

Expertise Wetland Delineation and Evaluation
Wetland and Riparian Restoration
Plant Community and Wildlife Habitat Characterization
Endangered, Threatened, and Sensitive Plant Species Survey

Years of Experience 8

Education MS, Environmental Science, University of Washington, 1998
BS, Natural Resources, Cornell University, 1991

Experience Mr. Mazer has over 8 years of experience as a wetland ecologist. He has designed and managed wetland and riparian restoration and enhancement projects, performed field surveys for vegetation and wildlife species, and conducted wetland delineations and evaluations.

Wetland Delineation

- ARCO Cherry Point Refinery, Whatcom County, Washington.** Delineated wetlands along two alternate 1.7-mile long routes for proposed sewage pipeline construction. Supervised two assistant wetland biologists during the delineation.
- Mooring Property, King County, Washington.** Delineated wetlands using routine method within a 13-acre site proposed for residential home construction. Composed mitigation plan for wetlands to compensate for proposed impacts.
- Goldendale Energy Project, Goldendale, Washington.** Delineated wetlands within a 45-acre site proposed for power plant construction and along a 5-mile long corridor proposed for natural gas pipeline installation. Supervised one assistant wetland biologist during the delineation.
- Sumas Energy 2 Generation Facility, Whatcom County, Washington.** Delineated numerous wetlands along construction corridors for a proposed 230 kV transmission line, sewer pipeline, and natural gas pipeline. Rated each wetland according to the Department of Ecology's Washington State Wetland Rating System – Western Washington.
- Muckleshoot Indian Reservation, King County and Pierce County, Washington.** Delineated wetlands on reservation as part of impact assessment for proposed amphitheater construction project. Also delineated wetlands on a 2-acre parcel that may be sold to a separate entity.
- Zaradnick Property, Snohomish County, Washington.** Delineated wetlands using comprehensive method within a 20-acre site proposed for residential home construction.
- Chapman and Hackspiel Properties, Duvall, Washington.** Delineated wetlands within a 2-acre parcel proposed for residential home construction.
- Mount Rainier National Park, Washington.** Ground-truthed National Wetland Inventory maps for wetland location and type according to the Classification of Wetlands and Deepwater Habitats of the United States (Cowardin et al. 1979). Identified vascular plants, including many Carex and grass species. Supervised volunteer assistants during extensive field work in remote areas.

- ❑ ***Headwaters Ecology, Jackson, Wyoming.*** Acted as project manager for Headwaters Ecology, a small consulting firm located in Jackson, Wyoming from June 1992 to September 1993. Identified geographic extent and general character of wetlands within western Wyoming and southeast Idaho on client properties. Composed wetland reports and assisted in consulting clients.

