



## 2019-20

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Forest Enhancement  
Society of British Columbia

\*Projects highlighted in green are co-funded by the [Forest Enhancement Society of BC](#)

\*Final Grant amount may be subject to funding condition(s)



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## Projects Taking Place in Multiple Regions

Project Name	Project #	Project Description	Grant Amount*	Contact Information
BC's Family Fishing Weekend	0-229	BC's Family Fishing Weekend is an annual fishing licence free weekend (non-tidal and tidal) on the Father's Day weekend occurring June 14th - 16th, 2019. New in 2019-20 will be an addition of a second provincially legislated licence.	\$15,000.00	Wayne Saito President, Family Fishing Society of BC 778-233-5768 wsaito@shaw.ca
Ducks Unlimited Canada's BC Wetlands Conservation Partnership Program	0-247	This is a Province-wide wetlands conservation program to restore and enhance 5 projects such as at 148 Mile Marshes; gather project-specific data to evaluate 16 projects; prepare designs to rebuild and restore 200 ha of wetland habitat over three years; and manage over 180,000 ha of wetlands and associated upland habitats.	\$250,000.00	Dan Buffett Manager of Provincial Operations, Ducks Unlimited Canada 604-592-5003 D_buffett@ducks.ca
NatureKids BC: Nature Club Project	0-398	NatureKids BC's Nature Club Project builds the next generation of outdoor enthusiasts and lifelong environmental stewards through a strategy of youth engagement and action. In this cycle, 7,500 youth ages 5-12 in 25 nature clubs across BC will learn about and step up for nature with 1,500 hands-on, outdoor nature adventures and stewardship projects.	\$37,977.00	Angie Hughes Young Naturalists' Club of BC Society 604-985-3059 angiehughes@naturekidsbc.ca
White Sturgeon Questionnaire/ Recreational Fishery Monitoring	0-406	This project will assess catch and effort to inform management decisions using information provided by White Sturgeon anglers and licensed non-tidal Angling Guides through reports, mail-outs and electronic questionnaires to report on White Sturgeon fishing effort and catch in the middle and lower Fraser River during the 2017/2018 angling license year.	\$10,420.00	Erin Stoddard Ministry of Forests, Lands and Natural Resource Operations (MFLNRORD) 604-586-5644 Erin.Stoddard@gov.bc.ca
BC/TNT Joint Conservation Land Management	0-451	Funding provided by HCTF will assist with the operation and maintenance of approximately 115 significant wildlife habitat areas across British Columbia.	\$552,200.00	Karen Wipond MFLNRORD 250-356-7669 Karen.Wipond@gov.bc.ca

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BC Wild Sheep Conservation and <i>Movi</i> Control Program	0-466	This multi-stakeholder program is using new techniques and innovative science to support the goal of reducing the risk of pneumonia outbreaks in wild sheep populations with minimal detriment to people raising domestic sheep on private land. The program coordinator reports to a 4-person steering committee, to set objectives and activities for the year in an annual work plan which will be presented to the larger working group each March at the Wild Sheep Society of BC AGM. The program coordinator has also organized a policy advisory group that is working with Ministry of Agriculture legislative analyst to develop a strategic plan for controlling the causal agent of pneumonia outbreaks ( <i>Mycoplasma ovipneumoniae</i> - <i>Movi</i> ) in BC.	\$54,684.00	Jeremy Ayotte Phyla Biological Consulting 250-804-3513 jeremy.ayotte@gmail.com
Grizzly Bear Coexistence Solutions	0-467	This project promotes coexistence between grizzly bears and rural residents using correctly installed and maintained electric fencing to prevent and mitigate conflicts, and provides grizzly bear safety education. As conflicts are reduced and people are better educated about grizzly bear behaviour and provided with tools to mitigate conflicts, there will be an improvement in grizzly bear conservation status in BC, including connectivity between core populations of grizzly bears.	\$19,500.00	Gillian Sanders Sanders Environmental Services 250-366-4232 grizzlybearsolutions@gmail.com
Got Bats? B.C. Community Outreach, Conservation and Citizen Science Project	0-476	"Got Bats?" is a network of community bat projects across BC that promotes bat conservation through the detection and protection of bat roosts, education to counter negative attitudes towards bats, installation of bat-houses, and a province-wide Citizen Science bat count to engage the public and detect population declines due to White-nose Syndrome and other threats. Implemented by local, established stewardship organizations with direct landowner contacts in each region, the importance of this initiative has been widely recognized by the BC Government and BC Bat Action Team, and support for the program is a high priority action item in the BC Bat Action Plan (BC Bat Action Team, 2016).	\$75,341.00	Katie Calon British Columbia Conservation Foundation 604-576-1433 kcalon@bccf.com

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Monitoring and Protecting BC's bat diversity prior to White-Nose Syndrome	0-511	White-nose Syndrome continues to devastate eastern bat populations and is found in Washington state in the west. We will continue to work with cavers and other citizen scientists to identify critical bat habitat, and establish baseline species diversity and relative abundance, reference points necessary for future monitoring, surveillance, mitigation, and recovery.	\$55,159.00	Cori Lausen WCS Wildlife Conservation Society Canada 250-353-8204 clausen@wcs.org
Provincial White Sturgeon Management Working Group Support	0-519	This project will obtain support for the coordination and development of a management working group for White Sturgeon in BC.	\$8,900.00	Greg Andrusak MFLNRD 250-953-4763 greg.andrusak@gov.bc.ca
Rattlesnake populations: Response to land management regimes and historical changes	0-526	This project revisits the ecology of populations of Western Rattlesnakes (a species-at-risk) originally studied over 30 years ago. The main questions addressed are (i) how have snake populations changed over 30+ years, and (ii) how do different management regimes affected these changes? Given that data of this type are practically nonexistent, this project will provide important new data for assessing how landscape use and attributes affect these animals.	\$47,542.00	Karl W. Larsen Thompson Rivers University 250-828-5456 klarsen@tru.ca
Developing a prophylactic probiotic approach for reducing white-nose syndrome severity in bats	0-536	Using bacteria sourced from local healthy bats, a probiotic prophylaxis was made for the prevention of white-nose syndrome (WNS). At maternity roosts in the Vancouver region we will compare bat ecology, survivorship and health pre- and post-treatment prior to when bats leave to hibernate with an enhanced anti-WNS wing flora.	\$59,597.00	Cori Lausen WCS Wildlife Conservation Society Canada 250-353-8204 clausen@wcs.org
Fisher Habitat Conservation - Field Trials and Forestry Training	0-539	This project strives to increase the ability of foresters and forest workers to improve habitat outcomes for fishers in their operations and inspire them to include habitat needs of fishers in their forest management decisions.	\$37,872.00	Richard Weir Ministry of Environment 778-698-4390 Rich.Weir@gov.bc.ca

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Determining factors affecting moose population change: assessing calving and survival rates	0-541	This project will enable new and continued information flow on moose population trends required for management decisions by assessing calf and cow survival rates and calving rates. These demographic parameters are primary drivers of population trend and key research gaps identified from the initial 5-year (2013-2018) Provincial Moose Research Project.	\$70,000.00	Shelley Marshall MFLNRORD 250-614-7458 shelley.marshall@gov.bc.ca
Using Local Knowledge and Hunter-based Sampling to Inform Mountain Caribou Conservation	0-543	We will fill knowledge gaps on health status and population trends of Northern Mountain caribou herds in BC through rigorous documentation of guide-outfitter knowledge and analyzing biological samples from harvested caribou. Concurrently, we will work with communities to develop capacity and a framework for community-based monitoring of wildlife health, status and trends.	\$34,618.00	Susan Kutz University of Calgary 403-210-3824 skutz@ucalgary.ca
Quality Waters Strategy - West Coast	0-545	This project focusses on the Classified Waters of Haida Gwaii. The work will include a River Guardian program to assess and enhance regulatory compliance of sport steelhead fisheries. Stock assessment will also be undertaken on the Yakoun River and an assessment of fishery impacts to cutthroat trout on the Tlell River.	\$29,775.00	Mike McCulloch MFLNRORD 250-751-3156 mike.mcculloch@gov.bc.ca
Domestic/Wild Ovis Disease Transfer Awareness Video*	0-550	This project is dedicated to bringing much needed awareness and education regarding the detrimental effects of disease transfer among domestic and wild Ovis. This project will result in the creation of a short, descriptive educational video which will provide a simple and effective method to reach a larger number of producers, domestic sheep and goat owners, commercial operations as well as generic public awareness.	Pending*	Kyle Stelter Wild Sheep Society of BC 250-619-8415 kstelster@wildsheepsociety.com

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## Approved Projects on Vancouver Island

Project Name	Project #	Project Description	Grant Amount	Contact Information
Fisheries O&M Vancouver Island	1-72	Operation & maintenance of the aeration program at Glen Lake, flow augmentation in Sandhill Creek, inspection and maintenance of fishways located in the Gordon River and Colquitz Creek and an Annual Dam Inspection at Keogh Lake.	\$11,750.00	Scott Silvestri MFLNRORD 250-751-3128 scott.silvestri@gov.bc.ca
Keogh River Steelhead Population Dynamics	1-319	The Keogh River Research Facility has been in operation since 1976 to annually enumerate salmonid smolt output and winter run steelhead adult returns. Further, we are able to obtain precise and accurate counts of returning adults via a fence trap, mark-recapture, and a resistivity counter. This provides a unique opportunity to obtain precise and accurate smolt-to-adult survival used to understand population and recruitment dynamics of steelhead populations in BC.	\$141,900.00	Trevor Davies MFLNRORD 778-698-9218 Trevor.Davies@gov.bc.ca
Bring Back the Bluebirds: Georgia Depression Western Bluebird Reintroduction Project	1-538	By supporting the recovery of reintroduced Western bluebirds, through in-depth population monitoring and extensive nesting support, a local community is engaging in long-term Garry oak ecosystem stewardship with the goal of returning Western bluebirds to their historic range in the Salish Sea.	\$22,800.00	Genevieve Singleton Bring Back the Bluebirds Project Coordinator 250-710-5618 cowichanbluebird@gmail.com
Estimating Cougar Populations on Northern Vancouver Island using DNA mark-recapture techniques	1-589	This project utilizes DNA-based mark-recapture inventory techniques and closed spatial mark-recapture modelling to create science-based cougar population estimates for Northern Vancouver Island.	\$30,194.00	Jerry MacDermott MFLNRORD 250-751-3229 Jerry.MacDermott@gov.bc.ca

