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CONFLUENCE
ENVIRONMENTAL COMPANY

# KELLY MUETHING

*Staff Scientist*

Kelly recently graduated with a Master's of Science in Marine Resource Management. She has a strong foundation in the biology and ecology of marine ecosystems. From her involvement in a wide variety of science and research endeavors, Kelly has experience in aquaculture and eelgrass, estuarine field sampling, taxonomic identification, standardized sampling, and data collection. She also uses GIS for data management, analysis, and mapping of natural resources. Kelly is also familiar with state and federal regulations surrounding marine resource management. Kelly excels at communicating science to the public in an accessible manner.

## Representative Projects

**Quilcene Bay Mussel Raft Expansion Project Regulatory Compliance, Penn Cove Shellfish, LLC, Coupeville, WA.** *Staff Scientist*. Reviewed and organized public comments concerning the mussel expansion project. Assisted with responding to these comments regarding selected biological and environmental issues as part of a final report to aid in the permitting process.

**18827 Yew Way Delineation and Permitting, United Recycling and Container, Snohomish, WA.** *Staff Scientist*. Conducted investigations to determine the ordinary high water mark (OHWM) of Evans Creek to assist with permitting of a project to place a pre-fabricated bridge over the stream. Following the fieldwork, used GIS tools to develop a map as part of a letter report documenting the OHWM to be submitted to Washington Department of Fish and Wildlife as supporting documentation of the SEPA checklist and Hydraulic Project Approval application.

**Nearshore Acquisition Strategy Development, Whidbey Camano Land Trust.** *Staff Scientist*. The project is to develop a science-based prioritization of shoreline parcels in Water Resource Inventory Area (WRIA) 6 (Island County) for use in acquiring parcels for conservation (and associated restoration, where applicable) of nearshore and estuarine processes and in aiding the recovery of salmonid populations that use the nearshore areas of WRIA 6. Assisting with compiling a geodatabase of parcels and relevant data sets to support the prioritization. Using this spatial data, developing a framework to prioritize parcels to inform future conservation and restoration efforts.

**Marine Mammal Stranding Network, SeaDoc Society, Orcas Island, WA.** *Intern*. Helped manage a busy marine mammal stranding network in a county with 407 miles of shoreline. Used small boat or vehicle to respond to calls about stranded pinnipeds, assess animal, and plan for rehabilitation, necropsy, or tagging of animal. Educated the public on marine mammal natural history and stranding response.

**Oyster Aquaculture Research, U.S. Department of Agriculture Research Service at Oregon State University, Newport, OR.** *Faculty Research Assistant*. Participated in fieldwork related to presence of oyster aquaculture in Pacific Northwest estuaries. Work required small boat use and sampling of fish, invertebrates, and seagrass in the intertidal zone. Organized necessary field equipment and materials to plan for field research trips. Assisted in post-processing and analysis of data (including use of R, ArcGIS, and Microsoft Access).

### EDUCATION

M.S., Marine Resource Management, Oregon State University, Corvallis, 2018
B.A., Environmental Biology; Minor: Anthropology, Washington University, St. Louis, 2014

### EXPERTISE

Marine Biology
Estuarine Ecology
Shellfish Ecology
Marine Plant Ecology
Data Collection and Analysis
Standardized Sampling
Quantitative Analysis using R, ArcGIS, and Microsoft Access
Statistics

### AFFILIATIONS

National Shellfisheries Association, student member