Restoration/Enhancement

- ❑ ***Idaho Department of Transportation, Coeur D'Alene, Idaho.*** Currently designing compensatory mitigation for expansion of a 40-mile segment of interstate highway in Boundary County, Idaho. An 800-m long section of Round Prairie Creek and its adjacent floodplain wetland will be restored and enhanced as compensation for proposed wetland impacts. Restoration will involve creating stream back channels and sloughs that are semi-permanently to permanently inundated. The portion of Round Prairie Creek within the property will be redirected from the existing ditches to its historic channel and in-stream modifications will occur to reduce flow velocity and improve fish habitat. Non-native vegetation will be removed from the wetland and replaced with native forested, scrub-shrub, and emergent herbaceous plant communities.
- ❑ ***ARCO Cherry Point Refinery, Whatcom County, Washington.*** Designed, acquired permits for, and currently supervising the restoration of a 4.8-acre degraded wetland. The restoration plan includes removing nonnative, invasive plants by mechanical and chemical means. Flow from a nearby ditch will be diverted to a 1-acre seasonally inundated pond that will be excavated within the mitigation wetland. A variety of native plant communities including wetland forest, mesic forest, scrub-scrub, and emergent herbaceous communities will be established across the site. The restoration will improve wetland's ability to perform ecological functions including providing habitat for native aquatic and wetland-dependent organisms.
- ❑ ***Longfellow Creek Habitat Improvement Project – Yancy Section, City of Seattle, Washington.*** Revised riparian planting plan for a 900-foot long section of a degraded urban stream that supports anadromous salmonids. Modified soil amendments and planting mixes to improve likelihood of establishment success. Supervised implementation of riparian habitat improvements.
- ❑ ***Energy Northwest, Thurston County and Grays Harbor County, Washington.*** Currently coordinating off-site compensatory mitigation for a proposed 48-mile natural gas pipeline construction project. Compensatory mitigation involves acquisition and restoration of 20-25 acres of degraded wetlands.
- ❑ ***Little Bear Creek, Woodinville, Washington.*** Designed bank stabilization of a reach that contains Puget Sound chinook salmon, a federally endangered species, as well as other salmonid species. Proposed a work plan to place large woody debris with root wads along the toe of an eroding slope to prevent further erosion during peak flows and create cover and resting locations for salmonids.
- ❑ ***Kajiya Property, King County, Washington.*** Helped design the restoration of stream and wetland habitat along Weiss Creek to enhance fish and wildlife habitat. The plan includes removal of four culverts to restore wetland and stream hydrology and the removal of non-native plant species to enhance establishment of installed native species.

- ❑ ***Saybrook Estates, King County, Washington.*** Designed and directed the retrofit of three biofiltration swales, vegetated stormwater facilities intended to improve runoff water quality. Retrofit included replacing soils, recontouring, and seeding with turf grasses adapted to the expected conditions. Retrofit success and factors affecting biofiltration swale treatment performance were intensively monitored as part of master's thesis research.

Biological Survey

- ❑ ***Kosciusko and Tuxecan Islands, Tongass National Forest, Alaska.*** Performed rare plant surveys on several proposed timber sale units. Identified and estimated abundance of all vascular plant species located in the units. Assessed plant community types according to the classification system used by the Ketchikan District of the Tongass National Forest. Mapped survey course on USGS topographic maps.
- ❑ ***Chichagof, Deer, and Kosciusko Islands, Tongass National Forest, Alaska.*** Performed stream surveys on several proposed timber sale units. Assessed geomorphologic character of streams and categorized streams according to classification system used by the Tongass National Forest. Mapped stream courses on USGS topographic maps.
- ❑ ***Goldendale Energy Project, Goldendale, Washington.*** Conducted a rare plant survey along a 9.2-mile long corridor proposed for installation of 230 kV electrical transmission line. Identified vascular plant species and characterized plant community types.
- ❑ ***Swan Creek, Tacoma, Washington.*** Investigated 20-acre area encompassing Swan Creek, a degraded salmon-bearing stream. Characterized a multitude of habitats including riparian forest, emergent and aquatic bed wetlands, and upland forest buffer to assess their restoration potential. Designed restoration and planting plan for each of the degraded habitats.
- ❑ ***Olympic View Sanitary Landfill, Kitsap County, Washington.*** Conducted study of an approximately 130-acre wetland adjacent to a landfill. Monitored water level changes and surveyed vegetation and amphibian species richness and relative abundance. Prepared a report identifying wetland ecological condition and functions and assessing impacts to the wetland flora and fauna from landfill stormwater runoff.
- ❑ ***Puget Sound Wetlands and Stormwater Monitoring Project, King County, Washington.*** Assessed 19 separate wetland sites across King County for bird and vegetation species richness, vegetation cover, and soil type
- ❑ ***Helena and Lewis & Clark National Forests, Montana.*** Identified birds by sight and sound upon for the US Forest Service Region 1 Neotropical Migratory Bird Survey. Recorded vegetation species composition and habitat physiognomy. Worked independently and with a small crew for long periods in remote areas.

Affiliations

Society of Wetland Scientists
Society for Ecological Restoration
Washington Native Plant Society

