



FWCP Coastal Region 2022–2023 Project List

| # | Project ID | 2022–2023 Grant-based Fish Projects | Project Lead | FWCP Funding | Project Type | Action Plan Alignment | Watershed |
|---|----------------|--|--------------------------------------|--------------|-----------------------|----------------------------|--------------------------|
| 1 | COA-F23-F-3719 | <p>Improving salmon habitat in the Alouette River Watershed</p> <p><i>Alouette River Salmonid Habitat Rejuvenation Project:</i> This project will focus on up to five salmon habitat projects in the Alouette River Watershed. Each salmon habitat area was developed within the last three decades to support spawning or rearing life stages.</p> <p>On-the-ground works include removing sediment from the channels, adding spawning gravel, removing invasive reed canary grass, and upgrading a beaver box (which is used to deter beavers), a pipe, and a culvert to improve flows.</p> | Alouette River Management Society | \$81,547 | Habitat-based Actions | Rivers, Lakes & Reservoirs | Alouette River Watershed |
| 2 | COA-F23-F-3705 | <p>Training habitat stewards</p> <p><i>Fish Habitat Stewardship Workshops—Coastal:</i> These workshops teach volunteers appropriate enhancement techniques for different habitat types, project planning skills, and habitat stewardship.</p> <p>Volunteers will gain the skills needed to become riparian stewards in their own backyards. They will be equipped to help restore valuable fish and wildlife habitat based on ecologically informed decisions.</p> | British Columbia Wildlife Federation | \$5,846 | Habitat-based Actions | Rivers, Lakes & Reservoirs | Alouette River Watershed |



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| 3 | COA-F23-F-3678 | <p>Evaluating habitat restoration sites in the Campbell River Watershed</p> <p><i>Campbell River: Habitat Project Effectiveness Monitoring:</i> This Seed Grant project will assess the condition and effectiveness of existing habitat enhancement projects on the lower Campbell River.</p> <p>A field crew will visit each habitat restoration site on the river to assess the effectiveness of the project compared to the original objectives.</p> <p>Identifying and evaluating potential deficiencies can help inform future projects aimed at optimizing and restoring the habitat.</p> | British Columbia Conservation Foundation | \$4,977 | Habitat-based Actions | Rivers, Lakes & Reservoirs | Campbell River Watershed |
| 4 | COA-F23-F-3732 | <p>Improving spawning habitat in the upper Campbell River</p> <p><i>Upper Campbell River Bulk Gravel Feasibility:</i> This project will help determine the feasibility of large-scale bulk spawning gravel additions in the upper Campbell River.</p> <p>The project will encompass a detailed engineering feasibility assessment and will engage key stakeholders (e.g., landowners and the Campbell River Gravel Committee).</p> | British Columbia Conservation Foundation | \$59,050 | Habitat-based Actions | Rivers, Lakes & Reservoirs | Campbell River Watershed |



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| 5 | COA-F23-F-3713 | <p>Applying eco-cultural restoration techniques in the Campbell River estuary</p> <p><i>Eco-cultural Restoration of the Campbell River Estuary:</i> This multi-year eco-cultural restoration project builds on recent restoration efforts in the Campbell River estuary and will reduce erosion and provide greater resiliency during peak flows.</p> <p>Indigenous fish weir techniques will be used to protect and restore vital estuary sedge marsh habitat. Alder and willow fencing will help exclude Canada geese from the site and protect the tidal channel-edge habitat. Sites will be prepared for transplanting <i>Carex lyngbyei</i> (Lyngbye’s sedge).</p> | Guardians of Mid-Island Estuaries Society | \$51,838 | Habitat-based Actions | Rivers, Lakes & Reservoirs | Campbell River Watershed |
| 6 | COA-F23-F-3670 | <p>Improving flows and habitat for salmon</p> <p><i>Cheakamus Centre Off-channel Habitat & Intake Upgrades Year 2:</i> This project will continue work started in 2021 to clean up and remove sediment from the Gorbuscha water intake and channels, replace the intake, and monitor downstream channels to ensure functional off-channel habitat operations.</p> <p>The off-channel habitat on the lands of the Cheakamus Centre/School District #44 is vitally important to the survival of coho, chum, and pink salmon populations. Steelhead salmon depend on off-channel habitat away from the mainstem flows of the Cheakamus River for spawning, rearing, and overwintering habitat.</p> | Cheakamus Foundation for Environmental Learning | \$132,990 | Habitat-based Actions | Rivers, Lakes & Reservoirs | Cheakamus River Watershed |



