



# FWCP Columbia Region 2023–2024 Project List

#	Project ID	2023-2024 Grant-based Fish Projects	Project Lead	FWCP Funding	Project Type	Action Plan Alignment	Sub-Region
1	COL-F24-F-3856	<p><b>Exploring habitat restoration for shore-spawning kokanee in Kootenay Lake</b></p> <p><i>Bonaventure Shore-Spawning Kokanee Habitat Restoration:</i> This project will explore the restoration of degraded shore-spawning kokanee habitat in the Bonaventure Lagoon along the north shore of the West Arm of Kootenay Lake, where spring dewatering impacts kokanee redds.</p> <p>An engineer will develop a restoration design, while outreach meetings are held with community members, and the work will be combined into a feasibility assessment and report.</p> <p>This Seed Grant will help inform possible restoration activities in 2024.</p>	Friends of Kootenay Lake Stewardship Society	\$5,000	Habitat-based Actions	Rivers & Riparian Areas	West Kootenay
2	COL-F24-F-3878	<p><b>Planning for restoration of a Kootenay Lake tributary</b></p> <p><i>Developing a Cottonwood Creek Enhancement Strategy:</i> This project will study the feasibility of restoring Cottonwood Creek near Nelson, which has been impacted by development and industrial activity.</p> <p>This Seed Grant project will consist of community engagement, a feasibility study, and a long-term strategic plan, which will determine how the creek can be transformed into a healthy, functioning ecosystem through riparian enhancement and habitat improvement.</p>	Living Lakes Canada	\$5,000	Habitat-based Actions	Rivers & Riparian Areas	West Kootenay
<b>Grant-based Fish Project Total:</b>				<b>\$10,000 (2 projects)</b>			



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3	COL-F24-F-DCA	<p><b>Exploring alternatives for fish monitoring in Kootenay Lake and Arrow Lakes Reservoir</b></p> <p><i>F24 Alternatives to Creel Survey and Bull Trout Redd Counts:</i> This study will investigate whether there are reasonable alternatives to a traditional creel survey and bull trout redd counts to monitor high trophic level piscivorous populations in Arrow Lakes Reservoir and Kootenay Lake.</p>	TBD	\$15,000	TBD	TBD	West Kootenay & Upper Columbia
4	COL-F24-F-DCA	<p><b>First Nations leading fisheries projects</b></p> <p><i>F24 First Nations-led Directed Fisheries Projects:</i> First Nations are identifying directed fisheries projects to lead and deliver in F24. All projects delivered will align with the FWCP’s Columbia Region action plans.</p>	Ktunaxa Nation, Syilx Okanagan & Secwepemc Nation	\$204,000	TBD	TBD	Basin-wide
5	COL-F24-F-DCA	<p><b>Ensuring sustainability of the Murphy Creek spawning channel</b></p> <p><i>F24 Murphy Creek Spawning Channel Monitoring and Maintenance Year 2 of 3:</i> The spawning channel supports the rainbow trout population in Murphy Creek, which feeds the resident Columbia River population.</p> <p>The maintenance of this spawning channel ensures quality spawning habitat is available for rainbow trout, and the monitoring of spawners will provide data to evaluate run size and population dynamics. This project is delivered in partnership with the Trail Wildlife Association.</p>	Syilx Okanagan	\$21,000	Habitat-based Actions	Rivers & Riparian Areas	West Kootenay
<b>Fish Directed Project Total:</b>				<b>\$240,000 (3 projects)</b>			



