government agencies, non-profit organizations and citizen groups to share resources and improve its long-term success. An integral part of the MRC’s work is public education and involvement, which includes the training and use of volunteers. The help of volunteers allows the MRC to effectively implement a variety of important projects.

With a strong emphasis on accountability, the MRC strives to maximize results, build stakeholder confidence, and leverage external funds and partnerships. The MRC is now implementing a number of marine conservation research, outreach, and on-the-ground restoration projects throughout the county. The MRC members are proud of their accomplishments over the past year and look forward to facilitating continued support and improvements for the marine resources in Puget Sound.
Summary of Accomplishments

2015 Metrics
The table below summarizes performance metrics for the MRC during 2015.

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<table>
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<td>Outreach event participation</td>
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Project Highlight: MRC Oil Spill Prevention, Preparedness, and Response
The Snohomish MRC held an oil spill prevention, preparedness, and response meeting on November 18, 2015. Representatives from Snohomish County Department of Emergency Management (DEM), Burlington Northern Santa Fe (BNSF), and Washington Department of Fish and Wildlife (WDFW) presented information on oil spill management relative to their fields. The meeting aimed to bring several of the key players of oil spill prevention and response to Snohomish County to collaborate on current and future preparation and planning.

Project Highlight: Port Susan Bulkhead Removal Phase 1
In October 2014, the MRC began Phase 1 of the Port Susan Bulkhead Removal project. This phase began educating homeowners on the benefits of bulkhead removal along shoreline property. In 2015, the MRC held two workshops to spread awareness and gain interest in property bulkhead removal. Several homeowners expressed interest and had site visits to determine the feasibility of bulkhead removal along their property.
Public Education and Outreach

**Recreational Fisheries Education** – The Snohomish MRC began preparation for the distribution of crabber and rockfish educational materials in 2016. MRC members and staff will hand out information and products to support sustainable fishing and crabbing practices throughout Snohomish County in an effort to reduce both marine debris and wildlife loss.

**Starlight Beach Walk** – MRC Members, staff, and WSU Snohomish County Extension Beach Watchers hosted Starlight Beach Walks in Edmonds and Mukilteo in 2015. During the two evening low tides, people of all ages combed the beach to find and learn about starfish, anemones, limpets, crabs, and other intertidal organisms.

**Washington State University Snohomish County Extension Beach Watchers**

The MRC continued partnership and support for the WSU Snohomish County Extension Beach Watchers program.

Seventeen Beach Watchers graduated from the 2015 training program and became involved in MRC projects and other local efforts. WSU Beach Watcher volunteers contributed 5,150 hours of service for the community.

**Education and Outreach Events**

Staff displayed the MRC booth at four community events to promote awareness of the MRC and information on a variety of marine stewardship topics. The MRC displayed the booth at the following events in 2015:

- Sound Waters (~500+)
- Port Susan Bulkhead Removal Workshops (~70+)
- NWSC Conference (~200+)

**NWSC Benchmarks Achieved:**

- Education and Outreach
- Marine Life
Communicating Science

Communications Specialist
The MRC hired Alyson Rae as a temporary communications specialist. The addition of this staff role increased the communication capacity of the MRC. A few of the new tasks included:

- Finalized and implemented a recreational crabbing social marketing strategy
- Developed an Instagram photo contest to encourage best management practices
- Developed a communications plan
- Assisted with website updates and coordinating public forums on topics of interest to Snohomish County citizens.
- Developed new series of factsheets

Sound IQ
Snohomish County MRC worked with SWM and NWSC staff to make MRC GIS data available on Sound IQ in 2015. Sound IQ is an online mapping and database tool that displays nearshore data for the Northwest Straits Initiative.
Dungeness Crab

### Education at Puget Sound Speed Crabbing Derby
MRC members and staff attended the daylong derby hosted by Eddie Adams at the Everett waterfront. Event organizers and MRC members distributed 40 packets of education materials, including copies of the “Keep Your Crab Pot, Eat More Crab” nautical chart, which features best management practices to reduce the number of lost crab pots. The MRC also assisted at the weigh station, measuring crabs, testing shell hardness, and educating participants on local regulations and best practices.

### Crab Pot Escapement Study Advisory Committee
MRC members and staff served on the advisory committee for a study conducted by the NWSF. The study evaluated crab pot design in the context of crab escapement potential should a pot be lost. The MRC will participate in the next phase of this study in 2016.