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| 7 | COA-F23-F-3643 | <p>Improving fish passage in the Cheakamus River Watershed</p> <p><i>Phase 2: Squamish Estuary Lower Training Berm Modification:</i> This multi-year project is focused on the restoration of declining Chinook salmon populations in the Salish Sea and reconciliation with the Squamish Nation on the loss of their historic village and lands within the estuary.</p> <p>A berm constructed in the estuary in the 1970s, without the engagement of the Squamish Nation, is impeding fish passage. This phase of the project will modify the berm to significantly restore access to more than 144 hectares of estuarine habitat to out-migrating juvenile salmonids, with a focus on Chinook salmon.</p> | Squamish River Watershed Society | \$415,220 | Habitat-based Actions | Rivers, Lakes & Reservoirs | Cheakamus River Watershed |
| 8 | COA-F23-F-3709 | <p>Using technology to improve fish passage</p> <p><i>Coquitlam River Floodgate and Salmon Passage Year 2:</i> This multi-year project will use fish tracking technology to assess juvenile salmon passage at three floodgates installed in the Coquitlam River Watershed.</p> <p>This work will compare fish movement relative to floodgate openings and investigate how gate operation can improve passage. Results will ultimately increase understanding of how and where automated floodgates can be used to benefit salmon species in the Fraser River Watershed.</p> <p>The automated floodgate was installed on a Coquitlam River tributary to allow fish passage and enhance over three kilometres of crucial salmon habitat. There is evidence, however, that it is not allowing fish passage during the crucial time when juvenile salmon are seeking refuge and overwintering on their migration to the Pacific Ocean.</p> | MakeWay Charitable Society | \$69,190 | Habitat-based Actions | Rivers, Lakes & Reservoirs | Coquitlam-Buntzen Watershed |



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| 9 | COA-F23-F-3692 | <p>Creating high-quality fish habitat in the Jordan River</p> <p><i>Lower Jordan River Side Channel Development: Year 2:</i> The goal of this project is to create a tributary and groundwater-fed side channel on the left side of Reach 1 of the Jordan River.</p> <p>This will provide high-quality rearing and overwintering habitat for coho salmon and searun cutthroat trout. The channel will also provide spawning habitat for several species, including chum.</p> | Pacheedaht First Nation | \$61,559 | Habitat-based Actions | Rivers, Lakes & Reservoirs | Jordan River Watershed |
| 10 | COA-F23-F-3707 | <p>Restoring riparian habitat in the Puntledge River Watershed</p> <p><i>Kus-kus-sum: Unpaving Paradise Year 2:</i> This multi-year project on the Kus-kus-sum conservation lands will focus on removing a steel-cladded retaining wall bordering the Courtenay River and restoring a decommissioned sawmill site back to its pre-disturbance state.</p> <p>The restoration of this former sawmill site is a collaboration between the K'ómoks First Nation, the City of Courtenay, and the Comox Valley Project Watershed Society. This site is part of a salmon migratory corridor for the Puntledge River and Tsolum River watersheds and is of cultural importance to the K'ómoks First Nation.</p> <p>Year 2 of the restoration work will include extensive earth excavation, re-grading, channel creation, topsoil introduction, and native species planting.</p> | Comox Valley Project Watershed Society | \$175,527 | Habitat-based Actions | Rivers, Lakes & Reservoirs | Puntledge River Watershed |