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West Coast Roosevelt Elk Augmentation and Recovery Project	1-599	The primary objective of this project is to re-establish viable Roosevelt Elk populations in wilderness areas of the West Coast Region while mitigating conflicts through translocation of elk from agricultural areas and along the highways of Vancouver Island, BC. Partnerships with community organizations, stakeholders, and industry and First Nations governments are key to facilitate recovery of this blue-listed species on Vancouver Island. Relocated herds will help improve ecosystem function and provide future opportunities for sustenance and recreational uses in new population units.	\$15,000.00	Billy Wilton MFLNRORD 250-751-3213 william.wilton@gov.bc.ca
Vancouver Island Small Lake Enrichment - Program Expansion (Year 4 of 5)	1-644	Using established lake fertilization techniques with proven performance, this program aims to enrich up to eight small lakes on Vancouver Island to enhance or produce trophy fisheries for rainbow and cutthroat trout, as well as a kokanee fishery, a potential first for Vancouver Island.	\$38,284.00	Jeramy Damborg British Columbia Conservation Foundation (Lantzville) 250-390-2525 jdamborg@bccf.com
Blackburn Nature Reserve (Year 3 of 3)	1-649	This Land Stewardship Grant will support land management activities including monitoring of restored wetland areas, removal of invasive species, and public access management. Funding amount is for three-year term.	\$41,000.00 over 3 years	Christine Torgimson Salt Spring Island Conservancy 250-538-0318 christine@saltspringconservancy.ca
Cowichan Garry Oak Preserve (Year 3 of 3)	1-650	This Land Stewardship Grant will fund land management activities including management planning and further restoration of the Garry Oak ecosystem. Funding amount is over a three-year term.	\$20,280.00 over 3 years	Chris Perrin The Nature Conservancy of Canada 250-479-3191 chris.perrin@natureconservancy.ca
Cowichan Shoreline Stewardship Project - Fish & Wildlife Habitat Restoration Pilots	1-663	To slow & reverse critical shoreline & wetland habitat destruction in the upper Cowichan River basin. BC Conservation Foundation (BCCF) and Cowichan Lake & River Stewardship Society (CLRSS) members work closely with supportive landowners to restore lake and river shoreline properties and use these as practical demonstrations of enhanced stewardship of valuable riparian and wetland habitats.	\$38,513.00	Melissa Evans Assistant Program Manager 250-390-2525 mevans@bccf.com
Determination of Comox Lake Juvenile Cutthroat Trout Life History Strategies	1-664	This project is using otolith microchemistry to characterize Coastal Cutthroat Trout ( <i>Oncorhynchus clarkii clarkii</i> ) outmigration into Comox Lake from natal tributaries (e.g., timing and size at outmigration, and natal stream origin), and examines the relative contribution of natal streams to the adult production in Comox Lake.	\$30,374.00	Jamieson Atkinson British Columbia Conservation Foundation (Lantzville) 250-390-2525 jatkinson@bccf.com

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Restoring the Englishman River Estuary: Improving habitat for fish and wildlife	1-666	This is Year 3 of a 5 year project to restore coastal processes and improve fish and wildlife habitat in the Englishman River estuary. In partnership with government and local stewardship groups, this project seeks to restore coastal processes in the estuary and improve fish and wildlife habitat by removing historical dikes and berms in the western estuary, enhancing tidal channels, increasing habitat complexity, removing invasive plants, restoring native vegetation and conducting public outreach.	\$47,300.00	Peter deKoning Nature Trust of BC 250-751-3151 pdekoning@naturetrust.bc.ca
Little Qualicum River Estuary - Mill Pond Restoration Project	1-673	Fish and wildlife habitat in an abandoned industrial "log storage pond" will be systematically restored over three years as part of a much larger Little Qualicum River Estuary Restoration Project. The Mill Pond project will be a collaboration between the BC Conservation Foundation, Qualicum Beach Streamkeepers, Guardians of Mid Island Estuaries Society and adjacent private landowners who control the only road access to the site.	\$35,000.00	Melissa Evans BC Conservation Foundation Assistant Program Manager 250-390-2525 mevans@bccf.ca
Seasonal habitat supply for the management and restoration of Roosevelt Elk	1-675	We will deploy over 60 GPS collars on Roosevelt Elk on Vancouver Island to validate an existing winter habitat model and develop habitat models for all seasons to quantify the relationship between habitat use and elk populations. Project outcomes will improve elk habitat and population management decisions.	\$98,700.00	Darryn McConkey MFLNRORD 250-751-3104 Darryn.mcconkey@gov.bc.ca
Re-establishing Vancouver Island Marmots in Strathcona Provincial Park	1-693	The Marmot Recovery Foundation will build and extend on efforts to reintroduce Vancouver Island Marmots to Strathcona Provincial Park and create a self-sustaining population of the endemic mammals. Efforts will focus on translocations, food enhancement, monitoring and potentially habitat restoration as guided by BC Parks.	\$45,100.00	Adam Taylor Marmot Recovery Foundation 250-390-0006 adam@marmots.org

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Gold River - Steelhead Stock Decline Investigations	1-694	This project will evaluate the current abundance of wild summer and winter-run Steelhead during all life-stages in the Gold River. A brief habitat overview and limiting factors analysis (desktop) will be conducted and will consider factors both within the watershed and the marine environment. The latter will include near shore early marine survival (Muchalat Inlet) as well as late marine survival, with the potential role of predation within the lower river and estuary being a key part of the project. Subject to project outcomes, an action plan will be developed with management recommendations for activities to assist this dwindling wild stock, historically supporting one of the most productive winter-run Steelhead sport fisheries on the Pacific Coast.	\$19,437.00	Jeremy Damborg British Columbia Conservation Foundation (Lantzville) 250-390-2525 jdamborg@bccf.com
Promoting Wildlife Habitat Protection and Enhancement on Salt Spring Island, BC	1-700	Salt Spring Island Conservancy (SSIC) will protect and enhance wildlife populations and rare ecosystems on the island by acquiring lands, conservation covenants and stewardship agreements; restoring Garry oak and wetland ecosystems and removing invasive species in 3 SSIC Nature Reserves; and inspiring the public via education events and signage.	\$43,414.00	Christine Torgimson Salt Spring Island Conservancy 250-538-0318 christine@saltspringconservancy.ca
Restoring North Vancouver Island Estuaries	1-702	This project aims to restore coastal processes and improve fish and wildlife habitat in the Quatse River Wildlife Management Area (WMA) and the Salmon River Estuary Conservation Area. In partnership with government, First Nations and local stewardship groups, we will construct sedge benches and freshwater tidal channels in the Quatse WMA; and, remove invasive species, improve riparian habitat, construct/enhance wetlands, and conduct habitat enhancements for Roosevelt Elk in the Salmon River Estuary Conservation Area.	\$76,176.00	Peter deKoning Nature Trust of BC 250-751-3151 pdekoning@naturetrust.bc.ca
Wildwood Creek Wetland Stewardship Project	1-705	This three-year stewardship project will restore and enhance ecologically important habitat in the Wildwood Creek watershed to increase connectivity between regionally protected lands and increase community understanding, participation and regional leadership in conservation.	\$22,955.00	Paige Erickson-McGee Habitat Acquisition Trust 250-995-2428 paige@hat.bc.ca

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Riparian Restoration in the Cowichan River-Estuary Interface	1-712	This proposal will build upon a previous project, funded by HCTF, which produced a multi-year riparian rehabilitation plan for the lower Cowichan River, in Duncan, B.C. This Seed Project will allow BCCF to engage and further coordinate with landowners and stakeholders in riparian rehabilitation at the River-Estuary Interface (REI; i.e., tidally influenced reaches) of the Cowichan River. A successful Seed proposal will lead to a multi-year enhancement project specifying the design and implementation of a riparian restoration plan for the Cowichan REI.	\$5,000.00	Jennifer Sibbald BC Conservation Foundation Restoration Ecologist 250-390-2525 jsibbald@bccf.ca
Scoping UV filter (sunscreen) contamination and mitigation in the Cowichan watershed	1-713	Recently, concerns have been raised over UV filter (sunscreen) contamination of the Cowichan River watershed and its potential impact on aquatic organisms. BCCF will use seed grant funds to (1) review existing literature on UV filter contamination and their ecotoxicological effects in aquatic environments, (2) collaborate with Vancouver Island University's Applied Environmental Research Laboratory on UV filter sampling and detection protocol development and (3) develop a full proposal to HCTF aimed at assessing and mitigating UV filter contamination in the Cowichan River watershed.	\$5,000.00	Melissa Evans BC Conservation Foundation Assistant Program Manager 250-390-2525 mevans@bccf.ca
Restoring wildlife passage under roads where rip rap obstructs animal movement	1-717	The GCA will consult with regional experts and managers, indigenous hunters, relevant agencies, and a cross-section of the Galiano community in order to prepare a full proposal to the HCTF for an ecological deer management program on Galiano Island.	\$5,000.00	Barbara Beasley Association of Wetlands Stewards for Clayoquot and Barkley Sounds 250-726-2636 beasley@island.net
Ecosystem restoration for Taylor's Checkerspot Butterfly and other species at risk on Hornby and Denman Islands	1-721	The Taylor's Checkerspot butterfly project is a collaborative science-based, ecosystem restoration project that includes population augmentation, community engagement, stewardship and public outreach for this butterfly, with benefits to many butterflies, bees, other pollinators and plants also at risk within the Garry Oak/coastal Douglas-fir ecosystems.	\$50,000.00	Jennifer Heron Ministry of Environment and Climate Change Strategy 604-222-6759 Jennifer.heron@gov.bc.ca
Chemainus River: Copper Canyon Fish Passage Construction	1-723	The project aims to re-establish a passable migration path up a small cascade that was altered in 2017 as a result of a large rock slide. Using technical rock works the project aims to create a single step pool at the site, 12.8 km upstream of the estuary, to open up access to 40+ km of high value steelhead habitat.	\$60,023.00	Jeramy Damborg BC Conservation Foundation 250-390-2525 jdamborg@bccf.ca