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#	Project ID	Annual and Ongoing Fish Projects	Project Lead	FWCP Funding	Project Type	Action Plan Alignment	Sub-Region
6	COL-F24-F-3793-DCA	<p><b>Adding nutrients to Arrow Lakes Reservoir</b></p> <p><i>F24 Arrow Lakes Reservoir Nutrient Restoration Program:</i> This ongoing restoration program addresses nutrient losses in Arrow Lakes Reservoir resulting from the construction of the Hugh L. Keenleyside, Mica, and Revelstoke dams.</p> <p>In this bottom-up approach, the addition of nutrients—nitrogen and phosphorus in the form of liquid agricultural-grade fertilizer—from April to September support phytoplankton populations that are suitable for the production of zooplankton, including daphnia, a main food source for kokanee.</p> <p>This project also includes the coordination and technical and operational oversight of monitoring several trophic levels, as well as data analysis and reporting.</p>	Province of B.C.	\$1,096,251	Habitat-based Actions	Reservoirs & Large Lakes	West Kootenay
7	COL-F24-F-3796-DCA	<p><b>Supporting the Hill Creek spawning channel on Arrow Lakes Reservoir</b></p> <p><i>F24 Hill Creek Spawning Channel:</i> This project supports ongoing operations, maintenance, and monitoring at the Hill Creek spawning channel. Monitoring includes kokanee fry emigration, rainbow trout redd counts and fry emergence, overwintering egg survival, water quality at the spawning channel, and adult kokanee size, fecundity, and escapement.</p> <p>The spawning channel was built by BC Hydro to compensate for spawning habitat lost due to the construction of Revelstoke Dam, and it now provides additional spawning habitat for kokanee and rainbow trout from Arrow Lakes Reservoir.</p>	Province of B.C.	\$236,340	Habitat-based Actions	Reservoirs & Large Lakes	West Kootenay



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8	COL-F24-F-3797-DCA	<p><b>Adding nutrients to the North Arm of Kootenay Lake</b></p> <p><i>F24 Kootenay Lake Nutrient Restoration Program – North Arm:</i> This ongoing restoration program addresses nutrient losses in Kootenay Lake resulting from the construction of the Duncan Dam.</p> <p>In this bottom-up approach, the addition of nutrients—nitrogen and phosphorus in the form of liquid agricultural-grade fertilizer—from April to September support phytoplankton populations that are suitable for the production of daphnia, a main food source for kokanee.</p> <p>This project also includes the coordination and technical and operational oversight of monitoring several trophic levels, as well as data analysis and reporting.</p>	Province of B.C.	\$1,267,169	Habitat-based Actions	Reservoirs & Large Lakes	West Kootenay
9	COL-F24-F-3798-DCA	<p><b>Supporting Meadow Creek spawning channel at Kootenay Lake</b></p> <p><i>F24 Meadow Creek Spawning Channel:</i> This project supports ongoing operations, maintenance, and monitoring at the Meadow Creek spawning channel. The channel provides spawning habitat for Kootenay Lake kokanee.</p> <p>BC Hydro built the spawning channel in 1967 to compensate for natural kokanee habitat lost due to the construction of Duncan Dam.</p>	Province of B.C.	\$291,603	Habitat-based Actions	Reservoirs & Large Lakes	West Kootenay
<b>Fish Annual and Ongoing Project Total:</b>				<b>\$2,891,363 (4 projects)</b>			



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10	COL-F24-W-3807	<p><b>Improving habitat for at-risk swallows</b></p> <p><i>Upper Columbia Swallow Habitat Enhancement Project:</i> This multi-year project aims to conserve and enhance habitat for at-risk bank and barn swallows in the North Columbia and East Kootenay.</p> <p>Artificial nesting structures and nest cups will be installed to replace nests that have been removed (or will be removed soon) and to entice barn swallows to existing nesting sites by making them more attractive for breeding. Breeding habitat will be expanded for at-risk bank swallows.</p>	Wildsight Golden	\$28,246	Habitat-based Actions	Wetlands & Riparian Areas	East Kootenay
11	COL-F24-W-3814	<p><b>Filling information gaps about pollinators in the West Kootenay</b></p> <p><i>Floral Relations of Native Bees in Camas Meadows Year 4:</i> This multi-year project will document native bee identity, abundance, status, and diversity, as well as pollinator and plant relationships and habitat use in wet camas meadows in the West Kootenay.</p> <p>Camas is a vital food plant for First Nations, and Indigenous cultivation likely supported high pollinator diversity in the past. With involvement by the Sinixt Confederacy and Colville Confederated Tribes, the eco-cultural restoration of these meadows has begun and will be expanded in the final two years of the project.</p>	Kootenay Native Plant Society	\$48,235	Research & Information Acquisition	Wetlands & Riparian Areas	West Kootenay