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| 11 | COA-F23-F-3677 | <p>Improving salmon access and flows in the Forbidden Plateau channel</p> <p><i>Forbidden Plateau Channel Upgrades to Improve Salmon Access:</i> This Seed Grant project will review and inspect the state of existing infrastructure and develop designs to increase and maintain water flows into the Forbidden Plateau channel.</p> <p>The project aims to attract and increase the presence of adult salmon in the channel. A design and construction plan report will be provided.</p> | M. Sheng Consulting | \$5,000 | Habitat-based Actions | Rivers, Lakes & Reservoirs | Puntledge River Watershed |
| 12 | COA-F23-F-3712 | <p>Applying eco-cultural restoration techniques in the Puntledge River Watershed</p> <p><i>Eco-cultural Restoration of the K'omoks Estuary Year 3:</i> This project will focus on restoration efforts led by the Guardians of Mid-Island Estuaries Society and the K'omoks First Nation Guardians.</p> <p>This project will include controlling overabundant populations of resident Canada geese, which threaten the success of restoration efforts by over-grazing remnant and restored habitat. Habitat restoration strategies utilize an eco-cultural approach based on a modification of traditional fish weir to construct fencing to physically exclude Canada geese from grazing marsh vegetation.</p> | Guardians of Mid-Island Estuaries Society | \$52,646 | Habitat-based Actions | Rivers, Lakes & Reservoirs | Puntledge River Watershed |



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| 13 | COA-F23-F-3667 | <p>Improving salmon stewardship in the Shuswap River Watershed</p> <p><i>Conservation of Shuswap River Chinook through Education:</i> This multi-year stewardship project aims to help protect Shuswap River Chinook by providing place-based, experiential education to thousands of local students.</p> <p>Salmon are a keystone species due to their importance in maintaining the health of ecosystems. Protecting salmon requires knowledge, awareness, and a passion for the species. Education is key, and this project helps to build compassion, promote action, protect fish, and preserve the Shuswap River Watershed.</p> | Kingfisher Interpretive Centre Society | \$11,785 | Species-based Actions | All | Shuswap River Watershed |
| Grant-based Fish Project Total: | | | | \$1,127,175 | | | |



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| 14 | COA-F23-W-3700 | <p>Growing endangered whitebark pine in the Bridge-Seton Watershed</p> <p><i>Whitebark Pine Recovery in the Bridge River Drainage:</i> White pine blister rust, mountain pine beetle, changes to fire regimes, and climate change have impacted whitebark pine, which is federally designated as Endangered.</p> <p>To combat this decline, seedlings from the healthiest trees will be planted in suitable areas, such as those impacted by wildfire. The region has moderate to high rust infection (>80%), and numerous areas have recently been burned by wildfire.</p> <p>This project will support natural regeneration through competition reduction and collecting seeds from healthy trees in highly infected areas. Outreach will be conducted with First Nations, the community, and industry.</p> | Moody Tree | \$48,150 | Species-based Actions | Upland & Dryland | Bridge-Seton Watershed |
| 15 | COA-F23-W-3637 | <p>Captive-raising Canada’s most endangered owl species</p> <p><i>Northern Spotted Owl Captive Breeding Program:</i> This multi-year project aims to prevent the extirpation of northern spotted owls in Canada by releasing captive-raised owls into areas protected for the species by the Province of B.C., including the Bridge-Seton River Watershed.</p> <p>The northern spotted owl is one of Canada’s most endangered birds, and its entire Canadian range occurs in southwestern B.C. Currently, fewer than five individuals remain in the wild in Canada.</p> | British Columbia Conservation Foundation | \$125,696 | Habitat-based Actions | All | Bridge-Seton Watershed |