### Dungeness Crabber Education
In July, the MRC launched a social marketing photography contest to help raise awareness on various different sustainable crabbing practices. The MRC selected eight Best Management Practices (BMPs) to be the focus for this campaign. Recreational crabbers were encouraged to post photographs of best crabbing practices on Instagram, using the hashtag #CatchMoreCrabSnoCo. The contest ran through the 38-day summer recreational crabbing season 5. During the event, the MRC posted 124 photos and awarded prizes to five randomly selected participants. The NWSC is planning to expand this model program to other MRC’s throughout the state and provide staff support to conduct this social marketing campaign in 2016.

### Did you know?
Researchers estimate that 12,000 crab pots are lost each year in Puget Sound! These pots catch and kill an estimated 129,000 crabs. The MRC and partners focus their education efforts on reducing that number.

### NWSC Benchmarks Achieved:
- Education & Outreach
- Marine Life
- Marine Habitat
- Science

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**Enter photo contest via Instagram!**

#CatchMoreCrabSnoCo

Upload your crabbing photos to Instagram. Include #CatchMoreCrabSnoCo and a hashtag from the back of this card in your caption.

See complete rules online: [www.snocomrc.org](http://www.snocomrc.org)

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**MRC Staff and volunteers at the Speed Crabbing Derby**

**Marine Resources Committee Conference**
Kathleen Herrmann presented at the Northwest Straits Initiative Marine Resources Committee Conference in Bellingham on November 7, 2015. Her presentation “#CatchMoreCrabSnoCo” described how the Snohomish County MRC used social media as a tool in a social marketing campaign to encourage recreational crabbers to employ best practices and reduce the number of recreational crab pots lost in local marine waters.
Kelp Monitoring

MRC Participates in Groundbreaking Kelp Study
MRC members and staff identified and mapped kelp beds off County marine shorelines for the NWSC 2015 bull kelp monitoring pilot study. This survey data will support future monitoring of bull kelp; researchers know very little about the species in north Puget Sound. The Everett Herald reported on the project, highlighting the importance of kelp in shoreline ecosystems and the crucial role research plays in protecting kelp beds.

Bull Kelp Monitoring
MRC members and staff collaborated with other MRCs and the Northwest Straits Commission to conduct a volunteer based pilot study of bull kelp beds in Snohomish County. Participants conducted surveys via kayaks equipped with GPS from July 13 to July 17, 2015 and found 14 individual kelp beds, which covered nearly 15 acres. The MRC used the data to develop maps outlining the boundaries of bull kelp beds. Information on kelp density and abundance allows data comparison over time. Surveys will continue in 2016.
Meadowdale Beach Restoration

Forage Fish Spawning Surveys
The MRC continued to conduct pre-restoration monitoring of potential forage fish spawning within the Nearshore Restoration Project reach. MRC members, and SWM staff, with the assistance of forage fish expert Dan Penttila, collected samples between January and February 2015 to look for the presence or absence of surf smelt and sand lance eggs. Surveys were conducted again beginning in November 2015 and will continue through January 2016. The results of the surveys will provide data for the Nearshore Restoration Project.

Meadowdale Beach Restoration
Snohomish County Parks, SWM, and the MRC are working to evaluate long-term solutions for the public access and maintenance issues at the Lund’s Gulch Creek culvert at Meadowdale Beach Park. The undersized culvert creates problems for park users, park maintenance, and salmon trying to access the creek. Currently, beach access for park visitors is limited due to high flows in the culvert through which visitors must pass. Winter conditions also cause sediment pile-up due to the creek overflowing its banks upstream of the culvert. The walking grate for people to access the beach limits fish passage into the creek. This affects natal and non-natal juvenile salmonids, including ESA listed Chinook, who attempt to use this stream.

The goals of the project include enhancing recreational and education uses of the park, improving fish habitat, and reducing maintenance on the current culvert. MRC and SWM staff will continue working with Snohomish County Parks to determine the best alternative for this site.

NWSC Benchmarks Achieved:
✓ Marine Life
✓ Marine Habitat
✓ Science
Nearshore Habitat Protection & Restoration

Long-Term Nearshore Beach Restoration Maintenance and Management Study

The Long Term Nearshore Beach Restoration Maintenance and Management Study will provide recommendations on future funding, maintenance, management, and beach nourishment for the Snohomish County Nearshore Beach Restoration Project. The study will create a collaborative strategic plan with several alternatives to support the restoration project after the initial construction is complete.

The goal of this project is to determine both the funding levels and mechanisms for recurring beach nourishment of the project sites along the 4.5 mile reach between Mukilteo and Everett and also to increase and improve public access and nearshore habitat. If successful, this initiative may provide a long-term solution to maintaining continued nourishment in the nearshore project area for the foreseeable future with limited costs to taxpayers. This approach may also be applied to other areas of Puget Sound.