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Traditional and Environmental DNA (eDNA) Surveys for Sharp-tailed Snake	1-727	The federally Endangered and provincially Red-listed Sharp-tailed Snake ( <i>Contia tenuis</i> ) spends most of its life under the ground. Traditional snake monitoring using Artificial Cover Objects (ACOs) will be done in conjunction with investigating environmental DNA (eDNA) sampling as a survey tool. New occurrences of Sharp-tailed Snakes will be used to refine Critical Habitat designation and guide on-the-ground management activities.	\$18,495.00	Laura Matthias 250-931-0090 lmatthias@shaw.ca
Fishing and Natural Mortality of Cutthroat Trout in Cowichan Lake	1-728	This is a five year study that will use acoustic telemetry and high reward tags to determine fishing and natural mortality of wild cutthroat trout in one of Vancouver Island's most popular fresh water fishing destinations, Cowichan Lake. Tracking data will also provide information on the utilization of the lake by sub-adult and adult fish, including spatial and temporal distribution. These results will be used to support an objective and transparent evaluation of the regulations currently in place as well as alternative approaches.	\$88,226.00	Erin Rechisky Kintama Research Services Ltd. Research Manager 250-667-6951 Erin.rechisky@kintama.com
Tsolum River Gravel Bar Live Staking and Riparian Restoration Project.	1-730	This project will re-vegetate 2.2ha of gravel bars in the mid-section of the Tsolum River by using willow cutting live staking methods, and will also diversify the riparian area by planting 3,000 conifer seedling trees. Re-vegetating the gravel bars simulates and accelerates natural ecological processes, which leads to stabilization of excessive bed load that has accumulated in the river. Fish species that will benefit include Coho Salmon, Pink Salmon, Chum Salmon, Steelhead/rainbow trout and Cutthroat Trout, and willows will provide forage and cover for Roosevelt Elk that utilize this area.	\$25,594.00	Caroline Heim Tsolum River Restoration Society Program Coordinator 250-897-4670 Trrs.educationoutreach@gmail.com

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## Approved Projects in the Lower Mainland

Project Name	Project #	Project Description	Grant Amount	Contact Information
Establishing Agricultural Waterfowl and Raptor Habitat on the Lower Fraser	2-349	Approximately 1,190 hectares of upland agricultural habitat will be established on the lower Fraser River delta, which is located within the largest estuary on the Pacific coast of Canada. Farmers located in the Municipalities of Delta and City of Richmond will establish grassland habitat, in the form of winter cover crops and grassland set-asides, in order to provide high-quality feeding and roosting habitat for resident and migratory waterfowl, and raptors.	\$20,000.00	Drew Bondar Delta Farmland and Wildlife Trust 604-940-3392 drew@deltafarmland.ca
Lower Fraser River White Sturgeon Monitoring and Assessment Program 2019-2020	2-375	This stewardship-led project continues the successful and award-winning Lower Fraser River White Sturgeon Monitoring and Assessment Program established in 2000. The project has been identified as a priority action by the TWG and aligns with the recently completed Lower/Mid-Fraser White Sturgeon 5 Year Strategic Action Plan. The project delivers annual abundance estimates and growth rates, by size and age group, of Lower Fraser River White Sturgeon, and is used by provincial authorities to conserve and manage the resource. The 2018-19 project is year 3 of a 5-year continuing multi-year HCTF project (2016-2021), and will be the 19th consecutive year of the program.	\$94,875.00	Sarah Schreier Fraser River Sturgeon Conservation Society 604-664-7664 ext. 107 sarah@frasersturgeon.com
Learn to Fish Program (L2F)	2-390	Learn to Fish (L2F) is designed to break down barriers to recreational fishing by introducing youth and adults to the sport. L2F is delivered across all regions of the province to over 25,000 youth and their families annually with support from HCTF and its other program partners.	\$80,000.00	Mike Gass Freshwater Fisheries Society of BC 604-302-6235 Mike.Gass@gofishbc.com
Lower and Middle Fraser White Sturgeon Recovery Working Group Support	2-455	This project provides supporting resources for the coordination and management of the Lower and Middle Fraser River Sturgeon Technical and Community Recovery Working Groups (TWG & CWG).	\$9,988.00	Erin Stoddard MFLNRORD 604-586-5644 Erin.Stoddard@gov.bc.ca

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South Coast Grizzly Bear Ecology & Cumulative Effects Research	2-464	This project is investigating several aspects of grizzly bear ecology, with a focus on space-use and movements relative to influential factors of habitat and human activity. Inferences will be directly relevant to understanding short and long-term implications of cumulative human impacts on grizzly bear recovery and conservation. Data will also contribute to long-term tracking of population responses. Predictive outputs that are empirically tested will serve to direct appropriate mitigation and conservation strategies.	\$60,000.00	Clayton Apps Aspen Wildlife Research Inc. 403-270-8663 clayton.apps@telus.net
Lower Fraser White Sturgeon Telemetry Study: Long-term monitoring of adult sturgeon movement activities and habitat use	2-530	This long-term (10 yr.) project is monitoring adult (>160 cm) White Sturgeon movements, migrations and habitat use through the acoustic tracking of adult sturgeon within and between over-wintering, feeding and spawning habitats in the Lower Fraser, Pitt and Harrison Rivers to assess patterns, periodicity and fidelity.	\$44,880.00	Erin Stoddard MFLNRORD 604-582-5374 Erin.Stoddard@gov.bc.ca
Conservation of Threatened Raptors on the Sunshine Coast	2-552	We will conduct surveys to identify and assess occupied breeding territories for Western Screech-Owls and Northern Goshawks on the Sunshine Coast, and work with government, First Nations, industry, and landowners to protect these areas. Complementary engagement activities will improve awareness and participation in raptor stewardship activities.	\$14,700.00	Michelle Evelyn Sunshine Coast Wildlife Project 604-886-1910 mjevelyn@gmail.com
Sunshine Coast Community Wildlife Habitat Stewards	2-574	We will increase habitat protection, enhance wildlife habitat, and encourage sound land care practices on the Sunshine Coast by engaging landowners and community members; providing resources, tools, training and support; and facilitating community involvement in habitat enhancement activities.	\$19,940.00	David Stiles Sunshine Coast Wildlife Project 604-886-1910 coastwildlife@gmail.com
Improving Wildlife Habitat in Logged and Fire-Damaged Coastal Forests	2-618	We will increase the quantity and quality of habitat for wetland-dependent wildlife on the Sunshine Coast by working with logging contractors and tenure holders to conserve wetlands during forestry operations, and to restore, enhance, and create wetlands in recently logged and fire-damaged forests.	\$29,800.00	Michelle Evelyn Sunshine Coast Wildlife Project 604-886-1910 mjevelyn@gmail.com

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Wolverine movements, home range and habitat use in a human dominated landscape, South Coast	2-622	We propose to examine home ranges, seasonal movements, and habitat use of wolverines in the South Coast. While inventories have been completed, further information is needed on movements, home range size, and habitat use in relation to human activities in order to better manage wolverines in a multiple-use landscape. This proposal builds on the inventory and distribution data collected in HCTF Projects 2-519 and 2-600.	\$48,612.00	Cliff Nietvelt MFLNRORD 604-798-3366 Cliff.Nietvelt@gov.bc.ca
Habitat Restoration for Little Campbell River Cutthroat Trout	2-629	This project aims to address these key issues through habitat restoration in critical areas of the watershed. As a first step, we need to better understand the status of the LCR CT population and the potential of the watershed to support a stable CT population.	\$28,740.00	Christy Juteau A Rocha Canada Stewardship Coordinator 604-542-9006 Christy.juteau@arocha.ca
Chilliwack River Adult Winter Steelhead Stock Assessment	2-639	This proposal is for year 2 of a proposed 5 year project which will evaluate the logistical feasibility and utility of an annual series of adult steelhead snorkel float index surveys as a long-term stock assessment tool for the Chilliwack River.	\$17,372.00	Mike Willcox MFLNRORD Michael.Willcox@gov.bc.ca
Mountain Goat Seasonal Movements and Habitat Use in the Mount Meager Complex, South Coast	2-640	We propose to radio collar (GPS) 35-45 mountain goats in the Mount Meager Complex. The objectives are to determine if these goats make large seasonal movements to and from winter ranges, as well as quantify habitat use in winter and summer in relation to the burned habitats. As this is a hunted population and perhaps one of the largest and most important goat populations in the South Coast, this information on seasonal movements and habitat use is crucial in our understanding of how to better manage this population.	\$59,150.00	Cliff Nietvelt MFLNRORD 604-798-3366 Cliff.Nietvelt@gov.bc.ca
The Metamorphosis of the Ryder Lake Amphibian Protection Project	2-642	The goal of this project is to improve the success of the amphibian migrations at Ryder Lake. This year, two culverts along Elk View Road were improved. In 2019, we will be testing new directional fencing to ensure that amphibians will be able to access these culverts. In October of 2018, monitoring of the amphibians recorded young American bullfrogs migrating out of the wetland. Consequently, control of this invasive species will become a new objective for this project.	\$24,145.00	Joanne Neilson Fraser Valley Conservancy 604-625-0066 joanne@fraservalleyconservancy.ca

