

**Statement of Qualifications
Natural Resource Conservation Engineering Services
Whidbey Island Conservation District**

Organization Identification

Whidbey Island Conservation District
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Summary of Services

Whidbey Island Conservation District (WICD) offers civil and environmental engineering services for soil, water and habitat conservation projects on Whidbey Island. We work with private landowners, non-government organizations, and tribal and local government agencies to provide assistance with project planning, feasibility studies, engineering design, permitting and construction management on projects that help conserve natural resources. In some situations, we also can assist in obtaining grant funding for project construction.

WICD, like all Washington conservation districts, is a political subdivision of Washington State. Our engineering program is funded through grants from state agencies and project-specific funding sources. We also work under inter-local agreements with local government agencies. WICD's engineering program works in coordination with and shares resources with our counterpart conservation districts in Skagit, San Juan and Whatcom counties.

WICD's engineering services program specializes in designing and permitting wetland, nearshore and stream habitat restoration and enhancement projects. Our recent projects have included:

- stream channel design
- removing culverts and small dams to improve fish passage
- removing shoreline armoring and restoring natural beaches
- modification of tide gates to allow tidal flow and fish passage
- bioengineered stormwater management facilities
- bioengineered bank and shoreline stabilization

For these projects, we typically carry out the following in-house engineering tasks:

- basic hydrologic and hydraulic engineering evaluation
- topographic surveying of channel profiles and cross sections
- channel and shoreline geomorphologic field evaluations,
- engineering design and cost estimating
- preparation of permit applications
- preparation of engineering drawings and construction specifications

Whidbey Island Conservation District Engineering Program

Selected Recent Natural Resource Conservation Engineering Projects

Cornet Bay Bulkhead Removal and Beach Restoration

North Whidbey Island, 2012

Worked with Deception Pass State Park, Northwest Straits Foundation and Island Co. MRC to design, permit and construct a project that removed 900 feet of creosote timber bulkhead and artificial shoreline fill at a popular park and replaced them with a gravel beach and landscaped backshore that resembled nearby natural “reference” conditions. Included “daylighting” three small creeks from storm drains and building footpaths to improve public beach access. Project cost approx. \$200,000.



Skagit Forks Off-Channel Habitat Restoration

Skagit County, 2009 ongoing

Currently working with Washington Dept. of Fish and Wildlife to plan and design a suite of projects to reactivate relict side channels of the Skagit River at WDFW’s Skagit Wildlife Area, for the purpose of restoring critical rearing habitat for out-migrating juvenile Chinook salmon. The project involves engineering design and coordinating inputs from technical consultants, agency staff and several, diverse stakeholder organizations.



Lake Terrell Dam Removal and Creek Restoration

Whatcom County, 2012

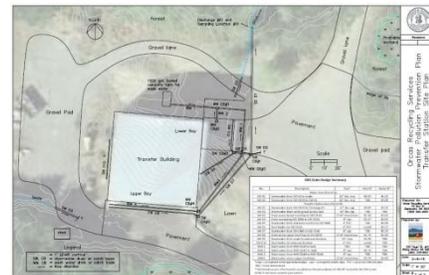
Worked with WDFW and the Nooksack Salmon Enhancement Association to restore fish passage and habitat for chum and coho salmon in Terrell Creek by removing a 1950s-era impoundment dam and constructing 600 lineal feet of new channel, a new water control structure, large wood habitat structures and riparian planting. Project cost approx. \$125,000.



Orcas Recycling Services SWPPP

Orcas Island, 2014 ongoing

Worked with a start-up company that took over operation of Orcas Island’s solid waste transfer station and community recycling center to develop a stormwater pollution prevention plan (SWPPP). The ongoing work has included operationalizing WDOE stormwater monitoring and reporting requirements, consolidating stormwater outfalls and designing operational and structural “best management practices” for reducing pollutants in stormwater runoff from the site.



Island County Government Annex Building Rain Garden
Coupeville, 2008

Using WDOE grant funding, designed and constructed a rain garden to treat and infiltrate runoff from a parking lot at the Island County Government Annex Building. The project location outside of the county permitting office building serves as a high-profile example of “low impact development” techniques for improving stormwater runoff quality. Project cost \$20,000.



Howard Miller Steelhead Park Stream Channel Restoration
Skagit County, 2012

Worked with Skagit Fisheries Enhancement Group and Skagit County Parks Department to design and permit channel grading and large wood habitat structures for reactivating a relict side channel of the Skagit River and restoring the channel of a tributary creek at a large county park. Project supported the goal of restoring ESA-listed Chinook salmon rearing habitat. Project cost \$273,000.



Crescent Harbor Salt Marsh Restoration

Oak Harbor, 2007 - 2009

Worked with the Skagit River System Cooperative and Naval Air Station Whidbey Island to design and permit a suite of projects to restore tidal connectivity into approx. 200 acres of the Crescent Harbor salt marsh. Projects included tidal channel construction, breaching of dikes, and rerouting utilities associated with the City of Oak Harbor’s wastewater treatment plant, which is located at the site.



Whatcom DID#2 / Schneider Ditch Floodgate Retrofit

Whatcom County, 2008

Designed and obtained construction grant funding for retrofitting two aging conventional floodgates with an innovative floodgate design that allows upstream fish passage while protecting surrounding agricultural land from flooding. The design specified a proprietary “muted tidal regulated” control system that keeps the gates open at low water levels, but allows them to function as conventional floodgates when rising river stage backwaters the upstream channel. Cost approx. \$45,000.



Samish River Bioengineered Bank Stabilization

Skagit County, 2007

Worked with a private landowner to design, permit and construct an innovative bioengineered bank stabilization project along the Samish River. The design featured floating large wood debris deflectors that dissipate flow energy against the bank as the river stage rises and falls. Project cost approx. \$10,000.