Nearshore Beach Restoration Project

This project will advance restoration along the railroad-impounded shoreline between Mukilteo and Everett by removing 422 feet of armoring at Howarth Park and placing 4500 feet of additional beach material at three locations. 18,000 cubic yards of material will be barged in for placement.

The MRC staff and members supported this project in 2015 through pre-construction beach monitoring, preparing additional funding requests, grant administration, and working with project partners to move this project forward. Work to secure a bid for the nearshore project construction began in 2015 and will continue into 2016.

Project partners include the Port of Everett, Snohomish County, the USACE, the City of Everett, and the Tulalip Tribes.

Nearshore Marine Culverts Assessment

The MRC is collaborating with NOAA to develop a preliminary assessment of nearshore marine culverts within the railroad-impounded nearshore of Snohomish County. This work will identify potential beach nourishment locations along the Snohomish County’s nearshore areas south of Everett and will result in a ranked list of marine culverts BNSF could upgrade along the Snohomish County portion of the shoreline.

NWSC Benchmarks Achieved:
- Education & Outreach
- Science
- Marine Habitat
- Marine Life
- Marine Water Quality
Port Susan Marine Stewardship Area

What is a Marine Stewardship Area?
A Marine Stewardship Area (MSA) is a non-regulatory conservation designation that works to generate responsibility within relevant authorities and users of marine environments for the conservation of natural, cultural, and scenic values.

Port Susan Bulkhead Removal Feasibility Study
The MRC worked to advance the concept of residential bulkhead removal projects in the Port Susan area of Snohomish County. Of the 382 parcels assessed in the study, 29 bluff shores and 63 accretion shores were determined to be feasible armor removal priorities, and 66 bluff shores were determined to be protection priorities. The MRC will continue work to ground truth the results of this project and to conduct site visits with willing landowners. The MRC’s work to reduce the amount of armored shoreline within Port Susan will continue into 2016.

Port Susan Public Outreach and Education
The MRC developed and mailed outreach materials concerning shoreline armoring and preventions. The MRC also co-hosted two workshops in 2015 in Port Susan on March 28 and October 17 in partnership with the Northwest Straits Foundation. The workshops provided local homeowners with information on coastal processes and shoreline erosion management.

Port Susan Report Card
The MRC completed the Port Susan Report Card, which highlighted progress made toward the protection and restoration strategies identified in the Port Susan Marine Stewardship Area Conservation Action Plan (CAP) in 2012. The MRC distributed a final graphic version of the report card to project partners in 2015. The report card documented progress made towards each of the six targets: embedded invertebrates, Dungeness crab, beaches and forage fish, deltas, shorebirds, and Chinook salmon.

NWSC Benchmarks Achieved:
- Education & Outreach
- Science
- Marine Habitat
- Marine Life
- Marine Water Quality
Marine Water Quality

Derelict Vessel Removal
MRC Staff and members worked with the Washington Department of Natural Resources (WDNR) to support removal of a derelict vessel in the Snohomish River Estuary in late September. This is a great partnership between Snohomish County Public Works, the MRC, Snohomish County Sheriff's Department, and WDNR. This partnership helps direct state funds to Snohomish County to help address pollution and habitat concerns that have affected the estuary for a number of years.

Did you know?
In Washington State, oil transport by rail has increased from zero shipments of oil in 2011 to 700 million gallons in 2013. Currently, ten oil trains per week travel through Snohomish County.

Source: Washington Department of Ecology

Derelict vessel Safari Spirit, removed from Steamboat Slough

Oil Spill Preparedness
The MRC Oil Spill Preparedness subcommittee met with Snohomish County Department of Emergency Management (DEM) and Washington Department of Ecology on separate occasions to explore gaps in oil spill preparedness in Snohomish County and where the expertise of the MRC would be beneficial. MRC members attended Northwest Area Committee meetings and helped develop Quick Response guides for elected officials. The MRC plans to continue to work with DEM on this project and begin filling some of the gaps in County oil spill preparedness in the coming year.

Caged Mussel Study–The MRC assisted with the Department of Fish and Wildlife’s Caged Mussel Study. Mussel cages were secured to several beaches for three months and their tissue will be analyzed for toxins absorbed from the environment. Volunteers deployed mussels in October 2015 at three different sites within Snohomish County. Work on this project will continue through February 5, 2016.
Administrative Tasks

MRC Staffing
MRC staff received support from the Snohomish County Public Works and the Surface Water Management Division for the Marine Resources Program. Beyond the MRC Program Manager and Lead Staff, Kathleen Herrmann, Communications Specialist Alyson Rae, and WCC Individual Placements, Taylor McDowell and Autumn Moore, and many SWM employees have contributed time and expertise to MRC projects this year.