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| 16 | COA-F23-W-3744 | <p>Restoring ecological function in the Campbell River estuary</p> <p><i>Restoring Ecological Function in the Campbell River Estuary Year 7:</i> This multi-year project aims to help restore ecological integrity and function in the Campbell River Watershed by managing invasive plants in the estuary, including yellow flag iris, purple loosestrife, and Japanese knotweed.</p> <p>In Year 7, this project will provide additional capacity for invasive species management, which will benefit fish and wildlife while protecting both the provincially Red-listed Henderson’s checkermallow-tufted hairgrass ecological community and Vancouver Island beggarticks, a species of Special Concern under the Species at Risk Act.</p> | Discovery Coast Greenways Land Trust | \$29,723 | Habitat-based Actions | Wetland & Riparian Areas | Campbell River Watershed |
| 17 | COA-F23-W-3742 | <p>Increasing habitat for at-risk owls and monitoring effectiveness</p> <p><i>Western Screech-owl Habitat Enhancement and Monitoring:</i> Nest boxes have been installed in the Campbell River Watershed for more than 15 years to benefit western-screech owls. This multi-year project will evaluate the effectiveness of this habitat enhancement effort and compare results with other initiatives.</p> <p>In addition, more nest boxes will be installed where habitat enhancement is required. Riparian and low-elevation forest inventory needs will be assessed through more surveys.</p> | Madrone Environmental Services Ltd. | \$12,550 | Habitat-based Actions | Wetland & Riparian Areas | Campbell River Watershed |



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| 18 | COA-F23-W-3675 | <p>Recovering endangered Vancouver Island marmots</p> <p><i>Translocating Vancouver Island Marmots to Strathcona Park 2022:</i> This project will support the transfer of between four and eight Vancouver Island marmots from Mount Washington into Strathcona Park. These additions will help re-established colonies persist while future recovery efforts continue.</p> <p>The marmot, which is federally designated as Endangered, is an endemic species that was extirpated from Strathcona Park in the 1990s. Reintroduction efforts have successfully established several marmot colonies in the park.</p> | Marmot Recovery Foundation | \$11,825 | Habitat-based Actions | Upland & Dryland | Campbell & Puntledge River Watersheds |
| 19 | COA-F23-W-3687 | <p>Evaluating white-nose syndrome mitigation options</p> <p><i>Developing and Evaluating Bat Mitigation Strategies Year 4:</i> This multi-year project will evaluate the use of a probiotic to reduce bat mortality caused by white-nose syndrome in colonies at Alice Lake, Stave Lake, and Colony Farm Regional Park in Coquitlam.</p> <p>If effective, this disease management strategy could inform mitigation efforts for bats across the province. This project will evaluate mitigation tools to reduce further impacts on bats, which face unprecedented threats, including white-nose syndrome.</p> | Wildlife Conservation Society Canada | \$59,206 | Habitat-based Actions | Upland & Dryland | Cheakamus, Coquitlam-Buntzen, Jones Creek and Wahleach Lake & Stave River Watersheds |



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| 20 | COA-F23-W-3710 | <p>Recovering western painted turtles</p> <p><i>Western Painted Turtle Recovery in Lower Mainland Watersheds:</i> The goal of this multi-year project is to support the recovery of the western painted turtle—B.C.’s only remaining native freshwater turtle species—in the Alouette, Coquitlam and Stave River watersheds.</p> <p>This project aims to increase populations by releasing head-started turtles, monitoring the populations’ recovery, providing essential habitat—such as basking features and nesting habitat—and monitoring the effectiveness of that habitat.</p> | British Columbia Conservation Foundation | \$135,715 | Species-based Actions | All | Alouette, Coquitlam-Buntzen & Stave River Watersheds |
| 21 | COA-F23-W-3745 | <p>Conserving critical riparian habitat in the Puntledge River Watershed</p> <p><i>Lower Perseverance Creek Corridor Project:</i> This project aims to secure a 19-hectare corridor of ecologically valuable and privately owned creek bed, riparian wetlands, and riparian forest in Lower Perseverance Creek in the Puntledge River Watershed.</p> <p>This corridor has been identified as a top priority for protection by the Comox Valley Land Trust, the K’ómoks First Nation, and the Cumberland Community Forest Society.</p> | Cumberland Community Forest Society | \$120,000 | Land Securement | All | Puntledge River Watershed |
| 22 | - | <p>Supporting community-based projects</p> <p><i>F23 Community Engagement Grants:</i> Our Coastal Region board approved funding for Community Engagement Grants.</p> <p>These grants of up to \$1,000 support multiple projects led by stewardship groups, First Nations, and others to benefit fish and wildlife.</p> | TBD | \$10,000 | - | - | - |
| Grant-based Wildlife Project Total: | | | | \$552,865 | | | |