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Roosevelt Elk Inventory - South Coast	2-643	We will conduct inventory of Roosevelt Elk in the South Coast Region, through annual aerial flights. This project will generate population estimates for each unit surveyed and results will lead to improved conservation, management and planning.	\$56,000.00	Darryl Reynolds MFLNRORD 604-885-7419 Darryl.Reynolds@gov.bc.ca
Exploring Conservation Issues Related to the Effects of Bear Viewing on Bears	2-648	This project examines the use of remote camera data to understand and inform potential conservation problems that may be associated with people viewing bears. Remote camera data gathered at bear viewing operations may be used to examine reproductive patterns of grizzly bears that have conservation significance for populations, such as litter size and cub survival, as well as the diel information necessary to predict conservation issues.	\$33,875.00	Lana M. Ciarniello Aklak Wildlife Consulting Wildlife Biologist 250-923-8881 aklak@telus.net
Lloyd Wetland Habitat Restoration for Fish and Wildlife	2-651	Lloyd Wetland is a heavily degraded wetland ecosystem in North Vancouver. This project will undertake various activities to restore the wetland, such as removal of dumped materials and installation of educational signage and fencing. These works will ensure the wetland can once again provide safe and suitable habitat for fish and wildlife.	\$47,000.00	Tara Matthews Wildcoast Ecological Society CEO 778-995-7827 taramatthews@schoecological.com
Wetland Restoration and Wildlife Monitoring in the Meighan Creek Sub-basin (Garibaldi Springs)	2-656	This project will restore and enhance wetland habitat for multiple wildlife species, including the at-risk Pacific Water Shrew, in the Meighan and Dryden Creek basins on a portion of the non-operating Garibaldi Spring Golf Course lands that are being re-developed for residential use by Polygon Development 315 Ltd.	\$5,000.00	Edith B. Tobe Squamish River Watershed Society Project Manager 604-898-9171 srws@shaw.ca
Northern Red-Legged Frogs: Habitat Enhancement in Delta Nature Reserve	2-657	Locating Northern Red-Legged Frogs in the Delta Nature Reserve, and determining how to enhance their habitat.	\$5,000.00	Nikolai Karpun Burns Bog Conservation Society Research and Stewardship 604-572-0373 nikolai@burnsbog.org
Camp Slough Conservation Area Restoration Project	2-658	The project is to develop a plan to restore a Provincially-designated conservation land from a maintained old field habitat into a functional, self-sustaining ecosystem for the benefit of over 130 native wildlife species, including birds, mammals, amphibians, and insects.	\$5,000.00	Eric Balke Ducks Unlimited Canada Coordinator 604-586-5643 Eric.balke@gov.bc.ca

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Green River fish and wildlife habitat ecological restoration planning.	2-659	This project will collaborate with local partners to develop action plans for the future ecological restoration of fish and wildlife habitat at three degraded sites in the vicinity of the Green River in Pemberton BC.	\$5,000.00	Greg Ferguson Pemberton Wildlife Association Project Coordinator secretary@pembertonwildlifeassociation.com
Upper Pitt River Bull Trout Risk Assessment	2-661	This project will collaborate with local partners to develop action plans for the future ecological restoration of fish and wildlife habitat at three degraded sites in the vicinity of the Green River in Pemberton BC.	\$46,836.00	Greg Andrusak MFLNRD 778-698-9237 Greg.andrusak@gov.bc.ca
Lower Fraser Juvenile White Sturgeon Annual Monitoring Program	2-665	Size-selective angling techniques will be used at known juvenile sturgeon rearing sites in the lower Fraser River to capture, scan, and PIT tag sufficient numbers of juvenile sturgeon (30-60 cm fork-length) to derive annual estimates of abundance for this portion of the population.	\$110,974.00	Sarah Schreier Fraser River Sturgeon Conservation Society Executive Director 604-664-7664 ext. 107 sarah@frasersturgeon.com
LGL-Matsqui-Yale selective fishing initiative using three fishwheels	2-666	The purpose of the project is to demonstrate the capabilities of fishwheels to selectively harvest some salmon species and release non-target species (e.g. coho, steelhead and sturgeon) during the September and October periods when non-selective gear (e.g. gill nets) are not permitted due to bycatch concerns for interior Fraser coho and steelhead.	\$150,000.00	Karl English LGL Limited Stock Reduction Analyst 250-656-0127 kenglish@lgl.com
Native Plant Landscaping to Increase Native Bird Populations in Vancouver	2-668	The project will engage 2500 youth in multi-week experiential education programs and school workshops to grow 10,000 bird-supporting native plants and develop a demonstration birdscape in Vancouver's Downtown Eastside. 50 project partners will receive native plants for 50 habitat gardens supporting native bird diversity and populations.	\$21,001.00	Emily Keller EYA Environmental Youth Alliance Society Executive Director 604-689-4446 emily@eya.ca
Chilliwack River Guardian Program	2-669	The Chilliwack River Guardian Program will facilitate improved angler awareness, education and conservation of Steelhead in the Chilliwack River. This will be accomplished through the collection of basic fishery use and quality data via Creel-style field surveys and will complement existing studies and better inform management decisions regarding angler participation, compliance, regulations, fishery quality and wild stock conservation.	\$17,275.00	Mike Wilcox MFLNRD Michael.wilcox@gov.bc.ca

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Inlailawatash (Indian River) Watershed Upper Long Channel Coho Habitat Protection	2-670	This project will focus on the protection of critical off-channel rearing and refuge habitat for coho, rainbow trout, and cutthroat trout. It will include construction of appropriate structures at the inlet to a 2km long side-channel in the Indian River to protect it from erosion from high velocity flows and transportation of LWD during high-water events.	\$5,000.00	Haley Crozier 778-997-1747 Haley.crozier@live.ca
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*Project 2-552 - Conservation of Threatened Raptors on the Sunshine Coast*

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## Approved Projects in the Thompson Nicola Region

Project Name	Project #	Project Description	Grant Amount	Contact Information
Fisheries O&M - Headquarters	3-60	Maintain the Kane Valley Ranch for fisheries research. Maintain property, repair fences, pay the Hydro for aeration system, maintain caretakers house (plumbing, wiring, mechanical).	\$7,650.00	Brett Van Poorten Ministry of Environment 604-222-6761 Brett.VanPoorten@gov.bc.ca
Fisheries O&M - Thompson-Nicola	3-94	Operation and maintenance of existing lake aeration, stream diversions, outlet fence, riparian fencing, open diversion ditches and dam structures that enhance the angling opportunities of high use lakes within the Thompson-Nicola region.	\$65,400.00	Andrew Klassen MFLNRORD 250-371-6237 andrew.klassen@gov.bc.ca
Fisheries O&M - Bonaparte	3-154	Operation and maintenance of the Bonaparte Fishway and the Bonaparte Lake Dam.	\$28,450.00	Robert G. Bison MFLNRORD 250-371-6244 Robert.Bison@gov.bc.ca
Interior Fraser Wild Steelhead Conservation	3-251	This project is for the continued monitoring of abundance, productivity and conservation status for wild Interior Fraser steelhead which includes Thompson and Chilcotin steelhead. The project will provide scientific knowledge to inform provincial and federal fisheries management planning, processes and decisions for conservation and responsible use. The project will provide data and knowledge to encourage better fishing practices and coordination of management between provincial and federal fisheries agencies and First Nations.	\$79,000.00	Robert G. Bison MFLNRORD 250-371-6244 Robert.Bison@gov.bc.ca
Wetlands Institute 2018: Creston Valley	3-272	The Wetlands Institute workshop provides training to individuals involved in wetland stewardship projects in BC. The 2019 Institute in the Creston Valley will provide high quality training and hands-on wetland restoration and design experience while supporting regional initiatives. Following the Institute, participants are offered ongoing support to successfully complete their projects.	\$49,903.00	Neil Fletcher BC Wildlife Federation 604-882-9988 ext. 232 neil.fletcher@bcwf.bc.ca
Quality Waters Strategy - Thompson River Guardian Program	3-273	River guardians will patrol and survey during times of fishery closure and will patrol and survey the steelhead sport fishery in the event of an opening to assist with fishery management and compliance.	\$24,860.00	Robert G. Bison MFLNRORD 250-371-6244 Robert.Bison@gov.bc.ca

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Assessment of Sustainable Fishing Rates for Nicola Lake Burbot to Evaluate Sports-fishing Opportunities	3-347	Historically, Nicola Lake burbot provided a popular recreational fishery, but harvest opportunities ceased in the 1990s due to concerns over exploitation. The burbot fishery is currently regulated as "burbot release" for recreational angling. Partnering with First Nations, we will estimate the sustainable fishing rate for Nicola Lake burbot stock using the observed population age structure and the biology and vulnerability of the fish. This will be compared to the current fishing rates for an existing First Nations food fishery by tagging fish and creeling the fishery to recover tags and evaluate additional sport-fishing opportunities.	\$59,587.00	Andy Morris MFLNRORD 250-371-6325 andy.morris@gov.bc.ca
Thompson Region Bighorn Sheep Collaring Project	3-369	This project aims to collar 30-33 bighorn sheep rams from different herds in the Thompson region to better quantify connectivity of Thompson bighorn sheep herds, as well as clarify core home range use, summer and winter range migration timing and movement rates and ram foray patterns. The project will also develop a herd health baseline dataset from biological samples from individuals in each herd.	\$6,000.00	Gerad Hales MFLNRORD 250-371-4457 Gerad.Hales@gov.bc.ca
Fraser River Region 3 White Sturgeon Abundance Analysis and Population Monitoring	3-402	We will deliver estimates of abundance, mortality, and capture probability for Region 3 White Sturgeon, and recommend how monitoring in the Region should proceed. We will maintain the current level of PIT tag sampling in the Region for another year, and alert biologists if a Nechako Hatchery sturgeon is encountered.	\$53,552.00	Sarah Schreier Fraser River Sturgeon Conservation Society Executive Director 604-664-7664 sarah@frasersturgeon.com
Middle Fraser Sturgeon Guardian Program	3-405	The project consists of: (1) a continuation of a fishery guardian program to improve compliance, foster best practices and to engage with anglers on the regulation and management of the sport fishery and (2) the estimation and monitoring of catch, catch rate and effort over time so as to help inform on time and spatial trends in sturgeon abundance in the middle Fraser River.	\$27,808.00	Andy Morris MFLNRORD 250-371-6325 andy.morris@gov.bc.ca
Lillooet Region Aquatic Sampling	3-406	This project will monitor lakes in the Lillooet area for invasive mussels through veliger sampling.	\$10,719.00	Jacque Rasmussen Lillooet Regional Invasive Species Society 250-256-4292 <a href="mailto:Irinvasives@gmail.com">Irinvasives@gmail.com</a>