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#	Project ID	2023-2024 Grant-based Wildlife Projects	Project Lead	FWCP Funding	Project Type	Action Plan Alignment	Sub-Region
12	COL-F24-W-3822	<p><b>Restoring wetland habitat in our Columbia Region</b></p> <p><i>Advancing Wetland Stewardship &amp; Restoration in the Kootenays:</i> This project combines wetland restoration with stewardship education for youth.</p> <p>The project will restore at least three hectares of wetland and floodplain habitat on Kooacanusa Reservoir near Newgate, and restore a minimum of five hectares of wetland habitat near Canal Flats—as well as preparing for future restoration work in Winlaw.</p> <p>In partnership with Shuswap Band, the project will train youth in wetland and watershed stewardship and protection for the Guardians-in-Training program.</p>	British Columbia Wildlife Federation	\$210,509	Habitat-based Actions	Wetlands & Riparian Areas	Basin-wide
13	COL-F24-W-3832	<p><b>Filling data gaps about bat abundance and diversity</b></p> <p><i>NABat, BatCaver and Beyond: Protecting Columbia Basin Bats:</i> This multi-year project will use the North American Bat Monitoring protocol to establish baseline diversity and relative abundance of bats and guide implementation of mitigation efforts for threats such as White Nose Syndrome.</p> <p>This project includes construction and assessment of artificial roosts. The results will help inform conservation planning in future years.</p>	Wildlife Conservation Society Canada	\$82,159	Species-based Actions	Upland & Dryland	Basin-wide



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14	COL-F24-W-3840	<p><b>Improving riparian function by removing invasives</b></p> <p><i>Kootenay Riparian Invasive Plant Control:</i> This multi-year project will support the development and implementation of a plan for removing invasive yellow flag iris and purple loosestrife along the West Arm of Kootenay Lake and the Kootenay River downstream of Brilliant Dam.</p> <p>This will improve riparian ecosystem function, protect high-value conservation areas, and increase awareness and long-term stewardship among local residents.</p>	Central Kootenay Invasive Species Society	\$35,767	Habitat-based Actions	Rivers & Riparian Areas	West Kootenay
15	COL-F24-W-3852	<p><b>Reducing invasive species spread in the East Kootenay</b></p> <p><i>Galton Range Invasive Plant Management:</i> Following on from a successful Seed Grant project last year, this management project will slow down the introduction and spread of invasive species in the Galton Range, east of Grasmere, which is high-value habitat for ungulates.</p> <p>Working collaboratively with First Nations and land managers, the project will treat invasive species with herbicides, and carry out habitat enhancement work such as forest thinning and controlled burns. Together, this work will reduce the spread of invasive plants and increase forage for desired ungulate species, significantly contributing to biodiversity and ecological function.</p>	East Kootenay Invasive Species Council	\$29,018	Habitat-based Actions	Upland & Dryland	East Kootenay



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16	COL-F24-W-3853	<p><b>Improving ungulate habitat by addressing invasives in the Elk Valley</b></p> <p><i>Elk Valley Invasive Plant Management Year 4:</i> This multi-year project will provide a framework to minimize and contain invasive plant species and maintain biodiversity and ecological function in the upper Elk Valley, with an emphasis on areas of high value range for ungulate species including bighorn sheep, elk, moose, grizzly bear, and white-tailed deer.</p> <p>The project will work with First Nations, land managers, and user groups to implement a management plan. Work this year will focus on the continued reduction of invasive species through herbicide treatment. Invasive plant surveys and monitoring will also be conducted.</p>	East Kootenay Invasive Species Council	\$20,796	Habitat-based Actions	Upland & Dryland	East Kootenay
17	COL-F24-W-3854	<p><b>Reducing grizzly bear conflicts</b></p> <p><i>Grizzly Bear Coexistence Solutions:</i> This multi-year project will promote coexistence between grizzly bears and rural residents through education, collaboration, and the use of practical tools, such as correctly installed electric fencing. This will help prevent bear conflicts and associated grizzly bear mortalities in the low-elevation linkage habitats that often overlap with agricultural lands.</p> <p>As conflicts are reduced, there will be improved grizzly bear conservation status in the region, including enhanced connectivity between core grizzly bear populations.</p>	Sanders Environmental Services	\$25,000	Species-based Actions	Upland & Dryland	Basin-wide