MRC Meetings and Communication
MRC staff organized MRC meetings, facilitated meeting and training logistics, and transcribed meeting minutes. Staff maintained phone and email contact with MRC members, MRC subcommittees, County staff, contractors, local community groups, volunteers and the public.

The MRC’s Northwest Straits Commission (NWSC) Representative and/or the Designated Alternate attended NWSC meetings on January 30, February 27, March 12-13, April 24, May 29, June 26, July 31, August 21, September 25, and October 30, 2015. Ten Snohomish County MRC members and three MRC staff attended the NWSC conference in Bellingham, WA on November 6-7, 2015.

Grant Administration
MRC staff submitted progress reports, provided detailed deliverable task reports, and included all associated pictures and hardcopies to the Northwest Straits Commission. Staff also developed and tracked the MRC budget.

The current NWSC Grant also provides funding to conduct the Long Term Nearshore Beach Restoration Maintenance and Management Study that began in 2015 and will continue in 2016.

MRC Website
The MRC website features a user-friendly interface and individual project pages. It is regularly updated with events, project progress and interesting marine-related information. In 2015, the site received over 3,800 visits.

MRC Member Training
See Attachment A for details.

MRC Subcommittees
The MRC maintains an Executive subcommittee and several ad-hoc committees including Mussel Watch, Port Susan, Crabber Education, Derelict Gear, Sound IQ, and Oil Spill Preparedness.

Strategic Plan
The MRC functions under the framework of the 2015-2017 Strategic Plan. The plan guides current and future MRC projects and efforts.

MRC Members
The MRC re-appointed Paul Schlagenger to serve as the MRC Chair. The MRC re-appointed Simon Geerlofs to serve as MRC Co-Vice Chair and appointed Franchesca Perez as Co-Vice Chair. Lincoln Loehr was elected as the MRC representative to the NWSC, with Tom Hoban and Kathleen Herrmann as alternates.

Brent Hackney ended his term on the Snohomish MRC in December 2014. Sarah Brown, Paul Clampitt, and Traci Sanderson began terms with the MRC in March 2015. Keeley O’Connell ended her term with the MRC in December 2015.

MRC Website: www.snoomrc.org
Opportunities for 2016

Continuation of Existing Projects:

Derelict Gear Removal and Outreach
In an effort to combat the 12,000 crab pots lost annually in Puget Sound, Snohomish County MRC Staff and members worked with various partners to support the removal of derelict crab pots in the commonly fished commercial, tribal and recreational Dungeness crab fishing areas of Gedney (Hat) Island. The weeklong process took place in September of 2015 and these efforts removed 172 crab pots and one crab ring. Of the 172 derelict pots recovered, 28 pots contained 154 Dungeness crab. This work highlights the value of proper gear maintenance and practices in the Dungeness crab populations within the Puget Sound. The NWSI estimates a cost of $190 to remove a single derelict crab pot. This high cost emphasizes the value of prevention.

In 2016, the MRC will continue outreach efforts with project partners. The outreach will promote best management practices to prevent crab pot loss and reduce derelict gear within Snohomish County waters and throughout the Salish Sea.

Oil Spill Preparedness and Response
The MRC is working to increase participation in Snohomish County in the State’s Vessel of Opportunity Program (VOO). The MRC has written a letter, which highlights the VOO administered by the Washington Department of Ecology. As a larger effort to strengthen county oil spill prevention, preparedness, and response, the MRC letter will be distributed along with VOO informational pamphlets to local commercial fisherman.

In 2016, the oil spill subcommittee will continue to pursue the implementation of projects that will have the greatest impact on Snohomish County’s oil spill preparedness. Planned projects include:

- Observing a tabletop exercise,
- Joining a Northwest Area Contingency Plan (NWACP) task force, and
- Preparing comments for the upcoming Geographic Response Plan update.

ESRP Nearshore Learning Grant
The MRC received grant funding for an “Effects of Nourishment on Railroad Grade Beaches” study through the ESRP Learning Program. The MRC began preliminary planning in 2015 to conduct sampling at various armored and unarmored sites within Snohomish County in partnership with the University of Washington. The sampling will occur pre-construction and post-construction of the beach nourishment in order to study nearshore health and project impacts. The study will observe sediment transport following nourishment on a railroad grade beach, with implications for the selection and design of drift cell scale beach management activities across Puget Sound. Methods for sampling may include:

- Sediment grain size analysis
- Beach profiles surveys
- Wrack composition
- Wrack invertebrates and insects
- Forage fish spawning
- Macroflora and fauna abundance
- Riparian vegetation and logs

The MRC will continue implementation of this grant study in 2016.