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Duffy Lake Water Conservation Project	3-409	Rebuilding the dam on Duffy Lake to protect the Conservation Storage water license and maintain the valuable recreational Rainbow Trout fishery.	\$130,000.00	Andrew Klassen MFLNRORD 250-371-6237 Andrew.klassen@gov.bc.ca
Salmon River Scoping Project	3-411	This seed project is part of a broader collaborative initiative between Splatins and MFLNRORD. The primary objectives of this seed project are to prepare complete study designs and funding and partnership strategies for priority works that focus on water management, ecological enhancement and species conservation in the Salmon River watershed.	\$5,000.00	Robyn Laubman LLP Senior Biologist 250-838-0775 <a href="mailto:Robyn.laubman@splatsindc.com">Robyn.laubman@splatsindc.com</a>
Williamson's Sapsucker Habitat Enhancement, Merritt Area.	3-412	Earmarked funding has been provided to HCTF by BC Hydro for application to the provincial (FLNRO's) Williamson's Sapsucker Recovery Strategy. The first phase of the project will identify potential locations for nest tree enhancement by modeling and mapping both foraging and nesting habitat. The second phase will increase potential nest tree densities using fungal inoculation or other nest tree enhancement methods.	\$5,000.00	Les Gyug Okanagan Wildlife Consulting 250-769-5907 Les_gyug@telus.net
Salmon River Thermal Imaging Pilot Assessment	3-413	This project will evaluate the potential application of Unmanned Aerial Vehicles (UAVs) to identify, map and manage sensitive thermal refuge habitat in streams in the Thompson Okanagan Region.	\$5,000.00	Ryan Whitehouse MFLNRORD 250-371-6305 Ryan.whitehouse@gov.bc.ca
Fraser River Bighorns: Disease Assessment and Connectivity	3-419	<i>Mycoplasma ovipneumoniae</i> (Movi) transmitted from domestic sheep is suspected to have caused pneumonia die-offs in several bighorn sheep herds in the Fraser River metapopulation. The goals of this project are to collect baseline herd health data to understand the prevalence of Movi in Fraser River bighorn sheep herds, and assess connectivity and the subsequent risk of Movi transmission among herds through the movements of GPS collared animals.	\$20,150.00	Jeremy Ayotte Phyla Biological Consulting Inc. 250-804-3513 Jeremy.ayotte@gmail.com

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Monitoring the Stein/Nahatlatch Grizzly Bear Population during Recovery.	3-420	This isolated and Critically Endangered grizzly bear population has been monitored using DNA sampling since 2005. To avoid an extended break in this continuity, we plan to continue the monitoring as the Province implements recovery actions every two years. The project is structured consistent with the spirit of Reconciliation and with the principals of the United Nations Declaration on the Rights of Indigenous Peoples (UNDRIP) "to maintain and strengthen their distinct political, legal, economic, social and cultural institutions".	\$73,310.00	Lenora Starr St'át'imc Lands and Heritage Manager 250-256-0425 slhmanager@statimcgs.org
CHRF Adams Groundhog Road Rehabilitation and Reforestation Project	3-422	Designed to benefit the Groundhog caribou herd through forestry road rehabilitation and treatment of cutblocks.	\$123,100.00	Doug Lewis MFLNRORD 250-371-6245 Doug.w.lewis@gov.bc.ca



*Project 3-406 Lillooet Region Aquatic Sampling*

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## Approved Projects in the Kootenays

Project Name	Project #	Project Description	Grant Amount	Contact Information
Fisheries O&M - Kootenay	4-64	Operation and maintenance of two West Kootenay kokanee spawning channels which support a genetically unique strain of kokanee and associated ecosystem and sport fishery benefits.	\$53,500.00	Matt Neufeld MFLNRORD 250-354-6353 matt.neufeld@gov.bc.ca
Gerrard Rainbow Trout Critical Monitoring	4-248	This project monitors the conservation status of Gerrard rainbow trout by estimating escapement through spawner counts, protecting spawners, estimating harvests of these fish in the Kootenay Lake sport fishery, and monitoring critical spawning habitat parameters.	\$34,000.00	Matt Neufeld MFLNRORD 250-354-6353 matt.neufeld@gov.bc.ca
Kootenay Conservation Program (KCP)	4-345	Kootenay Conservation Program (KCP) is a highly successful partnership program that focuses on securement and stewardship of high value private conservation lands while building the capacity of, and serving as a network for our 80+ partner organizations.	\$30,000.00	Juliet Craig Nature Trust of BC 604-924-9771 manager@kootenayconservation.ca
South Rockies Grizzly Bear Inventory	4-410	We have been monitoring grizzly bear population trend in wildlife management units 4-01, 4-02 and 4-23 since 2006. We now intend to focus on understanding and mitigating the causes of non-hunting mortality, especially when it is not reported nor recorded in the provincial mortality data.	\$75,000.00	Garth Mowat MFLNRORD 250-354-6142 garth.mowat@gov.bc.ca
Kootenay Region River Guardian Program	4-444	River Guardian presence in eight Kootenay Region classified watersheds with the objective to maintain or improve the quality of angling in these systems and protect native sport fish populations. River Guardians will provide a compliance presence, educate public, anglers and other stakeholders, and collect angler survey data and biological/inventory data.	\$127,500.00	Kevin Heidt MFLNRORD 250-489-8556 Kevin.Heidt@gov.bc.ca

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Boundary Restoration and Enhancement Program	4-461	This project will improve habitat quality, resiliency and forage availability for ungulates and other native species by restoring or enhancing degraded habitats in a range of ecosystems across the Boundary. This project will build community stewardship and technical capacity through the use of partnerships and local contractors.	\$44,570.00	Lisa Tedesco MFLNRORD 250-354-6163 lisa.m.tedesco@gov.bc.ca
Kootenay Mule Deer Survival Monitoring	4-510	This project will assess factors limiting mule deer population growth in 4 study areas in the Kootenay Region by monitoring adult female survival, cause of death and fawn recruitment.	\$43,400.00	Patrick Stent MFLNRORD 250-489-8578 Patrick.Stent@gov.bc.ca
Determination of Gerrard Rainbow Trout Stock Productivity at Low Abundance	4-539	This project will obtain critical information on the stock productivity parameter for Gerrard Rainbow Trout at low abundance. The information is vital in defining important biological reference points for conservation and management of this unique ecotype on Kootenay Lake. Data will provide important information on the maximum reproductive rate of this stock which can only be obtained under low stock abundance.	\$52,994.00	Greg Andrusak MFLNRORD 778-698-9237 greg.andrusak@gov.bc.ca
Bull River Bighorn Sheep: Herd Health and Movement Dynamics	4-546	This proposal is to support the ongoing deployment of GPS collars as they continue to function and provide movement data and the potential for mortality investigations. There are 9/11 collars remaining on the Bull River herd, and 3/4 remaining on the Galton herd. The continued data fees and monitoring costs to maintain these 12 collars on bighorn sheep within these two herds is warranted given the 40% population decline in the Bull River herd, and the continued concern over contact with domestic sheep in both the Bull River and Galton herd ranges.	\$9,825.00	Jeremy Ayotte Phyla Biological Consulting 250-804-3513 jeremy.ayotte@gmail.com
Elk Valley Heritage Conservation Area (Year 3 of 3)	4-548	This Land Stewardship Grant will be used for land management planning, public access management, wetland restoration and invasive plant removal. Funding amount is over three year term.	\$30,476.00 over 3 years	Chris Perrin The Nature Conservancy of Canada 250-479-3191 chris.perrin@natureconservancy.ca

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Determination of Bull Trout Stock Productivity at Low Abundance	4-555	Obtain critical information on the stock productivity parameter for Bull Trout at low abundance. The information is vital in defining important biological reference points for conservation and management for this species on Kootenay Lake. Data will provide important information on the maximum reproductive rate of this stock which can only be obtained under low stock abundance.	\$52,919.00	Greg Andrusak MFLNRORD 778-698-9237 greg.andrusak@gov.bc.ca
Invasive plant management on bighorn sheep winter ranges	4-556	This proposed project involves a comprehensive and collaborative approach to managing invasive plants on 3 critical bighorn sheep winter ranges: Bull River, Wigwam Flats and Columbia Lake East. This proposed continuing project is attempting to increase the quality of grasslands by reducing invaders and increasing forage species.	\$47,500.00	Irene E. Teske MFLNRORD 250-489-8551 Irene.Teske@gov.bc.ca
Diversifying MPB Clear-cuts for Small Mustelids: Green-tree Retention, Debris Piles, and Enhanced Riparian Habitats.	4-560	Restoration of wildlife habitat with combined habitat components after clear-cut harvesting of MPB-killed lodgepole pine stands. Three methods of habitat enhancement for small mustelids and their prey species to diversify clear-cuts include (1) green-tree retention, (2) woody debris piles, and (3) enhanced riparian zones.	\$29,000.00	Thomas P. Sullivan Applied Mammal Research Institute 250-494-7160 tom@appliedmammal.com
Quantifying rates and mechanisms of grizzly bear mortality in the Elk Valley	4-563	This project will use radiotelemetry to identify the rates and causes of bear mortality (reported and unreported) in a population of bears facing one of the highest human-caused mortality rates in the province. Currently, the degree of under-reporting is unknown and suspected to be high, and these uncertainties compromise science-based management of grizzly bears locally and provincially. This project builds on a large body of research and previously collected data to provide recommendations for pressing management concerns and to engage the community in grizzly bear conservation.	\$25,000.00	Clayton Lamb MFLNRORD 778-215-0334 ctlamb@ualberta.ca
Maintenance of Furbearers and Prey Species on Large Clearcut Openings Using Linear Piles of Woody Debris	4-576	This proposal is designed to investigate the responses of small mustelids and their prey species to piles of woody debris arranged in a linear configuration across large (50+ ha) clear-cut openings. Presence of these mammals in piles will indicate that these structures are effective as habitat in large clear-cut openings.	\$30,000.00	Thomas P. Sullivan Applied Mammal Research Institute 250-494-7160 tom@appliedmammal.com