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18	COL-F24-W-3867	<p><b>Stewarding conservation lands in the Columbia Region</b></p> <p><i>NTBC-Land Stewardship Activities F24:</i> This project supports conservation field-crew work on operations and stewardship projects that maintain and enhance biodiversity and wildlife values on conservation properties.</p> <p>This year, the project will focus on working with First Nations on all phases of the project. Stewardship will be undertaken on conservation properties such as Waldie Island in Castlegar, the Hoodoos near Fairmont, and the Duncan-Lardeau property near Meadow Creek.</p>	The Nature Trust of British Columbia	\$37,400	Habitat-based Actions	Upland & Dryland	Basin-wide
19	COL-F24-W-3902	<p><b>Enhancing ungulate habitat on Yaq̓it ʔa.knuq̓i 'it Reserve</b></p> <p><i>Yaq̓it ʔa.knuq̓i 'it Open Forest and Grassland Enhancement:</i> Open forest and grassland habitat on Yaq̓it ʔa.knuq̓i 'it Reserve is highly valued for elk, mule, and white-tailed deer, but forest encroachment and invasive plants have increased demand on limited food sources.</p> <p>This five-year ecosystem management plan will restore ungulate habitat and improve critical habitat for at-risk Lewis's woodpecker and American badger.</p>	Tobacco Plains Indian Band	\$96,800	Habitat-based Actions	Upland & Dryland	East Kootenay
20	COL-F24-W-3934	<p><b>Improving Rocky Mountain ungulate habitat</b></p> <p><i>Kicking Horse Canyon Habitat Enhancement Project:</i> The goals of this project are to maintain previously treated ungulate winter range for Rocky Mountain elk, and support habitat connectivity on a landscape-scale near the Yoho National Park boundary.</p> <p>Planned enhancement works include the spacing of immature forest, brushing forest ingrowth, and removing mature trees.</p>	Golden District Rod and Gun Club	\$29,150	Habitat-based Actions	Upland & Dryland	North Columbia



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21	COL-F24-W-3930	<p><b>Trialling grass seed to control invasive plants</b></p> <p><i>Expanding the Toolkit of Invasive Plant Management:</i> This project will trial new methods of invasive plant control in the East Kootenay to determine if grass seed application can control the spread of invasive species. It will test to see if grass seeding alone is effective, or if seeding is better when applied in conjunction with herbicides.</p> <p>The project’s goal is to decrease invasive plant cover and restore ecosystems in the region using low maintenance options.</p>	East Kootenay Invasive Species Council	\$5,000	Research & Information Acquisition	Upland & Dryland	East Kootenay
22	COL-F24-W	<p><b>Supporting community-based projects</b></p> <p><i>F24 Community Engagement Grants:</i> Our Columbia 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	\$7,500	TBD	TBD	Basin-wide
<b>Grant-based Wildlife Project Total:</b>				<b>\$655,580 (13 projects)</b>			



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23	COL-F24-W-DCA	<p><b>First Nations leading wildlife projects</b>  <i>F24 First Nations-led Directed Wildlife Projects:</i> First Nations are identifying directed wildlife projects to lead and deliver in F24.</p> <p>Work will include the prioritization of projects, development of work scope, and project implementation. All projects delivered will align with the FWCP's Columbia Region action plans.</p>	Ktunaxa Nation, Syilx Okanagan & Secwepemc Nation	\$204,000	TBD	TBD	
24	COL-F24-W-DCA	<p><b>Developing a framework for wetland effectiveness monitoring</b>  <i>Wetland Effectiveness Monitoring Framework Phase II implementation:</i> Board approved funding towards implementation of Phase II of the Wetland Restoration Effectiveness Evaluation Framework.</p>	TBD	\$50,000	TBD	TBD	
<b>Wildlife Directed Project Total:</b>				<b>\$254,000 (2 projects)</b>			



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25	COL-F24-W-3794-DCA	<p><b>Stewardship of conservation lands</b></p> <p><i>F24 Land Management Operations:</i> This annual and ongoing project focuses on the coordination, oversight, and implementation of land stewardship activities associated with conservation lands.</p>	Province of B.C.	\$293,365	Habitat-based Actions	Upland & Dryland	Basin-wide
26	COL-F24-W-3795-DCA	<p><b>Land securement in our Columbia Region</b></p> <p><i>F24 Land Securement:</i> Annual funding is set aside by the FWCP’s Columbia Region board to support priority land acquisition projects that strongly align with Columbia Region action plan priorities and support participation on land securement committees.</p> <p>Land securement is a priority action for all ecosystems in our Columbia Region.</p>	FWCP Columbia Board	\$576,073	Land Securement	Upland & Dryland	Basin-wide
27	COL-F24-W-3799-DCA	<p><b>Enhancing West Kootenay ecosystems</b></p> <p><i>F24 West Kootenay Ecosystem Enhancement:</i> This project focuses on the oversight, coordination, and implementation of restoration activities in West Kootenay upland and dryland ecosystems, including prescription development, slashing, piling, prescribed burn-planning, burning, postburn monitoring, and reporting.</p>	Province of B.C.	\$199,252	Habitat-based Actions	Upland & Dryland	West Kootenay