New Project Ideas:

- Ocean Acidification Outreach
- Develop Spill Response Guidance Plans for Resource Managers
- Puget Sound Starts Here Campaign
- Recreational Fisheries Education
Recommendations to the Snohomish County Executive & Council

The Snohomish County Marine Resources Advisory Committee presents the following recommendations for consideration by the Snohomish County Council and Executive. These include actions that Council and/or the Executive can take, in addition to general support of the current MRC work program. The MRC welcomes further discussion of these recommendations.

Primary Recommendations

1. Support hiring additional MRC staff to assist the MRC. The MRC has requested that SWM fund a part time staff member to support the MRC workplan.

2. Maintain dedicated, stable funding sources and staff for the Marine Resources Advisory Committee.

3. Support the Nearshore Beach Restoration Project for enhancement of the marine nearshore between the Cities of Mukilteo and Everett. Continue partnership with the City of Everett, the Port of Everett, and other landowners to implement project.

4. Support and fund the efforts of the Parks Department and the MRC to restore nearshore habitat at Meadowdale Park.

5. Encourage implementation of the strategies developed in the Port Susan Marine Stewardship Area Conservation Action Plan.

6. Engage with MRC Members in relevant marine conservation issues in which they can provide expertise.

7. Authorize the County and MRC to implement an incentives program as described in the Futurewise report to reduce shoreline armoring in the County.

8. Support, encourage, and fund nearshore habitat restoration capital projects, especially softshore demonstration projects.

Additional Recommendations

Public Involvement and Education

1. Continue to encourage citizen involvement in marine resource monitoring and protection opportunities.

2. Promote and expand partnerships with agencies, tribes, municipalities, universities, community colleges, non-profit organizations and citizen groups.

Dungeness Crab Stewardship/Derelict Gear Removal

1. Support the efforts of the NWSI to complete the removal of derelict fishing gear in local waters including participation in the NWSF Strategic Crab Pot Advisory Committee.

2. Support efforts of the MRC to implement education and outreach projects to reduce recreational crab pot loss in Snohomish County waters using social marketing concepts.

3. Encourage and facilitate partnerships with agencies, tribes, municipalities, universities, community colleges, non-profit organizations and citizen groups to protect and restore Dungeness crab habitat.
Nearshore Habitat Protection and Restoration

1. Acknowledge and begin to address the impact of climate change and anticipated sea level rise on marine resources.

2. Support restoration projects led by project partners in Snohomish County such as Mukilteo Tank Farm, Qwuloolt, Mid-Spencer, Blue Heron Slough, and Edmonds Marsh.

3. Support partnerships targeted to protect and restore marine shoreline habitat, and encourage private ownership participation in these activities.

4. Ensure marine shoreline development projects in Snohomish County are coordinated with respect to mitigation of comprehensive and cumulative effects on our shoreline and marine resources.

Marine Water Quality

1. Support the recommendations of the 2011 Oil Spill Preparedness and Response report and projects that will improve Snohomish County oil spill preparedness and response.

2. Monitor and support legislation that promotes a study of the risks associated with the increased transport of oil by rail along the Snohomish County shoreline.

3. Support continued mussel watch monitoring efforts through WDFW.

Regional Puget Sound Conservation Efforts

1. Continue to participate in the Puget Sound Partnership’s Local Integrating Organization Implementation Team to select Near-Term Actions for the 2015 PSP Action Agenda Update to improve the health of Puget Sound and enhance the quality of life for Snohomish County citizens.

2. Support the efforts of the Northwest Straits Marine Conservation Initiative and encourage the continuation of federal funding for this nationally recognized, locally driven program.
Acknowledgements

The accomplishments and current activities of the Snohomish County MRC depend on contributions from volunteers, Snohomish County staff members, and individuals from other organizations. Their interest and participation in MRC activities is greatly appreciated. We apologize for any omissions.