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West Arm Spawning Channel Infrastructure Repair	4-578	West Arm spawning channels support wild kokanee conservation and a popular fishery (up to 4,000 angler days/year) which generates \$300,000 to \$600,000 annually to the local economy. This project aims to replace ageing infrastructure at these channels and therefore continue to supply stock conservation and fishery benefits.	\$90,000.00	Matt Neufeld MFLNRORD 250-354-6353 matt.neufeld@gov.bc.ca
Preserving the Ecological Function of BC's Freshwater	4-581	This project will monitor lakes in the Central Kootenay region for invasive mussels through veliger sampling and substrate monitoring.	\$15,000.00	Erin Bates Central Kootenay Invasive Species Society 884-352-1160 ebates@ckiss.ca
East Kootenay Invasive Mussels Monitoring Project	4-582	This project will monitor lakes in the East Kootenay region for invasive mussels through veliger sampling. Lakes proposed to be monitored include Tie, Windermere, Koocanusa, Premier, Wasa, Whitetail, Whiteswan, Columbia, Moyie, St Mary, Surveyor's and Lillian.	\$17,305.00	Laura MacKinnon East Kootenay Invasive Species Council 250-299-2464 laura@ekisc.com
Elk movements and survival in the Elk Valley	4-586	Elk in the Elk Valley appear to have changed migration patterns in recent years. Productivity and survival of non-migratory and migratory elk in the Elk Valley may differ. This study examines elk movements and survival in the Elk Valley and will provide information to help make informed wildlife management decisions.	\$27,600.00	Sam Medcalf Sparwood and District Fish & Wildlife Association Director 250-425-5531 Smedcalf83@hotmail.com
Kootenay River Oxbow Restoration and Conservation Project	4-590	The goal of this seed project is to develop the information, actions, and partnerships necessary to develop a multi-year, multi-species restoration and conservation program for the Oxbow, home to many ecologically and culturally important species and habitats including degraded riparian camas meadows, and listed birds, bees, and ecological communities.	\$5,000.00	Brenda Beckwith Kootenay Native Plant Society Ethnoecologist 250-608-2115 Brbeckwith15@gmail.com
Evaluating grizzly conservation management: quantifying recovery in the South Selkirks	4-593	This project is a unique opportunity to quantifiably evaluate 15 years of conservation activities recovering a threatened grizzly bear population in the South Selkirks using a DNA-based population survey. The results will allow BC's first detailed, scientifically documented recovery process (from problem & solutions identification to solutions implementation, to realized conservation return) that will provide valuable input to the developing BC Grizzly Bear Management Plan.	\$12,664.00	Michael Proctor Birchdale Ecological 250-353-8072 mproctor@netidea.com

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Habitat enhancement and connectivity improvement for <i>Ovis canadensis</i> at Bull River	4-597	Prescribed burning will enhance summer and transitional habitat to support the declining Rocky mountain bighorn sheep herd at Bull River. This project builds upon existing efforts to improve line of sight for predator avoidance and enhance forage on sheep winter ranges. The burn will improve habitat connectivity and provide safer migration routes to the winter range enhancement projects.	\$67,000.00	Ariana McKay MFLNRD 250-489-8557 Ariana.mckay@gov.bc.ca
Premier Lake Park & adjacent Crown land Prescribed Burn	4-602	BC Parks will be conducting a 300 ha prescribed burn on 150 ha of park land as well as 150 ha of adjacent Crown land in the spring of 2019. This project aims to enhance habitat for wildlife in the Premier Lake Park area and on adjacent Crown land by restoring grassland and open forest habitats.	\$78,429.00	Amanda Weber-Roy MFLNRD 250-489-8563 Amanda.weber-roy@gov.bc.ca



*Project 4-560 Diversifying Mountain Pine Beetle Clearcuts for Small Mustelids*

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## Approved Projects in the Cariboo

Project Name	Project #	Project Description	Grant Amount	Project Leader Contact Information
Fisheries O&M - Cariboo	5-44	Enhance fisheries through: lake aeration on Skulow, Irish and Simon lake; operation and maintenance of Haines Creek diversion to the 11 sister lakes; dams, weirs, and fish passage restoration on other lakes and stream.	\$49,350.00	Todd Gale MFLNRORD 250-398-4555 Todd.Gale@gov.bc.ca
Mid-Fraser River White Sturgeon Radio Telemetry Program	5-196	This is year five of a five year study focussed on filling knowledge gaps of sturgeon habitat use and behaviour in the mid-Fraser River. Specifically, identify spawning locations and improve understanding of stock structure in northern sections of the mid-Fraser. This project builds upon previously completed HCTF project 5-196.	\$33,000.00	Lee Williston MFLNRORD 250-398-4696 Lee.Williston@gov.bc.ca
Quality Waters Strategy: Cariboo Region	5-239	The Dean River guardian program will collect the necessary creel information to administer the Dean River draw and implement the Dean River angling management plan. River guardians on the Chilcotin River will monitor steelhead fisheries closure due to extreme conservation concern.	\$164,401.00	Lee Williston MFLNRORD 250-398-4696 Lee.Williston@gov.bc.ca
Restoring Ungulate Habitat Through Clumpy Spacing	5-281	A clumpy-spacing trial was installed in 1990 to examine habitat enhancement for ungulates (deer winter range) through a unique spacing regime of overstocked stands of juvenile trees. This project will evaluate whether clumping spacing enhanced habitat use by ungulates and regionally-important wildlife.	\$34,246.00	Douglas Ransome BC Institute of Technology 604-431-4985 Doug_Ransome@bcit.ca
Elkin Creek Nature Preserve( Year 3 of 3)	5-288	This Land Stewardship Grant will fund land management activities including fencing to protect sensitive areas, stewardship planning and boundary delineation. Funding amount is over a three-year term.	\$35,000.00 over 3 years	Wayne McCrory Valhalla Foundation for Ecology 250-358-7796 waynem@vws.org
Scout Island (Year 3 of 3)	5-289	This Land Stewardship Grant will support restoration activities including invasive species removal, planting of native species, and managing over grazing by Canada Geese. Funding amount is over a three-year term.	\$36,000.00 over 3 years	Susan Hemphill Williams Lake Field Naturalists 250-398-8532 shemphill@xplornet.com

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Ecology of small mammals in post-fire and salvage-logged landscapes	5-295	Fires and post-fire salvage-logging have unknown but likely significant impacts on small mammals, which are important prey species for forest carnivores. This project will quantify abundances and distribution of mice and voles, snowshoe hares, and red squirrels in response to these disturbances west of Williams Lake, where we are conducting concurrent work on marten.	\$41,314.00	Karen Hodges University of British Columbia Okanagan 250-807-8763 karen.hodges@ubc.ca
Chilko Lake bull trout movements and exploitation	5-296	This project is tracking the movements of bull trout from Chilko Lake (via acoustic telemetry) to determine their residency and potential dispersal throughout the Chilcotin and nearby systems. Exploitation rates for bull trout will also be estimated via high-reward tags.	\$70,188.00	Scott G. Hinch University of British Columbia 604-822-9377 scott.hinch@ubc.ca
Central Interior Lake Trout Exploitation Study	5-297	This study aims to assess lake trout mortality on six popular fisheries in British Columbia's Central Interior to evaluate opportunity for increased lake trout harvest with the desired outcome of improving angler participation and satisfaction through increased lake trout harvest opportunity and reduced competition or predation on kokanee and rainbow trout.	\$57,756.00	Russell Bobrowski MFLNRORD 250-398-4258 Russell.Bobrowski@gov.bc.ca
Horsefly River - Rainbow Trout Enumeration and Habitat Use Study	5-306	This project will develop a cost-effective method to index abundance of Quesnel Lake rainbow trout to provide the basis for long term management of the stock. Acoustic telemetry will also be used to identify critical habitats across the Horsefly River watershed. Information will be used to implement legislative habitat protection measures.	\$53,000.00	Lee Williston MFLNRORD 250-398-4696 Lee.Williston@gov.bc.ca
Assessing cougar density in The Cariboo Region through non-invasive survey techniques	5-307	This project utilizes closed spatial mark-recapture modelling to estimate cougar population densities in a study area of region 5. This project will incorporate a citizen science component for estimating cougar populations by including stakeholders.	\$38,845.00	Shane White MFLNRORD 250-398-4553 Shane.White@gov.bc.ca
Invasive Mussel Monitoring for 11 Priority Lakes in the Cariboo Regional District	5-310	This project will monitor lakes in the Cariboo region for invasive mussels through substrate monitoring and water sampling for veliger detection.	\$14,815.00	Gail Wallin Invasive Species Council of BC Executive Director 250-392-1400 gwallin@bcinvasives.ca

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Fencing to Reduce Badger (and other wildlife) Road Mortality	5-311	This project will mitigate badger and western painted turtle (and other smaller wildlife) road mortality by building fences and modifying existing drainage structures specifically designed to direct badgers, turtles and other wildlife to 9 safe crossing structures in the section of highway 97 from 148 Mile House to 150 Mile House.	\$45,000.00	Roger Packham 778-482-5059 roger.m.packham@gmail.com
Assessing high-elevation forest harvesting strategies to maintain caribou and moose habitat	5-313	This is a two-year study designed to understand the use of high-elevation forestry blocks by moose, caribou, wolves and bears. We will assess differences in the distribution and abundance of moose and their predators across an adaptive management trial with conventional (>25ha) and small (<1.0ha) clearcuts as well as an unharvested control.	\$30,418.00	Chris Johnson UNBC 250-960-5357 johnsoch@unbc.ca
CHRF Clisbako Caribou Rehabilitation Project	5-317	This restoration project is designed to benefit the Itcha-Ilgachuz caribou herd by rehabilitating roads to reduce predator travel efficiency.	\$38,400.00	Christine Unghy MFLNRORD 250-991-7274 Christine.unghy@gov.bc.ca
CHRF Ulkatcho	5-318	This restoration project is designed to benefit the Itcha-Ilgachuz caribou herd by rehabilitating roads to deter predator movement.	\$82,782.00	Ayrilee McCoubrey MFLNRORD 250-398-4574 Ayrilee.mccoubrey@gov.bc.ca