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28	COL-F24-W-3800-DCA	<p><b>Enhancing East Kootenay ecosystems</b></p> <p><i>F24 East Kootenay Ecosystem Enhancement:</i> This project will focus on the oversight, coordination, and implementation of restoration activities in East Kootenay upland and dryland ecosystems, including prescription development, slashing, piling, pile burning, masticating, burn-planning, prescribed burning, post-burn monitoring, and reporting.</p>	Province of B.C.	\$227,769	Habitat-based Actions	Upland & Dryland	East Kootenay
29	COL-F24-W-3801-DCA	<p><b>Supporting caribou recovery</b></p> <p><i>F24 Caribou Recovery:</i> This annual and ongoing project supports a multi-agency effort led by the Province of B.C. to recover threatened caribou sub-populations. To date, the FWCP has supported caribou recovery by assisting with population monitoring, transplants, providing information on predator-prey dynamics, and identifying potential habitat-restoration activities.</p> <p>This year, work will focus on the Central Selkirk area (east of Nakusp), with studies of caribou, cougar and wolf mortality, wolf pack sizes, and predator track surveys. In addition, moose will be surveyed near Revelstoke to determine habitat use, survivorship, and vulnerability to predators.</p>	Province of B.C.	\$155,149	Species-based Actions	Upland & Dryland	Basin-wide
30	COL-F24-W-3802-DCA	<p><b>Supporting northern leopard frog recovery</b></p> <p><i>F24 Northern Leopard Frog Recovery:</i> This annual and ongoing project involves conducting inventory, monitoring, and stewardship of the Endangered northern leopard frog population at the Creston Valley Wildlife Management Area.</p> <p>This population contains the majority of the remaining northern leopard frogs in B.C. It serves as the source population for re-introductions to the Upper Kootenay and Brisco areas.</p>	Province of B.C.	\$349,558	Species-based Actions	Wetlands & Riparian Areas	Basin-wide



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31	COL-F24-W-3803-DCA	<p><b>Enhancing habitat for non-game species</b></p> <p><i>F24 Non-Game Enhancement:</i> This annual and ongoing project focuses on non-game species. It includes a variety of activities that maintain and enhance critical habitat, such as the roosting, denning, and nesting features important for the reproduction and survival of species impacted by reservoir footprint habitat losses.</p>	Province of B.C.	\$215,681	Habitat-based Actions	Small Lakes	Basin-wide
32	COL-F24-W-3804-DCA	<p><b>Restoring and enhancing wetlands</b></p> <p><i>F24 Wetland and Riparian Enhancement:</i> The goal of this annual and ongoing project is to deliver wetland restoration work, continue to develop new projects, and monitor completed projects.</p> <p>Developing new projects includes identifying candidate restoration sites, compiling background information, conducting a pre-treatment inventory of sites, working with a wetland specialist to complete restoration plans, and developing the partnerships, permits, and budgets necessary to implement restoration projects.</p> <p>An effectiveness evaluation of FWCP-funded wetland conservation efforts—including creation, enhancement, and restoration—is currently underway. Results of this evaluation will inform future FWCP wetland conservation efforts.</p>	Province of B.C.	\$41,952	Habitat-based Actions	Wetlands & Riparian Areas	Basin-wide
33	COL-F24-W-3805-DCA	<p><b>Informing land securement decisions</b></p> <p><i>Kootenay Conservation Program Land Acquisition &amp; Base Support F24:</i> The Kootenay Conservation Program will support our Columbia Region board when it considers land securement options for lands with high conservation values.</p>	Kootenay Conservation Program	\$45,000	Land Securement	Upland & Dryland	Basin-wide
<b>Wildlife Annual and Ongoing Project Total:</b>				<b>\$2,103,799 (9 projects)</b>			
<b>2023–2024 PROJECT SPEND TOTAL:</b>				<b>\$6,154,742 (33 projects)</b>			



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