Snohomish County MRC Members
Paul Schlenger, Chair, Confluence
   Environmental Company, Fish Biologist and Marine Ecologist, Environmental Interest
Simon Geerlofs, Co-Vice Chair, Pacific Northwest National Laboratory, Marine Science and Policy Analyst, Conservation/Environmental Interest
Sarah Brown, College Instructor, Conservation and Environmental Interests
Paul Clampitt, Commercial Fisherman, Economic Interests
Mike Ehlebracht, Hart Crowser, Geochemist, Economic Interest
Brent Hackney, Brent Hackney Designs, Inc., Owner, Economic Interest
Bob Hillmann, City of Everett, Parks Department, Project Coordinator, Local Government
Thomas Hoban, Coast Commercial Properties, Real Estate Broker, Economic Interest
Lincoln Loehr, Environmental Consultant, Conservation/Environmental Interest
Keeley O’Connell, EarthCorps, Senior Restoration Ecologist, Conservation/Environmental Interest
Franchesca Perez, Co-Vice Chair, Stillaguamish Tribe, Marine Stewardship and Shellfish Program Manager, Local Tribal Government
Traci Sanderson, Environmental Scientist, Golder Associates, Economic Interest
Cathy Stanley, Tulalip Tribes, Shellfish Biologist, Local Tribal Government
Susan Tarpley, City of Edmonds Discovery Programs, Ranger-Naturalist, Environmental Interest

Snohomish County Marine Resources Program Staff
Kathleen Herrmann, Lead Staff
Alyson Rae, Program Assistant/Communications Specialist
Taylor McDowell, Program Assistant
Autumn Moore, Program Assistant

Public Involvement and Education Contributors
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Sally Lider, City of Edmonds
Suzi Wong-Swint, Snohomish County SWM
Stef Frenzl, Snohomish County SWM
Chrys Bertolotto and the WSU Snohomish County Extension Beach Watchers
Tristan Klesick, Klesick Family Farms
Kat Morgan, The Nature Conservancy
Dr. Terrie Klinger, University of Washington
Faith Haney, Transect Films
Casey Rice, NOAA
Ginny Broadhurst, NWSC
Caroline Gibson, NWSC
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Mike Ramsey, Salmon Recovery Funding Board
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Scott Moore, Snohomish County SWM
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Todd Zackey, Tulalip Tribes
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Hugh Shipman, Washington Department of Ecology
WSU Snohomish County Extension Beach Watchers

Marine Water Quality
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Mike Mickiewicz, Snohomish County Planning and Development Services
Rodney Rochon, Snohomish County Sheriff’s Department
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Mike Ehlebracht, Snohomish MRC
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Autumn Moore, Snohomish MRC Staff
Alyson Rae, Snohomish MRC Staff
Traci Sanderson, Snohomish MRC
Franchesca Perez, Stillaguamish Tribe, Snohomish MRC
Craig Wollam, WSU Beach Watcher
WSU Snohomish County Extension Beach Watchers
# Snohomish County Staff Members & Elected Officials

## Public Works Department, Surface Water Management Division

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gregg Farris, Interim Co-Director</td>
<td>Sean Edwards, Senior Planner</td>
</tr>
<tr>
<td>Karen Kerwin, Interim Co-Director</td>
<td>Scott Moore, Native Plant Steward</td>
</tr>
<tr>
<td>Ann Bylin, Planning Supervisor</td>
<td>Suzi Wong Swint, Senior Planner</td>
</tr>
<tr>
<td>Kathleen Herrmann, MRC Lead Staff</td>
<td>Frank Leonetti, Senior Habitat Specialist</td>
</tr>
<tr>
<td>Alyson Rae, Communications Specialist</td>
<td>Mike Rustay, Senior Habitat Specialist</td>
</tr>
<tr>
<td>Taylor McDowell, WCC IP</td>
<td>David Lucas, Engineer</td>
</tr>
<tr>
<td>Autumn Moore, WCC IP</td>
<td>Stef Frenzl, Communications Specialist</td>
</tr>
</tbody>
</table>

## Department of Parks and Recreation

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
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</thead>
<tbody>
<tr>
<td>Tom Teigen, Parks Director</td>
<td>Chris Mueller, Senior Planner</td>
</tr>
<tr>
<td>Sharon Swan, Senior Planner</td>
<td>Logan Daniels, Engineer</td>
</tr>
</tbody>
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## Snohomish County Executive 2015

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
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<tbody>
<tr>
<td>John Lovick</td>
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</table>

## Snohomish County Council 2015

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
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</thead>
<tbody>
<tr>
<td>Ken Klein - District 1</td>
<td>Terry Ryan - District 4</td>
</tr>
<tr>
<td>Brian Sullivan - District 2</td>
<td>Dave Somers, Chair - District 5</td>
</tr>
<tr>
<td>Stephanie Wright - District 3</td>
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</tbody>
</table>