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## Approved Projects in the Skeena Region

Project Name	Project #	Project Description	Grant Amount	Contact Information
Skeena Weirs and Steelhead Stock Assessment	6-97	This project will provide wild Skeena Watershed steelhead abundance data at three index sites: the upper Sustut River weir, the Kitwanga River DIDSON (dual beam identification sonar) sonar and the Kloiya River resistivity counter to enumerate an upper Skeena, early run-timing, a mid-Skeena summer and a coastal winter run steelhead population, respectively.	\$72,500.00	Mark Beere MFLNRORD 250-847-7297 Mark.Beere@gov.bc.ca
Restoring Whitebark Pine Ecosystems to Enhance Subalpine Bear Habitat	6-227	This is year 3 in the 2nd 5-yr cycle of a multi-partner project to restore endangered whitebark pine ecosystems with high value habitat value for bears in the southern Skeena Region. 2019-2020 plans include: (1) prepare a plan to optimally use the large whitebark pine seed collection made in 2018; (2) monitor 2014 and 2017 restoration plantings; (3) complete 5th research report on whitebark pine assisted migration trial (2012-2013 plantings); (4) continue outreach and extension activities including installation of an interpretive sign on Hudson Bay Mtn.	\$7,000.00	Sybillie Haeussler Bulkley Valley Centre for Natural Resources Research & Management 250-847-2827 Sybillie.Haeussler@unbc.ca
Determining Population Management Unit Boundaries for Mountain Goats in Skeena Region	6-252	This project will monitor movements, home ranges, habitat selection and genetic relatedness of mountain goats on two adjacent mountain complexes northeast of Smithers, BC to determine biologically meaningful population management unit boundaries for these populations; results of this study can help to inform biologically based PMUs in the remainder of the Skeena Region.	\$47,100.00	Kara MacAulay MFLNRORD 250-771-3569 kara.macaulay@gov.bc.ca
Quality Waters Strategy - Skeena	6-268	This project includes fishery development and planning activities on the Bulkley, Kispiox and Morice Rivers, including review of angler effort targets and feasibility of lottery booking systems.	\$128,000.00	Kenji Miyazaki MFLNRORD 250-847-7266 Kenji.Miyazaki@gov.bc.ca
Meziadin Lake Creel Survey	6-273	A creel survey of Meziadin Lake will be conducted during May to September 2019. The survey will interface with a larger project already underway, which is quantifying the aspects of life history of Meziadin Lake bull trout and the recreational	\$23,835.00	Jo De Gisi MFLNRORD 250-847-7288 Joe.degisi@gov.bc.ca

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		fishery in the lake through acoustic and high-reward tagging. The goal of this work is to inform the management of the recreational fishery on the lake, maintaining sustainable harvest opportunities which attract angler participation.		
Cassiar Stone's Sheep Habitat Use Study	6-276	This project will be conducted in the Cassiar Mountains of northern British Columbia investigating habitat selection, seasonal movement behaviours and herd relatedness of the Cassiar Stone's Sheep herd. Research findings will provide a scientific basis and management recommendations to effectively conserve Stone's Sheep habitat and health.	\$27,745.00	Mark Boyce University of Alberta 780-492-0081 boyce@ualberta.ca
Tahltan Burn Plan	6-281	The project is to develop a burn plan and schedule for identified critical habitat areas within the Tahltan Territory. Through community meetings and discussions with individuals within the local Tahltan communities we have identified areas that would benefit from habitat enhancement burning for moose, Stone's sheep.	\$5,000.00	Bill Oestreich Wildlife Director Tahltan Central Government 250-771-3274 wildlifedirector@tahtlan.org
CHRF Whitesail Reach	6-282	This restoration project is designed to benefit the Tweedsmuir-Entiako caribou herd by clearing debris from the shore line of calving islands on Whitesail Lake.	\$55,000.00	Marc Steynen The Society for Ecosystem Restoration in Northern BC 250-643-3433 Marc.steynen@sernbc.ca
CHRF Tweedsmuir – Entiako Caribou Lichen Restoration	6-284	This restoration project is designed to benefit the Tweedsmuir-Entiako herd by seeding lichen fragments over 50 ha in areas impacted by Chelaslie wildfire.	\$79,719.00	Marc Steynen The Society for Ecosystem Restoration in Northern BC 250-643-3433 Marc.steynen@sernbc.ca
Thinhorn sheep herd health investigation to address conservation and management concerns	6-285	This project will conduct a baseline herd health assessment of Stone's sheep, including exposure to infectious agents such as <i>Mycoplasma ovipneumoniae</i> , nutritional status, stress, fecundity and fertility.	\$19,068.00	Caeley Thacker University of Calgary 250-748-6068 cthacker@gmail.com

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## Approved Projects in the Omineca/Peace Region

Project Name	Project #	Project Description	Grant Amount	Project Leader Contact Information
Fisheries O&M - Peace	7-98	Operation & maintenance of HCTF-funded projects and assets will include winter aeration of Inga and Sundance Lakes, educational trips to the Inga Lake spawning channel, Swan Lake fishway maintenance and Stewart Lake weir maintenance.	\$22,000.00	Michel Lavallee MFLNRORD 250-787-3324 michel.lavallee@gov.bc.ca
Enhancing caribou survival within the Klinse-Za/Scott herds	7-436	This will be Year 6 of the maternal penning project that is used as one of several complementary emergency measures implemented to avert extirpation, and eventually recover, the population of caribou known as the Klinse-Za/Scott herds located in the south Peace region of northern British Columbia.	\$62,871.00	Pending proponent change – please contact HCTF for further information
Monitoring Plan for the Mountain Goat in the Omineca Region	7-451	The most recent status assessment in BC (2015) up-listed mountain goats from Yellow/Secure to Blue/Special Concern to reflect the sensitivity and current vulnerability of goat populations to both natural events or human activities within their range. The current population status for mountain goat populations in the Omineca region is unknown, increasing the risk that population objectives are not being met. This 5 year population assessment will help determine population estimates for mountain goats in areas where harvest densities are high to ensure that current hunting strategies are sustainable.	\$31,000.00	Michael Klaczek MFLNRORD 250-614-7456 michael.klaczek@gov.bc.ca
Tuchodi Prescribed Burns for Wildlife Habitat	7-469	The Tuchodi Prescribed Burn Program seeks to support critical winter range for multiple ungulate species in northern British Columbia by improving the quantity and nutritional quality of forage in winter range habitats. By restoring early-seral habitats and rejuvenating mid-seral habitats, the program will ensure the long-term sustainability of ungulate populations, maintain hunting and recreational opportunities, and support traditional use of wildlife by First Nations.	\$55,450.00	Alicia Woods Ridgeline Wildlife Enhancement 250-262-9630 adwoods04@gmail.com

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Determining the Nutritional Importance of Kokanee to Grizzly Bears	7-471	Through non-invasive hair collection methods, we aim to determine the nutritional importance of kokanee to grizzly bears in north-central BC. Diet composition and kokanee consumption will be assessed to provide insight into potential physiological implications of decreasing kokanee availability to these grizzly bear populations in light of habitat and climate change.	\$32,370.00	Shelley Marshall MFLNRORD 250-614-7458 shelley.marshall@gov.bc.ca
Etthithun Wood Bison Herd Monitoring	7-472	This project will provide basic population information on the Etthithun herd population of wood bison by collaring about 10% of the estimated population, monitoring survival and reproduction. Biological samples will also be taken for disease testing and health sampling.	\$43,550.00	Audrey Gagen-Delorme MFLNRORD 250-787-3289 Audrey.gagnedelorme@gov.bc.ca
Wolf predation risk to moose in north-central BC	7-473	This project investigates seasonal wolf predation risk to moose in two of the provincial moose research project study sites. We track kill sites of up to 10 wolf packs in each site by deploying satellite collars and checking location clusters for evidence and type of prey killed, while also determining space use parameters and resource selection.	\$82,100.00	Morgan Anderson MFLNRORD 250-614-7419 Morgan.Anderson@gov.bc.ca
Chase Caribou Herd Response to Extensive Habitat Alterations	7-475	This project will assess the potential impacts of recent large-scale habitat alterations caused by damaged forests (wildfire and mountain pine beetle) on the population stability of the Chase caribou herd. We will contrast current population parameters to population parameters of the herd prior to recent disturbance.	\$69,999.00	Krista Sittler Wildlife Infometrics Inc. 250-997-5700 krista.sittler@wildlifeinfometrics.com
KlinseZa/Scott East Caribou Maternal Pen Health Evaluation	7-496	Emergency recovery measures have led to improved outcomes for the demographics of the threatened Klinse-Za herd in north-central BC, but the effects of this intensive and invasive management on individual and herd health have just begun to be investigated. In this 2nd year, we propose to submit 2019 penning samples for labwork, analyze the laboratory results, and interpret the findings; in the third year, to submit a peer-reviewed publication.	\$22,658.00	Pending proponent change – please contact HCTF for further information