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|----|------------|--|-----------------------------------|--------------|------------------------------------|----------------------------|-----------------------------|
| 23 | - | <p>Improving fish passage in the Alouette River Watershed</p> <p><i>Fish Passage Feasibility Study:</i> Our Coastal Region board has approved funds to support fish passage feasibility plans for the Alouette River based on the Fish Passage Decision Framework.</p> | Alouette River Management Society | \$25,000 | Species-based Actions | Rivers, Lakes & Reservoirs | Alouette River Watershed |
| 24 | - | <p>Improving fish passage in the Coquitlam-Buntzen Watershed</p> <p><i>Fish Passage Feasibility Study:</i> Our Coastal Region board has approved funds to support fish passage feasibility plans for the Coquitlam River based on the Fish Passage Decision Framework.</p> | Watershed Watch Salmon Society | \$25,000 | Species-based Actions | Rivers, Lakes & Reservoirs | Coquitlam-Buntzen Watershed |
| 25 | - | <p>Improving salmon spawning habitat in the Campbell River Watershed</p> <p><i>F23 Annual Campbell River Salmon Spawning Habitat Restoration Strategy (Post-storm Assessment):</i> Our Coastal Region board has approved funds to be directed toward assessing the condition of salmon spawning habitat in the Campbell River in the event of high winter storm flows.</p> <p>This aligns with the Campbell River Salmon Spawning Habitat Restoration Strategy.</p> | A-Tlegay Fisheries Society | \$15,000 | Research & Information Acquisition | Rivers, Lakes & Reservoirs | Campbell River Watershed |
| 26 | - | <p>Supporting Chinook in the Puntledge River Watershed</p> <p><i>Supporting Aquaculture and Summer Chinook in the Puntledge River Watershed:</i> Annual funding to the Puntledge River Hatchery provides support to summer Chinook production.</p> | Fisheries and Oceans Canada | \$17,000 | Species-based Actions | Rivers, Lakes & Reservoirs | Puntledge River Watershed |



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| 27 | - | <p>Adding nutrients to the Puntledge River Watershed</p> <p><i>Upper Puntledge River Watershed Chum Carcass Distribution:</i> This project will support the distribution of chum salmon carcasses from a hatchery into the upper Puntledge River Watershed.</p> <p>Their slow decomposition will contribute essential marine-derived nutrients and energy that will benefit the entire food web and sustain the production of fish and other salmon-dependent species within the watershed.</p> | Courtenay and District Fish & Game Protective Association | \$2,000 | Habitat-based Actions | Rivers, Lakes & Reservoirs | Puntledge River Watershed |
| 28 | - | <p>Developing a habitat assessment map</p> <p><i>Directed Watershed Habitat Assessment Mapping:</i> Our Coastal Region board has approved funds to be directed toward the implementation of habitat assessment mapping across the Coastal Region’s 14 watersheds.</p> | Province of B.C. | \$90,000 | Research & Information Acquisition | All | All |
| 29 | - | <p>F23 action plan update pilot project</p> <p><i>Implement a Pilot Project for the Habitat Assessment Mapping Tool:</i> Our Coastal Region board has approved funds to be directed toward a pilot action plan update.</p> <p>The project will help develop a consistent approach to using the habitat mapping assessment tool to support FWCP processes and action plans across all 14 watersheds.</p> | Ecofish Research Ltd. | \$30,000 | Research & Information Acquisition | All | TBD |



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| 30 | - | <p>Securing conservation lands in our Coastal Region</p> <p><i>Conserving Ecosystems and Habitats:</i> Our Coastal Region board has approved funds to be directed toward the future purchase of conservation lands.</p> | - | \$350,280 | - | - | - |
| Fish and Wildlife Directed Project Total: | | | | \$554,280 | | | |
| 2022–2023 PROJECT SPEND TOTAL: | | | | \$2,234,320 | | | |