## WSU Snohomish County Extension Beach Watchers

<table>
<thead>
<tr>
<th>Name</th>
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</thead>
<tbody>
<tr>
<td>Adrianne Lauman</td>
<td>Deanna Stiles</td>
<td>Joanne Rousslang</td>
<td>Mary Vanderway</td>
</tr>
<tr>
<td>Alex Ho</td>
<td>Debbie Werner</td>
<td>Jourdan Keith</td>
<td>Mauricio Calderon</td>
</tr>
<tr>
<td>Ani Williams</td>
<td>Denise Mannery</td>
<td>Joy Lynch</td>
<td>Melanie Wyffels</td>
</tr>
<tr>
<td>Annette Rosebrook</td>
<td>Diane Patterson</td>
<td>Judy Atkins</td>
<td>Melonique Riall</td>
</tr>
<tr>
<td>Barbara Keithly</td>
<td>Donna Bennett</td>
<td>Judy Ness</td>
<td>Michael Kyte</td>
</tr>
<tr>
<td>Bea Wilson</td>
<td>Donna Kinsey</td>
<td>Karen Siebrass</td>
<td>Nancy Engen</td>
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<tr>
<td>Bernie Busch</td>
<td>Donna Maupin</td>
<td>Kathy Konarzewski</td>
<td>Nancy Jo Cushman</td>
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<tr>
<td>Beverly Black</td>
<td>Douglas Cooper</td>
<td>Kathy Traugott</td>
<td>Pat Smith</td>
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<tr>
<td>Bill James</td>
<td>Doug Dailer</td>
<td>Larry Whatley</td>
<td>Patrick Deagen</td>
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<tr>
<td>Bill McLaughlin</td>
<td>Emma Rodriguez</td>
<td>Larry Burgher</td>
<td>Paul Granquist</td>
</tr>
<tr>
<td>Bob McCort</td>
<td>Fred Benedetti</td>
<td>Laura Milleville</td>
<td>Sandy Evans</td>
</tr>
<tr>
<td>Bobbi Cross</td>
<td>Fred Clark</td>
<td>Laura Schreiber</td>
<td>Scott Montgomery</td>
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<tr>
<td>Bobbie Constantine</td>
<td>Gail Dillaway</td>
<td>Laurel Nyquist</td>
<td>Shelley Byington</td>
</tr>
<tr>
<td>Brian Cleveland</td>
<td>Gary Harshman</td>
<td>Lee Kimmelman</td>
<td>Stefan Dittmar</td>
</tr>
<tr>
<td>Bruce Bennett</td>
<td>Georgeann</td>
<td>Leslie Rafael</td>
<td>Steve Bennett</td>
</tr>
<tr>
<td>Carol Forsberg</td>
<td>Silverman</td>
<td>Lincoln Loehr</td>
<td>Susan Stewart</td>
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<tr>
<td>Carol Winter</td>
<td>Harlen Forsberg</td>
<td>Linda Lambert</td>
<td>Thomas Murphy</td>
</tr>
<tr>
<td>Charlie Stewart</td>
<td>Heidi Smith</td>
<td>Linda Whatley</td>
<td>Tim Ellis</td>
</tr>
<tr>
<td>Chris Betchley</td>
<td>Hugh Matheson</td>
<td>Lisa Parkinson</td>
<td>Tom Hoban</td>
</tr>
<tr>
<td>Christine Longdon</td>
<td>Ila Osburn</td>
<td>Liz Heisler</td>
<td>Trish Mayfield</td>
</tr>
<tr>
<td>Chuck LoPresti</td>
<td>Janet Loehr</td>
<td>Lucinda Diann</td>
<td>Ursula Gallagher</td>
</tr>
<tr>
<td>Craig Wollam</td>
<td>Jayne Vaughan-Ellis</td>
<td>Lynn Lichtenberg</td>
<td>Veda Rosier</td>
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<tr>
<td>Darla Gay Smith</td>
<td>Jerry Anderson</td>
<td>Lynn McCort</td>
<td>Wendy Oresik</td>
</tr>
<tr>
<td>Dave Compton</td>
<td>Joan Douglas</td>
<td>Margarita Molina</td>
<td></td>
</tr>
</tbody>
</table>
MRC members and staff participated in the following training sessions in 2015:

- **LIO Implementation Subcommittee Meeting**  
  January 27, 2015  
  Attendees: Tom Hoban

- **Sound Waters**  
  February 6, 2015  
  Attendees: Bob Hillmann, Lincoln Loehr, Alyson Rae