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Sharp-tailed Grouse Population and Lek Habitat Monitoring	7-507	This project will re-initiate the monitoring of sharp-tailed grouse populations in the North and will quantify habitat characteristics of lek sites. Results of this project will contribute to management of the species and provide guidance to industrial proponents to minimize impacts to sharp-tailed grouse.	\$29,373.00	Alicia Woods Ridgeline Wildlife Enhancement 250-262-9630 adwoods04@gmail.com
Impacts of industrial herbicides on wildlife: Omineca case study	7-512	This project seeks to a) clarify the repertoire of risks that herbicides used in forests may impose on native wildlife, and to b) appraise those risks through laboratory analyses of understory plants exposed to glyphosate-based herbicides across a range of years. We seek HCTF funds to cover professional laboratory analysis of glyphosate residues and derivatives, metals concentrations, and digestible energy contained in several common moose forage species.	\$35,008.00	Jeffery Werner MFLNRO 250-614-7479 Jeffery.werner@gov.bc.ca
Linking forest condition, heat stress, and moose health	7-513	Moose cope poorly with heat and must seek thermal shelter during periods of heat stress. However, recourse to thermal shelter logically requires that it be in sufficient supply. The purpose of this study is to investigate the thermal environment in a region where Mountain Pine Beetle salvage logging has radically shifted the landscape to an early-seral condition. Operative temperature will be measured in common forest types to determine the a) gravity of thermal stress in this landscape and b) extent to which it is under management control.	\$13,150.00	Jeffery Werner MFLNRORD 250-614-7479 Jeffery.werner@gov.bc.ca
Implications of bear demography on recovery of the Klinse-Za caribou herd	7-516	This seed project will result in a collaboratively developed, multi-year funding proposal to address information gaps in black and grizzly bear demography, distribution, and diets; particularly in relation to the implementation of caribou recovery measures in the Klinse-Za caribou herd.	\$5,000.00	Alicia Woods Ridgeline Wildlife Enhancement 250-262-9630 alicia.woods@wildlifeinfometrics.com
Evaluating elk population trend, habitat use, and potential for competition with moose in the southern central Omineca	7-518	Female elk will be collared in the southern Omineca around Prince George and monitored to determine survival rate, calf recruitment and population trends as baseline information. Resource selection will determine habitat use to inform elk management regionally where extensive mountain pine beetle salvage has occurred. Collared elk will allow regional staff to develop a refined sightability correction factor to facilitate accurate abundance estimates.	\$61,715.00	Matt Scheideman MFLNRORD 250-565-6135 Matt.scheideman@gov.bc.ca

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Canada Lynx habitat ecology on an intensively harvested landscape.	7-519	Using a combination of GPS collars and non-invasive survey techniques we will investigate the habitat ecology and population status of Canada lynx in an intensively harvested landscape in central BC. The aim of this study is to provide applied recommendations for habitat and species management as well as improve monitoring methods for Canada lynx in a rapidly changing landscape.	\$60,580.00	Shannon Crowley Ecological Monitoring Coordinator 778-978-0117 crowley@unbc.ca
Northern Myotis Maternal Roost Study	7-522	Locate and describe biophysical attributes of maternal colonies of the federally endangered northern myotis (often multiple trees within a geographic area) through capture and radio telemetry to inform 1) understanding and identification of critical habitat as recommended in the species recovery strategy 2) contribute to the develop of a habitat management tool for industry 3) provide information to contribute to WHA designation should the re-assessment of Identified Wildlife include northern myotis, 4) contribute to mitigation for habitat loss such as creation of wildlife habitat trees with collaborators.	\$22,930.00	Brian Paterson Zonal Ecosystem and Wildlife Consultants Inc. 250-731-6028 bapaterson@gmail.com
Little Bobtail Wildfire Ecosystem Restoration Plan – Riparian Planting	7-523	The Society for Ecosystem Restoration in Northern BC (SERNbc) has identified an opportunity to improve riparian ecosystem functioning impacted by the Little Bobtail wildfire in 2015. As part of a broader Ecosystem Restoration Plan (ERP) already completed, this project seeks to plant 37,000 trees across 48 hectares of burned riparian areas critical to local fish and wildlife populations.	\$21,672.00	John Degagne SERNbc 250-567-6316 John.degagne@gov.bc.ca
CHRF Black Creek / Pickell Creek Area	7-526	This restoration project is designed to benefit the Chinchaga herd by restoring legacy seismic lines.	\$184,730.00	Jane Calvert Blueberry River First Nations 250-630-2584 jcalvert@blueberryfn.ca
CHRF Amoco Road Restoration	7-528	This restoration project is designed to benefit the Moberly (Klinse-Za) and Scott herds using functional restoration treatments on a road built for oil and gas exploration.	\$98,841.00	Nîkanêse Wah tzee Stewardship Society

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CHRF Kotcho Lake Restoration Area	7-529	This project is designed to benefit the Snake-Sahtahneh caribou herd by limiting predator use of legacy seismic lines and using re-vegetation to increase habitat suitability for caribou.	\$257,950.00	Katherine Capot-Blanc Acting Lands Manager 250-774-6313 katherine.capotblanc@fnation.ca
CHRF Caribou Flats	7-531	Designed to benefit Chase herd by restoring 10 km of forestry roads using functional and ecological restoration techniques.	\$158,648.00	Sean Rapai Chu Cho Environmental LLP Sean@chuchoenvironmental.com 226 203 0703



*Project 7-473: Wolf Predation Risk to Moose in North-Central BC*

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## Approved Projects in the Okanagan

Project Name	Project #	Project Description	Grant Amount	Project Leader Contact Information
Promoting Voluntary Habitat Stewardship in the Okanagan & Similkameen valleys	8-90	This project continues to build on the success of the past twenty years of stewardship in the Okanagan and Similkameen valleys, supporting land stewardship, conservation and enhancement activities on private land and within communities throughout the RDOS, RDCO and RDNO.	\$50,000.00	Alyson Skinner Okanagan Similkameen Stewardship Society 250-809-1980 alyson@osstewardship.ca
Fisheries O&M - Okanagan	8-124	This request covers operations and maintenance of HCTF projects completed around the Okanagan Region. These include maintaining aerators on small lakes, dams and kokanee spawning habitat. The O&M budget is critical to sustaining important sport fisheries in the Okanagan region.	\$81,900.00	Tara White MFLNRORD 250-490-2287 tara.white@gov.bc.ca
South Okanagan Similkameen Conservation Program (SOSCP) Habitat Conservation Delivery	8-349	Establishing fish and wildlife habitat conservation and protection measures through a collaborative partnership model. Focus is on implementation of Keeping Nature in Our Future - Regional Biodiversity Conservation Strategy, facilitating long lasting changes in land use and resource management decisions, developing and promoting environmental decision tools, expertise, policy and legal frameworks with local and regional government partners and other decision makers, and increasing the effectiveness of conservation partners through a coordinated approach in the South Okanagan-Similkameen Region.	\$28,500.00	Bryn White Regional District of Okanagan Similkameen 250-490-8225 Bryn.white@gov.bc.ca
Mule deer response to wildfire and habitat in southern British Columbia	8-408	This project will identify the effect of wildfire on mule deer habitat selection and population growth in the Boundary Region, West Okanagan, and Bonaparte Plateau areas of British Columbia, and provide management tools and recommendations to increase mule deer abundance.	\$95,585.00	Adam Ford University of British Columbia Okanagan 250-807-9773 adam.ford@ubc.ca
Quintal Floodplain (Year 3 of 3)	8-414	This Land Stewardship Grant will fund land management activities to establish healthy riparian zones alongside restored wetlands. Funding amount is over a three-year term.	\$45,000.00 over 3 years	Sarah Nathan Ducks Unlimited Canada 604-592-5009 s_nathan@ducks.ca

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Managing <i>Psoroptes ovis</i> in Okanagan Bighorn	8-422	This project aims to better understand the effects of Psoroptic mange on California bighorn population dynamics and mitigate transmission risk to uninfected populations in the Okanagan Region.	\$23,750.00	Andrew Walker MFLNRORD 250-490-2217 Andrew.Walker@gov.bc.ca
Restoring Riparian Cottonwood of the Kettle River for Species at Risk	8-433	Our project will work to restore and/or enhance riparian cottonwood forests of the Kettle and Granby Rivers for the Lewis's Woodpecker our riparian ambassador. To compliment work on public lands we will work with private landowners to encourage stewardship and restoration as so much of this habitat type is privately owned.	\$50,000.00	Jenny Coleshill The Granby Wilderness Society 250-442-7969 jenny.coleshill@granbywilderness.ca
Mussel Sampling 2019 Boundary Area	8-436	This project will monitor Jewel and Idabel Lake for invasive mussels through sampling to test for the presence of mussel veligers.	\$3,340.00	Barb Stewart Boundary Invasive Species Society 250-446-2232 manager@boundaryinvasives.com
Christina Lake Invasive Mussel Monitoring	8-437	This project will monitor Christina Lake for the presence of invasive mussels through sampling for the detection of mussel veligers.	\$3,418.00	Brenda LaCroix Christina Lake Stewardship Society 250-447-2504 clss@shaw.ca
Okanagan Invasive Mussel Monitoring	8-438	This project will monitor for invasive mussels in the Okanagan region including sampling for veliger detection and substrate monitoring. Project to include Osoyoos Lake, Skaha Lake, Okanagan Lake, Wood Lake and Kalamalka Lake.	\$13,485.00	Lisa Scott SOSIPS Coordinator 250-404-0115 oasiss@shaw.ca
Powers Creek Fish Ladder	8-445	This project will rebuild the Powers Creek fish ladder, which was destroyed in the 2018 freshet. Construction of the fishway will help kokanee and rainbow trout to navigate a rock obstruction and reach the spawning grounds in Powers Creek. Project completion will substantially increase kokanee production in an important tributary to Okanagan Lake.	\$30,737.00	Tara White MFLNRORD 250-490-2287 Tara.white@gov.bc.ca
Highway 97C Paradise Valley Tunnel Refit to Accommodate Large Wildlife	8-446	This project will support a multi-organization team in producing a conceptual design and a full HCTF funding proposal (for 2020/21) to refit the Paradise Valley vehicle tunnel under Highway 97C near Peachland to also accommodate safe wildlife passage under the highway.	\$4,695.00	Alan Peatt Bearfoot Resources Ltd. (250) 328-4699 alpeatt@shaw.ca

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eDNA sampling of rare snakes at known Okanagan dens	8-447	Feasibility study: Can terrestrial environmental DNA (eDNA) sampling determine rare snake species ( <i>Crotalus oregonus oregonus</i> ) presence as a method of increasing Species-At-Risk (SAR) protection of snake hibernacula.	\$5,000.00	Michael Dunn Mike Dunn Consulting 250-488-7105 Michael.dunn@alumni.unbc.ca
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*Project 8-408: Mule deer response to wildfire and habitat in southern British Columbia*

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