- **Oil Spill Workshop**  
  February 26, 2015  
  Attendees: Kathleen Herrmann and Mike Ehlebracht

- **Volunteer Management Training**  
  March 6, 2015  
  Attendees: Kathleen Herrmann, Alyson Rae

- **Workshop for Marine Shoreline Landowners (Stanwood)**  
  March 28, 2015  
  Attendees: Kathleen Herrmann, Alyson Rae, Traci Sanderson, Tom Hoban

- **Meadowdale Beach Park Feasibility Study Community Stakeholder Meeting**  
  April 20, 2015  
  Attendees: Kathleen Herrmann, Taylor McDowell

- **LIO Implementation Subcommittee Meeting**  
  April 28, 2015  
  Attendees: Tom Hoban

- **LIO Implementation Subcommittee Meeting**  
  May 26, 2015  
  Attendees: Tom Hoban

- **Mukilteo Town Hall Meeting on Oil and Coal Train Safety**  
  May 27, 2015  
  Attendees: Susan Tarpley, Lincoln Loehr, Mike Ehlebracht

- **Green Shores for Homes Workshop**  
  June 11-12, 2015  
  Attendees: Kathleen Herrmann (June 11), Traci Sanderson (June 12)

- **LIO Implementation Subcommittee Meeting**  
  June 30, 2015  
  Attendees: Tom Hoban
• **NWSF Presentation Training**  
  June 4 & 18, 2015  
  Attendees: Taylor McDowell

• **NOAA Project Design and Evaluation Training**  
  June 22-23, 2015  
  Attendees: Alyson Rae, Taylor McDowell

• **Kayak Safety Training**  
  June 30, 2015  
  Attendees: Taylor McDowell

• **Speed Crabbing Derby**  
  July 11, 2015  
  Attendees: Kathleen Herrmann, Alyson Rae, Mike Ehlebracht

• **Port Susan Bay Day**  
  August 1, 2015  
  Attendees: Kathleen Herrmann

• **LIO Implementation Subcommittee Meeting**  
  August 3, 2015  
  Attendees: Tom Hoban

• **NWSF Derelict Gear Celebration**  
  August 13, 2015  
  Attendees: Kathleen Herrmann, Alyson Rae, Taylor McDowell, Lincoln Loehr, Paul Clampitt, Sarah Brown, Traci Sanderson, Tom Hoban

• **SHARP Advisory Team Conference Call**  
  August 31, 2015  
  Attendees: Taylor McDowell and Paul Schlenger

• **Seascape Ecology Conference**  
  September 8, 2015  
  Attendees: Kathleen Herrmann

• **Nearshore Project Web Ex Meeting**  
  October 16, 2015  
  Attendees: Kathleen Herrmann

• **Port Susan Bulkhead Removal Workshop**  
  October 17, 2015  
  Attendees: Kathleen Herrmann, Autumn Moore

• **Title IV Training**  
  October 22, 2015  
  Attendees: Alyson Rae
• **Nearshore Project Conference Meeting**  
  October 28, 2015  
  Attendees: Kathleen Herrmann

• **Puget Sound Partnership Science Panel**  
  October 28, 2015  
  Attendees: Kathleen Herrmann, Autumn Moore, Traci Sanderson

• **Sound Living: One Day Communiversity**  
  October 31, 2015  
  Attendees: Kathleen Herrmann, Autumn Moore, Mike Ehlebracht

• **Crab Pot Escapement Study Data Release**  
  November 2, 2015  
  Attendees: Kathleen Herrmann, Alyson Rae, Tom Hoban, Paul Clampitt, and Mike Ehlebracht

• **NWSC Annual MRC Conference**  
  November 6-7, 2015  
  Attendees: Cathy Stanley, Franchesca Perez, Kathleen Herrmann, Keeley O’Connell, Alyson Rae, Paul Schlenger, Bob Hillmann, Simon Geerlofs, Susan Tarpley, Mike Ehlebracht, Thom Hoban

• **NWSC Kelp Monitoring Workshop**  
  December 5, 2015  
  Attendees: Autumn Moore, Traci Sanderson, Lincoln Loehr

• **Meadowdale Nearshore Restoration WebEx Conference Meeting**  
  December 8, 2015  
  Attendees: Kathleen Herrmann

• **Meadowdale Nearshore Restoration Follow-Up Meeting**  
  December 11, 2015  
  Attendees: Kathleen Herrmann

• **Derelict Gear Removal Conference**  
  December 15, 2015  
  Attendees: Kathleen Herrmann, Autumn Moore, Paul Clampitt